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BROWNLOW HILL QUARRY

POLLUTION INCIDENT RESPONSE MANAGEMENT PLAN

Prepared for:

TJ & RF FORDHAM PTY LTD

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Plan 1

Outline of Quarry showing Evacuation and Hazardous Storage locations

Annexure 1

Environment Protection Licence 20872

Annexure 2

Site Management Plan

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1 INTRODUCTION

TJ & RF Fordham, as holders of Environment Protection Licence (EPL 20872) (see Annexure 1) Brownlow Hill Quarry site (the Site), have commissioned this Pollution Incident Response Management Plan (PIRMP) to ensure compliance with the provisions of the Protection of the Environment Operations Act 1997 (POEO Act). This PIRMP has been prepared in accordance with the NSW Environment Protection Authority - Environmental Guidelines: Preparation of Pollution Incident Response Management Plans 2012.

The objectives of the PIRMP are to:

- Ensure comprehensive and timely communication about a pollution incident to staff at the premises, the Environmental Protection Authority, other relevant authorities specified in the Act (such as local Councils, NSW Ministry of Health, SafeWork NSW, and Fire and Rescue NSW) and people outside the facility who may be affected by the impacts of a pollution incident;
- Minimise and control the risk of a pollution incident at the facility by requiring identification of risks and the development of planned actions to minimise and manage those risks; and
- Ensure that the plan is properly implemented by trained staff, identifying persons responsible for implementing it, and ensuring that the plan is regularly tested for accuracy, currency and suitability.

1.1 LEGISLATIVE REQUIREMENTS

The specific requirements for PIRMPs are set out in Part 5.7A of the PO EO Act and the Protection of the Environment Operations (General) Regulation 2009 (POEO (G) Regulation). In summary, this provision requires the following of TJ & RF Fordham:

- Prepare a PIRMP (section 153A, POEO Act).
- The PIRMP must include the information detailed in the PO EO Act (section 153C) and be in the form required by the POEO(G) Regulation (clause 98B).
- Keep the PIRMP at the premises to which the EPL relates and where the relevant activity takes place (section 1530, POEO Act).
- Must test the PIRMP in accordance with the POEO(G) Regulation (clause 98E). If a pollution incident occurs in the course of an activity so that material harm to the environment is caused or threatened, immediately implement the plan (section 153F, PO EO Act).

The plan must include the following requirements:

- Description and likelihood of hazards.
- Pre-emptive actions to be taken.
- Inventory of pollutants.
- Safety equipment.
- Contact details.
- Communications with adjoining properties and the community.
- Minimising harm to persons on the premise.
- Maps.
- Actions to be taken during or immediately after pollution incident.
- Staff training.

1.2 THE SITE ACTIVITY AND SURROUNDS

A summary of the relevant details for the site such as the property details, approved extraction limits and surrounding land use are outlined in Table 1.

Table 1: Site Details

Item	Details
Address	Brownlow Hill Loop Road, BROWNLOW HILL
Lot on Plans	
Environment Protection Licence	20872
Approved Activities	Crushing, grinding or separating >500000 – 2000000 T annual processing capacity Land-based extractive activity >500000 – 2000000 T annual capacity to extract, process or store
Surrounding Land Uses	Predominantly rural

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DESCRIPTION AND LIKELIHOOD OF HAZARDS

Pollution hazards on-Site include chemical and fuel spills, dust emissions and water contamination. These are shown in Table 2 - Pollution Hazard Identification, Likelihood and Pre-emptive Actions with the likelihood of the incidence and the pre-emptive actions taken by the Site to reduce the risk or prevent an incidence from occurring.

Table 2: Pollution Hazard Identification, Likelihood and Pre-emptive Actions		
Hazard	Likelihood	Pre-emptive Actions Taken
Hydrocarbon spills during maintenance and refueling	Moderate	<ul style="list-style-type: none"> • Refueling will be via mobile equipment • Fuel or hazardous material is used for its intended use only (as specified on the Safety Data Sheets (SDS)). • SDS are reviewed and available for reference for the correct clean up procedures. • Compliance with the Workplace Health and Safety Management Plan. • Supervision is provided when refuelling to ensure that overfilling does not occur. • Vehicles are maintained in good condition and as per manufactures' specifications. • Pre-start checks are completed on plant and equipment daily which include inspection for oil leaks. • Good housekeeping and tidy work areas are kept to help prevent <u>accidents and spills.</u>
Stored chemicals leakage and/or spillage causing contamination	Low	<ul style="list-style-type: none"> • Hazardous materials are stored in a covered area and on appropriate drip trays where practicable. • Fuel or hazardous material is used for its intended use only (as specified on the SDS). • SDSs are reviewed and available for reference for the correct handling and clean up procedures. • Compliance with the Workplace Health and Safety Management Plan. • Good housekeeping and tidy work areas are kept to help prevent accidents and spills. • See Table 3 - Hazardous Materials Inventory for list of chemicals stored <u>on-Site</u>
Fire	Low	<ul style="list-style-type: none"> • Store flammable and combustible liquids in an undercover area on appropriate drip trays. • Fuel is not to be stored by permanent installations on-Site. • Refuelling is undertaken only in designated areas where possible. • Provision of appropriate spill kits and staff trained in their use. • SDS are reviewed and available for reference for the correct fire prevention and fighting procedures. • Compliance with the Workplace Health and Safety Management Plan. • Good housekeeping and tidy work areas are kept to help prevent accidents and spills. • Fire extinguishers are provided and staff are trained in their use. • Staff and visitors to Site are instructed of the emergency procedures and <u>evacuation points.</u>

Discharge of water with elevated suspended solid levels	Low	<ul style="list-style-type: none"> • Settling time is provided for waters within the settlement ponds prior to discharge. • Clean and contaminated runoff is segregated. • Sediment control measures are implemented and maintained. • Water monitoring is undertaken in accordance with licence conditions.
Dust emissions from operations	Low	<ul style="list-style-type: none"> • Hardstand areas and roads are kept in a damp state with the use of a water truck. • Crushing and screening plant is enclosed with water sprays operating at transfer points. • All loads are covered during transport.
General waste generated on-site incorrectly managed and entering the surrounding environment	Low	<ul style="list-style-type: none"> • General waste and recycle bins are provided at the office and lunch room. • General waste is taken to Council Landfill as necessary. • Waste oil from machinery maintenance is stored correctly and disposed of at an oil recycler. • Unserviceable machinery parts are reused or recycled where possible or waste metal sold to scrap metal merchant. • Wastewater from the on-Site sewage and amenities waste water treatment tank is chlorinated and used to irrigate the office garden.
Refueling on site	Low	<ul style="list-style-type: none"> • Store flammable and combustible liquids in an undercover area on appropriate drip trays. • Fuel is not to be stored by permanent installations on-Site. • Refuelling is undertaken only in designated areas where possible – see Appendix 1 • Provision of appropriate spill kits and staff trained in their use. • Compliance with the Workplace Health and Safety Management Plan. • Good housekeeping and tidy work areas are kept to help prevent accidents and spills. • Fire extinguishers are provided and staff are trained in their use. • Staff and visitors to Site are instructed of the emergency procedures and <u>evacuation points</u>.

Plan 1 - Site and Surrounds shows the location of the Site relative to the surrounding sensitive receptors. This plan indicates that there are several sensitive receptors within 500 metres of the Site.

3 PRE-EMPTIVE ACTIONS TO BE TAKEN

The TJ & RF Fordham Pty Ltd Site Management Plan (SMP - Annexure 2) identifies and outlines all necessary pre-emptive actions to prevent, minimise and manage all potential safety and environmental hazards. TJ & RF Fordham Pty Ltd has in place the following SafeWork compliant methods for:

- 1 Chemical storage.
- 2 Chemical spill management.
- 3 Schedule of Safety Equipment and Personal management of pollution incidents:
 - I. Spill kit.
 - II. Safety Data Sheet Register.
 - III. Fire Extinguishers.
 - IV. Hard Hats.
 - V. Steel Cap Boots.
 - VI. Dust Mask.
 - VII. Eye protection.
 - VIII. Rigger Gloves.

The SMP is to be updated during the first half of 2019 to allow for system upgrade.

4 INVENTORY OF POLLUTANTS (OVER 20 LITRES OR 20 KILOGRAMS)

A Hazardous Materials Storage register is kept on-Site and updated as necessary. The current hazardous substances stored on-Site are shown in Table 3 - Hazardous Materials Inventory.

Table 3: Hazardous Materials Inventory		
Chemical Name	Use	Approximate Amount
Diesel	Mobile and stationary equipment fuel	None kept on site
Engine Oil	Machine maintenance	5 litres
Hydraulic Oil	Machine maintenance	None kept on site
Transmission oil	Machine maintenance	None kept on site
Gear oil	Machine maintenance	None kept on site
Engine Coolant	Machine maintenance	20 litres
Grease	Machine/plant maintenance	30 kg

4.1 INVENTORY OF POLLUTANTS IDENTIFIED BY THE CURRENT EPA LICENCE

The current EPL provided as Attachment 1 - Environmental Protection Licence, currently does not specify any pollutant limits to be monitored.

5 INCIDENT CONTACT DETAILS

External Contacts

- 1 Emergency Services - 000
- 2 Environment Protection Authority - 13 15 55
- 3 Ministry of Health - Camden Public Hospital – 02 4634 3000
- 4 Wollondilly Shire Council - 02 46771100
- 5 Endeavour Energy - 13 10 03

Internal Contacts

Quarry Manager: Rob Burton
Ph: 0418 556 511
rob@nepeanquarries.com.au

Chief Executive Officer: Terry Fordham
Ph: 0418 246 854

Terry.Fordham@trn.com.au

6 COMMUNICATIONS WITH ADJOINING PROPERTIES AND THE COMMUNITY

In the event of an incident occurring the following methods of communication shall be employed depending on the severity and nature of the incident.

6.1 COMMUNICATIONS TO ADJOINING LANDOWNER OCCUPIERS

The surrounding land is rural residential properties with the closest residence approximately 700 m away. Due to the near distances of surrounding residences, should a severe incident occur, a door knock would be more appropriate and timely to advise neighbours of events.

6.2 COMMUNICATIONS WITH THE COMMUNITY

- Local Newspaper.
- Letter box drop.
- Door knock.

The extent of the communications with the neighbours and the community will depend on the:

- Magnitude of the incident.
- Type of pollutant.
- What that pollutant may impact - water, land and air.
- The potentially impacted area.
- Weather conditions.
- Potential duration of the impact.
- These factors will be considered in determining who will be contacted.

7 MINIMISING HARM TO PERSONS ON THE PREMISES

Emergency Management Key Responsibilities (pre-emergency)

The Quarry Manager or delegate is responsible for:

- The effectiveness and accuracy of the Emergency Plan, procedures and relevant emergency documentation.
- Maintenance of staff training in emergency preparedness, emergency information lists and emergency-related plant and equipment necessary for emergency evacuation compliance.
- Co-ordination of evacuation exercises.
- Post-emergency/exercise review.

Emergency Management Methods

- The Site has an emergency plan.
- A complete copy of the plan shall be displayed in all the main work areas.
- This plan forms part of the Workplace Health and Safety Plan.

Chief Emergency Controller (during and post-emergency)

The Emergency Controller for TJ & RF Fordham's quarry at Brownlow Hill Quarry is:
Quarry Manager - Quarry Manager Rob Burton Ph: 0418 556 511

Responsibilities include:

- Immediately responding to any emergency situation.
- Ascertaining the nature of the emergency and determining appropriate actions.
- Ensuring the appropriate emergency services have been notified.
- Co-ordinating the deployment of staff and any internal specialist resources.
- Where safe to do so take steps to contain or control the hazard.
- Ensuring that appropriate senior management are kept updated on the situation.
- Co-ordinating post-incident recovery strategies.

Staff, Employees and Contractors

Responsibilities include:

- Attendance of any emergency preparedness training.
- In the event of emergency event, report all emergency incidents to the Quarry Manager
- Follow instructions given in the event of an emergency.
- Co-operate with emergency personnel in the event of an emergency.
- When safe to do so take steps to contain or control the hazard.

7.1 EMERGENCY RESOURCES

Emergency Warning and Communications System

- Radios in all plant, weighbridge and vehicles, mobile phones, verbal.
- Communication with staff.
- In the event of a failure of the radio, landline telephone, emergency warning system and messages may be relayed via mobile phone or runner/driver.

Fire Fighting Appliances

The site facilities are equipped with various fire-fighting appliances which are strategically located throughout the site offices and plant as per the Emergency Response Plan.

Location of Extinguishers

Fire extinguishers are found in the following locations:

- On plant and in all Site offices as required.
- Next to fuel installation.
- The equipment shall comply with the relevant Australian Standards and be appropriately signposted.

All employees and contractors shall be competent in the use of the equipment.

All fire-fighting equipment shall be regularly checked and serviced. This will involve both internal inspections as well as external tests conducted by approved experts.

The Quarry Manager acts as the Fire Warden.

Incident and Accident Reporting

In the event that an injury is sustained to an employee or an incident occurs, contractor or visitor, the following contingencies have been put into place:

- Trained and accredited First Aid Officers will be in the workplace and shall be present on every shift.
- Contact number of the First Aid Officer is displayed on the Site office.
- All injuries shall be reported to the supervisor immediately and recorded on the injury report form as soon as practicable after injury.
- All injuries will also be investigated immediately and corrective actions instigated in accordance with TJ & RF Fordham Workplace Health and Safety Management Plan.

First Aid Equipment Locations

- Site Office.
- Quarry Vehicle.
- Loader.

7.2 EMERGENCY RESPONSE AND EVACUATION PLAN

Details regarding the Quarry's Evacuation Procedure are described on page 45 of the Site Management Plan (Annexure 2). General principles are outlined as follows:

Discovering a Dangerous Situation

- Move persons away from danger if safe to do so.
- Contact relevant emergency services (i.e. Ambulance/Fire/Police).
- Announce evacuation if dangerous situation requires (Radio/Runner).
- Contact the Quarry Manager.

Reporting an Emergency Externally

When reporting an emergency to an external agency, the following information should be included:

- Name of organisation.
- Exact nature of emergency - are there any casualties?

- Exact location (including address and location on site).
- Name of person reporting emergency
- Contact number where applicable

This information is on display at the site office

External reporting is to be carried out by the Quarry Manager, but, in that person's absence, may be effected by their delegate

Evacuation Alert

Verbal instructions for evacuation are effected by calling out "emergency, emergency, emergency" over the radio system or verbal directive issued by the appropriate personnel from the Quarry Manager will constitute the evacuation signal.

Assembly Areas

In the event of an evacuation, persons should assemble at the nearest safe assembly area as stated in the Quarry Safety Management Plans.

First Aid

If First Aid assistance is required contact the relevant First Aid attendant. First Aid attendant lists can be found in the Site office.

Any injured people who can be moved safely should be taken to the nearest assembly area (whichever is more appropriate) for treatment. Those people who are trapped or unable to be removed immediately must be protected and given First Aid on the spot (providing it is safe to do so).

Media Liaison

No person other than the following can authorise or divulge any information to the media:

- Mr Terry Fordham CEO

Any form of contact from the media should be referred to those mentioned above under all circumstances.

Should any staff be approached by media representatives for comment, the staff member must refer them to the Quarry Manager or the person authorized to speak on their behalf such as a media officer.

8 ACTIONS TO BE TAKEN DURING OR IMMEDIATELY AFTER POLLUTION INCIDENT

8.1 DURING A POLLUTION INCIDENT

All actions taken during and after a pollution incident will vary depending on the nature of the pollutants and severity of the incident.

Any action taken shall be in accordance with any Workplace Health and Safety requirements which are incorporated within the Site Management Plan.

Detailed records/evidence collection shall be carried out, provided it is safe to do so and with approval of the person in control of the Site. Evidence may include photographs or samples taken and written notes.

Follow all directives given by the Emergency Controller.

Follow only safe work practices.

8.2 EMERGENCY TERMINATION

Only the Emergency Controller may deem the emergency terminated. This action shall take place once all emergency services have concluded their involvement.

Only the Emergency Controller may deem the Site safe to enter.

8.3 INCIDENT REPORTING

Reporting of the incident to the EPA shall follow the requirements as set out in the EPL, as follows:

- For recording of Pollution Complaints refer to Condition M6.
- For notification of Environmental Harm refer to Condition R2.
- For preparing a written report to EPA, refer to condition R3.

8.4 SITE PERSONNEL COMPETENCY

Management to ensure staff are competent in key functional areas, that ongoing training will be provided and currency of training monitored throughout their period of employment with TJ & RF Fordham.

Records of training currency are maintained by the TRN Head Office. The **Training Co-Ordinator** monitors expiry dates and arranges appropriate training as necessary and annual employee reviews are conducted to identify all required training needs.

Management will ensure Contractors are competent in key functional areas. Ongoing currency of skills will be monitored throughout the period of the contract with Quarry Solutions.

All personal are trained in general and Site specific Safe Work Method Statements.

Weekly tool box meetings are undertaken for quarry activities. All new Site employees and contractors shall be made aware of the PIRMP.

Staff training records related to this PIRMP are to be included in the Site Management Plan (Annexure 2).

QUARRY PLAN

