# ENVIRONMENTAL MANAGEMENT PLAN PREPARED FOR GOW STREET RECYCLING CENTRE 81 GOW STREET, PADSTOW NSW 2211

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# Engineering a Sustainable Future for Our Environment

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Attachment A5: Environmental Policy



#### 1. INTRODUCTION

Benbow Environmental have been engaged by Gow Street Recycling Centre (GSRC) to prepare an Environmental Management Plan (EMP) for the proposed liquid waste processing facility located at 81 Gow Street, Padstow NSW 2211.

The site contains an existing construction and demolition (C&D) resource recovery facility and operates under an existing consent from Canterbury-Bankstown Council (DA-51/1997). The facility is approved to process up to 80,000 tonnes of waste per year and store 7,300 tonnes of waste at any one time. It undertakes scheduled activities on site (resource recovery and waste storage), and as such holds an Environment Protection Licence (EPL) (No. 10943).

GSRC seeks to modify consent to operate a liquid waste dewatering facility on site. The dewatering plant would process up to 250,000 tonnes of liquid waste per year and have a maximum processing capacity of 1,500 tonnes per day.

This EMP details the necessary procedures and safeguards to effectively manage the on-site and off-site environmental impacts of the site operations. It includes a review of existing operations (C&D activities) and the proposed operations (liquid waste processing operations).

The EMP identifies environmental legal requirements and assesses specific impacts based on the site activities. It is the guiding document to facilitate the implementation of environmental management at the site including specific objectives and targets for both the short and long term. A copy of this EMP will be available on site at all times.

A description of the site's operations and the scope and objectives of this EMP are outlined in the following sections.

## 1.1 OBJECTIVES OF THE EMP

The objectives of the EMP are:

- To ensure all staff and contractors are aware of the legal requirements and responsibilities pertaining to environmental management related to all site operations covered by this EMP;
- To ensure that all staff and contractors are aware of the environmental aspects and impacts related to the site operations;
- To ensure staff and contractors are aware of their responsibilities and are competent in implementing the specific environmental safeguards that apply to their activities;
- To ensure that review processes are incorporated into the plan to reaffirm continual improvement;
- To ensure all relevant legislation is complied with; and
- To minimise any environmental harm as a result of the site operations.

In addition to these objectives, it shall be the aim of senior management to change and improve the EMP with the updating of environmental legislation, the development of new practices and

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technology, and in the case of complaints or incidents. The EMP should be updated to reflect such changes.

## 1.2 EMP REQUIREMENTS

This EMP has been prepared in line with the *Guideline for the Preparation for Environmental Management Plans* (NSW DIPNR, 2004). Requirements for the EMP are categorically addressed in Table 1-1.

Table 1-1: EMP Requirements

EMP Requirement	Section of EMP	
Background		
Introduction	Section 1	
Project Description	Section 2.2	
EMP Context	Section 2	
EMP Objectives	Section 1.1	
Environmental Policy	Section 3.3 and Attachment A5	
<b>Environmental Management</b>		
Environmental Management Structure and Responsibility	Section 4.1	
Approval and Licencing Requirements	Section 3.2	
Reporting	Section 4.4.1 and Attachment A4	
Environmental Training	Section 4.2	
Emergency Contacts and Response	Section 4.4.1	
Implementation		
Risk Assessment	Section 3.4 and Attachment A2	
Environmental Management Activities and Controls	Section 3.5 and Attachment A4	
Environmental Management Plans or Maps	Attachment A4	
Environmental Schedules		
Monitor and Review		
Environmental Monitoring	Section 5 and Attachment A4	
Environmental Auditing	Section 5.2	
Corrective Action	Section 5.4	
EMP Review	Section 5.3	

## 1.3 Environmental Procedures, Records & Forms

A set of environmental procedures and plans has been compiled into a manual and provided as Attachment A4. These procedures are a pragmatic way for staff and contractors carry out activities in an environmentally responsible way and ensure this EMP is adequately implemented.

Attachment A4 includes environmental procedures for the following:

- Air Quality Management
- Noise & Vibration Management
- Water Management



- Storage & Handling of Hazardous Materials
- Spill Procedure
- Waste Management
- Fire Prevention Management
- Workplace Inspection

Likewise, a set of records and forms associated with the environmental management of the site are also provided as Attachment A3. These registers and forms include:

- 1. Environmental Training Register
- 2. Incident Reporting Forms
- 3. Complaints Forms
- 4. Corrective and Preventative Actions Form



## 2. SITE DESCRIPTION

## 2.1 SITE LOCATION

The site is located at 81 Gow Street, Padstow NSW 2211 (also known as Lot A DP 103140), as shown in Figure 2-1 and Figure 2-2.

The site is a fully developed industrial site of approximately 10,115 m² within IN1 – General Industrial zoned land, as per the *Bankstown Local Environmental Plan 2015*. The entire site consists of sealed concrete hardstand that contains three (3) existing buildings; an existing warehouse that is to be demolished and is the proposed location for the new dewatering plant, an existing office and amenities building that is to be demolished and a demountable that is used as a lunchroom that is to be removed. There is also an existing awning located to the east of the car parking spaces that is to be removed.

Figure 2-1: Site Location

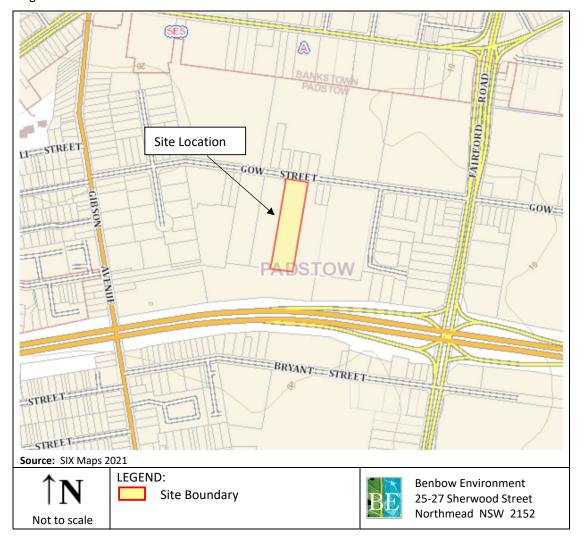




Figure 2-2: Site Aerial





## 2.2 SITE OPERATIONS

Site operations covered in this EMP include existing and proposed operations, as detailed below.

## 2.2.1 Existing Operations

The site contains an existing C&D resource recovery facility with approval under DA-51/1997. The facility can process up to 80,000 tonnes per year and store 7,300 tonnes at any one time. The C&D facility is authorised to accept the following wastes:

- General solid waste (non-putrescible) including:
  - ▶ Glass, plastic, rubber, plasterboard, ceramics, bricks, concrete or metal;
  - Virgin excavated material;
  - Building and Demolition waste;
  - Asphalt waste;
  - Cured concrete waste;
  - ▶ Any mixture of the wastes referred to above.
- Drilling mud, meaning a mixture of naturally occurring rock and soil, including but not limited
  to materials such as sandstone, shale and clay, and drilling fluid generated during drilling
  operations such as horizontal or directional drilling or potholing. This does not included
  drilling mud that has been generated by:
  - ▶ Deep drilling for mineral, gas or coal exploration; or
  - ▶ Drilling through contaminated soils, acid sulphate soils (ASS) or potential acid sulphate soils (PASS).

Note: At the time of writing, the facility <u>does not currently accept drilling mud (liquid waste)</u>. This waste type is currently not included on the Site's EPL. The proposed liquid waste facility described below will receive and process drilling mud under a separate approval and an EPL variation will be submitted.

#### 2.2.2 Proposed Operations

The liquid waste facility would process up to 250,000 tonnes of waste per year. Liquid wastes to be accepted on site are drilling mud and concrete washout waste.

The dewatering facility would operate as a recycling facility for the drilling mud and concrete washout water. The facility would involve the following activities:

- Unloading of drilling mud/concrete washout water into dirty water containment pits;
- This liquid is transferred into the dirty water pits.
- The sand/rock/sediment slurry is pumped from the bottom of the tank and into a screw separator.
- The screw separator removes the solids from the water.
- The solids are then transferred to a vibrating screen where the aggregates and sands are conveyed to external storage bays.
- The water from the screw separator and vibrating screen is pumped to the silo, the slurry homogeniser tank and then into the flocculant station and then into the filter press.
- The filter press removes the remaining silts and the cleaned water is pumped to the clean water pit.

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- The sediments/silt from the filter press becomes a fine biscuit which is removed offsite as for application to land under the Treated Drilling Mud Exemption 2014 or to landfill.
- The clean water is to be used for dust suppression and washdown onsite. Excess water would be sent to tradewaste under a Trade Waste Agreement.

Site washdown water will be collected on site before being processed through the above dewatering system.

The maximum quantity of liquid waste that can be processed through the dewatering plant in a 24-hour period is approximately 1,500 tonnes.

#### 2.3 SITE FACILITIES

Establishment and operation of a liquid waste dewatering plant is proposed. This plant would essentially operate separately from the existing approved resource recovery facility, however, there would be some minor interactions between processes. The proposal consists of the following elements:

- The existing warehouse would be renovated to accommodate and enclose the proposed dewatering facility.
- A new office building would be constructed. This would replace the existing demountable
  office and amenities building as well as the demountable lunchroom that would be removed
  from site. The new office building would be used by staff of both the existing and proposed
  developments.
- Installation of dewatering equipment including a flocculant station/pit, screw separator and screen, slurry homogeniser and filter press.
- A truck unloading area partially inside the renovated building.
- Six (6) inground pits and sumps inside the building. Pits and sump details are as follows:
  - ▶ 1 x inground pit 10,000 x 3,000 x 3,000 (mm) (volume: 90,000 L)
  - ▶ 2 x inground pits 2,500 x 3,000 x 3,000 (mm) (volume: 22,500 L each)
  - ▶ Dirty water pit
  - ▶ Floc Plant Pit
  - ▶ Sump Pit
  - Six (6) bunkers. Four (4) bunkers would be located inside the building and two (2) would be located external to the building under an awning. Bunker contents and dimensions are:
  - ▶ Bunker 1: Filter cake 6,300 x 8,500 (mm)
  - ► Bunker 2: TBA 6,300 x 5,805 (mm)
  - ► Bunker 3: TBA 6,700 x 5,805 (mm)
  - ▶ Bunker 4: TBA 5,550 x 5,805 (mm)
  - ▶ Bunker 5: Aggregate, 6,200 x 4,000 (mm)
  - ► Bunker 6: Aggregate, 6,200 x 4,000 (mm)
- Extension of the boundary wall up to new building behind the new aggregate bunkers.
- Connection to Sydney Water tradewaste under an agreement.
- Stormwater upgrades



## 2.4 Hours of Operation

The approved operational hours for the existing C&D facility are: 06:00 and 18:00 Monday to Friday, and 07:00 and 18:00 on weekends. The existing facility will continue to operate within these hours.

The liquid waste processing facility proposes to operate 24 hours, seven days a week.



## 3. PLANNING

The legal requirements that affect the operation of this site include any legislation which relates to activities or potential environmental impacts of the operations.

The following federal and state acts and associated regulations are key legislation pertaining to the environmental management of the site:

- Protection of the Environment Operations Act, 1997 (POEO Act);
- Environmental Planning and Assessment Act, 1979 (EP&A Act); and
- Work Health and Safety Act, 2011 (WHS Act).

Note that changes to legislation or regulations during operations would require a corresponding change to the EMP and specific procedures. Visit <a href="http://www.legislation.nsw.gov.au/">http://www.legislation.nsw.gov.au/</a> for further details.

All licences, permits and approvals required for the project are also presented.

## 3.1 LEGAL REQUIREMENTS

A register of legal and other requirements for the facility is provided in Attachment A1. Changes to legislation or regulations may require a corresponding change to the EMP.

Affected procedures would need to be modified accordingly.

## 3.2 LICENCES, PERMITS & APPROVALS

Attachment A1 contains a list of environmental licences, permits and approvals that are required for the site operations. This list needs to be maintained by the Managing Director or delegate and should be reviewed at regular intervals.

## 3.2.1 Development Consent Conditions

The development consent conditions (DCC) are issued by Council on acceptance of a proposed development or alteration/addition to existing developments under the NSW *Environmental Planning and Assessment Act 1979*. The DCCs that apply to the site need to be fulfilled in order to comply with current environmental and planning legislation, policies and guidelines.

A copy of the current development consent conditions (DA-51/1997) is provided as Attachment A7. Conditions of consent relevant to environmental issues are considered throughout this EMP.

#### 3.2.2 Environmental Protection Licence

The site will handle up to a maximum of 250,000 tonnes of waste per year, and therefore is required to vary the company's environment protection licence (EPL) under the *Protection of the Environment Operations Act 1997*.

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#### 3.3 Environmental Policy

Values and environmental commitments have been formalised in an Environmental Policy, provided as Attachment A5. This policy is considered integral to the way the company conducts itself and would be incorporated into all operations and functions of the business.

## 3.4 SIGNIFICANT ENVIRONMENTAL ASPECTS & POTENTIAL IMPACTS

A register of environmental aspects and potential impacts is provided as Attachment A2. A risk assessment was undertaken on each identified potential impact to determine its significance using a risk rating based on the likelihood and consequence descriptors. The risk assessment methodology is provided in the sub-sections that follow.

- Air emissions;
- Noise impacts;
- Water management;
- Hazardous material management;
- Waste management; and
- Fire prevention management.

Mitigation measures were considered in the register.

## 3.4.1 Risk Assessment Methodology

The methodology described in the following sections was used in assessing the risks associated with site activities.

The following sub-section defines the risk criteria used in this assessment.

## 3.4.1.1 Consequence Estimation

Consequence descriptor is used to quantify the potential on-site and off-site impacts in terms of environmental, health and financial impacts. Consequence is described in Table 3-1.

Table 3-1: Consequence Table

Level	Descriptor	Consequences Or Impact Description
1	Insignificant	Confined on-site environmental impacts able to be promptly rectified. No injuries. Financial loss less than \$2,000.
2	Minor	Confined environmental impacts requiring short term recovery with potentially little or no off-site impacts. First Aid treatment. Financial loss \$2,000 to \$20,000.
3	Moderate	Confined environmental impacts requiring medium term recovery both on-site and off-site. Medical treatment required. Financial loss \$20,000 to \$200,000,
4	Severe	Unconfined environmental impacts requiring long term recovery and leaving residual damage both on-site and off-site. Extensive injuries, loss of product capability. Financial loss \$200,000 to \$1M.

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Table 3-1: Consequence Table

Level	Descriptor	Consequences Or Impact Description
5	Catastrophic	Widespread environmental impact requiring long term recovery and leaving major damage both on-site and off-site. Death. Financial loss more than \$1M.

#### 3.4.1.2 Likelihood Estimation

This aspect involves determining how likely an event is to occur. Likelihood is the chance that something might happen and is defined for the purposes of this assessment in Table 3-2.

Table 3-2: Likelihood Table

Level	Descriptor	Likelihood Description	
Α	Almost Certain	Very likely. The event is expected to occur in most circumstances.	
В	Likely	Strong possibility. The event will probably occur in most circumstances.	
С	Possible	The event might occur at some time.	
D	Unlikely	Not expected. There is a slight possibility the event could occur at some time.	
E	Rare	Highly unlikely. The event may occur only in exceptional circumstances.	

## 3.4.1.3 Level of Risk

The level of risk is defined by Table 3-3.

Table 3-3: Level of Risk Table

			Consequence			
		Insignificant	Minor	Moderate	Severe	Catastrophic
		1	2	3	4	5
Likelihood	A (almost certain)	M (5)	Н (10)	Н (15)	V (20)	V (25)
	B (likely)	L (4)	M (8)	H (12)	H (16)	V (20)
	C (possible)	L (3)	M (6)	M (9)	H (12)	H (15)
	D (unlikely)	L (2)	L (4)	M (6)	M (8)	H (10)
	E (rare)	L (1)	L (2)	L (3)	L (4)	M (5)



The area shown in red indicates a very high level of risk (V) where mitigation measures are essential.

The area in orange is a high level of risk which is intolerable and where risk reduction is required.

The area shown in yellow indicates a moderate level of risk (M). Whilst the risk is not unacceptable, there should be practical measures taken to lower the risk. For risks where further mitigation is not economically viable, judgment needs to be exercised as to whether the level of risk is acceptable or not. While risk of an incident may be tolerable, steps still need to be taken to reduce the risk level to as low as reasonably practicable.

The area, shown in green, indicates a low level of risk (L) and is broadly considered to be acceptable. Further risk mitigation may not be required/appropriate. However, low and accepted risks should be monitored and routinely reviewed to ensure that they remain acceptable.

## 3.5 Environmental Objectives, Targets and Programmes

This section details the site environmental objectives, targets and programs to manage the significant environmental aspects identified in Section 3.4.

The recommended environmental objectives, targets and programs for the sites are summarised in Table 3-4. Procedures presented in Attachment A4 provide a detailed description of the management and monitoring for each aspect.

Table 3-4: Environmental Objectives & Performance Targets

Objectives	Actions	Performance Indicators and Targets	Frequency	Responsibility
Maintain 100% environmental compliance	1. Implement this EMP 2. Ensure EMP is implemented by undertaking internal or external audits 3. Comply with applicable environmental laws 4. Comply with conditions in EPL 5. Supply Annual Return to NSW EPA	No compliance issues	Annually	Managing Director
Minimise dust emissions	Implement control measures     Undertake weekly	Weekly inspection checklist complete     No excessive dust	As per Air Quality Management	Site/ Operations
	inspection	observed on site	procedure	Manager

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Table 3-4: Environmental Objectives & Performance Targets

Objectives	Actions	Performance Indicators and Targets	Frequency	Responsibility
Minimise noise emissions	<ol> <li>Implement control measures</li> <li>Undertake weekly inspection</li> </ol>	Weekly inspection checklist complete     No noise complaints	As per Noise Management Procedure	Site/ Operations Manager
Prevent surface water contamination	Implement control measures     Undertake weekly inspection of stormwater pits	Weekly inspection checklist complete     Visual water quality indicators met	As per Water Management Procedure	Site/ Operations Manager
Reduce waste generation	Identify waste reduction opportunities     Review waste records	Weekly inspection checklist complete     10% reduction in waste generated in 2 <sup>nd</sup> year of operation	As per Waste Management Procedure	Site/ Operations Manager
General	Improve employee awareness of environmental issues	Train employees on specific issues related to this EMP within one year of operations	As per Section 4.2	Site/ Operations Manager



## 4. IMPLEMENTATION AND OPERATION

Successful implementation of this EMP requires knowledge, skills and training, as well as the appropriate allocation of resources, and the clear delegation of responsibilities. It is also important that appropriate communication is established with the various stakeholders involved (e.g. surrounding residential community and regulatory authorities).

This section discusses the following:

- The key environmental roles and responsibilities; and
- Environmental training and appropriate communication strategies/procedures.

## 4.1 KEY ROLES AND RESPONSIBILITIES

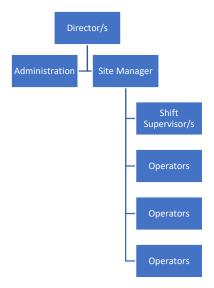
Key roles and responsibilities for protecting the environment and implementing environmental procedures are provided in Table 4-1. This description provides a guide to the roles the facility would require during operation. The structure of these roles is provided in Figure 4-1.

Table 4-1: Key Roles & Responsibilities

Role/Position	Responsibilities
Managing Director	<ul> <li>Ensure the company environmental policy is implemented in the EMP for the site.</li> <li>Allow adequate resources to ensure satisfactory implementation and maintenance of the EMP.</li> <li>Monitor overall EMP performance.</li> </ul>
Site/Operations Manager	<ul> <li>Implement EMP across all functions and maintenance areas of the site.</li> <li>Manage changes to EMP from changes across site operations.</li> <li>Ensure responsibilities of others are delegated and understood.</li> <li>Implement corrective and preventative actions as required.</li> </ul>
Environmental Officer/Delegate	<ul> <li>Implement EMP across all business functions.</li> <li>Maintain EMP documentation including updating changes to business activities, legislation, procedures, objectives, targets and programmes and training.</li> <li>Delegate tasks to other staff members in order to achieve objectives and implement EMP programs.</li> <li>Annually review and update the EMP.</li> <li>Ensure appropriate training relating to environmental management is undertaken and assess staff's competence.</li> </ul>
Shift Supervisors	<ul> <li>Undertake any delegated EMP tasks to enable effective implementation of the EMP.</li> <li>Carry out work activities in accordance with the EMP and procedures.</li> <li>Ensure operators &amp; staff are aware of their environmental responsibilities and legal requirements.</li> <li>Inform the Environmental manager of any issues with implementing the EMP or if amendments are needed as soon as practicable.</li> </ul>
All Staff and Contractors	<ul> <li>Undertake work activities in accordance with the EMP and procedures.</li> <li>Inform manager of any issues with implementing the EMP, corrective and/or preventative actions required or amendments needed as soon as practicable.</li> </ul>



Figure 4-1: Example Organisational Structure Chart



## 4.2 ENVIRONMENTAL TRAINING

Environmental training is essential for all staff working at the site to ensure that the environmental aspects of the site activities, and their management, are understood.

Training of staff will need to be assessed on a periodic basis, while contractors would be assessed on a job-by-job basis. It is recommended that environmental training be included as part of the site induction and revisited annually. Two separate site induction training programs need to be developed – one for Employees and one for Contractors.

This training shall be conducted by site management prior to those persons carrying out their works on site.

#### 4.2.1 Site Induction

All employees must have successfully completed the site induction training prior to starting work at the site. Employee site induction training would contain an environmental component that would cover the following areas:

- How to communicate and respond in an emergency situation, who to contact and what assistance is available.
- Where to go in an emergency, how to evacuate to a safe location and who will co-ordinate an evacuation.
- Incident response and reporting requirements.
- Aspects of the site operations and how these could potentially impact on the environment.
- Awareness of potential impacts of staff work activities and the environmental benefits of improved personal performance.
- Awareness of the corporate environmental policy and objectives of the site EMP.
- Awareness of legal requirements and individual accountability under environmental legislation applicable to the site, including penalties for offences under environmental legislation.

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- How the potential impacts are managed on site including monitoring, site inspections and any regular maintenance undertaken.
- Understanding of the various roles and responsibilities, with relevant procedures; e.g.:
   Administration staff should understand how the complaints register is implemented, and
   Staff responsible for daily site operations should be trained in any inspection checklists and
   how to follow up on any non-conformances.

Shortfalls could be addressed in toolbox talks or by specific on-site training.

## 4.2.2 Training for Contractors

Contractors would be physically inducted by the Site/Operations Manager, who would provide a tour of the site and outline site policy, procedures, and scope of works during the tour. Also included in the site induction for contractors would be where to go in the event of an emergency, how to evacuate to a safe location and who will co-ordinate an evacuation.

## 4.2.3 Regular Site Meetings/Toolbox Talks

Site meetings/Toolbox talks would be undertaken monthly. In addition to safety aspects, the agenda for the meetings should include the following environmental components:

- Any environmental spills, incidents or complaints;
- · Results of any environmental monitoring undertaken; and
- Outcomes of the Workplace Inspection.

## 4.2.4 Specific Environmental Training

Specific environmental training should be arranged for any environmental matters that need to be communicated to employees. These would be organised on an as needs basis.

#### 4.2.5 Training Register

At the completion of the site induction, all employees and contractors must sign a document stating that they understand and agree to abide by the site's procedures.

Details of all environmental training programs need to be recorded. A training register has been provided as a form in Attachment A3.

#### 4.3 COMMUNICATION

The Managing Director and/or Site/Operations Manager would communicate with relevant stakeholders when required. Stakeholders may include community groups, sub-contractors, regulatory authorities, non-regulatory agencies and the State Government.



## 4.3.1 Community Relations

It is important to foster open communications with the other stakeholders of the site to ensure that an integrated approach is used to deal with issues which reflect on all stakeholders. Regular communications with adjacent facilities should be undertaken to ensure any environmental management issues from either party are addressed promptly.

#### 4.3.1.1 Complaints Response

All complaints or enquiries should be handled in a courteous manner. Every complaint is a potential opportunity for improvement in environmental management. A procedure for handling complaints is provided below:

- Record in Log Book and on a Complaint Response Form:
  - ► Name of Complainant;
  - Address;
  - ► Telephone Number; and
  - ▶ Details of Complaint: date, time of occurrence, precise location of event.
- Connect/refer caller to one of the following staff members who are authorised to discuss the complaint with the caller:
  - Managing Director/s; and
  - ▶ Personnel with environmental responsibilities.
- Authorised staff member requests details of the complaint or information required by the caller and completes the Complaint Response Form and the Complaint Response Logbook Index (Attachment A3).
- Complaint is investigated and discussed at a toolbox meeting to determine whether it
  warrants being added to the incident register and whether a more detailed investigation is
  required.
- If further investigation is required, an incident number is allocated and recorded on the Complaint Response Logbook & Incident Register. If no investigation is warranted, the complaint can be closed out.
- Any response, investigations and actions taken to rectify the issue are recorded in the incident register.

## 4.3.2 Regulatory Authorities

Communications with regulatory authorities, such as the local council, shall occur on an asneeded basis. All communication with regulatory authorities concerning environmental matters is to be noted and records of any subsequent actions appropriately filed.

#### 4.3.3 Internal Communication

The site management is to establish simple yet effective communication channels for implementation of the EMP. Typical methods of communication that may suit the size of the operation include the Regular Site Meetings or Toolbox Talks with formal records.

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Document control and written communication would be necessary when new contractors or employees are trained or changes are made to the EMP or any other matters that affect the holistic environmental management of the site.

#### 4.4 INCIDENTS & EMERGENCIES

Emergency and pollution incident situations shall be dealt with in accordance with the site-specific Emergency Plan (EP) and Pollution Incident Response Management Plan (PIRMP).

These plans identify potential emergency situations that may have an impact on the environment and details how to respond to them. The site-specific EP has been provided by Benbow Environmental. Additionally, as per Clause 153A of the POEO Act, GSRC are required to maintain a Pollution Incident Response Management Plan (PIRMP) as a condition of the sites EPL. The PIRMP (as well as the EPL) can be viewed on the GSRC website: https://gsrc.com.au/epa.html.

An Emergency Control Organisation (ECO) needs to be established for the site and should consist of a group of personnel that has the responsibility of providing first response action to an emergency in terms of organising the necessary resources, communications, evacuation of personnel and implementing any corrective actions that may be necessary to return the emergency situation back to normal. The same applies for a pollution incident. Specific details of the ECO need to be provided in the Site's Emergency Plan.

## 4.4.1 Response Actions for Pollution Incidents

In the event of a pollution incident, the site's Pollution Incident Response Management Plan should be implemented. The first response of personnel on site based on their initial assessment is to phone 000 in an emergency.

Initial assessment needs to be made by ECO members present on site. If safe to do so:

- 1. Remove all persons from immediate danger
- 2. Secure the area
- 3. Commence evacuation

Under Part 5.7 of the POEO Act, a pollution incident that occurs in the course of an activity so that material harm to the environment is caused or threatened must be notified immediately to relevant authorities.

If the incident presents an immediate threat to human health or property, call 000 immediately. If the incident does not require emergency services, notify the following regulatory bodies, in order of relevance, as follows:

1. NSW Environment Protection Authority 131 555

2. Canterbury-Bankstown Council (02) 9707 9700

3. The Ministry of Health 1300 066 055 (ask for Public Health Officer)

4. SafeWork NSW5. Fire and Rescue NSW

1300 729 579

13 10 50

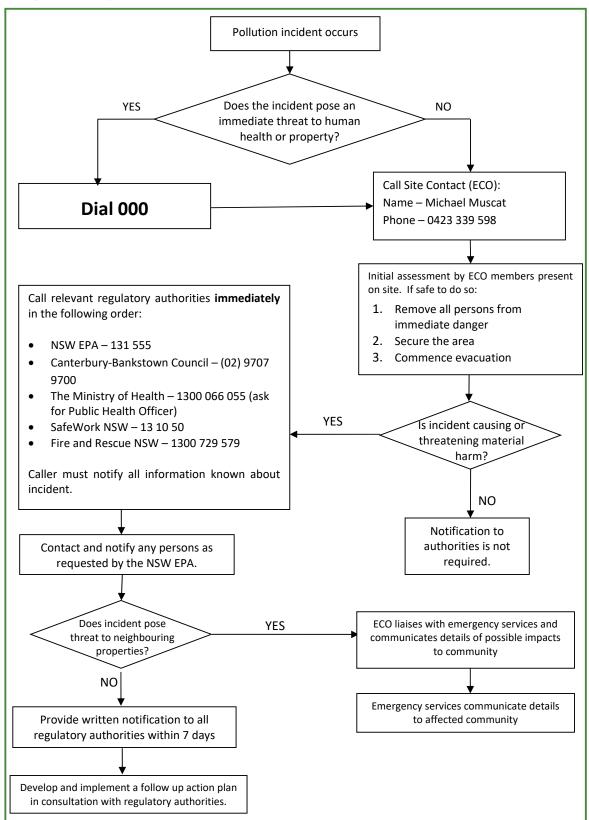


Note: The above order for notification purposes is at the time of writing the correct order in accordance with the duty to notify sections of the POEO Act. This may need to be updated upon approval of the dewatering plant.

A simple flowchart detailing how to respond in the event of a pollution incident is provided as Figure 4-2.



Figure 4-2: Response Plan for Pollution Incident





## 5. MONITORING, CORRECTIVE & PREVENTATIVE ACTIONS

This section details the monitoring and inspection plan to facilitate proper implementation, maintenance and due diligence of the EMP. Corrective and preventative actions are also detailed to facilitate continuous improvement of environmental management across operations.

## **5.1** Environmental Inspections

Regular inspections of the facility would assess the adequacy of control measures implemented at the site, so that corrective and/or preventative action can be taken where required.

Weekly inspections are recommended. An Inspection Checklist as a procedure is provided in Attachment A4. This covers air, noise, water, waste/litter and general management of the site.

#### 5.2 ENVIRONMENTAL AUDITING

Auditing is necessary to evaluate compliance and shall be conducted on a regular basis. It is recommended that external consultants conduct a review of the audit every 2-5 years. Independence must be demonstrated by the freedom from responsibility for the activity being audited or freedom from bias and conflict of interest.

Internal environmental management system audits shall be undertaken. The audit shall encompass the assessment of the following:

- Assess the effectiveness of the environmental control implemented on site, and the procedures used in the application of the EMP;
- Review of Monitoring and Inspection Plan results and/or reports for non-conformances, and records of corrective and preventive actions on areas of non-compliance to the EMP. Assessment of the adequacy of these actions;
- Degree of conformance to nominated procedures, and review of complaint register;
- Identification of areas of the system which could be improved, and identifying where possible
  missing procedures, procedures which require updating, documentation which could be
  simplified, or other target areas;
- Overall commitment to, and implementation of, the EMP;
- Updates in industry best practice;
- Changes in legislation;
- Annual set of objectives/target; and
- Revisions to objectives/targets due to Regional or Global initiatives by Government.



### 5.3 EMP REVIEW

Throughout operation, certain circumstances may change and as a result, modifications and/or refinements to the EMP may be required. Therefore, a review of the EMP is recommended to be annually.

The reviews shall be undertaken by the Managing Director and/or Appointed Environmental Officer and delegates and would need to consider the following:

- Changes to site activities, raw materials and/or chemicals;
- Changes to legislation;
- Variations to licences, approvals, consents or permits;
- Any monitoring, inspection and audit results;
- Any pollution incidents or complaints; and
- The effectiveness of safeguards and controls.

Outcomes of the EMP reviews may require modifications to the EMP and related documentation.

## 5.4 CORRECTIVE AND PREVENTATIVE ACTIONS

This section of the EMP details non-conformance with the EMP, and corrective and preventative actions. Non-conformances include errors and deficiencies that can be identified through the Inspection Checklist, Environmental Monitoring results and/or from any complaints received in relation to site activities. Non-conformances should be effectively logged and promptly resolved. Non-conformances are to be reviewed by site management who will coordinate the appropriate corrective and preventative actions to address the respective non-conformances. Site management will then inform any staff or contractors who are affected by significant non-conformances about the subsequent required actions.

## 5.4.1 Request for Corrective Action

Corrective Actions are an ideal way to demonstrate and account for any issues and improvements to the EMP. A Corrective Action Request (CAR) should be issued and processed using the CAR form provided in Attachment A3. A CAR can be initiated by any staff member, and should be passed to the appropriate staff or contractors responsible for the source of the non-conformance. Different events often initiate a CAR being raised, some typical ones follow:

- Council or other regulatory agency direction or request;
- Detection of non-conformances during site inspection;
- Public complaints;
- Periodic meetings; and/or
- Environmental incident or near miss.

Site management shall ensure that CARs are actioned within a reasonable time frame. Records shall be maintained by the site management for all relevant corrective actions.



## 5.5 RECORDS

Records relating to non-conformances, and their corrective and/or preventive action request forms, are maintained by site management. Other types of records, such as environmental monitoring results or correspondence between any regulatory authorities, shall also be maintained by site management.

These records would be kept in the office on site and would be compiled, as access to these records may occasionally be required by stakeholders and by regulatory authorities.

Reports and records concerning any environmental audits and regular inspections of the operations should also be maintained and archived.

This concludes the EMP.

Matthew Taylor Environmental Scientist R T Benbow Principal Consultant

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## 6. LIMITATIONS

Our services for this project are carried out in accordance with our current professional standards for site assessment investigations. No guarantees are either expressed or implied.

This report has been prepared solely for the use of Gow Street Recycling Centre, as per our agreement for providing environmental services. Only Gow Street Recycling Centre is entitled to rely upon the findings in the report within the scope of work described in this report. Otherwise, no responsibility is accepted for the use of any part of the report by another in any other context or for any other purpose.

Although all due care has been taken in the preparation of this study, no warranty is given, nor liability accepted (except that otherwise required by law) in relation to any of the information contained within this document. We accept no responsibility for the accuracy of any data or information provided to us by Gow Street Recycling Centre for the purposes of preparing this report.

Any opinions and judgements expressed herein, which are based on our understanding and interpretation of current regulatory standards, should not be construed as legal advice.

**ATTACHMENTS** 





## **Attachment A1: Legal and Other Requirements**

Legislation	Activity / Aspect	Section / Clause	Requirements	Comments
Environmental Planning and Assessment Act 1979	All	All	Comply with development consent conditions as set out by The Minister for Planning	Compliance with all development consent conditions is required once consent is issued
Protection of the Environment Operations Act 1997	Environmental Harm	S115 S116 S117	The principal objective of the legislation is to avoid causing environmental harm. Harm is defined in the Act as being:  "harm", in relation to the environment includes any direct or indirect alteration of the environment that has the effect of degrading the environment and, without limiting the generality of the above includes any act or omission that results in pollution.  "Pollution" means:  (a) water pollution, or  (b) air pollution, or  (c) noise pollution, or  (d) land pollution.  Clause 115 relates to the offence for wilful or negligent disposal of waste likely to harm the environment.  Clause 116 relates to offences for wilful or negligent causing leaks, spills or escapes of substances likely to harm the environment.  Clause 117 relates to offences for wilful or negligent emission of ozone depleting substances likely to harm the environment.	The implementation of the CEMP would ensure that the environmental impacts of the activities taking place on site are minimised.  Safeguards and procedures would ensure that site operations avoid causing environmental harm or pollution.



Legislation	Activity / Aspect	Section / Clause	Requirements	Comments
	Water Pollution	S120 S123	Clause 120 relates to the prohibition of pollution of waters:  A person who pollutes any waters is guilty of an offence.  Clause 123 details the maximum penalty for water pollution offences.  Tier 2 penalties apply.  A person who is guilty of an offence under this Part is liable, on conviction.	Applies.  Responsibility extends to all employees. If found guilty of a water pollution offence, both the company and the individual can be held liable.
	Air Pollution and Odour	Part 5.4	Clause 124 relates to the operation of plant (other than domestic plant):  The occupier of any premises who operates any plant in or on those premises in such a manner as to cause air pollution from those premises is guilty of an offence if the air pollution so caused, or any part of the air pollution so caused, is caused by the occupier's failure:  (a) to maintain the plant in an efficient condition, or (b) to operate the plant in a proper and efficient manner.  Clause 125 relates to maintenance work on plant. Clause 126 relates to dealing with materials. Clause 128 relates to standards of air impurities not to be exceeded. Clause 129 relates to the emission of odours from licensed premises.  Clause 132 details the maximum penalty for air pollution offences. Tier 2 penalties apply.  A person who is guilty of an offence under this Division is liable, on conviction	Potential for air pollution to occur is associated with dust generation from construction works.  An Air Quality Management Procedure has been included in this CEMP to address potential air pollution issues (Attachment A4).  Responsibility extends to all employees. If found guilty of an air pollution offence, both the company and the individual can be held liable.



Legislation	Activity / Aspect	Section / Clause	Requirements	Comments
	Noise Pollution	S139 S140 S141	Clause 139 relates to the operation of plant: The occupier of any premises who operates any plant (other than control equipment) at those premises in such a manner as to cause the emission of noise from those premises is guilty of an offence of the noise so caused, or any part of it, is caused by the occupier's failure:  (a) To maintain the plant in an efficient condition, or (b) To operate the plant in a proper and efficient manner.  Clause 140 relates to dealing with materials: The occupier of any premises who deals with materials in or on premises in such a manner as to cause the emission of noise from those premises is guilty of an offence if the noise so caused, or any part of it, is caused by the occupier's failure to deal with those materials in a proper and efficient manner.  Clause 141 details the maximum penalty for noise offences. Tier 2 offences apply.  A person who is guilty of an offence under this Part is liable, on conviction.	Applies.  A Noise and Vibration Management Procedure has been included in this CEMP to address potential noise pollution issues (Attachment A4).
	Land Pollution	S142A	Clause 142A relates to the pollution of land. Tier 2 penalties apply.  A person who pollutes land is guilty of an offence.	A Waste Management Procedure including an Unexpected Finds Protocol to address potential land pollution issues has been included in Attachment A4.



Legislation	Activity / Aspect	Section / Clause	Requirements	Comments
	Waste	S88 S143 S144 S145	Waste needs to be disposed of in a manner which does not create or is likely to create environmental harm.  Clause 88 relates to waste facilities required to pay EPA contributions in respect of all waste received at the facility.  Clause 143 relates to the unlawful transporting or depositing of waste:  If a person transports waste to a place that cannot lawfully be used as a waste facility for that waste, or causes or permits waste to be so transported: (a) the person, and (b) if the person is not the owner of the waste, the owner, are each guilty of an offence.  Clause 144 deals with the use of land as waste facility without lawful authority:  (1) A person who is the owner or occupier of any land and who uses the land, or causes or permits the land to be used, as a waste facility without lawful authority is guilty of an offence.  (2) In any proceedings for an offence under this section the defendant bears the onus of proving that there is lawful authority to use the land concerned as a waste facility.  All waste must be classified in accordance with the EPA's Waste Classification Guidelines.	The generation of waste requires appropriate management.  Any waste disposal required must be undertaken in accordance with the NSW EPA's Waste Classification Guidelines.  A Waste Management Procedure is included in Attachment A4.  All waste should be stored in an environmentally safe manner.  False or misleading information regarding pollution incidents is an offence under the Act.



Legislation	Activity / Aspect	Section / Clause	Requirements	Comments
	Duty to notify pollution incidents	S148	Clause 148 Pollution incidents causing or threatening material harm to be notified.  • Kinds of incidents to be notified This Part applies where a pollution incident occurs in the course of an activity so that material harm to the environment is caused or threatened.  • Duty of person carrying on activity to notify A person carrying on the activity must, immediately after the person becomes aware of the incident, notify each relevant authority of the incident and all relevant information about it.	In the event of an incident, the duty to notify extends to all staff and contractors of the site. Staff and/or contractors are required to notify the employer. When management is not contactable, they are required to notify the relevant authorities. Refer to Reporting Requirements in Section 4.3.5 of the CEMP.
	Duty to prepare and implement pollution incident response management plans	S153A	Clause 153A  The holder of an environment protection licence must prepare a pollution incident response management plan that complies with this Part in relation to the activity to which the licence relates.	The development undertakes scheduled activities, is the holder of an EPL and therefore a PIRMP has been implemented.
	Control equipment	S167	Clause 167 relates to the responsibility of the occupier of any premises to maintain and operate any control equipment installed at the premises in a proper and efficient manner.	This includes erosion, sediment and dust controls during construction.
Protection of the Environment Operations (Clean Air) Regulation 2010	Standards of concentration for scheduled premises	Sch 4	General standards of concentration apply to the activities at the site and include:  Solid Particles (total) for any crushing, grinding, separating or materials handling activity: Group 6 = 20 mg/m <sup>3</sup>	Any release of air impurities is required to comply with this requirement.



Legislation	Activity / Aspect	Section / Clause	Requirements	Comments
	Motor Vehicles	Part 4	An owner of a motor vehicle is guilty of an offence if the vehicle emits excessive air impurities while being used.  The occupier of premises to which this clause applies must not, at those premises, transfer, or allow the transfer of, any petrol into a motor vehicle's fuel tank except by means of a petrol delivery hose whose nozzle is fitted with an automatic over-fill protection device.	Staff and/or contractors are required to maintain vehicles to prevent the emissions of excessive air impurities. Staff and/or contractors are required to refuel vehicles using appropriate transfer techniques to prevent spillages.
Protection of the Environment Operations (Waste) Regulation 2014	Waste and transport	Part 4 Part 5	Part 4 relates to the tracking of certain waste transported within, out of and into NSW.  Part 5 relates to reporting on transportation of waste from NSW to an interstate waste facility if the waste has been generated in the metropolitan levy area.	Waste requiring tracking is not expected to be discovered during works. However, if trackable waste is discovered at the site, it requires tracking if being transported.
	Asbestos	Part 7	Relates to the requirements for transportation and management of asbestos waste.	Applies if asbestos is found.
	Water access licence	S56 S60A S89 S91A	A licence may be required in the relevant water sharing plan area for the right to share available water from a particular water source. Water cannot be taken from a waterbody without a licence.	Does not apply
Water Management Act 2000	Water management works	S90 S91B S91C S91D	Approval is required for construction and/or use of a water supply work, drainage work or flood work.	Does not apply
	Waterfront land	S91	A controlled activity approval is required for works on or under waterfront land.	Does not apply



Legislation	Activity / Aspect	Section / Clause	Requirements	Comments	
Water Act 1912	Surface water	S10	A licence or permit may be required for the taking and using of water from a stream or river, capture of water in a farm dam.	Does not apply	
Applies to water sources in NSW where water sharing plans have not commenced.	Groundwater	S112	A licence may be required for extraction of groundwater.	Does not apply	
Contaminated Land Management Act 1997	Reporting contamination	S60	Clause 60 relates to the duty of a person undertaking activities that have contaminated land and the land owner to report contamination.	Applies upon discovery and/or incident.	
Noxious Weeds Act 1993	Weed control & reporting	S12 S15	Clause 12 relates to private occupiers of land responsibility to control noxious weeds on land. Clause 15 requires occupiers of land to notify local control authority of notifiable weeds.	Annlies upon discovery	
Biodiversity Conservation Act 2016 No 63	Protection of animals and plants	Part 2	Clause 2.1 relates to offences for harming animals that are a threatened species, part of a threatened ecological community or a protected animal.  Clause 2.2 relates to offences for picking plants.  Clause 2.3 and 2.4 relate to offences for damaging areas of outstanding biodiversity and habitat of threatened species or ecological community.	Applies upon discovery.	
	Clearing of native vegetation	S2.11	A licence will be require if the intended activities are likely to cause harm or damage to threatened species, populations or ecological communities, or to their habitats.	Does not apply.	
Environment Protection and Biodiversity Conservation Act 1999 (Cth)	Flora and fauna conservation	Part 13	A permit is required for activities that will affect listed species and ecological communities within a commonwealth area.	Does not apply.	



Legislation	Activity / Aspect	Section / Clause	Requirements	Comments
Heritage Act 1977	Heritage	S57 S139 S146	Clause 57 requires approval for work to any item to which an interim heritage order or listing on the state heritage register applies.  Clause 139 requires that an excavation permit is required to disturb any land knowing or having reasonable cause to suspect disturbance may uncover a relic.  Clause 146 requires that discovery of a relic must be notified to the Heritage Council.	Site not heritage listed.
Aboriginal and Torres Strait Islander Heritage Protection Act 1984 (Cth)	Protection of places and objects	S20 S22	Clause 20 relates to reporting of any discovery of Aboriginal remains to the Minister.  Clause 22 requires compliance with the provisions of any declaration in relation to a significant Aboriginal area or object.	Applies on discovery
Waste Avoidance and Resource Recovery Act, 2001	Waste	S3	<ul> <li>The primary objectives of the act in relation to site activities are:</li> <li>to encourage the most efficient use of resources and to reduce environmental harm in accordance with the principles of ecologically sustainable development;</li> <li>to provide for the continual reduction in waste generation;</li> <li>to minimise the consumption of natural resources and the final disposal of waste by encouraging the avoidance of waste and the reuse and recycling of waste; and</li> <li>To establish a hierarchy of resource management options: <ol> <li>avoidance of unnecessary resource consumptions,</li> <li>Resource recovery (including reuse, reprocessing, recycling and energy recovery)</li> <li>Disposal.</li> </ol> </li> </ul>	The Waste Management Procedure (Attachment A4) identifies areas where waste is to be reduced or reused.
Work Health and Safety Regulation 2017	Construction Induction Training	Part 6.5	Part 6.5 requires workers to be given general construction induction training.	Environmental elements of induction training are provided in Section 4.2 of the CEMP.



Legislation	Activity / Aspect	Section / Clause	Requirements	Comments
Dangerous Goods (Road and Rail Transport) Act 2008	Transport of dangerous goods	S9	Clause 9 requires transport of dangerous goods by road or rail to be in a safe manner.	No significant quantities of dangerous goods will be stored on site during construction.
	Greenhouse Gas emissions	S13	Requirement for the accounting and reporting of greenhouse gases and energy consumed during construction if the project meets the thresholds in Clause 13.	Does not apply.
National Greenhouse and Energy Reporting Act 2007 and Regulations 2008 Fisheries Management Act 1994	Permits	S144 S201 S205 S219	Clause 144: Aquaculture permit Clause 201: Permit to carry out dredging or reclamation work Clause 205: Permit to cut, remove, damage or destroy marine vegetation on public water land or an aquaculture lease, or on the foreshore of any such land or lease. Clause 219: Permit to:  (a) set a net, netting or other material, or (b) construct or alter a dam, floodgate, causeway or weir, or (c) otherwise create an obstruction, across or within a bay, inlet, river or creek, or across or around a flat	Does not apply.



Table A1-1: Licences, Approvals and Permits

Туре	Relevant Legislation	Required?	Agency
LICENCES			
Environment	Schedule 1 of the Protection of the	Yes	NSW EPA
Protection Licence	Environment Operations Act 1997	163	NOW LFA
Surface Water Licence	Water Act 1912	No	Office of Water
Groundwater Licence	Water Act 1912	No	Office of Water
Water Access Licence	Water Management Act 2000	No	Office of Water
PERMITS			
Permits under the			DPI Fishing and
Fisheries	Fisheries Management Act 1994	No	Aquaculture
Management Act			7.44.4.4.4.4.4
Aboriginal Heritage	National Parks & Wildlife Act 1974	No	OEH
Impact Permit			
Permits under the	Heritage Act 1977	No	OEH
Heritage Act 1977	-		
APPROVALS		l e	Carlada
Development Consent	Environmental Planning and	Yes	Canterbury- Bankstown
(C&D activities)	Assessment Act 1979	Yes	Council
Development Consent	Environmental Planning and	Yes	The Minister for
(Dewatering Plant)	Assessment Act 1979	162	Planning
Alter or erect	Assessment Act 1979		riaiiiiiig
improvements within	Mine Subsidence Compensation Act		Mine Subsidence
a mine subsidence	1961	No	Board
district	1901		Doard
Consent for works and			
structures in a public	Roads Act 1993	No	RMS
road			
Sub-division or			Commissioner of
development of bush	Rural Fires Act 1997	No	the NSW Rural
fire prone land			Fire Service





## **Environmental Aspects Register**

			Pr	e-Con Risk	trol		Pos	t-Con Risk	trol
Activity	Aspect	Potential Impacts on the Environment	Consequence	Likelihood	Raw Risk	Mitigation Measures (Physical, Procedures and Plans)	Consequence	Likelihood	Residual Risk
SITE ESTABLISHMENT	Installation of sediment control	Excessive waste generation	2	D	L	Waste Management Procedure (Procedure No. 4) Regular Site Inspection Procedure (Procedure No. 7)	1	D	L
	measures	Excessive noise from mobile vehicles and material movements	2	D	L	Noise and Vibration Management Procedure (Procedure No. 2) Regular Site Inspection Procedure (Procedure No. 7)	1	E	L
	Installation of construction	Excessive noise from mobile vehicles and material movements	2	D	L	Noise and Vibration Management Procedure (Procedure No. 2) Regular Site Inspection Procedure (Procedure No. 7)	1	E	L
	facilities	Excessive waste generation	2	С	M	Waste Management Procedure (Procedure No. 4) Regular Site Inspection Procedure (Procedure No. 7)	1	С	L
DEMOLITION		Excessive dust generation	2	С	M	Air Quality Management Procedure (Procedure No. 1) Regular Site Inspection Procedure (Procedure No. 7)	1	D	L
	Demolition of existing structures	Excessive noise generation	3	С	M	Noise and Vibration Management Procedure (Procedure No. 2) Regular Site Inspection Procedure (Procedure No. 7)	2	D	L
	and infrastructure	Sediment laden runoff discharging offsite	3	В	Н	Erosion, Sediment & Stormwater Management Procedure (Procedure No. 3) Regular Site Inspection Procedure (Procedure No. 7)	3	D	L
		Excessive waste generation	2	С	M	Waste Management Procedure (Procedure No. 4) Regular Site Inspection Procedure (Procedure No. 7)	1	С	L
Excavation Works	Truck movements, unloading of materials and equipment	Sediment laden runoff discharging offsite	3	В	Н	Erosion, Sediment & Stormwater Management Procedure (Procedure No. 3) Regular Site Inspection Procedure (Procedure No. 7)	3	D	L
		Excessive noise generation	2	С	M	Noise and Vibration Management Procedure (Procedure No. 2) Regular Site Inspection Procedure (Procedure No. 7)	2	D	L
		Excessive dust generation	2	С	M	Air Quality Management Procedure (Procedure No. 1) Regular Site Inspection Procedure (Procedure No. 7)	2	D	L
		Tracking of mud/sediment onto roads	3	В	н	Control the tracking of mud and soil material onto local roads using wheel wash Erosion, Sediment & Stormwater Management Procedure (Procedure No. 3) Regular Site Inspection Procedure (Procedure No. 7)	1	С	L

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			Pr	e-Con Risk	trol		Pos	t-Con Risk	trol
Activity	Aspect	Potential Impacts on the Environment	Consequence	Likelihood	Raw Risk	Mitigation Measures (Physical, Procedures and Plans)	Consequence	Likelihood	Residual Risk
	Storage and management of excavated material	Excessive dust generation	2	С	М	Air Quality Management Procedure (Procedure No. 1) Regular Site Inspection Procedure (Procedure No. 7)	2	С	М
		Excessive noise generation	1	D	L	Noise and Vibration Management Procedure (Procedure No. 2) Regular Site Inspection Procedure (Procedure No. 7)	1	D	L
		Excavation, treatment and disposal of Acid Sulfate Soils	3	В	Н	Unexpected Finds Protocol Acid Sulfate Soils Management Plan Erosion, Sediment & Stormwater Management Procedure (Procedure No. 3) Waste Management Procedure (Procedure No. 4) Regular Site Inspection Procedure (Procedure No. 7)	2	D	L
MATERIALS DELIVERY,	Temporary construction material storage	Excessive dust generation (wind erosion)	2	С	М	Air Quality Management Procedure (Procedure No. 1) Regular Site Inspection Procedure (Procedure No. 7)	2	D	L
Transfer & Storage	Construction activities	Excessive waste generation	2	С	M	Waste Management Procedure (Procedure No. 4) Regular Site Inspection Procedure (Procedure No. 7)	1	D	L
	associated with the new dewatering facility	Sediment laden runoff discharging offsite	3	В	Н	Erosion, Sediment & Stormwater Management Procedure (Procedure No. 3) Regular Site Inspection Procedure (Procedure No. 7)	2	D	L
		Excessive waste generation – surplus materials, packaging	1	D	L	Waste Management Procedure (Procedure No. 4) Regular Site Inspection Procedure (Procedure No. 7)	1	D	L
		Local traffic issues due to construction vehicle movements	1	В	L	Construction Traffic Management Plan Traffic Management Procedure (Procedure No. 5)	1	D	L
	Temporary construction material storage	Excessive noise generation	2	С	М	Noise and Vibration Management Procedure (Procedure No. 2) Regular Site Inspection Procedure (Procedure No. 7)	2	D	L
	Site clean-up and disposal of	Excessive dust generation	2	С	М	Air Quality Management Procedure (Procedure No. 1) Regular Site Inspection Procedure (Procedure No. 7)	2	D	L
	waste	Littering on site and incorrect waste storage resulting in release of material and potential land contamination	2	С	М	Waste Management Procedure (Procedure No. 4) Regular Site Inspection Procedure (Procedure No. 7)	2	D	L

#### Gow Street Recycling Centre Construction Environmental Management Plan - Environmental Aspects Register



			Pro	e-Con Risk	trol		Post	t-Con Risk	
Activity	Aspect	Potential Impacts on the Environment	Consequence	Likelihood	Raw Risk	Mitigation Measures (Physical, Procedures and Plans)	Consequence	Likelihood	Residual Risk
CONSTRUCTION OF NEW LIQUID	Construction activities associated with the new dewatering facility	Sediment laden runoff from removal of construction material stockpiles	3	В	н	Erosion, Sediment & Stormwater Management Procedure (Procedure No. 3) Regular Site Inspection Procedure (Procedure No. 7)	2	D	L
Waste Facility	Removal and decommissioning	Excessive noise generation	2	D	L	Noise and Vibration Management Procedure (Procedure No. 2) Regular Site Inspection Procedure (Procedure No. 7)	1	Е	L
	of construction facilities	Excessive waste generation	1	D	L	Waste Management Procedure (Procedure No. 4) Regular Site Inspection Procedure (Procedure No. 7)	1	D	L
FINISHING WORKS	Fit out and establishing of internal	Excessive noise generation	2	D	L	Noise and Vibration Management Procedure (Procedure No. 2) Regular Site Inspection Procedure (Procedure No. 7)	1	Е	L
	infrastructure/equipment	Excessive waste generation	1	D	L	Waste Management Procedure (Procedure No. 4) Regular Site Inspection Procedure (Procedure No. 7)	1	D	L

Notes:

L = Low

M = Medium

H = High

V = Very High

Raw risk is the risk of the identified potential impacts without controls in place Residual risk is the risk assessed once controls and procedures are in place.

Ref: 191290-03\_CEMP\_ATT A2\_EAR March 2021

Benbow Environmental Page: 3



# CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN

# **FORMS**

# **Gow Street Recycling Centre**

81 Gow Street, Padstow NSW 2211

Issued and Approved by:	Date:

**Document Reference**: 191290-03\_CEMP\_Att A3\_Forms

Date of Issue: 22 March 2021

#### Prepared by:



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NO: F1.1
PREPARED BY: Benbow Environmental ISSUE NO.: 1
SUBJECT: 1.1 INCIDENT REPORT FORM

INCIDENT REPORTING – BASIC FACTS	FORM
Date & Time of Incident:	
Site Address:	
Reference No	
Expected cause, duration & specific location of the event/incident:	
The type, volume and concentration (if known) of every pollutant discharged the incident:	or spilt as a result of
Immediate action taken in relation to the event:	
The name, address and telephone number of any witnesses of the event:	
Any other relevant matters:	
I verify that all the information provided herein is a true and accurate of toccurred.	the events that have
Signed:	
Name:	
Date:	

Ref: 191290-03\_CEMP\_ATT A3\_FORMS March 2021



DENT REP	PORTING		REGISTER
Date	Reference No.*	Nature & cause of the incident	Verification of corrective / preventative actions
	140.	modent	I verify that all the nominat
			corrective and preventati
			•
			actions have been implement
			effectively.
			Signed:
			Name:
			Date:
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			corrective and preventat
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			effectively.
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			actions have been implement
			effectively.
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			Name:
			Date:
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			corrective and preventat
			•
			actions have been implement
			effectively.
			Signed:
			Name:
			Date:
			I verify that all the nominat
			corrective and preventat
			actions have been implement
			effectively.
			Signed:
			Name:
			Date:

<sup>\*</sup> The reference number quoted would reference related incident reports with details of each incident.



NO: EP1.2 PREPARED BY:	Benbo	w Environmental	DATE: ISSUE NO.:	March 21 1
SUBJECT:		COMPLAINTS RESPONSE FOR		-
REF:				REV: 1
LOG BOOK REFERENCE	NO:			
DATE:		TIME:	AM/F	·Μ
NAME OF PERSON WH	IO RECEI\	VED CALL:		
NAME OF COMPLAINA	NT:	TELEPHON	IE NO:	
ADDRESS:				
DETAILS OF COMPLAI	NT:			
DATE OF OCCURANCE	·	TIME AM/PM:		
TYPE OF INCIDENT:				
NOISE		] s	TORMWATER	
AIR EMISSIONS		]	DDOUR	
TRAFFIC/TRANSPORT		] F	IRE	
EROSION/SEDIMENT		]	VASTE	
OTHER		DETAILS:		
PRECISE LOCATION OF	INCIDEN	IT:		
PARTICULAR DETAILS I	RELATING	TO THE INCIDENT:		



COMPLAI	NTS RESPONSE FORM	1		PAGE 2 OF 2
CONT. DAIL	TIS ILESI CIUSE I CIUI	•		17022012
ACTION TAKEN:				
COMPLAINANT TRANSFERRED TO:				
MESSAGE TAKEN FOR:				
CORRECTIVE AND PREVENTATIVE	ACTION:			
INFORMATION BULLETIN SENT				
COMPLAINT INVESTIGATED BY:				CPAR NO
RESULTS OF INVESTIGATION:				
ON COMPLETION OF CORRECTIVE	AND PREVENTATIVE	ACTION:		
LETTER SENT TO COMPLAINANT	YES	NO	N/A	DATE:
WORK PRACTICE MODIFIED	YES	NO	N/A	DATE:
COMPLAINT RESPONSE COMPLETI	<b>E</b> •			
COM LANT RESPONSE COM LETT	<b></b>	PRINT NAM		
SIGNATURE:				
DATE:	TIME	:		AM/PM



## **COMPLAINTS REGISTER**

Ref no.	Date	Complaint details	Action Taken	Sign
-				
-				



NO: EP1.3 PREPARED BY:	Benbow Environmen	DATE: March 21 ISSUE NO.: 1	
SUBJECT:		E & PREVENTATIVE ACTION FORM	
REF:		REV: 1	
CORRECTIVE AC	CTION	PREVENTATIVE ACTION	
Name of personnel recorrective/preventative		Signature:	
Personnel responsible	for action:	Date:	
Outline of the 'Initiating by those requesting act		corrective and/or preventative actions (to be filled out	
Actions taken to fulfil the requirement of the corrective and/or preventative action:			
Corrective and/or preventative action complete:			
Signature:		Date:	



# CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN

# ENVIRONMENTAL PROCEDURES MANUAL

# 81 Gow Street, Padstow NSW 2211

Issued and Approved by:	Date:

Document Reference: 191290-03\_CEMP\_Att A4\_Env Proc

Date of Issue: 22 March 2021

#### Prepared by:



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PROCEDURE NAME: AIR QUALITY MANAGEMENT DATE: March 21

PREPARED BY: Benbow Environmental ISSUE NO.: 1

### 1. AIR QUALITY MANAGEMENT

#### 1.1 Purpose

The purpose of this procedure is to set out the process relating to management and visual monitoring of air emissions during construction activities.

Dust is one of the main sources of complaint against construction works. The following practices should be implemented to minimise dust emissions from site activities.

#### 1.2 PROCEDURE

#### 1.2.1 General Site Activities

- Monitor local weather conditions: cease excavations and earth moving operations when strong wind conditions result in visible dust emissions, either until implementation of mitigation measures is adequately controlling dust or until weather conditions improve.
- Stage works to minimise areas of disturbance at any one time.
- Install physical sediment barrier fences around the construction zone.
- Stabilised site access should be installed and maintained to prevent dust and dirt being transported by vehicles entering and exiting the site.
- Erection of wind breaks such as fences at the site boundary and around stockpiles, where necessary, to reduce the possibility for particles to become airborne.
- At all times and in particular during windy and dry weather, large unprotected areas will be kept moist (not wet) by sprinkling with water to keep dust under control.
- Any sand used in the concrete curing process (spread over the surface) shall be removed as soon as possible and within 10 working days from placement.

#### 1.2.2 Earthworks and Excavation

- Minimise area of soil disturbance.
- Install temporary covers over areas of earthworks where possible.
- Minimise drop heights of materials.
- Stabilise disturbed areas as soon as practicable.
- Suppression of visible dust emissions from exposed surfaces by regular watering using water sprays.
- Excavated material classification, treatment and disposal will be managed in line with the Acid Sulfate Soils Management Plan (ASSMP).



#### 1.2.3 Waste Storage

- Any waste from construction activities (<u>not</u> including excavated material) is to be stored in designated skip bins allocated for specific waste types. This waste is to be recycled through the existing C&D facility on site.
- All waste bins must be tarped or covered outside construction hours and during strong winds.

#### 1.2.4 On-site Vehicle Traffic

- Minimise movement of construction traffic around the site by restricting vehicles to specific routes.
- Enforce appropriate speed limits for vehicles on site. Recommended speed limit is <15 km/hr.</li>
- Sweep trafficable surfaces regularly to minimise build-up of sediments.
- Use wet cleaning methods such as regular watering to prevent the build-up of dusts on trafficked site surfaces.
- Ensure proper maintenance of vehicle engines.
- Limit idling time of vehicles engines should be switched off.

#### 1.2.5 Transport of Materials and Wastes

- Cover all loads entering and leaving the site.
- Vehicles leaving the site to exit via wheel wash to remove dirt and other materials and avoid tracking onto public roads.
- Ensure public roads used by construction vehicles are kept clean.

#### 1.3 **DUST MONITORING**

A Checklist that addresses dust control as well as other environmental matters has been provided in the Regular Site Inspection Procedure to aid the implementation of air quality control measures on site. It is recommended that the proponent review this checklist once the specific details and works schedule of the construction phase are finalised.

Continual visual observation of dust levels is required by site workers in order to determine the appropriate measure of dust control necessary for the particular site activities being undertaken under the prevailing meteorological conditions. The checklist should be adjusted accordingly in relation to dust where additional control measures are deemed necessary. If results of the inspections indicate visual emissions of dust are evident, more stringent controls should be enforced.

Should inspections indicate persistent visual emissions or complaints regarding dust be received, dust monitoring undertaken by a qualified environmental consultant is recommended.



#### 1.4 INSPECTION AND RECORDS

Results of the regular site inspections need to be maintained.

Any issues or non-conformances noted during workplace inspections must be recorded. Documentation for any corrective and preventative actions must also be maintained, as described in the *Corrective and Preventative Actions* section of the CEMP. Any other relevant records must also be kept for inspection by regulatory authorities.



PROCEDURE NAME: NOISE MANAGEMENT DATE: March 21

PREPARED BY: Benbow Environmental ISSUE NO.: 1

#### 2. NOISE AND VIBRATION MANAGEMENT

#### 2.1 PURPOSE

To effectively manage noise emissions and vibration impacts from the site during construction and minimise the occurrence of offensive and nuisance noise in the community.

#### 2.2 PROCEDURE

#### 2.2.1 Operational Hours

Construction activities are only to take place during standard construction hours as follows:

Monday to Friday:	7am to 5pm (with no hammering or saw-cutting to occur
	before 7.30am)
Saturday:	8am to 1pm (with no hammering or saw-cutting to occur
	before 8.30am)
Sunday and Public Holidays:	No works permitted

Noisy construction works such as use of jackhammers or concrete saws or activities generating vibrations will be scheduled to be undertaken during less sensitive hours, avoiding early morning and late afternoon where practicable.

#### 2.2.2 Construction Plant & Equipment

- Construction plant and equipment will be selected based on acoustic performance, where practicable.
- Plant and equipment shall be regularly maintained and fitted with appropriate mufflers or silencers.
- Mufflers will be installed on mechanically powered equipment.
- Equipment will be maintained and operated in a proper and efficient manner, in accordance with manufacturer specifications.
- Plant and equipment that is not being utilised will be turned off.
- Preventative maintenance of all noise generating equipment, such as pumps and air compressors shall be undertaken. Maintenance should be undertaken in accordance with manufacturer's specifications.
- To minimise noise levels, site management shall endeavour to position construction equipment behind structures and stockpiles that act as barriers, or at the greatest distance from residential areas and orientating equipment such that noise emissions are directed away from residential areas.
- Silencers are to be fitted and maintained on air compressors.



#### 2.2.3 General Site Activities

- Regular inspections shall be conducted in accordance with the Regular Site Inspection Procedure to identify areas of potential noise generation. Indicators may include:
  - Evidence of oil leaks or damage to equipment/vehicles;
  - ▶ Un-secured or damaged noise guards or equipment;
  - ▶ Noticeable, excessive or unusual sources of noise; and
  - ► General wear and tear of equipment.
- If problem areas of additional noise generation are identified, action should be taken to alleviate any additional noise as soon as practicable by the Project/ Construction Manager or Site Manager.
- Noise shall be included in the awareness training and induction of staff and contractors.

#### 2.2.4 Vehicle Movements

- Liaise with contract drivers to ensure that they are aware of noise impacts on neighbouring receivers and that they adopt the recommended practices to minimise such problems.
- Limit material deliveries and other truck movements to day time only/outside noise sensitive times
- Enforcing the following practices for on-site vehicle movements:
  - ► Low on-site speed limits (<15 km/h);
  - ▶ Minimise the use of truck exhaust brakes on site;
  - ▶ Minimising reversing distances and hence noise generated by reversing beepers; and
  - No extended periods of on-site revving/idling.

#### 2.2.5 Work Scheduling

- Scheduling activities to minimise impacts by undertaking all possible work during hours that will least adversely affect sensitive receivers;
- Scheduling noisy activities to coincide with high levels of neighbourhood noise so that noise from the activities is partially masked and not as intrusive as per Section 2.2.1;
- Planning deliveries and access to the site to occur quietly and efficiently and organising parking only within designated areas located away from the sensitive receivers;
- Optimising the number of deliveries to the site by amalgamating loads where possible and scheduling arrivals within designated hours; and
- Designating, designing and maintaining access routes to the site to minimise impacts.

#### 2.2.6 Additional Noise Mitigation Measures

Where additional noise mitigation measures are required, adopt the following:

- Use temporary site buildings and material stockpiles as noise barriers. The latter can be created using site earthworks, however, uncovered stockpiles should not be located too close to sensitive receivers to cause dust emissions; and
- Installing purpose built noise barriers, acoustic sheds and enclosures where practicable.

#### 2.3 Noise Monitoring

In the event of a noise complaint, a suitably qualified acoustic consultant should be engaged to undertake noise compliance monitoring.



As per the NSW Interim Construction Noise Guideline 2009:

- Where the predicted or measured LAeq (15 min) is greater than the noise affected level, the proponent should apply all feasible and reasonable work practices to meet the noise affected level.
- The proponent should also inform all potentially impacted residents of the nature of works to be carried out, the expected noise levels and duration, as well as contact details.

#### 2.4 INSPECTION AND RECORDS

Results of the regular site inspections need to be maintained.

Any issues or non-conformances noted during workplace inspections must be recorded. Documentation for any corrective and preventative actions must also be maintained, as described in the *Corrective and Preventative Actions* section of the CEMP. Any other relevant records must also be kept for inspection by regulatory authorities.

Where noise complaints are received, noise monitoring undertaken by a qualified environmental consultant is recommended.



PROCEDURE NAME: EROSION, SEDIMENT & STORMWATER DATE: March 21

**MANAGEMENT** 

PREPARED BY: Benbow Environmental ISSUE NO.: 1

## 3. EROSION, SEDIMENT & STORMWATER MANAGEMENT

#### 3.1 PURPOSE

This procedure serves to ensure the cleanliness of stormwater releases during construction and the control of erosion and sediment during earthworks and construction activities.

Due to the presence of ASS on site, it is imperative that excavated material, sediments or spoil do not exit the site or enter the stormwater network. Sediment waste is to be captured, segregated and treated in line with the ASSMP.

#### 3.2 **NEAREST WATERCOURSE**

Figure 3-1 displays the nearest watercourse to the proposed development, Salt Pan Creek, located approximately 760 m south-east of the site.

The separation distance, extent of on-site construction activities and erosion/sediment controls outlined below are deemed sufficient to ensure that this waterway is not impacted by the proposed development.



Bankstown ankstown Airport Condell Park Salt Pan Eldridge Ro Creek Roselands 😩 81 Gow St, Padstow **NSW 2211** S Western Motorway M5 M5 Revesby Padstow Riverwood Panania Source: Google Maps 2021 LEGEND: **Benbow Environmental** 25-27 Sherwood Street. Site Location 7 Northmead NSW 2152 Not to scale

Figure 3-1: Nearest Watercourse to the Proposed Development

#### 3.3 PROCEDURE

#### 3.3.1 Stormwater Requirements

- · Protect any existing stormwater drains using sediment traps and geotextile inlet filters
- Protect kerb inlets with sandbags.
- Keep the premises clean and tidy at all times.
- Locate temporary stockpiles away from stormwater drains and provide sediment fence to downstream side to prevent sediments entering stormwater.
- Stormwater drains should be inspected routinely for evidence of debris any debris build-up must be removed.
- Any stormwater pollution control equipment must be maintained in optimum working condition.
- No waste or items of any description shall be tipped down stormwater drains.
- Once constructed, all hardstand areas shall be inspected and maintained to ensure the integrity of the hardstand surface be maintained, with any cracks repaired immediately.



 If contaminated stormwater has exited the site or is strongly suspected to be contaminated but cannot be sampled, incident reporting should be undertaken and the Director shall notify all relevant authorities (i.e. local council, NSW EPA), and co-operate in the investigations clean-up process.

#### 3.3.2 Erosion and Sediment Controls

Erosion and sediment control measures to be implemented during construction include a sediment barrier fence around the construction works site. Additional measures include sediment barriers and sandbag sediment traps, a stabilised access point for construction vehicle entry/exit and geotextile inlet filters around stormwater pits and drains, as detailed below.

#### **Sediment Fencing**

Install all sediment fencing at the base of any temporary stockpile and where required to prevent sediment leaving the construction site. Ensure that sediment fences are firmly trenched into the ground for their entire length and include small 'returns' to minimise the risk of water flowing along them rather than through them.

#### Geotextile Inlet Filters

These filters are made of geotextile or straw bales and are installed around existing stormwater pits within a trench using star pickets.

#### Sand Bags

Sand bags can be used as a temporary sediment trap in the event of emergencies. Sand bags can also be used as temporary measures for the protection of kerb inlets.

#### **Barrier Fencing**

Barrier fences are used to define access areas and to minimise unnecessary disturbance of vegetated or developed lands. They are used to restrict access to any areas that do not need to be disturbed and are used on an as-needs basis.

#### Stabilised entry and exit point.

A Stabilised Access Point (SAP) must be installed and maintained at the construction ingress/egress location prior to the commencement of any work. Single sized 40mm or larger aggregate placed 150mm deep and extending from the street kerb/road shoulder to the land is recommended to be provided as a minimum.

#### 3.3.3 Sediment Waste Management Procedure

Sediment deposits may form around erosion and sediment control equipment:

- Along the site boundaries;
- Along sediment fences/traps; and
- Around and inside stormwater pits.

Due to the presence of ASS on site, it is imperative that excavated material, sediments or spoil do not exit the site or enter the stormwater network. Sediment waste is to be captured, segregated and treated in line with the ASSMP.



Sediment deposits must be removed regularly and stored away from waterways within designated storage receptacles and areas to prevent stormwater pollution. This waste shall be treated on site in line with the ASSMP. However, sediment deposits formed around stormwater pits on site that are mainly formed by soil from excavation works and erosion after rain events can be managed as excavated materials:

- Management and disposal options for the site's excavated material shall be determined based on its classification by a suitably qualified person, in accordance with the Waste Classification Guidelines.
- If disposal is required, a licensed waste contractor would be employed to remove all
  excavated material from site in a covered transport vehicle. If soil is free of contaminants,
  reuse on site may be permitted, in which case this would be the preferred option for
  sediment waste management.

#### 3.4 Inspection and Records

Results of the regular site inspections need to be maintained.

Any issues or non-conformances noted during workplace inspections must be recorded. Documentation for any corrective and preventative actions must also be maintained, as described in the *Corrective and Preventative Actions* section of the CEMP. Any other relevant records must also be kept for inspection by regulatory authorities.



PROCEDURE NAME: WASTE MANAGEMENT DATE: March 21

PREPARED BY: Benbow Environmental ISSUE NO.: 1

#### 4. WASTE MANAGEMENT

#### 4.1 Purpose

This procedure serves to ensure waste is adequately managed during construction activities.

Due to the presence of ASS on site, it is imperative that excavated waste materials do not exit the site and that excavated materials are captured, secured, segregated and treated in line with the ASSMP.

#### 4.2 PROCEDURE

#### 4.2.1 General Waste Procedures

- Training of personnel and subcontractors for any waste management requirements at the site through inductions and toolbox meetings.
- All waste material must be stored either in designated waste bins or stockpile areas away from waterways and stormwater drains.
- All wastes should be reused or segregated wherever possible.
- Regular visual inspections should be conducted to ensure that work sites are kept tidy and to identify opportunities for reuse and recycling.
- A register of wastes removed from site should be maintained by the Site Manager.
- Should wastes that have not been identified in the waste management plan (WMP) be generated at the site, the company has a responsibility to classify these wastes to ensure that management is in compliance with waste legislation.
- Wherever possible, approved and accepted wastes may be processed through the sites C&D facility.
- Non-approved or non-conforming waste should only be disposed to facilities appropriately licenced to receive the relevant classification of waste.
- Transport and handling of waste to be undertaken by licensed contractors only.
- Excess or rejected concrete to be returned to the batch plant for recycling when possible.
- The collection and disposal of wastewater from site operations and/or temporary facilities must be conducted by an approved licenced contractor at a licenced facility.

#### 4.2.2 Excavated Materials, Spoil and Stockpiles

All earthworks and excavations must be undertaken in line with the Acid Sulfate Soils Management Plan (ASSMP)

- Excavation onsite should be staged to allow for the identification of any ASS throughout the soil profile.
- Stockpiled soil must only be placed on an impermeable layer (concrete, plastic etc).
- Stockpiles must be stored in such a way that that prevents escape or migration of materials.



- All excavated materials must be analysed by a suitably qualified person in accordance with the ASS Manual (ASSMAC, 1998) and NSW EPA *Waste Classification Guidelines* (2014).
- Chemical analysis shall be conducted by a National Association of Testing Authorities (NATA) certified institution.
- Stored materials should be clearly marked, segregated wherever possible and material identified.
- In the event of an unexpected find, such as asbestos, potentially contaminated soil or Aboriginal objects, follow the Unexpected Finds Protocol (Ref: 191290-03\_Unexpected Finds\_Rev1).

#### 4.2.3 Chemical Waste Procedures

- For minor volumes of hazardous waste, such as oils and lubricants, wastes are to be collected in appropriate receptacles for the material, either the original or equivalent packaging.
- Receptacles used must be labelled appropriately, including any hazard symbols.
- Waste oils, lubricants and any other hazardous wastes are to be stored within a bunded and roofed area which complies with Australian Standards and the relevant Safety Data Sheets (e.g. bunded pallets under awning or within a building may be appropriate).
- The disposal of chemical, fuel and lubricant containers, solid and liquid wastes must be in accordance with the requirements of the local council or NSW EPA.

#### 4.2.4 Unexpected Finds Protocol

An Unexpected Finds Protocol has been provided as a separate document to be used in conjunction with this CEMP (Ref: 191290-03\_Unexpected Finds\_Rev1).

#### 4.2.5 Waste Documentation Procedures

It is recommended that waste management activities be recorded in a Waste Management Logbook as that provided in Table 4-1. Site Management or personnel responsible for environmental duties would complete the logbook to include type, quantity, destination and any tracking requirement of wastes transported off-site. All documentation regarding waste management must be maintained for a period of at least 6 years.



Table 4-1: Example of Waste Management Logbook

WASTE MANAGEMENT LOGBOOK							
Date	Waste Description	Form	Classification	Tracking Required	Consignment No.	Quantity Disposed	Destination
anuar <del>y 2</del> 021	Excavated Natural Material	Soil	Solid	YES / NO	P1003456792 5_SPP	50 m³	BINGO Industries
				YES / NO			
				YES / NO			
				YES / NO			
				YES / NO			
				YES / NO			
				YES / NO			
				YES / NO			
				YES / NO			
				YES / NO			
				YES / NO			
				YES / NO			
				YES / NO			
				YES / NO			
				YES / NO			
				YES / NO			
				YES / NO			

#### Notes to complete table:

Form Indicate if Solid, Liquid, Sludge

Classification Based on Waste Classification Guidelines: Special, Liquid, Hazardous, Restricted Solid Waste, General Solid Waste (Putrescible) or General Solid Waste (Non-Putrescible) Quantity Disposed Specify unit such as m³, kg, tonnes, and litres

**Destination** Indicate if destined for recycling, disposal, reuse; specify contractor



# 4.3 INSPECTION AND RECORDS

Results of the regular site inspections need to be maintained.

Any issues or non-conformances noted during workplace inspections must be recorded. Documentation for any corrective and preventative actions must also be maintained, as described in the *Corrective and Preventative Actions* section of the CEMP. Any other relevant records must also be kept for inspection by regulatory authorities.



PROCEDURE NAME: CONSTRUCTION TRAFFIC DATE: March 21

MANAGEMENT PROCEDURE

PREPARED BY: Benbow Environmental ISSUE NO.: 1

# 5. CONSTRUCTION TRAFFIC MANAGEMENT PROCEDURE

# **5.1** Purpose

The purpose of this procedure is to ensure that impacts to local traffic, pedestrians and carparking as a result of the proposed development are minimised. A traffic management plan has been prepared for the site.

## **5.2** Procedure

## 5.2.1 Construction Traffic Management

- Construction traffic must enter the site via the secondary site entrance on Gow Street, so as
  to minimise congestion at the primary site entrance during C&D activities and operational
  vehicle movements.
- Signage directing construction traffic to the secondary driveway will be in place.
- Truck arrivals are to be pre-planned to within a time frame of at least 20 minutes, to minimise queuing on Gow Street.
- All trucks will be queued within the site.
- To minimise queuing on site, a schedule of construction vehicle deliveries must be prepared by the main contractor.
- Trucks are not to park in nearby streets while waiting to travel to the site.
- Truck movements will only occur during permitted construction periods on a weekday.
- Pedestrian traffic is expected to be minimal, however warning signs will be placed warning pedestrians to walk across the construction vehicle driveway with care.

# 5.2.2 Carpark Management

- There is ample room for construction vehicle parking on site.
- A proportion of car spaces will allocated to construction worker vehicles.
- All car parking offsite by the construction workers will be in legal parking areas and not on the verges or footpaths.

# 5.3 Inspection and Records

Results of the regular site inspections need to be maintained.

Any issues or non-conformances noted during workplace inspections must be recorded. Documentation for any corrective and preventative actions must also be maintained, as described in the *Corrective and Preventative Actions* section of the CEMP. Any other relevant records must also be kept for inspection by regulatory authorities.



PROCEDURE NAME: SPILL PROCEDURE DATE: March 21

PREPARED BY: Benbow Environmental ISSUE NO.: 1

## 6. SPILL PROCEDURE

## 6.1 Purpose

The purpose of this procedure is to ensure the containment of all spills on the site to prevent the entry of spilled substances, materials or debris into stormwater systems and public waterways, reducing the risk of environmental pollution and exposure to breaches and penalties under environmental pollution legislation. Potential risks in relation to the construction activities is the generation of washwater and a risk of spills if chemicals are needed during construction.

## **6.2** Definitions

# **Minor Spillage**

A minor spillage is one that can be contained quickly and efficiently using the provisions of the Spill Kits located at various points around the site. It is typically less than 50 L. A minor spill would not be expected to reach the stormwater system. If the minor spill does reach the stormwater system the same action as outlined for a major spill will need to be taken.

## **Major Spillage**

A major spillage has the potential to leave the site and is characterised by the spillage of a quantity greater than 50 L. A spill of this size must be prevented from reaching the stormwater system, and requires the sealing of stormwater drainage pits and the stormwater outlets, which is necessary to isolate the site from surrounding waterways.

#### Safety Data Sheet (SDS)

A document that provides information on the identification, health hazards, precautions for use and the safe handling of specific chemical product, which complies with ASCC:2011 (1994).

These data sheets are obtained from the supplier and provide essential information required to allow safe handling of hazardous substances at work. Employers must ensure that all employees have access to SDS and must encourage employees to read the SDS's for all hazardous substances, which they may encounter in their work.

All SDS's include the following information:

- Product name and classification by UN No., GHS category, hazard statement and signal word;
- Product identification including physical and chemical properties;
- Health hazard information detailing acute effects and first aid advice;
- Precautions for use;
- Safe handling information including storage and transport, spills and disposal and fire explosion hazards;
- Recommend on the use of PPE; and



#### Miscellaneous information.

The information in an SDS is very important and all members of staff must be familiar with the location of the SDS's and their contents. For new chemicals on site, an SDS must be provided from manufacturers and read by the staff.

#### Spill Kit

A kit consisting of spill equipment to contain and clean up spills. Spill kits must include at least the following items: shovels, brooms, chemically resistant boots and gloves, disposal bags for contaminated waste and portable containment barriers. There are spill kits specifically designed to clean up different substances including chemical spill kits for corrosive of unknown liquids, universal spill kits for water-based and non-corrosive liquids and oil spill kits.

## **6.3** Procedures

Spill kits are required on site if chemicals are to be stored. Spill kits should be suited to the chemicals stored and/or handled during construction. Spill control equipment should be kept together at one location and communicated to all personnel. Signage should indicate the designated locations of the spill kits/spill control equipment.

If a spill occurs on the site the following procedure is to be followed:

# 6.3.1 For Minor Spillage <50 L

First-Response Action on Discovery of Minor Spill (General)

- 1. Switch off all pumps using the automatic pump cut-off.
- 2. Assist and remove any person from the danger area, only if safe to do so.
- 3. Check that all potential sources of ignition have been shut down (if safe to do so).
- 4. Immediately notify the Site Manager and specify details of the spill, such as location or source of release.
- 5. Follow instructions from the Site Manager.

## Site Manager Responsibilities

When informed of the spill:

- 1. Switch off all pumps using the automatic pump cut-off.
- 2. Mobilise and co-ordinate personnel to take incident response action.
- 3. Assist and remove any person from the danger area, only if safe to do so.
- 4. Contain the spill using booms or other portable containment barriers from the Spill Kit to prevent the spill entering stormwater drains. Soak up as much of the spill as possible using adsorbents from the Spill Kit.
- 5. Check that all potential sources of ignition have been shut down (if safe to do so).
- 6. Advise the Director of the details of the spill.
- 7. Adsorbents used in the spill clean-up are likely to be classified as hazardous waste. Contact a licensed waste contractor to dispose of the adsorbents used in the spill clean-up.
- 8. It will remain the discretion of the Director whether or not to report details of the spill incident, location, time of occurrence, type of spill, chemical involved and quantity on a corrective/preventative action form.



# 6.3.2 For Major Spillage >50 L

## First-Response Action on Discovery of Major Spill (General)

- 1. Switch off all pumps using the automatic pump cut-off.
- 2. Assist and remove any person from the danger area, only if safe to do so.
- 3. Check that all potential sources of ignition have been shut down (if safe to do so).
- 4. Immediately notify the Site Manager and specify details of the spill, such as location or source of release.
- 5. Follow instructions from the Site Manager.

### Site Manager Responsibilities

When informed of the spill:

- 1. Mobilise and co-ordinate personnel to take incident response action.
- 2. Assist and remove any person from the danger area, only if safe to do so.
- 3. Contain the spill using booms from the Spill Kit to prevent the spill entering stormwater drains. Soak up as much of the spill as possible using adsorbents from the Spill Kit.
- 4. Check that all potential sources of ignition have been shut down (if safe to do so).
- 5. If required, telephone the Fire Brigade and/or Police or Ambulance Services confirming the state of the emergency at the Site and requesting for additional assistance.
- 6. Advise the Director of the details of the spill;
- 7. Under the direction of the Director, and with the assistance of the emergency response crews (if required), clean up the spill;
- 8. Adsorbents used in the spill clean-up are likely to be classified as hazardous waste. Contact a licensed waste contractor to dispose of the adsorbents used in the spill clean-up.

#### Reporting a Major Spill

Under section 148 of the Protection of the Environment Operations Act, 1997, there is a duty to report pollution incidents. The Director is responsible for notifying the relevant authorities.

Relevant authorities include one or more the following, depending on the type and extent of the spill:

1.	NSW Environment Protection Authority	131 555
2.	Canterbury-Bankstown Council	(02) 9707 9000
3.	The Ministry of Health	(02) 9391 9263
4.	SafeWork NSW	13 10 50
5.	Fire and Rescue NSW	(02) 9265 2999

The following provides guidance on notifying pollution incidents:

- Any pollution incident that causes or threatens material harm to the environment must be notified immediately.
- A 'pollution incident' includes a leak, spill or escape of a substance, or circumstances in which this is likely to occur.



- Material harm includes on-site harm, as well as harm to the environment beyond the premises where the pollution incident occurred.
- Notification must be given immediately after the person becomes aware of the incident.

## 6.4 INSPECTION AND RECORDS

Results of the regular site inspections need to be maintained.

Any issues or non-conformances noted during workplace inspections must be recorded. Documentation for any corrective and preventative actions must also be maintained, as described in the *Corrective and Preventative Actions* section of the CEMP. Any other relevant records must also be kept of professional periodic inspections.



PROCEDURE NAME: REGULAR SITE INSPECTION PROCEDURE DATE: March 21

PREPARED BY: Benbow Environmental ISSUE NO.: 1

# 7. REGULAR SITE INSPECTION

# 7.1 Purpose

The purpose of this procedure is to ensure an adequate level of environmental management during construction is maintained. The procedure can help determine whether action needs to be taken, in order to rectify any identified issues with the potential to cause environmental harm.

## **7.2** Procedure

- An Inspection Checklist is provided overleaf to be initially completed and recorded on a
  weekly basis. This information is used to ensure an adequate level of environmental
  management at the site is maintained. It is also used to determine whether action needs to
  be taken to rectify issues that have arisen that may have the potential to cause
  environmental harm.
- If any action is required, this should be decided at the discretion of the Site Manager and Project/ Construction Manager.
- Any issues or non-conformances noted during site inspections must be recorded.
  Documentation for any corrective and preventative actions (e.g. CAR forms) must also be
  maintained, as described in the Corrective and Preventative Actions section of the CEMP. Any
  other relevant records must also be kept for inspection by regulatory authorities.

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CONSTRUCTION WEEKLY SITE INSPECTION CHECKLIST					
Inspected by:	T T		Date & time:		
ITEM CHECKED	YES	NO	ACTION REQUIRED	SIGN	
Is there any excessive noise from construction activities (or any noise complaints)?					
Is there any excessive or unusual dust emissions or any complaints regarding dust from construction activities?					
Is dust from all exposed surfaces adequately suppressed using regular watering?					
Check all barrier fencing installed is being used for its intended purpose.					
Is the stabilised access point working adequately? Check whether any sediment build up (tracking from vehicles) is evident on the roadway leaving the site.					
Is there evidence of construction traffic tracking dirt onto adjoining public roads? Public roads need to be cleaned if there is evidence of dirt being tracked from the construction area.					
Is all on site traffic associated with construction within authorised area?					
Are trucks entering and leaving the site with loads adequately covered?					
Are truck tyres being washed before departing from the site?					
Are temporary stockpiles:					
<ul> <li>Located clear of drainage paths, easements, kerbs and roadways?</li> <li>Located below fence lines when within 5m of a fence?</li> <li>Below a height of 3 m?</li> <li>Adequately controlled using sediment fencing?</li> </ul>					
<ul> <li>Regularly watered to suppress dust or covered if on site for longer than one month?</li> </ul>					
Are sediment fences installed around the construction area and at the base of temporary stockpiles? Check sediment fences are:					
<ul> <li>Firmly trenched into the ground for the entire length</li> <li>Capturing sediment adequately</li> <li>Filled with rubbish, sediment or debris and if they need cleaning/replacing</li> </ul>					
Check all gutters and drains are adequately fitted with sediment traps. Are all sediment traps working adequately? Check any sediment build up around traps indicating they need replacing / cleaning.					



mspecieu by.	CONSTRUCTION WEEKLY SITE INSPECTION CHECKLIST			
Inspected by: ITEM CHECKED		NO	Date & time:  ACTION REQUIRED	SIGN
Are any signs out of place, obstructed or missing?  • Speed limit site sign at entrance  • Construction site sign at entrance  • Warning signs to pedestrians  Are all oils, fuels, lubricants and chemicals (and associated wastes) labelled and stored in appropriate receptacles/areas?	YES		ACTION REQUIRED	
Is there evidence of any spills including oil, fuel, chemicals on any area of the site?				
<ul> <li>Stored within the correct bins and/or designated waste areas and not near waterways or stormwater pits</li> <li>Not overflowing from bins</li> <li>Within bins that are labelled correctly and adequately covered when not in use</li> <li>Is there any litter or windblown waste in the construction area?</li> </ul>				
Are there any other areas that have not been maintained?				

Name:\_\_\_\_\_\_ Signature:\_\_\_\_\_ Date: \_\_\_\_\_



# "CONSTRUCTION COMPANY" ENVIRONMENTAL POLICY

This policy applies to "Construction Company" facilities, offices, employees and contractors. "Construction Company" has adopted a pragmatic approach to environmental management and is committed to continually improving our environmental performance and minimising the impacts of our activities on the environment by:

- Minimising the consumption of energy and water at our construction sites;
- Minimising the generation of waste;
- Maximising our efficiency by keeping up to date with the latest best practice technologies and implementing those found viable into our construction sites;
- Making environmentally sound purchasing decisions;
- Working with suppliers and customers to reduce the environmental impact of transportation;
- Complying with all relevant environmental legislation and other requirements;
- Educating our employees, contractors and customers to minimise environmental impact through staff awareness, participation and feedback;
- Setting realistic environmental objectives and targets and developing programs to achieve these; and
- Incorporating environmental sustainability principles into all business functions.

"Construction Company" will endeavour to integrate strategies for the prevention of pollution by minimising the risks of our operations on the environment.

Director

March, 2021