Hallenbeagle Transfer Station and Material Recycling Facility

1.4 Accident Prevention and Management Plan

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Document Details

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Document Review History

Date	Description	Summary of Changes
October 2023	Version 1.0	Original Document to support an environmental permit application for a refuse transfer station, materials recycling facility and a covered bale storage area.

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1 SITE DETAILS

1.1 Site Activities

1.1.1 Hallenbeagle Transfer Station and Material Recycling Facility (the site) is located at Cornwall Business Park, Hallenbeagle, Scorrier, Redruth, TR16 5EN at National Grid Reference (NGR) SW 72700 44778.

1.1.2 Activities undertaken at the site are detailed below. Refer to the Operations Management Plan (Document reference 1.2) and Environmental Risk Assessment (Document reference 1.1) for full details of site activities.

- Unloading of waste
- Storage of waste
- Loading of waste
- Processing and treatment of non-hazardous waste

1.1.3 The Operations Management Plan (Document reference 1.2) and Fire Prevention Plan (Document reference 1.6) for the site details the types of waste and manner in which they are stored.

1.1.4 The COSHH index details the substances stored on site and the location in which they are stored. This is located on site within the H7S Folder. Cleaning equipment is stored internally in the cleaning cupboard in the main office.

1.2 Emergency Contacts

1.2.1 Contact details for stakeholders who may need to be contacted in the event of an emergency are provided in Table 1 below.

Table 1 - Emergency Contacts

Name	Organisation	Contact Number
Environment Agency	Regulator	0800 80 70 60
SUEZ 24-hour emergency number	SUEZ	0800 064 8887
Andrew Jones (EIR Manager)		07974 233023
Christine Roos (Production Operations Manager)		07971 147404
Craig Mouatt (Processing Contract Manager)		07816 306066

1.3 Accident Risk Assessment

1.3.1 The risk is determined by the probability of an accident occurring and the likely consequences of any impact. The assessment of risk considers the residual risk that remains after implementation of the preventative measures.

1.3.2 Risk assessment definitions and the risk estimation matrix are presented in Appendix A.

1.3.3 Control measures to mitigate potential accidents within SUEZ's control are listed within Table 2.

1.4 Accident Investigation

1.4.1 IMS – Accident Investigation and Reporting, describes the methods for reporting, recording and investigating accidents and near misses (including the forms required).

1.4.2 All accidents shall be reported and recorded in a timely manner and shall be investigated as soon as practicable, which may include an Incident Review Panel, dependant on the severity of the incident.

1.4.3 Investigation findings shall be recorded and preventative measures, where identified, shall be implemented as soon as practicable.

Table 2 - Accident Prevention and Management Assessment

Accident	Avoidance Measures	Impact Minimisation Measures	Likelihood Rating	Consequence Rating	Risk Rating
Spillage of oil, fuel or hydraulic fluid from plant colliding with infrastructure, mechanical failure, leak during refuelling / maintenance or leak from storage containers.	Siting of fuel storage tanks located to reduce possibility of impacts from vehicles. The fuel oil storage facility onsite is fully bunded in compliance with the control of Pollution (Oil Storage) (England) Regulations 2001 and are located on impermeable surface, with vehicle impact protection. All other fuel/oil storage on site takes place in accordance with relevant legislation and in suitably bunded containers. Daily inspection of oil/fuel/waste containers. Plant and equipment only operated by suitably trained personnel. Inspection of plant and equipment prior to use and defect reporting procedure. Preventative maintenance schedules for all fixed and mobile plant. Ongoing site inspection and corrective action procedure. Waste vehicle drivers are required to sign for a copy of the site specific procedures and must comply with SUEZ's operational practices whilst on site.	The site is provided with impermeable concrete surfaces to prevent the transmission of potentially contaminated liquids into groundwater beneath the site. Any bunding to be kept clear of accumulating liquids to ensure capacity of containment systems is maintained. Spill kits provided at suitable locations around site, with staff trained in their use. These include drain mats to allow spills to be retained on the impermeable surface. The site benefits from a surface water and a foul and sealed water drainage system. The main building along with the bale storage area benefit from a sealed drainage system. Any water within the building and storage area will drain to two underground tanks located within the site yard area. The vehicle wash bay will also drain to these tanks. Water collected within the sealed drainage system will be pumped out and tankered off site for suitable disposal. A Surface water drainage system serves the site. Surface water flows into 3 ground infiltration features. The system is equipped with penstock valves to allow	Low	Medium - pollution of local water courses, groundwater and aquifers	Medium

Accident	Avoidance Measures	Impact Minimisation Measures	Likelihood Rating	Consequence Rating	Risk Rating
		any contamination to be contained in the event of an incident.			
Vandalism to fuel or waste storage infrastructure	CCTV, site security, fencing and gates are installed to discourage unauthorised access to the site. IMS procedures include a daily requirement to check the condition of the security measures and take appropriate remedial action in the event of any damage.	As above In the even to an out of hours alarm, a third party security company will monitor and respond.	Very Low	Medium - pollution of local water courses, groundwater and aquifers	Low
Fire	Site security measures are in place to prevent unauthorised access to the site. A fire watch is carried out at the end of daily operations. Waste acceptance measures are in place as detailed in the Operations Management Plan (Document reference 1.2). Stockpiles are managed in line with the Operations Management Plan (Document reference 1.2) and the Fire Prevention Plan (Document reference 1.6). Mobile plant is parked externally. Vehicles and plant are stored away from stockpiles of material when not in use as a precaution against electrical fire. Smoking areas enforced on site. Regular cleaning implemented on site. Regular maintenance of plant and electrical installation	Full details are in Fire Prevention Plan (Document reference 1.6). The site benefits from CCTV and a Thermal imaging system which is monitored externally during out of hours. Regular checks of fire safety equipment are carried out as per the IMS. Fire fighting equipment is located at strategic locations. Site equipped with sprinkler system. A number of Fire Hydrants are in place at the site Stockpiles of combustible materials are kept at volumes below the maximum stockpile size outlined in the EA fire prevention plan guidance.	Medium	High	High

Accident	Avoidance Measures	Impact Minimisation Measures	Likelihood Rating	Consequence Rating	Risk Rating
	Hot works carried out under PtW system.	Stockpiles are separated by a 6m gap or a partition and concrete impermeable surfacing to act as a fire break and prevent the spread of fire from one stockpile to another.			
Flooding	See Climate Change Risk Assessment and Business Contingency and Continuity Plan	A Climate Change Risk Assessment (Document reference 1.8) is in place for the facility	Low	Low	Low
Enforced shutdown	See Business Contingency and Continuity Plan	Business Contingency & Continuity Plan (Document reference 1.5) in place - ability to divert and remove waste to other nearby facilities at short notice	Low	Low	Low

Appendix A – Probability and Consequence Assessment Definitions

Accident: An unplanned event which may cause harm or potential harm to an environmental receptor

Probability: Probability of exposure is the likelihood of the receptors being exposed to the hazard

Probability	Definition
High (H)	High – exposure is probable: direct exposure likely with no / few barriers between hazard source and receptor.
Medium (M)	Medium – exposure is fairly probable: feasible exposure possible - barriers to exposure less controllable.
Low (L)	Low – exposure is unlikely: several barriers exist between hazards source and receptors to mitigate against exposure.
Very Low (VL)	Very Low – exposure is very unlikely: effective, multiple barriers in place to mitigate against exposure.

Consequence: The adverse effects or impacts of a hazard being realised upon a receptor:

Consequence	Definition
High (H)	Possible irreparable damage to environmental resources
Medium (M)	Possible damage to environmental resources which are limited within a regional context
Low (L)	Possible effects might be transient damage to environmental resources which are commonplace on a regional basis and alternative resources are readily available
Very Low (VL)	The effects are negligible or might cause very slight temporary deterioration in the current environmental resource quality.

Risk Estimation Matrix

Risk: A combination of the probability, or frequency, of occurrence of a defined accident and the consequence and magnitude of impact. The general High (H), Medium (M), Low (L) and Very Low (VL) ratings listed in Table 3, are for use as a guide only based on:

Table 3 - Risk Estimation Matrix

Matrix for the Estimation of the Risk				
	Consequence			
Probability of the Risk	High	Medium	Low	Very Low
High	High	High	Medium	Low
Medium	High	Medium	Medium	Low
Low	Medium	Medium	Low	Low
Very Low	Low	Low	Low	Low