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Appendix 1 EPL28929

1. Purpose & Scope

This Waste Facilities Management Procedure has been written to help ensure that waste is managed in a safe and correct manner in order to reduce risk to health and the environment. It describes the waste management techniques and processes required to comply with the conditions of Environment Protection Licence 289 (EPL289) and the applicable legislative requirements of the *Waste Management and Pollution Control Act*.

This Procedure applies to waste management activities within the following GEMCO controlled facilities:

- **Integrated Waste Facility (IWF):** located between Alyangula and Angurugu off the Rowell Highway.
- **Proscribed Waste Management Facility (PWMF):** located within the Integrated Waste Facility compound.
- **Waste Oil Facility:** located next to the Non-Process Infrastructure Maintenance Department in Alyangula.

This procedure is applicable to the contractor and/or department managing these facilities, the GEMCO department managing the contractor, and the HSEC department who will conduct regular audits of the facility to ensure safe and environmentally sound management of the facility.

GEMCO is responsible for the management of waste generated by mining operations and assists with the management of waste from contractors, small businesses, and the public on Groote Eylandt. As a duty of care to the environment, it is GEMCO's responsibility to ensure that these wastes are disposed of correctly.

Waste Management Standard STA-3316 should be referred to for more information on general information on GEMCO's waste management streams, extra information as well as previously superseded waste management documents.

2. Integrated Waste Facility Management Procedure

2.1. Responsibilities

Position	Accountability
PRIMARY STAKEHOLDERS	
AREA OWNER Non Process Infrastructure (NPI) Maintenance Department	Must ensure IWF contractors are adequately managed including: • training, • certification • environmental awareness • health and safety issues such as up to date SOP (SWI) or JSA This Department must also ensure hazardous or specialty waste is transported off Eylandt for treatment/disposal and must manage illegal dumping as well as incident investigation and reporting. Management/Maintain adherence/ compliance to conditions of Environment Protection Licence EPL289. Comply with the requirements of section 14 of the WMPCA. The NPI Department is responsible for maintaining this document, and ensuring that it is updated at least 2 years, giving consideration to: • Assessing whether there have been any operational changes which may impact management practices. • Assessing changes to South32 policy, guidelines or legislation.
IWF Operator - Contractor or internal GEMCO	Manage the IWF as described in this procedure in accordance with the conditions of EPL289, and as communicated by NPI Maintenance.

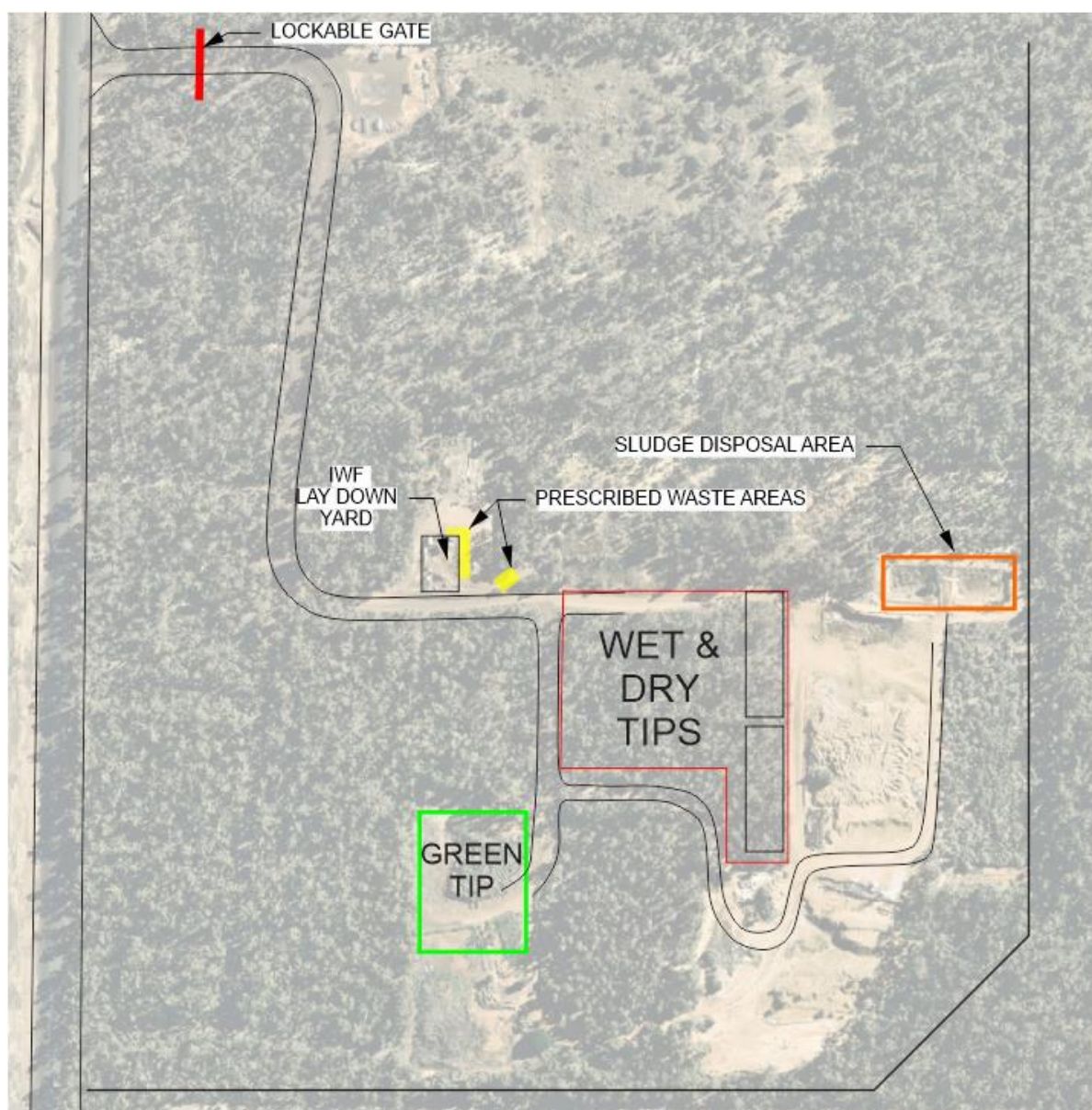
Position	Accountability
SECONDARY STAKEHOLDERS	
HSEC Manager	EPL289 Licence contact person
Waste producers – i.e. all GEMCO employees, Contractors, small businesses, and the public	- Correct disposal of waste as required by law (no illegal dumping) - Compliant to IWF operator directions regarding waste positioning
Environment Improvement	Administrative management of reporting and performance requirements of EPL289, including: - closure planning; - monitor and annual performance reporting; - Environmental Management Plan for the IWF; and - Develop a conceptual site model.
Environment Execution	- The Environment Department is responsible for communicating any changes to STA-3316 Waste Management Standard to the NPI department. Changes to this overarching standard may have an impact on the operational procedures of the various facilities. - The Environment Department is responsible for collecting ground water samples to test for any possible contamination originating from the operation of the IWF and for conducting regular environmental audits on the IWF - Report non-compliances to NT EPA - Keep records of all non-compliances with EPL289 for the IWF.
Supply Department	Transporting waste from the IWF to the wharf for shipping off-Eylandt for off-site treatment, upon request as per standard Goods Return Advice (GRA) process.
HSEC – Emergency Services (in collaboration with NPI)	- Extinguish ALL fires as soon as practicable. - Implement and maintain an emergency response plan which documents the procedures to deal with emergencies associated with the licensed activity.
RMS	As directed by NPI Maintenance: - Treat weeds within the IWF; and - Rehabilitate completed land fill.
External Affairs	Maintain and implement a communication plan which includes a strategy for communicating with members of the public who are likely to have a real interest in or be affected activities.
HSEC – Community	Maintain a log of each complaint made regarding the IWF. The Log must contain the details as required in EPL289 (refer to Appendix 1).

2.2. Integrated Waste Facility Layout, Opening Times and Signage

The Integrated Waste Facility (IWF) is located between Alyangula and Angurugu off the Rowell Highway. It's southern and eastern boundaries are posed by the presence of ore bodies. The current green tip and wet tip will remain in place with the dry tip being positioned north of the wet tip.

The wet and dry tips are divided into parcels of approximately 7,000m² which will be cleared, utilised, and rehabilitated progressively. Each parcel therefore offers room enough for 4-8 trenches to receive waste.

The IWF consists of a lockable gate, lockable compound and associated signage detailing location and accepted wastes at the Wet Tip, Dry Tip and Green Tip.



2.2.1. Opening Times and Signage

Monday - Saturday 7:00 am – 5:30 pm

Sunday 7:00 am – 4:00 pm

Operator will be required to unlock the gates in the morning. At night, operators are required to pack up and lock the gates before departing.

Clear and legible signage is to be displayed in a prominent location at the Alyangula-Angurugu IWF entrance including the following details:

- Environment Protection Licence number (EPL 289) issued under the WMPCA; and
- 24-hour emergency contact details for IWF (HSEC Emergency Services).

2.3. Waste streams accepted at the IWF

2.3.1. Dry Waste

Dry or inert waste includes packaging material, pallets, heavy plastics, furniture, wood, cloth, and thin metal items unsuitable for recycling. Empty containers such as paint containers, oil drums, 1,000L DOT's and alike can also be disposed of as dry waste providing they have been thoroughly emptied and dried out if applicable.

Inert waste is accepted at the dry tip trench in the IWF.

2.3.2. Wet Waste (Putrescibles, Household Waste)

Wet waste is also called household waste or putrescibles and includes rubbish such as food scraps, dirty food and drink containers, and anything else that is bound to break down. Wet Waste also includes light plastics such as plastic bags and other items that are easily airborne by wind (fly-away rubbish).

Wet waste is accepted at the wet tip trench in the IWF.

2.3.3. Green Waste and Weeds

Green Waste includes garden waste such as grass clippings, fronds, branches, and leaves as long as they are from native or non-invasive species. If they come from weeds they need to be segregated in order to prevent their spread. Note that material transported in plastic bags needs to be taken out and the plastic bags need to be taken to the wet tip. Civil contractor to place concrete bund at green waste area for weed poisoning

Green Waste is accepted at the green tip in the IWF.

Weeds are accepted in the concrete weed bays located in the green tip area of the IWF.

2.3.4. Reusable Waste

Items such as fencing material, stakes and building material may have a reusable value. These items are to be placed in the locked compound at the landfill facility, and can be collected and used by members of the township. These items will be kept for one month, and if they have not been collected for use by this time, they will be disposed of in the Dry Tip

2.4. Waste streams NOT accepted at the IWF

Several items are not permanently accepted at the IWF. The operator will still accept these items but they need to be taken to their appropriate waste disposal site. Below is a list of disposal sites and the kind of wastes they accept. Please note that large commercial quantities should be disposed of directly by the department that produces them. The below facilities are for minor quantities only.

2.4.1. Hazardous (Proscribed) Waste Transfer Facility

- Gas cylinders
- Fire extinguishers
- Batteries
- White goods and air conditioners (placed in the appropriate proscribed waste area)
- Computers and electrical equipment (placed in the appropriate proscribed waste area)
- Car tyres from community residents
- Other specialty hazardous waste such as corrosive substances, pesticides, herbicides, etc. (LABEL it with as much information as possible and place into hazardous substances cabinet in the appropriate proscribed waste area)

2.4.2. Old Tyre Bay

- Used conveyor belt cut offs (whole conveyor belt is rolled up, secured onto flat racks and shipped off directly)
- Mining Tyres

2.4.3. Waste Oil Facility

- Cooking oil (decant into appropriate 1,000L pod and discard empty receptacle)
- Waste motor oil (decant into appropriate 1,000L pod and discard empty receptacle)
- Oily rags (place into appropriate 1,000L pod)
- Oil filters (place into appropriate 1,000L pod)
- Pressure packs/ aerosol cans (place into appropriate 1,000L pod)
- Paints, thinners, other flammable liquids (decant into appropriate 1,000L pod, let paint dry in the can and discard empty receptacle)

2.5. Landfill Survey Data

Landfill survey data is included in Group reporting data on a monthly basis. Data is expected to be accurate and up to date. The data is to be submitted to the Environment Execution department at the end of every month.

The procedure at the IWF will consist of the following:

1. Vehicle arrives and stops at the closed boom gate.
2. Operator approaches the driver and inquiries regarding the type of waste loaded and the origin of that waste:
 - If the driver intends to dump waste not accepted such as oils, rubber, paints, etc., these items will be removed by the operator and kept inside the fenced yard until the end of the shift when they will be relocated to appropriate facility, e.g. the Hazardous Waste Management Facility (Hobby Shed) in Alyangula.
 - If the driver intends to dump green waste, the operator will inspect the cargo for any possible weeds. He will then advise the driver where to place the load and if any special management is needed (for example removing the plastic bags garden waste was brought in with).
 - If the driver intends to dump fencing material, stakes, building material or other items that may have reuse or recycle value the operator will take these items into the fenced yard as part of the reuse program. These items can then be safely and effectively picked up by other patrons requiring them. If they are not moved within 1 month, they will be returned to the tip and scrapped.
 - The operator will note down the origin of waste and the type of waste. If it is a mixture of several types, estimation on the percentage of each waste is made, for example 40% wet waste and 60% dry waste.

2.6. Waste Data Recording

The operator is to record all data for the waste gathered, the following is to be reported each day.

- Wet waste (m³)
- Dry waste (m³)
- Green waste (m³)
- Tyres
- Gas bottles
- Batteries

These waste figures are placed into a spreadsheet and accumulated for monthly totals

The civil contractor will supply the Environment Department with the waste data recordings once per month. The Environment Department is then responsible for updating and saving the file '*Calculator IWF .xlsx*' records management in SharePoint.

2.7. Waste Management Procedures

2.7.1. Dry Waste

The word inert indicates that this sort of waste does not readily react with its environment and it can therefore be stored for long periods of time in open air with no or only minimal consequences to the environment. Hence, this waste does not need intensive management.

The correct management of the dry waste includes:

1. Excavation of a suitably large trench.
2. Pushing dry waste dumped in the area into the trench as required (except Tuesday).
3. Before the trench reaches its capacity, excavate a new trench.
4. Once one the trench is full, cover it with fill, then compact it.
5. Contact RMS department in due time to organise rehabilitation of the area.

2.7.2. Wet Waste (Putrescible)

Because wet waste breaks down and harbours bacteria as well as attracting flies and other carriers of disease, it needs to be managed more intensely. Proper management includes burial in order to reduce exposure risk. This management also keeps fly away rubbish to a minimum.

The correct management of the wet tip includes:

1. Excavation of a suitably large trench.
2. Pushing wet waste dumped in the area into the trench and covering with enough soil as required to prevent access by vermin and fly away rubbish.
3. Before the trench reaches its capacity, excavate a new trench.
4. Once one the trench is full, cover it with fill, then compact it.
5. Contact RMS department in due time to organise rehabilitation of the area.

2.7.3. Green Waste and Weeds

Native green waste is managed through mulching or slow decay. It is important that weeds are segregated so that they are not mulched and spread to new, uninvaded gardens.

The correct management of the green tip includes:

1. Push up green waste as required in order to keep the facility tidy.
2. RMS to inspect the facility weekly to ensure no weeds are dumped with other green waste.

The correct management of the concrete weed bays includes:

1. Always keep one bay open
2. Close a bay off once it is full (with rope or chain)
3. Contact RMS who will spray the weeds within the bay with a mixture of 10g **Associate®** and 100ml **Activator®** in 100L of water (or other suitable broad scale herbicide).
4. Let the sprayed weeds dry completely.
5. Conduct a controlled burn within the concrete bay (call the fire department and have them stand by if needed and ensure the fire break between the bays and other material is in good working order before burning and ensure conditions are appropriate for a controlled burn, e.g. burning in the early morning or late afternoon when it is cooler, burn when there is no or minimal wind).
6. Burry the ashes in the wet tip as these may still contain some viable weed seeds.

2.8. Management of the Facility including incidents

2.8.1. Infrastructure

The dirt roads leading from the Highway into the facility as well as the roads within the facility will be maintained by the operator on an as needed basis.

2.8.2. Weeds

Identify weeds within the IWF and in particular around the green tip area, fire breads, and stock piled soil. Contact RMS to organise the spraying of these weeds. Maintain clear fire breaks in order to allow easy access for weed spraying. If in doubt, contact the Environment Department or RMS for weed identification.

2.8.3. Fire Breaks

The IWF operator has to establish and maintain fire breaks around the wet, dry, and green tip at the minimum fire break width of 5 meters.

2.8.4. Tidiness

Fly-away rubbish is to be collected and placed into the wet tip with immediate burial. Move inappropriately dumped items such as illegally dumped rubbish outside the gates during closing hours. If illegal dumping occurs, report it to the Environment Department.

2.8.5. Breaches and Incidents

2.8.5.1. Fire

The occurrence of any fires has to be immediately reported to the **GEMCO NPI department** on **1800 238 849**. If it is an active fire, the **Emergency Services Officers** will also have to be notified on **(08) 8987 4425**. The ESOs will have to cause all fires to be extinguished as soon as practicable. If the fire is smouldering or underground, the **NPI department** has to arrange for the area to be covered with fill in order to extinguish the fire.

Under the Environment Protection Licence (EPL 289), the NPI department is required to keep a log of fires at the location including the following information:

- Time and date of when the fire was reported;
- The circumstance which ignited the fire;
- The time and date of when the fire ceased and whether it burnt out or was extinguished;
- The location of the fire (e.g. timber stockpile, putrescibles etc.);
- Prevailing weather conditions;
- Observations made in regard to smoke direction and dispersion;
- The amount of waste combusted by the fire; and
- Action taken to extinguish the fire

2.8.5.2. Complaints

Any community complaints have to be reported to/ forwarded to the GEMCO Community Department on (08) 8987 4446.

Under the Environment Protection Licence (EPL 289), the community department is required to keep a log of each complaint made in relation to the activity or any persons involved in the activity. This includes logging the following details:

- Date and time of complaint
- Contact details of complainant if known, or where no details are provided a note to that effect
- The nature of the complaint
- The nature of events giving rise to the complaint
- Prevailing weather conditions at the time of the complaint

- The action taken in relation to the complaint, including any follow-up contact with the complainant
- If no action was taken, why no action was taken.

2.8.5.3. Other Breaches

Any incidences including incorrect management of waste and safety hazards have to be reported immediately to the **GEMCO NPI Department** on **08 8987 4369**. The NPI department is responsible to report these incidences into SAP.

If a breach to the licence is reported, the **GEMCO Environment Department** are required to **report this to the NT EPA** as soon as practicable and in any case **within 24-hours**. Reportable breaches include non-compliance to fire restrictions, accepting listed or hazardous wastes other than per licence condition, and incorrect management techniques.

2.9. Plant and equipment requirements

- Light Vehicle for operator transportation
- Water truck for wetting down waste
- Cat Drott and Cat 20 Tonne excavator for pushing in the tip and covering the waste
- 36t excavator to excavate trenches
- Cat Articulated Truck to haul dirt during excavations
- Grader for maintaining dirt roads (very sporadic usage, can be hired within GEMCO)
- Fly fogging machine for wet and dry tip
- Weed spraying equipment
- All vehicles and equipment to have a VHF radio with access to "NPI" channel.

3. Hazardous Waste Management Facility Procedure

3.1. Responsibilities

Position	Accountability
Non Process Infrastructure Department	• Organise for waste within the HWMF to be managed as per Section 3.3. It is recommended that the HWMF be inspected/ managed on a weekly basis. • Co-ordinate with the RMS Department to ensure bins are emptied on a regular basis • Ensure all skip bins within the HWMF are in good working order, and organise replacements when required
Waste producers	• Separate wastes appropriately • Use correct receptacle/area for waste • Do not overfill skip bins • Inform the NPI Department if a receptacle is full or not in good working order (drainage, rusting, labelling issues)
Environment Execution Department	• Conduct regular environmental audits on the HWMF
RMS	• Empty skip bins three times per week and take to the appropriate trench in the IWF
Supply Department	• Transport of waste from the HWMF to the wharf and from the wharf off Eylandt for reuse/recycling/ treatment or disposal

3.2. Proscribed Waste Management Facility Layout

A Proscribed Waste Management Facility (PWMF) is located within the Integrated Waste Facility compound. The facility provides temporary storage for hazardous wastes (as classified by NOHSC Criteria) and Dangerous Goods (as classified under the Australian Dangerous Goods Code of Practice), as well as other waste streams, that are required for reuse, recycling, or disposal off Eylandt. The residents of Alyangula are also able to transfer their hazardous household wastes to the PWMF.

This area is not a Transfer Station for regular waste streams from mine, port, or township operations. All Departments must prepare waste in their own relevant work areas, and arrange and pay for off Eylandt transfer. Exceptions can be made for small amounts of waste that are not used on a regular basis.

Hazardous waste or dangerous goods are not permitted to be disposed of into skip bins, wheelie bins or other bins.

Waste that can be placed at this facility includes:

- expired gas cylinders
- old fire extinguishers
- white goods (fridges, freezers, air cons)
- community tyres
- batteries
- electrical equipment (computers, televisions)
- corrosive substances

Signage is in place at the facility to assist persons with placing their waste in the correct location. These hazardous materials are removed from the facility and sent off Eylandt as required. Maintenance of this area is not part of the general day-to-day requirements of the Integrated Waste Facility operator.



3.3. Waste Oil Facility Layout

The Waste Oil Facility operates in Alyangula. The facility provides temporary storage for oil wastes that are required for disposal off Eylandt. The residents of Alyangula are also able to transfer their household oils and materials to the waste oil facility

Waste that can be placed at this facility includes:

- Cooking oil
- Waste motor oil
- Oily rags
- Oil filters
- Pressure packs/ aerosol cans
- Petrol & Diesel
- Paints, Thinners & Flammables

Signage is in place at the facility to assist persons with placing their waste in the correct location. These hazardous materials are removed from the facility and sent off Eylandt as required



3.4. Waste Management Procedures

GOODS RETURN / CLAIM ADVICE

1 **CONSIGNED TO:**

a

STREET ADDRESS FOR DELIVERY

b

POSTAL ADDRESS

Groote Eylandt Mining Company Pty Ltd
ABN 28 004 618 491

GEMCO

Alyangula, Groote Eylandt
NT Australia 0685
Telephone (08) 8987 4444
Facsimile (08) 8987 4496

Date **c** _____

'R' No. _____

2 **WE ADVISE DESPATCH OF THE FOLLOWING**

QUANTITY	DESCRIPTION / PART NO. / SERIAL NO.

3 **DANGEROUS GOODS INFORMATION** (NOTE: Goods cannot be despatched unless this section is completed)

Is this a dangerous material? YES / NO _____

If yes, nature of material (eg: compressed gas, radioactive, alkali, etc.) _____

Class _____ Correct shipping name _____

UN ID No. _____ Chemwatch No. _____

4 **REASON FOR DESPATCH** (eg: for credit, reconditioning, etc)
AND ANY SPECIAL INSTRUCTIONS/REMARKS

5 **DESPATCH DETAILS**

Air/Sea Freight _____ Carrier _____

Container No. _____ Voyage No. _____

Con Note No. _____ Weight _____ No. of packages _____

6 **CONSIGNOR DETAILS - MUST BE COMPLETED BY REQUESTING DEPARTMENT**

Originator _____ Department _____ Cost Allocation _____ / _____ / _____ / _____ (RESP) (PROCESS) (EXP) (EQUIP) Works Order / Project _____ Dept. Head Authorisation _____	Purch. Req. No. _____ Order No. _____ Stock Code _____ Discrepancy No. _____
--	--

7 **STORES SUPERVISOR** _____ Date _____

WHITE: Posted to Consignee GREEN: Darwin Depot YELLOW: Stores File BLUE: Accounts Payable PINK: Originator

STOCK CODE 328757

3.4.1. Decanting Paint and Thinners

STEP 1	Ensure you check the MSDS' for the items being decanted and ensure that you have the correct PPE and safety controls in place.
STEP 2	Put on cloth styled gloves and then nitrile gloves over the top to prevent any chemical absorption through the hands.
STEP 3	Decant paint into the 1000L DOT and place empty paint cans in the general waste bins for disposal at the dry tip.
STEP 4	If the 1000L DOT becomes full, place lid on DOT and use the forklift to move it outside to an area where it is out of the way of vehicle movements but easily accessible for pick-up.
STEP 5	Fill out the Good Return Advice (GRA) slip: 1 a NTRS 19 Pruen Road Berrimah (08)8947 2721 1 b 'as above' 1 c Current date 2 Quantity followed by '1000L DOT of Paint' 3 Is this a dangerous material? Circle 'Yes' If yes, nature of material: 'Flammable liquid' Class: '3' Correct shipping name: 'Paint' UN ID No.: '1263' Chemwatch No.: leave blank 4 'Waste Paint for disposal' 'Pick up from the hobby shed. DOT marked with a pink cross' 5 Despatch details: circle 'Sea Freight' 6 Originator name Department: 'NPI' Cost Allocation: '510 3605' Works Order/Projects: leave blank Dept. Head Authorisation: NPI Superintendent or alike 7 Lodge at the mine warehouse and ensure the Stores Supervisor signs and dates the GRA. *Send a copy of the GRA to NTRS * *FILL IN NTRS MANIFEST FROM*MSDS SHEETS WILL BE REQUIRED FRO TRAVEL* Send NTRS Manifest and MSDS to dean.caton@ntrs.com.au

GEM - PRO - 3050

Waste Facilities Management Procedure

[illegible]

3.4.2. Strapping, Wrapping and Dispatching Batteries

STEP 1	Put on gloves. Use only Chep or Loscom pallets. Place one layer of batteries on the pallet ensuring there is no overhang. Place a layer of cardboard on top and stack a second layer.
STEP 2	Use the forklift to move the pallet outside to an area where it is out of the way of vehicle movements but easily accessible for pick-up.
STEP 3	Wrap the pallet using pallet wrap and then strap using the pallet strapping and clips. Strap each layer horizontally and then add two vertical straps.
STEP 4	Mark the pallet with an 'X' and place a DG class 8 corrosives sticker on all sides.
STEP 5	Fill out the Good Return Advice (GRA) slip: 1 a Toby Garrick 0477 604 072 1 b 'as above' 1 c Current date 2 Quantity followed by 'Pallet of Batteries' 3 Is this a dangerous material? Circle 'Yes' If yes, nature of material: 'Corrosives' Class: '8' Correct shipping name: 'Batteries, wet filled with acid' UN ID No.: '2794' Chemwatch No.: leave blank 4 'Used Batteries for recycling' 'Pick up from the hobby shed. Wrapped and strapped batteries on pallet marked with a pink cross' 5 Despatch details: circle 'Sea Freight' 6 Originator name Department: 'NPI' Cost Allocation: Order No- is open on a standing order. Contact NPI Supervisor/ Superintendent Works Order/Projects: leave blank Dept. Head Authorisation: NPI Superintendent or alike 7 Lodge at the mine warehouse and ensure the Stores Supervisor signs and dates the GRA.

3.4.3. Fire Extinguishers and Gas Bottles

STEP 1	Contact the stores and request that some (i.e. as many as are required) empty gas cages are taken to the Township Recycling Facility. Gas cages are not always readily available so you may need to give the warehouse ample notice.
STEP 2	Put on gloves and place the expired fire extinguisher/gas bottles into the gas cages and secure using the ratchet straps.
STEP 3	Use the forklift to move the pallet outside to an area where it is out of the way of vehicle movements but easily accessible for pick-up.
STEP 4	Fill out the Good Return Advice (GRA) slip: 1 a NTRS 19 Pruen Road Berrimah NT 0828 (08)8947 2721 1 b 'as above' 1 c Current date 2 Quantity followed by 'Gas cage containing redundant gas bottles' 3 Is this a dangerous material? Circle 'Yes' If yes, nature of material: 'Flammable gas' Class: '2.1' Correct shipping name: 'Petroleum gas, liquefied' UN ID No.: '1075' Chemwatch No.: leave blank 4 'Used gas bottles and/or fire extinguishers for recycling' 'Pick up from the hobby shed.' 5 Despatch details: circle 'Sea Freight' 6 Originator name Department: 'NPI' Cost Allocation: '510 3605' Works Order/Projects: leave blank Dept. Head Authorisation: NPI Superintendent or alike 7 Lodge at the mine warehouse and ensure the Stores Supervisor signs and dates the GRA. *Send a copy of the GRA to NTRS on dean.caton@ntrs.com.au *

3.4.4. Whitegoods/ Electrical equipment

STEP 1	Put on gloves and place electrical equipment/whitegoods in tray of ute or light rigid truck. For heavy white goods utilise multiple person lifts and also consider loading onto a pallet and using the forklift if necessary.
STEP 2	Ensure the electrical equipment/white goods are properly strapped down.
STEP 3	Drive around to NPI maintenance and ask supervisor where they would like the goods be unloaded.
STEP 4	Unload the goods in the designated area. For heavy white goods utilise multiple person lifts and also consider using the forklift if necessary.
STEP 5	NPI maintenance will make contact when they have a full container of whitegoods ready to be dispatched. Fill out the Good Return Advice (GRA) slip: 1 a Sell and Parker Lot 2148 & 2149 McKinnon Rd Berrimah NT 0829 (08) 8932 2773 1 b 'as above' 1 c Current date 2 Quantity followed by 'Container filled with degassed white goods and electrical equipment' 3 Is this a dangerous material? Circle 'No' If yes, nature of material: leave blank Class: leave blank Correct shipping name: leave blank UN ID No.: leave blank Chemwatch No.: leave blank 4 'Light scrap (whitegoods and electrical items) for recycling' 'Container to be picked up from *current location*' 5 Despatch details: circle 'Sea Freight' 6 Originator name Department: 'NPI' Cost Allocation: '510 3605' Works Order/Projects: leave blank Dept. Head Authorisation: NPI Superintendent or alike 7 Lodge at the mine warehouse and ensure the Stores Supervisor signs and dates the GRA.

3.4.5. Cooking Oil

STEP 1	Once the 1000 L DOT that is in place for cooking oil becomes full, place lid and move to an area where it is out of the way of vehicle movements but easily accessible for pick-up.
STEP 2	Mark the DOT with an 'X'.
STEP 3	Fill out the Good Return Advice (GRA) slip: 1 a NTRS 19 Pruen Road Berrimah NT 0828 (08)8947 2721 1 b 'Niall Paradies will collect from TOLL Marine yard in Darwin' 1 c Current date 2 Quantity followed by '1000L DOT of Cooking oil' or 'pallet containing cooking oil drums' 3 Is this a dangerous material? Circle 'No' If yes, nature of material: leave blank Class: leave blank Correct shipping name: leave blank UN ID No.: leave blank Chemwatch No.: leave blank 4 'Used cooking oil for recycling' 'Pick up from the hobby shed. DOT/ pallet marked with a pink cross' 5 Despatch details: circle 'Sea Freight' 6 Originator name Department: 'NPI' Cost Allocation: '510 3605' Works Order/Projects: leave blank Dept. Head Authorisation: NPI Superintendent or alike 7 Lodge at the mine warehouse and ensure the Stores Supervisor signs and dates the GRA. *Extra step* - Send Niall Paradies and email to mail@switchedonelectrical.net to inform him of incoming oil

3.4.6. Aerosols

STEP 1	Once there are enough aerosols to warrant transport off Eylandt, place them in a suitable container (e.g. 1000 L DOT with lid cut off).		
STEP 2	Create a lid using pallet wrap and mark the DOT with an 'X'.		
STEP 3	Fill out the Good Return Advice (GRA) slip: 1 a NTRS 19 Pruen Road Berrimah (08)8947 2721 1 b 'as above' 1 c Current date 2 Quantity followed by '1000L DOT containing aerosol cans' 3 Is this a dangerous material? Circle 'Yes' If yes, nature of material: 'Flammable gas' Class: '2.1' Correct shipping name: 'Petroleum gas, liquefied' UN ID No.: '1075' Chemwatch No.: leave blank 4 'Used aerosol cans for disposal' 'Pick up from the hobby shed. DOT marked with a pink cross' 5 Despatch details: circle 'Sea Freight' 6 Originator name Department: 'NPI' Cost Allocation: '510 3605' Works Order/Projects: leave blank Dept. Head Authorisation: NPI Superintendent or alike 7 Lodge at the mine warehouse and ensure the Stores Supervisor signs and dates the GRA. *Send a copy of the GRA to NTRS on dean.caton@ntrs.com.au *		

3.4.7. Waste Engine Oil

STEP 1	Waste oil is place at the Township Waste Oil Facility from time to time in 1000 L DOTs and 205 L drums. These DOT's & Drums need to be transferred into the 3000-litre travel tanks and sent off Eylandt.
STEP 2	205 L drums need to be transferred into travel approved tanks..
STEP 3	Use the forklift to move the DOT or pallet to an area where it is out of the way of vehicle movements but easily accessible for pick-up.
STEP 4	Mark the DOT or pallet with an 'X'.
STEP 5	Fill out the Good Return Advice (GRA) slip: 1 a NTRS 19 Pruen Road Berrimah (08)8947 2721 1 b 'as above' 1 c Current date 2 Quantity followed by '1000L DOT of waste engine oil' or '205L drums strapped on pallet' 3 Is this a dangerous material? Circle 'No' If yes, nature of material: leave blank Class: leave blank Correct shipping name: leave blank UN ID No.: leave blank Chemwatch No.: leave blank 4 'Waste engine oil for disposal' 'Pick up from the hobby shed. DOT (or 205L drums on pallet) marked with a pink cross' 5 Despatch details: circle 'Sea Freight' 6 Originator name Department: 'NPI' Cost Allocation: '510 3605' Works Order/Projects: leave blank Dept. Head Authorisation: NPI Superintendent or alike 7 Lodge at the mine warehouse and ensure the Stores Supervisor signs and dates the GRA. *Send a copy of the GRA to NTRS on dean.caton@ntrs.com.au *

3.4.8. Oily Rags/ Spill kit material/ or oil filters

STEP 1	Once the 1000 L DOT that is in place for oil rags becomes full, place lid or wrap opening and move to an area where it is out of the way of vehicle movements but easily accessible for pick-up.		
STEP 2	Mark the DOT with an 'X'.		
STEP 3	Fill out the Good Return Advice (GRA) slip:		
	1 a NTRS 19 Pruen Road Berrimah (08)8947 2721	NT	0828
	1 b 'as above'		
	1 c Current date		
	2 Quantity followed by '1000L DOT of oily rags/ spill kit material'		
	3 Is this a dangerous material? Circle 'No' If yes, nature of material: leave blank Class: leave blank Correct shipping name: leave blank UN ID No.: leave blank Chemwatch No.: leave blank		
	4 'Oily rags/ spill kit material for disposal' 'Pick up from the hobby shed. DOT marked with a pink cross'		
	5 Despatch details: circle 'Sea Freight'		
	6 Originator name Department: 'NPI' Cost Allocation: '510 3605' Works Order/Projects: leave blank Dept. Head Authorisation: NPI Superintendent or alike		
	7 Lodge at the mine warehouse and ensure the Stores Supervisor signs and dates the GRA. *Send a copy of the GRA to NTRS on dean.caton@ntrs.com.au *		

3.4.9. Fluorescent Tubes

STEP 1	Every now and then full boxes containing fluorescent tubes are placed at the hobby shed. If that occurs, immediately place them somewhere safe, where they will not get wet.		
STEP 2	Inspect boxes for integrity and tape close. Mark the boxes with an 'X'.		
STEP 3	Fill out the Good Return Advice (GRA) slip: 1 a NTRS 19 Pruen Road Berrimah NT 0828 (08)8947 2721 1 b 'as above' 1 c Current date 2 Quantity followed by 'Boxes of redundant fluoro tubes' 3 Is this a dangerous material? Circle 'No' If yes, nature of material: leave blank Class: leave blank Correct shipping name: leave blank UN ID No.: leave blank Chemwatch No.: leave blank 4 'Redundant fluoro tubes for recycling' 'Pick up from the hobby shed. Boxes marked with a pink cross' 5 Despatch details: circle 'Sea Freight' 6 Originator name Department: 'NPI' Cost Allocation: '510 3605' Works Order/Projects: leave blank Dept. Head Authorisation: NPI Superintendent or alike 7 Lodge at the mine warehouse and ensure the Stores Supervisor signs and dates the GRA. *Send a copy of the GRA to NTRS on dean.caton@ntrs.com.au *		

3.4.10. Printer/Toner Cartridges

STEP 1	Printer and Toner Cartridges are used in all offices around the mine site, port, and township. In all major offices there are cardboard boxes for cartridge recycling.
STEP 2	Every two months, drive around to all office locations and assess if the cardboard cartridge recycling boxes are full.
STEP 3	Empty any full boxes, ensuring that only cartridges are in the bag and not paper or cardboard general waste. Take out the full bag, cable tie it close and take it to the post office for shipment off Eylandt. No GRA is required for this.
STEP 4	If new cardboard boxes or black recycle bags are required, call: ‘Close The Loop’ on 1800 24 24 73 Quote GEMCOs account number: 138920 The recycle bags are extremely tough and pre labelled with postage paid stickers to the recycling facility in Victoria.

3.4.11. Tyres

Currently there is no coherent management plan for miscellaneous community tyres. Tyres and rubber waste is classified as *Listed Waste* and is therefore important to be managed correctly. Currently mine site tyres are collected at the old tyre bay at the mine and periodically buried.

For community tyres:

1. There is a drop off point at the IWF, tyres are to be taken to the old tyre pit (Mine) on a monthly basis or as required.

3.4.12. Specialty Wastes

STEP 1	In the northern most front cage of the hobby shed, miscellaneous materials are dumped. Waste producers are responsible for the correct labelling and container integrity of any materials placed, however this sometimes gets ignored. Audit all materials once per week by writing down label information. Once back in the office, search for the materials in ChemAlert and print out MSDSs.
STEP 2	Segregate the materials on ground of dangerous goods classification. Consolidate the same materials if possible.
STEP 3	Once a particular hazardous material has accumulated, contact NTRS representative Dean Caton on 0438 011 034 or 08 8947 2721 or Dean.Caton@ntrs.com.au detailing the hazardous material, MSDS, quantity, etc. you would like to dispose of. He will confirm that they can take that material and provide you with a quote.
STEP 4	Depending on the hazardous material nature, special packaging might be required. Once packaged appropriately, mark the container with an 'X'.
STEP 5	Fill out the Good Return Advice (GRA) slip: 1 a NTRS 19 Pruen Road Berrimah (08)8947 2721 NT 0828 1 b 'as above' 1 c Current date 2 Quantity followed by description 3 Is this a dangerous material? Depends on the specialty waste. If yes, nature of material: 'depends' Class: 'depends' Correct shipping name: 'depends' UN ID No.: 'depends' Chemwatch No.: leave blank 4 'Specialty waste for disposal' 'Pick up from the hobby shed. Packaging marked with a pink cross' 5 Despatch details: circle 'Sea Freight' 6 Originator name Department: 'NPI' Cost Allocation: '510 3605' Works Order/Projects: leave blank Dept. Head Authorisation: NPI Superintendent or alike 7 Lodge at the mine warehouse and ensure the Stores Supervisor signs and dates the GRA. *Send a copy of the GRA to NTRS on dean.caton@ntrs.com.au *

4. Risk Management Controls

It is the Operator's responsibility to identify any possible risks associated with the work and to respond to it correctly.

The Risk Assessment methodology used to identify the potential environmental impacts is based on South 32 MNA – STA – 3105 Risk Management Standard.

A major area of concern for GEMCO is the threat of hydrocarbon contamination of land and aquatic ecosystems, both marine and fresh water. Further, the risks of hazardous materials are a concern which indicates the importance of proper waste management.

4.1. Heavy Machinery Operations

4.1.1. Plant utilisation of public roads

The operator is to implement controls to minimise heavy vehicle interaction with the general public. When heavy vehicles are to travel on the public road around the Integrated Waste Facility the following steps are to be taken prior to any heavy machinery using these roads.

1. Light vehicle to complete a drive through inspection of the facility and clear any occupants from the facility.
2. Once the area is cleared the Integrated Waste Facility gates are to be closed with an operator to standby the gates.
3. The operator is to hold all traffic from entering the facility until the heavy vehicle is within a bunded or gated off area.
4. Once the heavy vehicle has parked or reached a safe working area the Integrated Waste Facility gates can be reopened and resume normal operations.
5. VHF radio channel "NPI" must be utilised when conducting plant operations.

4.1.2. General Plant operations around tip face

When pushing in at the tip face the following process is to be followed, to allow safe interaction between machines and personnel.

1. Operator is to section off the tip face in which the work will be taken place. Traffic Cones or bollards can be used to barricade off the work area.
2. Call up signs to be placed for communication with the plant operator, if personnel wish to enter the area
3. It is assumed that public cars do not have radios installed. If public users wish to access the tip face the operator is to park the machine and ground the bucket of the machine to allow the public users access to the area. The operator can continue operations when the users have left the area.
4. If personnel access the work area having positive communications with the operator, the operator is to immediately park the machine and ground the bucket as soon as they have identified the user.
5. VHF radio channel "NPI" must be utilised when conducting plant operations.

5. References

- STA-3316 Waste Management Standard
- MNA – STA – 3105 Risk Management Standard
- South 32 Standard – Environment
- South 32 Risk Management Framework
- South 32 Standard - Health, Safety, Environment and Community Reporting
- South 32 Sustainability Policy
- Northern Territory Waste Management and Pollution Control Act 2016
- Northern Territory Waste Management and Pollution (Administration) Regulations 2014
- Northern Territory Environment Protection Authority (NTEPA) Guidelines For the Siting, Design and Management of Solid Waste Disposal Sites In the Northern Territory
- Australian Dangerous Goods Code
- Northern Territory Dangerous Goods Act (2012)
- Northern Territory Dangerous Goods Regulations (2015)
- Australian Government Dept. of Environment Policies and governance for waste.
- NOHSC1005 (1994) National Model Regulations for the Control of Workplace Hazardous Substances
- NOHSC1008 (2004) Approved Criteria for Classifying Hazardous Substances 3rd edition

Appendix 1. EPL289



ENVIRONMENT PROTECTION LICENCE

(Pursuant to section 34 of the *Waste Management and Pollution Control Act*)

Licensor	GEMCO Mining Pty. Ltd.
Licence Number	EPL289
Registered Business Address	GEMCO Mining Pty. Ltd. Rowell Highway Highway Alyangula NT 0885
ABN	26 004 618 491
Premises Address	N.T. Portion 01671 plan(s) A 000709 ANINDILYAKWA
Anniversary Date:	01 July
Commencement Date:	01/07/2019
Expiry Date:	30/06/2024
Scheduled Activity	Operating premises for the disposal of waste by burial that service, or are designed to service, the waste disposal requirements of more than 1000 persons. Collecting, transporting, storing, re-cycling, treating or disposing of a listed waste (as per Table 1) on a commercial or fee for service basis, other than in or for the purpose of a sewage treatment plant.
Description	The Integrated Waste Facility (IWF) services the Alyangula and Angurugu communities. For the purposes of the listed waste specified in Table 1, the handling of 'acidic solutions or acids in solid form' and 'lead, lead compounds' is authorised in the form used lead-acid batteries (ULAB). The IWF is authorised to store listed waste ULAB and tyres. ULABs are transferred by an authorised transporter to authorised facilities for recycling.

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Sewage sludge from the Alynagula Wastewater Treatment Plant, and residues including nightsoil and septic tank sludge, and grease trap waste are disposed of by burial at the IWF.

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Table 1 - Listed Wastes Authorised to be Handled

Listed Waste	Collection	Transport	Storage	Treatment	Recycling	Disposal
Acidic solutions or acids in solid form	✗	✗	✓	✗	✗	✗
Grease trap waste	✗	✗	✗	✗	✗	✓
Lead, lead compounds	✗	✗	✓	✗	✗	✗
Sewage sludge and residues including nightsoil and septic tank sludge	✗	✗	✗	✗	✗	✓
Tyres	✗	✗	✓	✗	✗	✗

✓ Activity authorised by this licence

✗ Activity not authorised by this licence

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ATTACHMENTS

- 1 APPENDIX 1 - Integrated Waste Facility and Layout
- 2 APPENDIX 2 - Groundwater Monitoring Programme

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INFORMATION ABOUT THIS LICENCE

- This licence does not in any way relieve the licence holder from its obligations to comply with the *Waste Management and Pollution Control Act* (WMPC Act), including the general environmental duty in section 12 of the WMPC Act and the duty to notify of incidents causing or threatening to cause pollution under section 14 of the WMPC Act.

Duration of a licence (section 40, 43 and 45 of the WMPC Act)

- A licence will remain in force until its expiry date or until it is surrendered by the licensee or is suspended or cancelled in accordance with the WMPC Act.
- The licensee must notify the Northern Territory Environment Protection Authority (NT EPA) within 14 days after ceasing to conduct the activity.
- The licensee may, with the approval of the NT EPA, surrender the licence to the NT EPA.

Amendment or Revocation of a licence (section 37 of the WMPC Act)

- The licensee may apply to amend or revoke a condition of this licence.
- A fee applies and the application must be made using the designated form via NT EPA Online.
- The NT EPA may also amend or revoke a condition of this licence as set out in section 38 of the WMPC Act.

Transfer of a licence (section 46 of the WMPC Act)

- The licensee can apply to transfer their licence to another person.

Renewal of a licence (section 40 of the WMPC Act and section 3 of the Regulations)

- The licensee may apply for the renewal of their licence not earlier than 90 days, and not later than 30 days, before their licence expires.
- A fee applies and the application must be made via NT EPA Online.

Public Register

- A copy of environment protection licences and any plans for environmental management, reports, submissions or documents required as a condition of an environment protection licence, will be placed on a register in accordance with section 9 of the WMPC Act.
- A copy of the Annual Return will be placed on the register.
- The NT EPA makes this register freely available from the NT EPA website.

Environment Protection Objectives (Part 4 of the WMPC Act), and Water Quality Standards (section 73 of the *Water Act*)

- An Environment Protection Objective (EPO) is a statutory instrument to establish principles on which:
 - a. environmental quality is to be maintained, enhanced, managed or protected;
 - b. pollution, or environmental harm resulting from pollution, is to be assessed, prevented, reduced, controlled, rectified or cleaned up; and
 - c. effective waste management is to be implemented or evaluated.
- In accordance with section 18 of the WMPC Act a beneficial use, quality standard, criteria or objective declared under section 73 of the *Water Act* and in force is an environment protection objective for the purposes of the WMPC Act.

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- The following EPOs and Beneficial Use Declarations (BUDs) are relevant to this licence. The marine waters to the West of Groote Eylandt have the following beneficial use declaration(s):
 - Aquatic ecosystem protection and recreational water quality and aesthetics (Northern Territory Government Gazettes No G9, 11 March 1998, No G11, 25 March 1998 and No. G20, 27 May 1998).

Environmental Interests

- This section highlights sensitivity of the surrounding land use and environment associated with the location of the approved activity.
- Sites of Conservation Significance
- Ramsar Wetland

Cultural Interests

- It is the licensee's responsibility to contact the Aboriginal Areas Protection Authority, appropriate land council or other governing body and ensure that any Authority Certificates required as a result of conducting the licenced activity are obtained and complied with.

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RULES FOR INTERPRETING THE CONDITIONS OF THIS LICENCE

- Where there is a discrepancy between the conditions of this licence and any plan, standard, guideline or other document referred to in this licence, the conditions of this licence prevail to the extent of the inconsistency.
- Any reference to any standard (Australian or international) in this licence means the relevant parts of the current version of that standard.
- A reference to any guideline or code of practice (or to the relevant parts of any guideline or code of practice) in this licence means the current version of the guideline or code of practice.
- Under section 39 of the WMPC Act, any contravention of or failure to comply with this licence by the licensee may be an offence.
- In determining whether the licensee has committed an offence, the licensee may be liable for the conduct of its directors, employees or agents.
- The licensee should ensure that each of its directors, employees, contractors or agents are aware of, and comply with, this licence.
- In this licence, unless the contrary intention appears, words that are defined in the WMPC Act are intended to have the meaning given to them in that Act.

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LICENCE CONDITIONS

GENERAL

- 1 The licensee must ensure the contact details recorded in NT EPA Online for this licence are correct at all times.
- 2 The licensee must at all times have a 24 hour emergency contact.
- 3 The licensee must pay the annual fee calculated in accordance with the method prescribed in the Regulations within 50 business days of the anniversary of the commencement date of this licence, for each year or part of a year that this licence is in force.
- 4 The licensee must cause clear and legible signage, in English, to be displayed in a prominent location at each public entrance to the premises that includes the following details:
 - 4.1 environment protection licence number issued under the WMPC Act; and
 - 4.2 24 hour emergency contact details.
- 5 The licensee must provide to the NT EPA, within 10 business days of a request, a copy of any document, monitoring data or other information in relation to the activity, in the format requested by the NT EPA.
- 6 All notices, reports, documents or other correspondence required to be provided as a condition of this licence, unless otherwise specified as a condition of this licence, must be provided in electronic form by uploading the document via NT EPA Online (or by emailing waste@nt.gov.au).
- 7 **Table 2. Documents Relevant to the Licensed Activity**

Document ID	Document Title
GEM-PRO-3050	Waste Facilities Management Procedure

- 8 The NT EPA may require the licensee to revise or amend and resubmit any amended document. Where the NT EPA requires a document to be resubmitted, the licensee must submit it to the NT EPA by the date specified by the NT EPA.
- 9 The licensee must, for the duration of this licence, implement, maintain and follow a Consultation and Communication Plan which includes a strategy for communicating with persons who are likely to have a real interest in, or be affected by, the activity.
- 10 The licensee must maintain a Complaint Log for all complaints received by the licensee in relation to the activity.
- 11 The licensee must ensure that the Complaint Log includes, for each complaint received by the licensee, the following information:
 - 11.1 the person to whom the complaint was made;
 - 11.2 the person responsible for managing the complaint;
 - 11.3 the date and time the complaint was reported;
 - 11.4 the date and time of the event(s) that led to the complaint;
 - 11.5 the contact details of the complainant if known, or where no details are provided a note to that effect;

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- 11.6 the nature of the complaint;
 - 11.7 the nature of event(s) giving rise to the complaint;
 - 11.8 prevailing weather conditions at the time (where relevant to the complaint)
 - 11.9 the action taken in relation to the complaint, including any follow-up contact with the complainant;
and
 - 11.10 if no action was taken, why no action was taken.
- 12 The licensee must implement, maintain and follow an Emergency Response Plan that addresses procedures for responding to emergencies associated with the activity that may cause environmental harm.

EARLY SURRENDER OF LICENCE

- 13 Any reports, records or other information required or able to be provided by the licensee under this licence must be submitted to the NT EPA prior to the licensee surrendering the licence. If the date on which a report, record or other information is required falls after the date the licensee requests to surrender this licence, the licensee must provide the report, record or information as far as possible using data available to the licensee up to and including the date the request to surrender the licence is made.

OPERATIONAL

- 14 The licensee must not store, treat or dispose of listed waste other than:
- 14.1 sewage sludge from Alyangula Waste Water Treatment Plant; and
 - 14.2 the listed waste specified in Table 1.
- 15 The licensee must ensure any plant and equipment used by the licensee in conducting the activity:
- 15.1 is reasonably fit for the purpose and use to which it is put;
 - 15.2 is maintained;
 - 15.3 is operated by a person trained to use the plant and equipment; and
 - 15.4 is operated by, or operated by a person accompanied by, a person trained to handle, store or dispose of listed waste in connection with the activity.
- 16 The licensee must segregate waste received at the premises in clearly designated areas for recycling, re-use or disposal.
- 17 The licensee must segregate waste generated at the premises in clearly designated areas for recycling, re-use or disposal.
- 18 The licensee must ensure that only the following wastes are disposed of by burial at the premises:
- 18.1 putrescible waste;
 - 18.2 solid inert waste; and
 - 18.3 listed waste as specified for disposal in Table 1.
- 19 The licensee must ensure that litter:
- 19.1 is contained within the boundary of the premises;

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- 19.2 is not deposited or allowed to accumulate in stormwater drain(s), water or leachate dam(s); and
- 19.3 does not accumulate along the boundary of the premises.
- 20 The licensee must not cause or permit waste to be burned.
- 21 The Licensee must cause all fires to be extinguished as soon as practicable.
- 22 The licensee must maintain and supply to the NT EPA if requested, a log of fires occurring at the premises including the following information:
 - 22.1 the time and date of when the fire was reported;
 - 22.2 the circumstance which ignited the fire;
 - 22.3 the time and date of when the fire ceased and whether it burnt out or was extinguished;
 - 22.4 the location of the fire on the premises (e.g. timber stockpile, putrescible waste);
 - 22.5 prevailing weather conditions;
 - 22.6 observations made in regard to smoke direction and dispersion;
 - 22.7 the amount of waste combusted by the fire; and
 - 22.8 action taken to extinguish the fire.
- 23 The licensee must cover waste in accordance with the GEMCO Waste Facilities Management Procedure (GEM-PRO-3050).
- 24 The licensee must ensure that all leachate is managed in accordance with the NT EPA Guidelines for the Siting, Design and Management of Solid Waste Disposal Sites in the Northern Territory.
- 25 The licensee must ensure that neither leachate nor water pond on the surface of the landfill.
- 26 The licensee must implement, maintain and follow a Rehabilitation Plan.
- 27 Where a landfill cell is no longer in use, the licensee must ensure that the landfill cell is closed and capped so as to achieve the landfill cap design objectives in the NT EPA Guidelines for the Siting, Design and Management of Solid Waste Disposal Sites in the Northern Territory.
- 28 The licensee must:
 - 28.1 prepare a Landfill Closure and Post Closure Plan in accordance with the NT EPA Guidelines for the Siting, Design and Management of Solid Waste Disposal Sites in the Northern Territory;
 - 28.2 ensure the Plan is reviewed by a qualified person and they prepare a written report of their review, prior to submission of the Plan to the NT EPA; and
 - 28.3 submit the Plan to the NT EPA, with a copy of the qualified person's review, at least 12 months prior to the forecast closure of the landfill.
- 29 The NT EPA may require the licensee to revise or amend and resubmit any Landfill Closure and Post Closure Plan. Where the NT EPA requires a Plan to be resubmitted, the licensee must submit it to the NT EPA by the date specified by the NT EPA.
- 30 The licensee must implement, maintain and follow the Landfill Closure and Post Closure Plan.
- 31 The licensee must ensure that all materials that are likely to cause environmental harm are handled and stored in areas with a containment system in accordance with the relevant Australian Standard. Where

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no relevant Australian Standard exists, the containment system must be sized to contain 110% of the volume of the largest container within the area.

DISCHARGES AND EMISSIONS

- 32 The licensee must ensure there is no migration or overflow of a contaminant or waste, which causes or may cause environmental harm, beyond the boundary of the land on which the premises are located. (For the avoidance of doubt, this condition is not intended to authorise the discharge of a contaminant or waste to any land or water which discharge has not been specifically authorised by another condition of this licence.)
- 33 The licensee must not allow a contaminant or waste, which causes or may cause environmental harm, to enter water.
- 34 The licensee must ensure that stormwater does not come into contact with a contaminant or waste, which causes or may cause environmental harm.

MONITORING

- 35 The licensee must conduct groundwater monitoring in accordance with Appendix 2 - Groundwater Monitoring Programme (the Monitoring Plan).
- 36 The licensee must ensure that all samples and field environmental data are representative of the conditions at the time of sampling.
- 37 The licensee must ensure that all samples and field environmental data are collected in accordance with recognised Australian Standards and guidelines (such as AS/NZS 5667, ANZECC/ARMCANZ)
- 38 The licensee must ensure that all monitoring samples are analysed at a laboratory with current NATA accreditation or equivalent, for the parameters to be measured.
- 39 The licensee must ensure any samples collected in accordance with the Monitoring Plan or in connection with the activity or this licence, are obtained by, or under the supervision of a qualified sampler.
- 40 The licensee must ensure that, for each sample collected in accordance with the Monitoring Plan or the activity the following information must be recorded and retained:
 - 40.1 the date on which the sample was collected;
 - 40.2 the time at which the sample was collected;
 - 40.3 the location at which the sample was collected;
 - 40.4 the name of the person who collected the sample;
 - 40.5 the chain of custody forms relating to the sample;
 - 40.6 the field measurements (if any) and analytical results (if any) relating to the sample; and
 - 40.7 laboratory quality assurance and quality control documentation.

RECORDING AND REPORTING

- 41 The licensee must maintain records of the nature, quantities and source of waste, other than listed waste, received at the premises in each successive 12 month period following the commencement date of this licence.

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- 42 The licensee must keep and maintain records relating to the activity undertaken and the listed waste handled by the licensee in each successive 12 month period following the commencement of this licence, which include:
- 42.1 the date of collection;
 - 42.2 the source of the listed waste;
 - 42.3 the name of the transport company, if not the licensee;
 - 42.4 the vehicle registration;
 - 42.5 a description of the listed waste;
 - 42.6 the quantity of the listed waste;
 - 42.7 the final destination of the listed waste; and
 - 42.8 whether the listed waste was stored, recycled, treated or disposed of.
- 43 The licensee must retain records relating to waste, including listed waste, as required by the conditions of this licence, for a period of 2 years after the end of the 12 month period to which the record relates.
- 44 The licensee must keep records of all non-compliances with this licence. These records must be adequate to enable the licensee to comply with the non-compliance notification conditions of this licence.
- 45 The licensee must notify the NT EPA of any non-compliance with this licence by completing the Non-Compliance Notification via NT EPA Online (or by emailing waste@nt.gov.au), as soon as practicable after (and in any case within 24 hours after) first becoming aware of the non-compliance.
- 46 The licensee must include in the notification of non-compliance the following information:
- 46.1 when the non-compliance was detected and by whom;
 - 46.2 the date and time of the non-compliance;
 - 46.3 the actual and potential causes and contributing factors to the non-compliance;
 - 46.4 the risk of environmental harm arising from the non-compliance;
 - 46.5 the action(s) that have or will be undertaken to mitigate any environmental harm arising from the non-compliance;
 - 46.6 corrective actions that have or will be undertaken to ensure the non-compliance does not reoccur; and
 - 46.7 if no action was taken, why no action was taken.
 - 46.8 a date when an incident investigation report will be submitted to the NT EPA.
- 47 The licensee must submit a completed Annual Return via NT EPA Online within 10 business days after each anniversary date of this licence, which report relates to the preceding 12 month period.
- 48 The licensee must complete and provide to the NT EPA a Monitoring Report, as prescribed by this licence, within 10 business days after each anniversary date of this licence.
- 49 The licensee must ensure that each Monitoring Report:
- 49.1 is prepared in accordance with the requirements of the NT EPA 'Guideline for Reporting on Environmental Monitoring';
 - 49.2 includes a tabulation of all monitoring data required as a condition of this licence;

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- 49.3 includes long term trend analysis of monitoring data to demonstrate any environmental impact associated with the activity over a minimum period of three years (where the data is available); and
 - 49.4 includes an assessment of environmental impact from the activity.
- 50 The NT EPA may require the licensee to revise or amend and resubmit any Monitoring Report. Where the NT EPA requires the Monitoring Report to be resubmitted, the licensee must submit it to the NT EPA by the date specified by the NT EPA.

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END OF LICENCE CONDITIONS

This licence is not valid unless signed below:



Leonie Cooper
Director Environment Authorisations
Delegate of the Northern Territory
Environment Protection Authority
Dated: 05/03/2020

END NOTES

This licence is a renewal and replaces EPL08-05 which was issued on 13 October 2016

EPL08-05 was an amendment and superseded EPL08-04 which was issued on 07 July 2014

EPL08-04 was an amendment and superseded EPL08-03 which was issued on 14 October 2013

EPL08-03 was a renewal and superseded EPL08-02 which was issued on 15 September 2008

The End Notes are to assist with historical records.

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DEFINITIONS

All terms in the Licence which are defined in the *Waste Management and Pollution Control Act* have the meaning given in that Act unless otherwise or further defined in this section.

DEFINITION	In this licence, unless a contrary intention appears:
24 hour emergency contact	the phone number of a person who can be contacted at any time and be capable of responding to and providing information about any incident associated with the activity.
Activity	the Scheduled activity as described on the covering page of this licence.
Air	includes any layer of the atmosphere.
Annual fee	yearly fee payable in respect of the activity as specified in the WMPC Act and the Regulations.
Annual Return	an NT EPA prescribed format for demonstrating and reporting compliance with the conditions of this licence and providing information on waste volumes for the preceding 12 month period.
ANZECC/ARMCANZ	Australian and New Zealand Environment and Conservation Council and Agriculture and Resource Management Council of Australia and New Zealand, 2000: National Water Quality Management Strategy: Australian Guidelines for Water Quality Monitoring and Reporting.
Business days	a day not Saturday, Sunday or a public holiday, in the Northern Territory.
Complaint Log	a register of complaints to be maintained by the Licensee that records the details of each complaint received in relation to the activity.
Consultation and Communication Plan	a written plan documenting proposed consultation and communications for the activity before, during and after the activity which includes a strategy for communicating with members of the public who are likely to have a real interest in, or be affected by, the activity.
Contact details	includes the 24 hour emergency contact, and name, position title and phone number of a representative of the licensee who can be contacted about the licence and activity.
Contaminant	a solid, liquid or gas or any combination of such substances and includes: (a) noise, odour, heat and electromagnetic radiation; (b) a prescribed substance or prescribed class of substances; and (c) a substance having a prescribed property or prescribed class of properties.
Discharges	allow a liquid, gas or other substance to flow out from where it has been confined.
Emergency Response Plan	a written plan documenting the licensee's procedures for responding to emergencies caused by, resulting from or associated with the activity and that may cause environmental harm.
Environmental audit	has the meaning given in section 47 of the WMPC Act.
Environmental harm	(a) any harm to or adverse effect on the environment; or (b) any potential harm (including the risk of harm and future harm) to or potential adverse effect on the environment, of any degree or duration and includes environmental nuisance.

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Environmental nuisance	means: (a) an adverse effect on the amenity of an area that: (i) is caused by noise, smoke, dust, fumes or odour; and (ii) unreasonably interferes with or is likely to unreasonably interfere with the enjoyment of the area by persons who occupy a place within the area or are otherwise lawfully in the area; or (b) an unsightly or offensive condition caused by contaminants or waste.
Incident	includes: (a) an accident, emergency or malfunction; and (b) a deliberate action, whether or not that action was taken by the person conducting the activity in the course of which the incident occurred.
Land	includes water and air on, above or under land.
Landfill cell	a purpose built area for the disposal of waste within a landfill.
Landfill Closure and Post Closure Plan	a written plan which specifies the landfill closure and post-closure activities as set out in the NT EPA Guidelines for the Siting, Design and Management of Solid Waste Disposal Sites in the Northern Territory.
Leachate	any liquid produced by the action of water percolating through waste, and that contains contaminants.
Listed waste	a waste included under Schedule 2 of the Regulations.
Litter	litter, garbage, rubbish, refuse or waste matter, and includes the body of a dead animal.
Maintain	kept in a manner that it does not present or cause a risk of environmental harm or a hazard to persons or property or, for the purposes of documents including plans, a process of reviewing and amending documentation to ensure it is relevant.
Material environmental harm	environmental harm that: (a) is not trivial or negligible in nature; (b) consists of an environmental nuisance of a high impact or on a wide scale; (c) results, or is likely to result, in not more than \$50,000 or the prescribed amount (whichever is greater) being spent in taking appropriate action to prevent or minimise the environmental harm or rehabilitate the environment; or (d) results in actual or potential loss or damage to the value of not more than \$50,000 or the prescribed amount (whichever is greater).
NATA	National Association of Testing Authorities, Australia.
Non-compliance	failure or refusal to comply, whether by act or omission, with obligations or requirements and includes any exceedance of a licence limit.
Non-compliance notification	an NT EPA prescribed format for notifying the NT EPA of a non-compliance.
NT EPA Online	online system for Environment Protection Licence (EPL), Environment Protection Approval (EPA) and Waste Discharge Licence (WDL) lodgement and maintenance.
NT EPA Online Vehicle Register	the vehicle register found at NT EPA Online.
Plant and equipment	all material items used in association with the activity, including (but not limited to) storage vessels and containers, pipe work and hosing, vehicles (including vessels), tools, and measuring equipment.

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Point source discharge	means any discernible, confined or discrete conveyance from which contaminants or waste are or may be discharged.
Pollute	(a) emit, discharge, deposit, or disturb, directly or indirectly, a contaminant or waste; or (b) cause, permit, or fail to prevent, directly or indirectly, the emission, discharge, deposition, disturbance or escape of a contaminant or waste.
Pollution	(a) a contaminant or waste that is emitted, discharged, deposited or disturbed or that escapes; or (b) a contaminant or waste, effect or phenomenon, that is present in the environment as a consequence of an emission, discharge, deposition, escape or disturbance or a contaminant or waste.
Premises	the premises identified in this licence which includes equipment, plant and structures, whether stationary or portable, and the land on which premises are situated.
Public entrance	access to the premises that is utilised by the public.
Putrescible waste	the component of the waste stream liable to become putrid. For example, organic matter that has the potential to decompose with the formation of malodorous substances, usually refers to vegetative, food and animal products.
Qualified person	a person registered under Section 68 of the WMPC Act.
Qualified sampler	a person who has training and experience in obtaining samples from the relevant environmental medium.
Regulations	<i>Waste Management and Pollution Control (Administration) Regulations.</i>
Rehabilitation Plan	a written plan to ensure that the objectives of rehabilitation are achieved as set out in the NT EPA Guidelines for the Siting, Design and Management of Solid Waste Disposal Sites in the Northern Territory.
Serious environmental harm	environmental harm that is more serious than material environmental harm and includes environmental harm that: (a) is irreversible or otherwise of a high impact or on a wide scale; (b) damages an aspect of the environment that is of a high conservation value, high cultural value or high community value or is of special significance; (c) results or is likely to result in more than \$50,000 or the prescribed amount (whichever is greater) being spent in taking appropriate action to prevent or minimise the environmental harm or rehabilitate the environment; or (d) results in actual or potential loss or damage to the value of more than \$50,000 or the prescribed amount (whichever is greater).
Solid inert waste	solid waste that has no active chemical or biological properties. These wastes do not undergo environmentally significant physical, chemical or biological transformation.
Stormwater	water flowing over ground surfaces, in natural streams and drains as a direct result of rainfall over a catchment and consists primarily of rainfall runoff.
Trigger values	assigned value for each indicator used to assess the risk to an environmental value, a value that initiates some type of pre-defined management action.
Waste	(a) a solid, a liquid or a gas; or (b) a mixture of such substances, that is or are left over, surplus or an unwanted by-product from any activity (whether

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or not the substance is of value) and includes a prescribed substance or class of substances.

Waste transport certificate	the NT EPA waste tracking documentation used to track listed waste being transported interstate as required in accordance with the National Environment Protection (Movement of Controlled Waste Between States and Territories) Measure.
Wastewater	water that contains a contaminant or waste.
Water	includes: (a) surface water, ground water and tidal waters; (b) coastal waters of the Territory, within the meaning of the Coastal Waters (Northern Territory Powers) Act 1980 of the Commonwealth; and (c) water containing an impurity.
WMPC Act	the Northern Territory <i>Waste Management and Pollution Control Act</i> .