

Environmental Management Plan

Site Name	Boston WRC
Site Address	Boston Water Recycling Centre, Scalp Road, Boston, Lincolnshire, PE21 0SH. NGR: TF 35512 41098
Short Code / Ref No.	BOSTST
Catchment	

This is a controlled template and should not be altered unless authorised.

The content of this document should be reviewed and signed off by the relevant managers on an annual basis and audited on a biennial basis by the business unit auditors. [C] [A]

Name	Position	Created / Reviewed	Date
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Tim Hoult/Steve Webb	Treatment Manager	Reviewed	19/05/2022
Steve Webb	Treatment Manager	Reviewed	28/02/2024
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Introduction

This document has been designed to cover the Plan, Do, Check, Act methodology used in all Management Systems.

PDCA is the founding principle of this document and therefore the references throughout are in relation to these definitions:

P – Plan – what is the situation, what do we need to achieve and how are we to achieve it?

D – Do – what are the controls in place to ensure that we do our everyday actions without impacting the environment in this area?

C – Check – how do we check that these controls are working and how do we report when they are not?

A – Act – what is the escalation process/review process when things are checked and seen to be not performing?

1 Site Information

1.1 Site Description [P]

Site Address: Boston Water Recycling Centre, Scalp Road, Boston, PE21 0SH. NGR: TF 35512 41098

Boston WRC serves a population equivalent of 50,000 and receives flow from a catchment area of Boston and surrounding areas.

Boston imports sludges from water treatment works and water recycling centres for treatment, and raw and digested cake for storage.

The main sewage treatment consists of 3 x Primary settlement tanks, 12 x filters, 6x humus tanks. Sludge treatment consists of 6x sludge plate presses for dewatering , 4x Strain presses for screening removal. 1 x Imported sludge tank , 2 x Sludge storage tanks for a mix of import and indigenous sludges and 2 x conditioning tanks for press feed.

The permit boundary for the waste permit is the inlet to the works and cake storage area, where treated cake is imported from nearby STCs, prior to being taken to land for recycling to agriculture.

Boston Location:



Boston Site Layout:



Site is located in a predominately rural location with limited neighbours. There are buildings nearby on Scalp Road to the south east of the site. The closest buildings are over 250m away from the cake pad at the closest point.

1.2 Permits / Permissions / Licences [D]

This table highlights the permits, exemptions and licences that relate to the sites operation and its impact on the environment:

Ref No.	Description	Regulation	Location held
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AN/AW3TS514	Discharge permit	Water	Sharepoint
TBC	Waste permit	EPR – Waste	Sharepoint

1.3 Permit conditions

Issue	Reporting Conditions	Who
Waste permit	Quarterly returns	WROL provide data, site manager to complete return



Contact information

2.1 Operational Contacts [P] [D]

Area Treatment Manager	Claire Hickey	07801674699
Treatment Manager	Steve Webb	07740 072234
Optimiser	Lee Daynes	07736175758
Optimiser	Steve Scott	07736175766
Works Tech	Gavin Marshall	07738502836
OMC	Duty Manager	08450703446

2.2 Emergency Contacts [P] [D]

OMC Operational Control Manager	08450 703446
EA Incident hotline	0800 80 70 60

3 Risks and mitigations

3.1 Risk Identification [P]

An Environmental Risk Assessment was completed as part of the generation of this plan and can be found appended to this document when printed and as an independent document on Sharepoint.

3.2 Risk Mitigation [P] [D]

There will be regular visits to ensure cake is contained within the bay. This is coordinated by the Recycling and Environment Compliance Manager.

More detail regarding other mitigation measures are in the environmental risk assessment

3.2.1 Spill control

Reference WWS – PRO – 8.13

- All Fuel tanks on site are bunded. Poly is stored in bags on pallets.
- Spill control equipment includes absorbent pads, absorbent granules and booms which are located on vehicles using the cake pad
- All on site drainage returns to the inlet works

3.2.2 Reporting an incident

- An Odour Management Plan is not in place as part of this permit application. The site has not had a history of odour issues since liming was stopped several years ago.
- All odour complaints will be reported to the OMC, passed on to site, and any proven to be associated with the cake storage area will be passed on to the Site Manager to resolve with consultation from the Recycling & Environmental Compliance Manager.

3.2.3 Damage to a habitat

- There's no reason to be off road on site.
- No tree or hedge works will take place during the bird breeding season from 1st March to 31st July unless there is a significant safety risk. It is an offence to destroy the nest of any wild bird so this needs to be a consideration at all times of year.

3.3 Specific Plans

Each site has a comprehensive library of documents that support the efficient and successful operation of the site. This plan is not going to detail those plans but direct the reader to the locations of the plans.

3.3.1 Odour

There is no history of odour issues at this site in the last 4 years.

4 Site Management [D]

This section looks at the management of site to minimise impact to the environment.

4.1 Waste Management

Waste management is a highly regulated activity and as a site we have regulatory obligations with regards importing and treating waste as well as the standard Duty of Care obligations. This section looks at those obligations

Relevant members of the Water Recycling site team and Quality and Environment team are enrolled and trained on the CMS course (Competency Management System) to demonstrate technical competence. The records for staff training are held on a computer system, Workday, and Sharepoint.

Raw cake is imported to site and stored on a cake pad before going to a AWS sludge treatment centre for treatment. Raw cake is stored in a separate bay to other wastes for segregation.

Digested cake is imported from other AWS sites after going through a treatment process as detailed in the relevant site's HACCP plan. All cake is compliant with BAS (biosolids assurance scheme). Any requirements for quarantining stock is detailed in the HACCP plan. Sampling is done at the relevant treatment site, not at Boston WRC.

The cake pads at Boston have sealed concrete walls around the sides and back, and concrete lego blocks separate the stocks into bays. There is 1 large pad at the north of the site and 1 smaller pad in the middle of the site.

The only handling of the waste is done by the excavators, operated by WROL/contractor's technically competent people.

The CE Circular Economy Recycling and Environmental Compliance Team inspect the site at regular intervals. In addition there is a framework of AW employees and contractors (drivers) who will monitor cake stocks and flag

any potential compliance issues to the Recycling and Environmental Compliance Team as needed.

4.1.1 Identification of wastes [P]

The activities on this site import and/or generate a wide range of wastes:

Waste Code	Description of waste	AW Description
19 02 06	sludges from physico/chemical treatment other than those mentioned in 19 02 05	Raw cake
19 06 06	digestate from anaerobic treatment of animal and vegetable waste	Digested cake
19 08 01	Screenings	Screenings
19 08 02	Grit	Grit
19 08 05	Sludges from treatment of urban waste water	Sludge / raw cake
19 08 09	Grease and oil mixture from oil/water separation containing only edible oil and fats	
19 09 02	Sludges from water clarification	Iron sludges
19 09 03	Sludge from decarbonation	
19 09 06	Solutions and sludges from regeneration of ion exchangers	
20 03 06	Waste from sewage cleaning	

4.1.2 Management of contractors exporting waste [D]

Anglian Water has various waste streams removed from the permitted area of the site. These are managed and controlled in the following manner:

EWC Code	EWC Description	Carrier	Broker	Disposal Route
19 06 06	Digestate from anaerobic treatment of animal and vegetable	Anglian Water and approved sub-contractors	WROL	Recycled to land

	waste (sewage sludge only).			
19 02 06	Sludges from physico-chemical treatment other than those mentioned in 19 02 05 (sewage sludge only).			Transported to AW sludge treatment centres or other licenced waste facilities
19 08 05	Sludges from treatment of urban waste water			Transported to AW sludge treatment centres

AWS manage the distribution of digested cake from site to agricultural stakeholders and movements of raw cake between AWS sites. This is undertaken by WROL and their approved sub-contractors, all of whom supply their duty of care documents prior to working on site.

Copies of the Waste Transfer Notes and Consignment Notes for these waste movements (skips and the like) can be found in either the local Admin office or the WROL / CE RES office. Wastes that are disposed of to land by WROL and Biosolids have comprehensive records held by WROL / CE and Biosolids and can be obtained from The Biosolids office in Cambridge.

Screenings (19 08 01) and Grit (19 08 02) are exported from the site by a 3rd party contractor.

4.1.3 Management of importing waste

Waste is imported to this site as part of the waste operations.

This site regularly accepts transfers of AW waste falling under the classifications:

- 19 02 06
- 19 06 06
- 19 08 05
- 19 09 02

4.2 Monitoring Procedures

The site is visited regularly by WROL / CE. Inspection will cover level of cake stock, condition of the cake pad, walls, gullies, and on-site odour. The inspections are logged on the M2i app and circulated to relevant parties internally. Any actions are logged on a spreadsheet and reviewed at the CMFG meetings (Compliance Monitoring Focus Group).

WROL / CE have a written management system which is held online. This details management of stocks on AW sites, inspection process, records, escalation of issues.

5 Other Management Plans

Management plan/procedures:

- **Accidents** – The Management of Accidents and Near Misses procedure is held centrally by the company (Sharepoint). Individual's responsibilities are details in the plan. Depending on the severity, it may be referred to HSE advisor team.
- **Contingencies** – Issues on site would be reported by the site operator and dealt with locally, otherwise will be upgraded to the site manager who has will assess the appropriate route for the specific situation/asset.
- **Odour management** – An odour management plan is only created when there are odour complaints. There are no odour complaints to report.
- **Dust** – This is not seen to be an issue on site. This will be controlled if it became an issue in the future.
- **Pests**– This is controlled through a 3rd party contractor as needed
- **Mud** - Not seen to be an issue on site. This would be controlled if it became an issue in the future. Cake pad is at the back of the site and one in the middle of the site.
- **Bio-aerosols** – Site is rural with agricultural land surrounding the site. This is not known to be an issue.

6 Biodiversity

Biodiversity is important to Anglian Water and as part of this focus we are expanding our knowledge and understanding of the biodiversity on our sites.

6.1 This Site [P]

The biodiversity on this site has not been surveyed whilst Anglian Water has been in ownership.

- No tree of hedge works during the bird breeding season from 1st March to 31st July unless required for safety reasons. Some birds, such as wood pigeon, will nest outside of this period. It is an

offence to destroy the nest of any wild bird so this needs to be a consideration at all times of year.

6.2 Active biodiversity

All AW personnel are encouraged to act as the “eyes and ears” of the company and report any species that they see that has not previously been identified on the site. Any species recorded on site should be sent to biodiversity@anglianwater.co.uk Here the surveys will be looked at and used to inform company decisions and so that the biodiversity team can provide support to the site.

6.3 Rules for biodiversity

There are some general rules which have been developed for operation on sites:

- Do not drive on the grassed areas unless specifically authorised to do so.
- Report all damage to trees and habitats caused on site.
- Follow the “Golden Rules” of conservation available on Lighthouse.

6.4 Climate Change

- A climate risk assessment has been carried out for site, please see the document.
- Due to where it is situated, Boston would not be at risk of rising sea levels
- Although temperature changes on site could affect odours, this would constantly be monitored