



CLARENCE SANDS

PIRMP – Clarence Sands Quarry

Old Bells Line of Roads.
EPL #21428

POLLUTION INCIDENT RESPONSE MANAGEMENT PLAN

LICENCE NUMBER: #21428

Approved by: Peter Vicary

Position/Title: Director – Clarence Sands Pty Ltd

Signature:

Date:

PURPOSE:

Clarence Sands Pty Ltd holds an Environment Protection Licence with the NSW Environment Protection Authority (EPA) for Clarence Sands, Old Bells Line of Road. As per the *Protection of the Environment Operations Act 1997* (the POEO Act), the holder of an Environment Protection Licence must prepare, keep, test and implement a pollution incident response management plan (PIRMP) that complies with Part 5.7A of the POEO Act in relation to the activity to which the licence relates.

If a pollution incident occurs in the course of an activity so that material harm to the environment (within the meaning of section 147 of the POEO Act) is caused or threatened, the person carrying out the activity must **immediately** implement this plan in relation to the activity required by Part 5.7A of the POEO Act.

A copy of this plan must be kept at the licensed premises, or where the activity takes place in the case of mobile plant licences and be made available on request by an authorised EPA officer and to any person who is responsible for implementing this plan.

Parts of the plan must also be available either on a publicly accessible website or if there is no such website, by providing a copy of the plan to any person who makes a written request. The sections of the plan that are required to be publicly available are set out in clause 98D of the Protection of the Environment Operations (General) Regulation 2009.

NOTE: This plan must be developed in accordance with the *Protection of the Environment Operations Act 1997* and the Protection of the Environment Operations (General) Regulation 2009.

Licensees should also refer to the EPA's *Guideline: Pollution incident response management plans*.

Version	Date	Author	Reason
A	2021	P Vicary	Original issue
B	3/05/2024	A Helwig	Update Details and Annual Review

Environment Protection Licence (EPL) Details

Name of licensee: (including ABN)	Clarence Sands Pty Ltd ABN: 22 603 491 185
EPL number:	21428
Premises name and address:	Clarence Sands Old Bells Line of Road, Clarence, NSW 2790
Company or business contact details	Name: Andrew Helwig Position or title: Quarry Manager Business hours contact number/s: 0419 147 500. After hours contact number/s: 0419 147 500. Email: andrew@clarencesands.com
Website address:	www.clarencesands.com
Scheduled activity/activities on EPL:	Crushing, grinding or separating. Extractive activities
Fee-based activity/activities on EPL:	Crushing, grinding or separating > 100,000 – 500,000 T annual processing capacity. Extractive activities > 100,000 – 500,000 T annual processing capacity.

Pollution incident – person/s responsible

Contact details must include the names, position titles and 24-hour contact details. Details are to include alternative person/s, should the primary contact be unavailable.

PIRMP activation	Name of person responsible: Andrew Helwig Position or title: Quarry Manager Business hours contact number/s: 0419 147 500 After hours contact number/s: 0419 147 500 Email: andrew@clarencesands.com
	Secondary Contact Position or title: Director Business hours contact number/s: 02 4761 6161

After hours contact number/s: 0400 214 111
Email peterv@clarencesands.com

Pollution incident – person/s responsible, continued

Notifying relevant authorities

Notification should be made by a person with an appropriate level of authority within the company.

Name of person responsible: Andrew Helwig
Position or title: Quarry Manager
Business hours contact number/s: 0419 147 500
After hours contact number/s: 0419 147 500
Email: andrew@clarencesands.com

Managing response to pollution incident

Name of person responsible: Andrew Helwig
Position or title: Quarry Manager
Business hours contact number/s: 0419 147 500
After hours contact number/s: 0419 147 500
Email: andrew@clarencesands.com

Notification of relevant authorities

Identify any persons or authorities required to be notified as per Part 5.7A of the POEO Act in the case of a pollution incident that causes or threatens to cause material harm to the environment.

Relevant authorities include:

1. Fire & Rescue NSW and/or Rural Fire Service as applicable – 000 (first notification)
2. EPA – 131 555
3. NSW Health (Bathurst Public Health Unit) - (02) 6330 5880
4. SafeWork NSW – 131 050
5. Local authority (usually the local council) in which the pollution has occurred.

Note: The local council and public health unit will vary depending on the location of the pollution incident. For mobile plant licences the PIRMP will need to include the person or people who are responsible for identifying the local authority and nearest public health unit.

Fire & Rescue NSW / Rural Fire Service	Contact number/s:	(02) 6339 8563
EPA	Contact number/s:	(02) 6333 3800
NSW Health	Relevant Area Health Service:	Lithgow Hospital
	Contact number/s:	(02) 6350 2300
SafeWork NSW	Contact number/s:	131 050

Notification of relevant authorities, continued

Lithgow City Council	Contact number/s:	(02) 6354 9999
Resource Regulator	Contact number/s:	1300 814 609

Notification of neighbours and the local community

The site is bordered by state **NSW National Parks & Wildlife Service** in all directions. In case of a pollution incident, contact the below:

NSW National Parks & Wildlife Service

Gardens of Stone SCA

Kanangra Area

31 Eskbank Street

Lithgow NSW 2790

02 63336 6200

Project Officer Huw Evans 0425 764 069

NSW National Parks & Wildlife Service will be contacted by telephone in the event of a pollution event.

Description and likelihood of hazards

Hazards to human health or the environment associated with the licenced activity:

1. **Fuel/oil spill** – During refuelling and/or maintenance of plant and equipment.
2. **Chemical spill** – During application and/or transport of flocculants.
3. **Dam wall failure/sediment basins overflow** – During extreme rainfall events.
4. **Excessive dust generation** – During regular operation in dry/windy weather conditions.
5. **Wastewater overload/leak**– If failure of wastewater system occurs.

Likelihood of above hazard occurring:

1. **Fuel/oil spill – Rare.** Likelihood may increase if fuels/oils are not stored correctly, storage area is not maintained in good condition or from incorrect use of equipment.
2. **Chemical spill – Rare.** Likelihood may increase if chemicals are not stored correctly, storage area is not maintained in good condition or from incorrect use of equipment.
3. **Dam wall failure/sediment basin overflow – Rare.** Dam and basin walls are constructed with acceptable grades significantly making the risk of failure very low. Stormwater basins 1 and 2 are designed with the capacity to capture the entire runoff from the 1 in 100-year rainfall event. With the proper operation of the pumping systems installed the basins shall be dewatered in 10 days after such an event. The likelihood of overflow is therefore very low.

4. **Excessive dust generation – Possible.** Likelihood may increase with poor dust management including inadequate use of water cart in dry/windy weather.
5. **Wastewater overload/leak – Rare.** Likelihood may increase from poor maintenance of the wastewater system.

Pre-emptive actions to be taken

1. **Fuel / oil spill –** Refuelling only to be undertaken at concrete bunded fuel storage area. Spill kits available at site shed for control of any spills. Fire extinguishers available on all vehicles and in fuel storage area. Fuel storage area to be maintained in workable condition and staff operating refuelling equipment to be adequately trained.
2. **Chemical spill –** Chemicals stored in bunded area. Proper training to be undertaken prior to use of chemicals. Spill kit available at the site shed. Chemical storage area to be maintained in good condition.
3. **Dam wall failure / sediment basin overflow –** Sediment basin designed to capture up to and including the 1 in 100-year storm event.
4. **Excessive dust generation –** Wet suppression techniques to be undertaken during site operation in accordance with licence requirements. Water cart available for wetting soils available in dry and / or windy conditions.
5. **Wastewater overload / leak –** Wastewater system designed in accordance with AS/NZS 1547 to accommodate office and amenities wastewater from site operations.

Inventory of pollutants

Provide an inventory of potential pollutants on the premises or used in carrying out the activity to which the licence relates:

Maximum quantity of pollutants likely to be stored or held at particular locations (including underground tanks) at or on the premises to which the licence relates.

Location/Tank	Max. quantity	Contents	Comments / controls
Diesel fuel tank	20,000 L	Diesel fuel	Tank is double-walled, Fire rated. Spill kit available.
Main Shed	5,1000 Litre IBC,s	Manga floc 1510,GRT Haul loc, Clearnox (Adblue)	Stored on bunded containers. Spill Kit available
Bunded Storage Container	12 x 200 L	Transmission oil/plant lubricants	Stored in the bunded container. Spill kit available.
Sediment Basins	Design capacity: Basin 1 – 14.1 ML Basin 2 – 37.4 ML	Stormwater	Sediment basin designed to capture runoff for events up to and including 1 in a 100-year storm. Swales and mounds to direct runoff to sediment basins.

Pumping systems available to transfer runoff to stormwater storage dams/quarry voids.

Entire site	Variable	Excessive dust	1 x Water cart with 15 kL tank available to be used for dust suppression. 1 x Water cart with 25 kL tank available to be used for dust suppression. Water used for dust suppression to be sourced from stormwater sediment basins.
Site office area	Variable	Wastewater	

Safety equipment

Safety equipment or other devices used to minimise the risks to human health or the environment and to contain or control a pollution incident:

- Spill kit available at site office and bunded fuel area.
- All site plant fitted with fire extinguishers, 6 fire extinguishers around the wash plant and 3 fire extinguishers available at the site shed.
- 2 x 20 kL water tanks available for use behind shed.
- 2 x Water carts

Communicating with neighbours and the local community

Mechanisms for providing early warnings and regular updates to owners and occupiers of premises in the vicinity of the premises to which the licence relates or where the scheduled activity is carried out:

- In the event of a pollution incident that requires emergency services, 000 shall be called immediately.
- Should an event occur that results in the release of pollutants to downstream areas **NSW National Parks & Wildlife Service** shall be contacted and regularly updated regarding the event and works to mitigate / remediate impacts.

Minimising harm to persons on the premises

Arrangements for minimising the risk of harm to any persons who are on the premises or who are present where the scheduled activity is being carried out:

- Where the incident could **only affect those in the immediate vicinity**, workers in the area are to be notified and evacuated and the area is to be cordoned off.
- Where the incident could affect **all those onsite**, the site is to be evacuated.
- Where the incident could affect **the whole site as well as surrounding land**, the site is to be evacuated and the neighbours contacted as soon as possible by the site manager. Neighbours are to be updated regularly as required during incident management.

Maps

Provide a detailed map (or set of maps) showing the:

- location of the premises to which the licence relates.
- surrounding area that is likely to be affected by a pollution incident.
- location of potential pollutants on the premises
- location of any stormwater drains on the premises.

Actions to be taken during or immediately after a pollution incident

Actions to be taken immediately after a pollution incident to reduce or control any pollution:

1. In the event of a pollution incident that requires emergency services, 000 shall be called immediately.
2. Where the incident will not cause material harm to the environment, the Quarry Manager is to manage the pollution incident.
3. Where the incident may cause material harm to the environment, the Quarry Manager is to contact:
 - a. NSW EPA.
 - b. NSW National Parks & Wildlife Service (if impacting offsite areas).
 - c. Lithgow City Council.
 - d. SafeWork NSW if the event includes risks to worker health and safety.
 - e. Resource Regulator if the event includes risks to worker health and safety.
4. The incident area is to be cordoned off by the Quarry Manager (the incident area may be the entire site).
5. If required, evacuation of the immediate area or entire site is to take place.

Measures to mitigate the risk of harm to human health, including by means of early warnings, updates and the action to be taken during or immediately after a pollution incident to reduce that risk:

1. In the event of a pollution incident that requires emergency services, 000 should be called immediately.
2. Where the incident could **only affect those in the immediate vicinity**, workers in the area are to be notified and (where the hazard to health and safety exists) evacuated. The incident area is to be cordoned off where a hazard to health and safety exists and managed under the direction of the site manager and/or the relevant authority.
3. Where the incident could affect the health and safety of **all those onsite**, the site is to be evacuated and the incident managed under the direction of the Quarry Manager and/or the relevant authority.

Where the incident could affect the health and safety of **the whole site as well as surrounding land**, the site is to be evacuated, the incident managed under the direction of the Quarry Manager shall contact **NSW National Parks & Wildlife Service** as soon as possible by the Quarry Manager. Neighbours are to be updated regularly as required during incident management.

Identify any actions to be taken in combating the pollution caused by the incident and how any clean-up and associated funding resulting from an incident will be undertaken:

1. **Fuel/oil spill** – A spill kit is to be used to clean up pollution incident. If danger is present, contact 000.
2. **Chemical spill** – A spill kit is to be used to clean up pollution incident. If danger is present, contact 000.
3. **Dam wall failure/sediment basin overflow** – Where sediment basin overflow pumping systems are to be operated to minimise the discharge of stormwater from the site. Stormwater is to be tested in accordance with the EPL (Section M2) water discharge requirements. In the event of failure of dam/basin walls engineering advice is to be obtained to direct mitigation and remediation works.
4. **Excessive dust generation** – Water cart to be used to dampen roads, stockpiles etc to mitigate dust generation. Excess dust outside of the site boundary is to be managed in accordance with the site Air Quality Management Plan with a water cart used to dampen the road surface to mitigate vehicle dust generation.
5. **Wastewater overload/leak** – Septic tank to be pumped out to mitigate overflows and to limit the load to the effluent management area. Pump out to continue until the cause of leak/overflow is rectified. The wastewater system to be inspected to determine the cause of the failure and any required maintenance undertaken.

Coordinating with persons

Procedures for coordinating with the authorities or persons who have been notified:

2. In the event of a pollution incident that requires emergency services, 000 shall be called immediately.
3. Where the incident may cause material harm to the environment, the Quarry Manager is to contact:
 - a. NSW EPA
 - b. NSW National Parks & Wildlife Service
 - c. Lithgow City Council.
 - d. SafeWork NSW if the event includes risks to worker health and safety.
 - e. Resource Regulator

Where the incident is likely to impact the surrounding land, NSW National Parks & Wildlife Service is to be contacted by the Quarry Manager.

All contact is to be via telephone and/or email.

Identify the person/s through whom all communications are to be made:

Andrew Helwig 0419 147 500

andrew@clarencesands.com

Staff training

Identify the nature and objectives of any staff training program to this plan:

Site operations staff are to be trained in:

1. Operation of site refuelling systems to ensure safe refuelling operations and understanding of spill management processes.
2. Use and storage of flocculants to appropriate dosing of flocculant so that spillage of flocculant does not occur.
3. Monitoring and operation of site stormwater management systems. Specifically, regular monitoring of water and sediment levels in stormwater basins and the proper operation of site stormwater pumping systems.

Testing and updating of the PIRMP

It is a legal requirement to test the plan every 12 months and within one month of any pollution incident.

Each test of the plan is to be documented in an internal memo which is to be retained on site by the Quarry Manager. The memo shall detail the nature and description of the test completed; the time of the test; names of staff involved in the test; and an assessment of the adequacy of the processes tested.

Where inadequacies in the plan are identified subsequent internal memos shall be prepared detailing the changes proposed and implemented to address the shortcomings identified in the plan.

This PIRMP is to be reviewed and updated annually.