


| | | |
|--|--|--|
|  | Wastewater Treatment | Reference: WwP/I/3028/01/03 |
| | Site Specific Instruction (SSI) | Version: 01 Issue date: 17/05/2022 Expiry date: 17/05/2023 |
| | EPR Accident Management Plan Southport WwTW | |
| SSI's are published in UU's Wholesale QA System. If this document is printed please check it is the current version. | | |

1. Purpose

- 1.1 This Site Specific Instruction describes the requirements, procedures and actions to be taken in the event of an environmental accident at Southport WwTW. This plan will support and align with Southport WwTW Environmental Risk Assessment and other key documents forming the management system

2. Scope

- 2.1 Environmental accidents shall cover emissions (including potential emissions) to air, land or water that can to cause harm to the environment.


3. Responsibility

- 3.1 Instruction to be carried out by a trained person designated by the Production Manager.

4. Location of Site

- 4.1 The site is bounded to the East and South by housing and industrial units. To the north and west of the site is Crossens Pool. To the South-East of the site is a playing field, which currently has no official environmental allocation.

| | |
|---|--|
| Nearest Site of Scientific Interest (SSSI) | The nearest SSSI designated habitat is Sefton Coast & Ribble Estuary which are 0.2-0.4km North and West of the installation. |
| Nearest receptor | The closest possible human receptors to the installation are residential properties 50m South West, Treen Close, Exmoor Close, Glencoyne Drive and on Bodmin Avenue. Crossens Way industrial estate 100m East. |
| Closest natural watercourse | Crossens Pool |
| Ground | The installation is situated on a secondary B aquifer with a low vulnerability soil class. |

| | | |
|--|--|--|
|  | Wastewater Treatment | Reference: WwP/I/3028/01/03 |
| | Site Specific Instruction (SSI) | Version: 01 Issue date: 17/05/2022 Expiry date: 17/05/2023 |
| | EPR Accident Management Plan Southport WwTW | |
| SSI's are published in UU's Wholesale QA System. If this document is printed please check it is the current version. | | |

5. Management

- 5.1 UU operates a Quality and Assurance System which is certified against the ISO9001 and ISO14001 standards and which is applicable to the Southport WwTW. The site also operates to UU Health and Safety procedures. All relevant procedures are made available to employees through the company intranet.

6. Acts of vandalism

- 6.1 Malevolent acts like vandalism is included in the site Environment risk assessment (Follow environmental risk assessment in table 1.1)

7. Containment of fire water

- 7.1 Ensure all fire water is returned to the site drainage. The site drainage system is sealed which returns all flows to the head of the treatment works for full treatment in the Primary settlement tanks. This is controlled and monitored through water discharge compliance numerical limits discharging to the water course.

8. Failure of Pressure Vacuum Relief Valves

- 8.1 All digesters have a duty standby PVRV which are exercised and swapped over regularly. To carry this out please follow digester standard operating procedure (SOP) and primary digester site specific instructions (SSI). (Follow links in table 1.1).

9. Failure of main services

- 9.1 Please follow power loss contingency plan available on the Quality Assurance Management systems (Follow links in table 1.1).

10. Operator error


- 10.1 All staff have training roles matrix in place and receive one to one coaching with production managers, SOPs and SSI's all ensure staff are knowledgeable and competent to carry out the role. If operator errors do occur then appropriate action is taken such as re-training, review and update SOPs.

11. Accessibility of control equipment in emergency situations

- 11.1 Follow emergency procedures in the link from table 1.1.

12. Self-combustion

- 12.1 Trained Digester Safety Controllers (DSC) specialise in the management of safe practices to prevent the risks of fire, combustion or explosion and harm

| | | |
|--|--|--|
|  | Wastewater Treatment | Reference: WWP/I/3028/01/03 |
| | Site Specific Instruction (SSI) | Version: 01 Issue date: 17/05/2022 Expiry date: 17/05/2023 |
| | EPR Accident Management Plan Southport WwTW | |
| SSI's are published in UU's Wholesale QA System. If this document is printed please check it is the current version. | | |

to human health and ensure continuity. The DSC role is given to one of the process staff.

12.2 The DSC must have attended the specialist DSC training, as well as Hazardous area training and should hold a BTEC or equivalent in the operation of wastewater treatment plants. The DSC is trained in the practical and theoretical knowledge of the operation, maintenance and commissioning of potentially explosive atmospheres associated with sewage handling and which includes the installation. Any changes to normal operational procedures within the designated safety zones must be approved by the DSC who approves written authorisations for Safe Systems of Work on sludge digesters and ancillary equipment and ensures that the systems and materials used are compliance with the Codes of Practice.

12.3 In addition the DSC carries out an annual inspection to ensure that the safety requirements set out in the zoning diagrams and documentation are still current. Chemicals must be stored as per the CoSHH data on Chem-watch. Site data sheets available through a designated CoSHH assessor. (Refer to references in table 1.1)

12.4 Given the plant has a comprehensive monitoring, detection, and shutdown system and is manned/monitored 24 hours a day the risks posed by fire are deemed to be sufficiently managed and mitigated.

13. Lightning strike


13.1 Lightning protection is in place on all key assets across the site.

14. Incidents – Roles and responsibilities

14.1 The incident management summary guidance provides the necessary roles and responsibility matrix (Refer to incident manager summary guidance booklet OPMCRESTRG-002, as per link in Table 1.1).


15. Communication with relevant authorities

15.1 Incident management procedures are located on the quality assurance system. This details the incident process, Specific roles, incident scenarios and advice. (Refer to Accident Investigation and Reporting link in table 1.1)


| | | |
|--|--|--|
|  United Utilities Water for the North West | Wastewater Treatment | Reference: WwP/I/3028/01/03 |
| | Site Specific Instruction (SSI) | Version: 01 Issue date: 17/05/2022 Expiry date: 17/05/2023 |
| | EPR Accident Management Plan Southport WwTW | |
| SSI's are published in UU's Wholesale QA System. If this document is printed please check it is the current version. | | |

Key procedures and documents required for the effective management of environmental accidents and their locations are;

| Management system | Link |
|---|--|
| Accident Investigation and Reporting | Operational Incident Management Guidance |
| | EPR Waste and Installation Incident Notification and Reporting WwP/S/001/01/14 |
| | Process loss Contingency Plan WwP/I/3028/30/01 |
| | Digester Biogas Emergency Plan WwP/I/3028/17/18 |
| | Digester Purge Plan WwP/I/3028/15/14 |
| | Flood Planning and Response SSI WwP/I/3028/30/03 |
| Risk Assessment | Code of Practice - Installations in Potentially Explosive Atmospheres associated with Water & Wastewater |
| References | Environmental Risk Assessment WwP/F/3028/25/19 |
| | Site P&ID's Biogas and sludge |
| | Site Drainage Plan |
| | DSEAR Zoning Report and plan (Add Southport WwTW to the search bar) |
| | Chemwatch |

| | | |
|--|--|--|
|  United Utilities Water for the North West | Wastewater Treatment | Reference: WwP/I/3028/01/03 |
| | Site Specific Instruction (SSI) | Version: 01 Issue date: 17/05/2022 Expiry date: 17/05/2023 |
| | EPR Accident Management Plan Southport WwTW | |
| SSI's are published in UU's Wholesale QA System. If this document is printed please check it is the current version. | | |

| United Utilities Plc - Southport Wastewater Treatment Works | | | |
|---|--|---|---|
| ENVIRONMENTAL ACCIDENT MANAGEMENT PLAN | | | |
| Likely Causes and Consequences of Environmental Accident | | | |
| Causes | Likely Impact | Management Procedure | Additional assistance |
| Malfunction of the flare stack (i.e. failure to ignite) | Release of surplus biogas to atmosphere | <ul style="list-style-type: none"> Flare stack Isolation WwP/I/3028/17/14 | <ul style="list-style-type: none"> Uniflare ERA Process Safety representative |
| Malfunction of the odour control unit | Release of untreated odour to atmosphere | <ul style="list-style-type: none"> Odour control WwP/I/3028 Odour Management Plan WwP/I/3028/01/05 Activated/Dry Media Odour Control Units SOP | <ul style="list-style-type: none"> Higgins & Hewins Paul Kynerston ERA |
| Release of any biogas – fugitive emission from condensate pot, water seal etc or PRV / PVRV valve (i.e. operating whilst gas holder not full) | Release of surplus biogas to atmosphere | <ul style="list-style-type: none"> Biogas Protective devices WwP/S/001/17/17 Code of Practice - Installations in Potentially Explosive Atmospheres associated with Water & Wastewater | <ul style="list-style-type: none"> Process Safety representative ERA ICC Health & Safety representative |
| Loss of containment of storage tanks (chemical/sludge/oil) caused by structural or control failure | Discharge of untreated sludge or raw materials to surface water. Land/groundwater contamination | <ul style="list-style-type: none"> Disposal of Spillage WP/S/001/22/06? This is WTW SOP awaiting Ww one | <ul style="list-style-type: none"> Environmental Services or other Contract Tanker Service ERA ICC Health & safety representative |
| Fire or increased risk of fire (i.e. oxygen found in biogas) | Fumes, structural damage, control loss | <ul style="list-style-type: none"> Code of Practice - Installations in Potentially Explosive Atmospheres associated with Water & Wastewater Digester Biogas Emergency Plan WwP/I/3028/17/18 | <ul style="list-style-type: none"> Emergency Services Process Safety Representative Health & Safety representative ICC Biogas purging contractors ERA |
| Site security breach | Pollutant emissions to air land or water | <ul style="list-style-type: none"> Security Measures WP/S/001/29/06 | <ul style="list-style-type: none"> Police ICC ERA ICC |

| | | |
|--|--|--|
|  United Utilities Water for the North West | Wastewater Treatment | Reference: WwP/I/3028/01/03 |
| | Site Specific Instruction (SSI) | Version: 01 Issue date: 17/05/2022 Expiry date: 17/05/2023 |
| | EPR Accident Management Plan Southport WwTW | |
| SSI's are published in UU's Wholesale QA System. If this document is printed please check it is the current version. | | |

| CONTACT LIST | |
|--|----------------------------|
| UU Production Manager: Marc Dack | 07798924630 |
| UU Area Business Manager: Simon Holding | 07765003151 |
| UU Environmental Regulatory Advisor (ERA): James Frodsham | 07342714646 |
| UU Integrated Control Centre (ICC) | 03450 726097 |
| UU ICC Duty Manager | 07713 887302 |
| Process Safety Manager: Mark Hughes | 07717 807170 |
| Odour Principle Engineer: Paul Kynaston | 07770 825 086 |
| Customer Liaison Team - Customerrelations servicedrafts@uuplc.co.uk | |
| Stakeholder Management (Corporate Affairs) Jemma Parkinson | 07787 439225 |
| Health and Safety Representative: Graham Dunbar; Jon Lau | 07717 088994; 07827 848020 |
| Waste Services Manager Chris Ingham | 07765 231669 |
| Waste Disposal & Recycling Manager John Lightfoot | 07990 506378 |
| Uniflare - Emergency Contact (Flare maintenance) | 07539 075540 |
| Purge Contractors Various listed in Digester Biogas Emergency Plan WwP/I/3028/17/18 . A copy is available inside the Emergency locker on site. | Various |
| Fire Service | 0161 909 8627 or 999 |
| Police | 0161 872 5050 or 999 |
| Environment Agency – Local Inspector – Adam Blacklock | 020 3025 0378 |
| Environment Agency – Emergency Hotline (24hr) | 0800 80 70 60 |
| Local Council - Sefton | |
| SITE ADDRESS | |
| Southport WwTW, Marine Drive, PR9 9YL Grid Ref: SD 37170 20890 | |
| NOTIFICATION | |
| <p>United Utilities may be required to notify the Environment Agency using a Part A Notification / Schedule 5 form without delay of any accident which has caused, is causing or has the potential to cause significant pollution, as required by Clause 4.3.1 and 4.3.2 of the Environmental Permit.</p> <p>For further information relating to notifications and guidance on scenarios that are reportable and timescales please refer EPR Waste and Installation Incident Notification and Reporting WwP/S/001/01/14 document.</p> <ul style="list-style-type: none"> • During 8am and 4pm Monday to Friday contact your local ERA in the first instance. • Outside of these hours and Bank Holidays please contact ICC. <p>Please include your local ERA in email correspondence or waste compliance mailbox.</p> | |