

Accident Management Plan

Issue 06

Produced for **Biowise**

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Willerby IVC Facility





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Author:	Tom Broderick	
Reviewer	Ben Brown	

Version No.	Date	Description of change
01	22/08/2014	Initial plan
02	15/02/2015	Amended for submission of permit variation to include ASP
03	28/03/2017	Amended following management review
04	07/03/2019	Update contact details following staff changes
05	12/11/2019	Contact details amended following management review
06	03/11/2020	Reviewed for submission of permit variation to increase capacity

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1.0 EMERGENCY CONTACTS

1.1 Site location Details

Company: Biowise Ltd
Access via: Albion Lane
Office Phone: 01482 325221
Site Mobile Phone: 07733 962999 (General Manager)

Site Grid Reference: 500500, 431896 (IVC Facility)
Site Grid Reference: 501172, 431336 (OWC, ASP, Wood and Soils)

1.2 Emergency Contacts

Emergency Services: 999
Local Police: 101
Environment Agency Hotline: 0370 8506506
Health and Safety Executive: 0345 3009923
Electricity Supplier: Northern Power Networks: 105
Local Authority: East Riding of Yorkshire Council: 01482 393939
Waste Disposal Contractor: Wastewise Ltd
Gas Supplier: N/A
Sewerage Undertaker: Clearway: 01482 873434
Fuel Supplier: Carlton Fuels: 01132 230 211
NWF: 0800 0289977
Rix Petroleum: 0800 5424207
Watson Fuels: 01507 606498

1.3 Out of Hours

Site Manager: John Lister
General Manager: Steve Wardell
Company Director: James Landau

2.0 ACCIDENT MANAGEMENT PLAN

Development of this Accident Management Plan has been made in line with the requirements set out in Section 2.8 of S5.06. For accident management, there are three particular components:

- identification of the hazards posed by the installation/activity;
- assessment of the risks (hazard x probability) of accidents and their possible consequences; and
- implementation of measures to reduce the risks of accidents, and contingency plans for any accidents that do occur.

2.1 Identified Hazards

The following hazards have been identified for the proposed facility requiring assessment and management:

- fires arising from storage of compost and fuel
- fire arising from storage of wood
- breach of site secondary containment
- failure of leachate system
- failure of site infrastructure
- site security failures/vandalism
- failure of mains services
- impact of bioaerosols leaving site

The following hazards are to be read in conjunction with the existing site risk assessments and safe systems of work (SSoW).

2.2 Assessment of the Risks

Hazard	Source Frequency	Risk Evaluation	Emission Prediction	Consequences	Risk
Fire from compost, oversize, wood and fuel storage	Rare – limited source of ignition and regular compost monitoring	Toxic and polluting smoke from fuel storage area and compost windrows.	Aerial dispersion to local residents dependant on wind direction.	Potential respiratory harm from toxic smoke.	Low probability of event (due to implementation of fire prevention plan) with high potential consequence.
Breach of site secondary containment	Rare – tanks are bunded or double walled.	Nitrogen rich leachate from tanks.	Surface runoff and infiltration to sensitive groundwater.	Nitrification of surface and groundwater with potential ecological harm.	Low probability of event with a high potential consequence.

Hazard	Source Frequency	Risk Evaluation	Emission Prediction	Consequences	Risk
Failure of leachate transfer system	Rare – IVC leachate system utilising basic pump system with back up components.	Fully enclosed system prevents loss of leachate should transfer system fail.	No direct emission pathway as system fully enclosed.	N/A	Negligible risk as failure of leachate transfer system does not generate a pathway to receptor.
Failure of site infrastructure	Rare – infrastructure regularly maintained.	Leachate from waste materials held on concrete processing areas.	Leachate infiltration to sensitive groundwater beneath the site.	Nitrification of surface and groundwater with potential ecological harm.	Low probability of event with a high potential consequence.
Site security failures / vandalism	Extremely Rare – fully gated facility with CCTV. No history of vandalism on site.	Damage to infrastructure and arson.	See related prediction from infrastructure and fire.	As per emission prediction.	Low risk given no history of vandalism on site.
Failure of main services	Extremely Rare – no history of power failure on site.	Shut down of IVC facility and ASP bays.	Potential odour release from facility as air extraction system is shut down.	Odour release to local sensitive receptors.	Low risk given no history of power failure on site.
Impact of bioaerosols leaving site	Low – bioaerosols generated on site but risk assessment identifies low risk outside of site boundary. No sensitive receptors within 250m of open systems.	Bioaerosols released to sensitive receptor within 250m of site boundary.	Aerial dispersion of bioaerosols to sensitive receptor.	Potential for respiratory harm to sensitive receptor from prolonged exposure.	Low risk given enclosed operations within 250m of receptor.

2.3 Risk Mitigation Measures

Hazard	Equipment at Risk	Preventative Measures	Who to Inform	Monitoring Mitigation	Response Measures	System Procedures
Fire from compost, oversize, wood and fuel storage	Any equipment in vicinity of fire.	Regular monitoring of compost and oversize temperatures to prevent combustion. Wood monitored daily by visual inspection with turning undertaken when necessary. No ignition sources permitted near fuel storage.	Fire Brigade Environment Agency	Temperature monitoring of windrows and compost oversize piles at least weekly. Wood monitored daily by visual inspection.	Raise alarm on site. Ensure personnel evacuated and accounted for away from danger area. If possible to do so safely, switch off all electricity/fuel supplies. Ensure all staff are alerted. Call fire service and other emergency services as required. Inform site management. Post member of staff at site entrance to direct emergency services. Liaise with and follow instructions of emergency team, making them aware of any hazards on site. Prevent fire waters causing pollution on site. Depending on the severity of the fire, site critical equipment may have been damaged and no further reception or processing of waste would be undertaken until agreed with the EA. If equipment will be inoperable for extended periods of time, consideration will be given to the removal of material from site until repairs are effectuated. Record incident.	Management System Fire Prevention Plan Accident Management Plan Site Manager to co-ordinate.

Hazard	Equipment at Risk	Preventative Measures	Who to Inform	Monitoring Mitigation	Response Measures	System Procedures
Breach of site secondary containment	Leachate tanks and fuel storage.	Regular inspection of tanks to review integrity.	Environment Agency	Site checks.	Inform Site Manager upon detection. Try to contain liquids, where possible, with temporary bunds. Inform the EA. Depending on the severity of the breach, site processing areas may be unsuitable for processing waste materials. Reception or processing of waste would not be undertaken until agreed with the EA.	Management System Accident Management Plan Site Manager to co-ordinate.
Failure of leachate transfer system	IVC leachate processing system. Composting pad leachate pump system.	System is remotely accessible with alarms to identify breakdown. Spare parts held on site.	GiCom if required. Environment Agency,	System automatically detects failures.	Identify component failure and replace immediately. Contact GiCom if failure cannot be identified. Inform the EA of failure and proposed timescale to repair. Depending on the severity of the failure and timescale to repair, reception or processing of waste would not be undertaken until agreed with the EA.	Management System Accident Management Plan Site Diary Site Manager to co-ordinate.
Failure of site infrastructure	Concrete pads, ASP bays, IVC building and drainage system.	Infrastructure regularly checked with maintenance programmes.	Environment Agency	Routine daily inspections of integrity.	Inform Site Manager upon detection. Try to contain liquids, where possible, with temporary bunds. Contact GICOM if required Arrange for remedial works to be carried out immediately. Remove any waste materials from area affected by failure. Export waste materials if no on site space available. Inform the EA of failure and proposed timescale to repair. Depending on the severity of the failure and timescale to repair, reception or processing of waste would not be	Management System Accident Management Plan Site Diary Site Manager to co-ordinate.

Hazard	Equipment at Risk	Preventative Measures	Who to Inform	Monitoring Mitigation	Response Measures	System Procedures
					undertaken until agreed with the EA.	
Site security failures / vandalism	All	Fully locked entrance gates and on site CCTV.	Police Environment Agency (if leading to pollution incident).	Daily lock up at end of each working day.	Assess damage and mitigate any damage / pollution caused (follow fire plan). Inform site management. Inform Police. Inform EA if required. Record incident.	Management System Accident Management Plan Site Diary Site Manager to co-ordinate.
Failure of mains services	IVC facility and ASP bays.	Plans of service runs consulted prior to any earthworks starting.	Service provider. Environment Agency.	N/A	Inform service provider to identify cause and restore service immediately. Cease all operations within the IVC/ASP facility. Depending on the timescale to repair, reception of waste would not be undertaken until agreed with the EA.	Management System Accident Management Plan Site Manager to co-ordinate.
Impact of bioaerosols leaving site	Biofilter	Biofilter routinely monitored within IVC facility.	GiCom. Environment Agency. Local sensitive receptor.	Temperature, moisture and backpressure monitored within the GiCom system.	Upon biofilter media requiring replacement, process air diverted to other biofilters. Biofilter media removed and replaced immediately. Inform EA of biofilter media replacement requirement. Depending on the timescale to replace and the number of biofilter failures, reception of waste and operations would not be undertaken until agreed with the EA.	Odour Management Plan Accident Management Plan Site Manager to co-ordinate.

2.4 Implementation

The site has implemented a full Accident Management Plan detailing potential accident and emergency situations that could occur on site, control measures to minimise potential occurrence and procedures to be followed should accidents occur on site.

2.5 Fugitive Releases

The site has a full Fugitive Emissions Management Plan (BIO08) reviewed on a yearly basis, or as necessary, as identified by the processes installed within the management plan.

WRM Limited
18 Manor Square, Otley, LS21 3AY

Tel: 01943 468138

Email: info@wrm-ltd.co.uk Web: www.wrm-ltd.co.uk

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