

APPENDIX D: WATER MANAGEMENT PLAN

This is an operational document to:

- Identify where there are potential issues with water management and associated risks from regulatory action if they are not identified and controlled properly.
- Identify and explain how each of source of water will be treated to make it safe for disposal via an identified route

- Describe the monitoring regime and who is responsible for ensuring it is completed properly

Site is to hold:

- Full details, (RAMS, regulator and water authority Permits and consents), for each water management activity identified in the Table at Appendix 1 to this document
- Maintenance requirements of key equipment such as settlement tanks, pumps, silt bags
- General site management procedures in place to reduce contaminated water and pollutants reaching the water courses

Further guidance can be found in Activity Standard "Avoiding Pollution"

Insert:

- 1) Map of the site, showing;
 - a. Sources of waste water
 - b. Permanent water receptors ie rivers, drains, ditches, settlement lagoons etc,
 - c. Treatment and pumping locations
 - d. Discharge points

- 2) flood map showing extent of flood plain near site, from regulator online flood maps.

Flood Risk is Low

- 3) All communication with the regulator and Water Authority regarding water management, including requirement for flood defence consent, abstraction permit, discharge permit, trade effluent consent etc.

List every source of water resulting from site activities and how it will be handled and disposed of.

Sources of water	Contaminants eg silt, chemicals, pH, temperature, detergent*	Discharge Route and receptor	Treatment before discharge	Monitoring regime (Site Managers Responsibility)	Regulator permit or consent number/reference
Site and compound area (run off)	Silt, Chemicals (Fuel), Concrete effluent	Surface water discharged into brook via attenuation tank. All other waste into silt buster treatment tanks for pH balancing before discharging into foul water system. Plant nappies used to contain leaks and disposed of using spill kits	Surface water caught In sump/silt trap at penultimate MH Silt buster used to be pH balance concrete and fuel effluent before discharge into foul water system	Regular inspections of sump/silt trap and a check of pH gauge on the silt buster to ensure neutralised before discharging into foul manhole Ensure no punctures in plant nappies	As per EHS-GUI-002 TD documentation

Accommodation waste	Sewage, kitchen waste (Detergent)	Foul water discharged straight into existing foul manhole	N/A	N/A	As per EHS-GUI-002 TD documentation
Dewatering from excavation	Silt, Chemicals	Pump into silt buster/treatment tank for discharge into foul manhole following neutralisation/filtering	filtered using silt buster equipment	Regular inspections to ensure the filters are not blocked	As per EHS-GUI-002 TD documentation

Concrete wash water	Chemicals pH	Wash water discharged into silt buster pH balancing unit, once pH has been neutralised it will be discharged into the foul water system	Neutralised using silt busters neutralisation system with CO ₂	Inspection of pH using built in gauge before discharging into foul water system	As per EHS-GUI-002 TD documentation
Commissioning	Chemicals	Wash water discharged into silt buster pH balancing unit, once pH has been neutralised it will be discharged into the foul water system	Neutralised using silt busters neutralisation system with CO ₃	Inspection of pH using built in gauge before discharging into foul water system	As per EHS-GUI-002 TD documentation