Delivering the Promise

SOAKAWAY ACCESS & MAINTENANCE STATEMENT / RAMS

Project Name	Joseph Norton SEMH School
Contract Number	511277
Project Leader	Matthew Armstrong
Approved By	Dan Miller
Date Approved	27/02/2025

Revision Log

Revision	Comments	Amended By	Approved By
Rev 00	First issue of the document	M Armstrong – Project Lead	D Miller – Operations Director

An Introduction

The following document has been prepared to assist in the discharge of pre-commencement condition number 7 'scheme for foul, surface water and land drainage'.

The condition states that;

'Development shall not commence until a detailed design scheme detailing foul, surface water and land drainage, including the verified infiltration rates undertaken at the locations of the infiltration tanks sized for the critical 1 in 100 + 30% climate change rainfall event, construction details /design, plans and longitudinal sections, hydraulic calculations and phasing of drainage provision has been submitted to and approved in writing by the Local Planning Authority. The scheme shall include a risk assessment and method statement, in accordance with CDM Regulations 2015, for access to and into the infiltration structures, and the scheme shall include a maintenance and management plan for surface water infrastructure. No part of the development shall be occupied until such approved drainage scheme has been provided on the site to serve the development or each agreed phasing of the development and retained thereafter.'

The attached document includes an example Risk Assessment & Method Statement for access into the Soakaway Structure.

How the system works

Rainwater, which has been collected from impermeable surfaces, is directed to the crate structure via a silt trap chamber. As the crate structure fills, water begins to exfiltrate from the tank into the surrounding ground. The crate structure is surrounded with a permeable non-woven geotextile to prevent any ingress of silt to the crate structure. Figure 1 detailed below is a diagram of the proposed soakaway system.

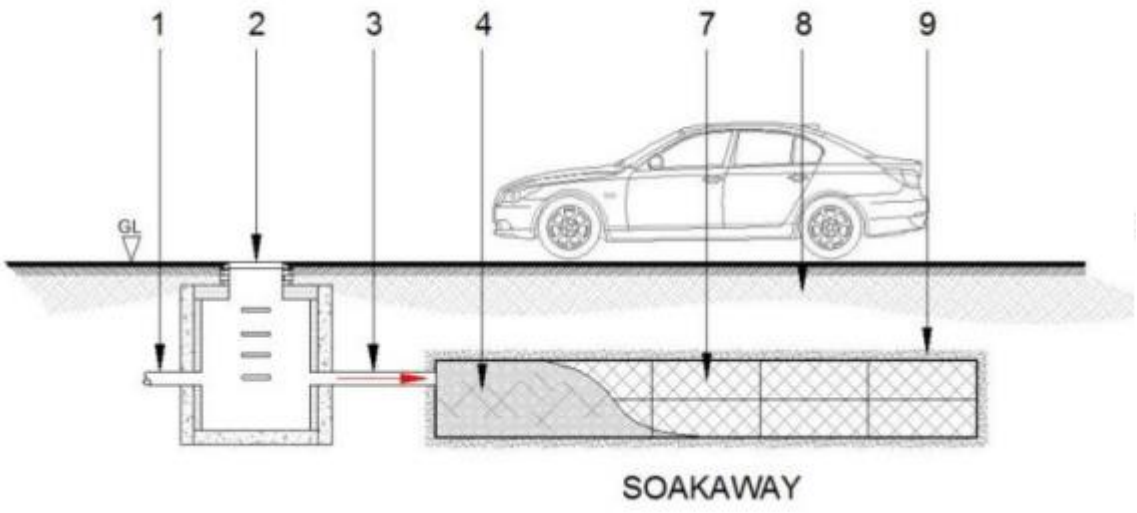

Figure 1 - Soakaway Tank Diagram

1. Inlet to chamber
2. Silt trap chamber
3. Inlet to soakaway
4. Geotextile membrane
5. Geotextile protection fleece
6. Impermeable geomembrane
7. Soakaway crate
8. Minimum cover as required
9. Layer of thick course sand
10. Outlet chamber fitted with flow control device

Access & Maintenance Requirements

The only element of the system which may be required to be accessed by personnel will be the silt trap/inspection chamber. In the appendix below, an example set of RAMS has been included for the access of this element.

Access to the crate structure itself is not required. A series of cut outs within the lateral walls of the crates can be removed. Access to inspection channels can be achieved form from the upstream silt trap. The design of the crate will make it possible to pass a camera through for inspection purposes. The bottom layer of the crates is often inspected as this is where silt build up is likely to occur. Any silt build up can then be 'jetted' with water, fed via the upstream 'silt trap'.

Method statement

Ref no:	001	Rev:	A

Title of method statement:	Soakaway inspection chamber - example method statement		
Contract Name:	Joseph Norton SEMH	Contract Number:	511277
Site Address & Telephone No:	Deighton Road, HG2 1JP	Start Date:	TBC
		Finish Date:	TBC
Location of Works:	Enter soakaway silt trap for access and maintenance requirements		
Scope of Works:	Safely enter each manhole and undertake inspection/maintenance works		

Emergency Contact Numbers	Name:	Contact Number:
Person responsible for Works	Holds 5-day SMSTS	07933589875
Supervisor	Holds 5-day SMSTS	07933589875
Hospital	LGI Great George Street, Leeds West Yorkshire, LS1 3EX	01132432799
First Aider	Holds 3 day first aid	07933589875
Location of first aid box	Site Office	
Gas Emergency Call out	Northern Gas Networks	0800111999
Electricity Emergency Call out	Northern Power Grid	0800668877
Water Emergency Call out	Yorkshire Water	03451242424
BT Open Reach Call out	BT Open Reach	08000232023
Emergency Procedures & Permits Required	A permit for confined space access will be obtained prior to works commencing.	

All relevant risk and COSHH assessments are attached to this document. All operatives who have signed up to this document have read and understood all risks which are associated with job they are undertaking.

Plant:	Plant is to be inspected daily and results of inspections issued to PC weekly.
Equipment:	Hand tools, CAT and Genny, Insulated shovel&Graft Tripod, Winch, Harness, Gas detector 8m Ladder Genny
PPE:	**Safety helmet –** Conform BS EN 397 2012 , exemption, Section 6 of the Deregulation Act 2015 exempts turban-wearing Sikhs from any legal requirement to wear a safety helmet in a workplace, including a construction site. The exemption applies only to head protection and turban-wearing Sikhs should wear other required personal

	protective equipment. This exemption applies to any turban-wearing Sikh eg visitors, employees; there is no such exemption for Sikhs who choose not to wear a turban or for other religious groups, Safety Gloves - BS EN388, Cut 1 for general use, cut 3 for steel fixers, Safety Glasses- Conform BSEN166 Safety Boots inclusive of wellington boots – Conforms to EN 345-1:1992, Hi-Viz vest - BSEN 471 Class 3 and class 2 reflective, flame retardant, FFP 3 dust masks to be used all operatives to undergo face fit testing on specific mask prior to use, where the operatives are not clean shaven a air fed mask will be provided
Temporary Works:	(Is temporary works design required) N/A .
Method of access / Egress:	Access and Egress will be obtained via steps dug in to manhole
Fall protection measures:	(e.g.: Wheel stops / barriers/ harnesses) All Manholes being worked will be fenced prior to the lid being removed, at no point will the area be left without the manhole lid being re-fit.
Lifting operations:	(Required arrangements for lifting) 2 men will be assistance lifting the manhole lids Self-assessments will be undertaken when lifting the recessed lids, when needed a manhole lifting machine will be used to safely lift the manholes.
Monitoring Arrangements:	Health and safety standards will be monitored by the site manager daily Checks will be undertaken of the equipment daily and documented inspection will be undertaken and presented to the client
Environmental Impacts	Noise levels will be kept to a minimum at all time All re-fuelling of small equipment will be undertaken on a plant nappy All fuel on site will be kept in a bunded container the bund will be 110% capacity of the items being stored. Dust suppression will be used on all equipment which has the potential to omit dust when operating. Works will cease whereby the dust suppression working in tandem with the equipment is deemed unsuitable until alternative product is sourced.

(Attach COSHH Assessments)							
Applicable	**N**	**Y**	**N**	**Y**	N	**Y**	**N**
							
Applicable	**N**	**N**					
Risk Assessments: RA001 185 worksConfine spaces rescue plan.			COSHH sheets	NA			

Sequence of Operations:

2-man gang consisting of a Groundworker and Top man will be in attendance for the remedial works, both operatives will be trained in confined spaces Medium risk, level 2 C&G
Prior to works commencing the team will attend a site induction

General

1. Both operatives will be confined spaces trained for the works being undertaken, both will hold Med risk C&G Lvl 2.
2. When access into the manhole is required the manhole cover will be removed and the gas detector will be placed for 15 mins inside prior to entry to measure the gases inside.

Sequence of Works

1. The area will be fenced off with the use of Herras fencing prior to works commencing, this will be double clipped.
2. 2-men will then lift the cover off the frame and place in a safe location.
3. Gas detector placed inside for 15 mins, whilst the measurement of gasses are being undertaken, the tripod and winch will be set up over the manhole
4. The operative entering the manhole will attach on to the winch located on the tripod and access using a ladder.
5. Once access is achieved the operative will inspect the chamber for any blockage
6. The M/H cover will be placed once all the operative are clear and any material which may of fallen in to the manhole removed.

Refer to attached 'rescue plan' and risk assessment

Signatories
Prepared by: M Armstrong Print: M Armstrong Date: 27.02.25

Reviewed by: Print: Date:
Authorised by: Print: Date:

BRIEFING RECORD

Method statement briefing title: Soakaway Access and Maintenance

Name (Please Print)	Signature	Date	Supervisor undertaking briefing

METHOD STATEMENT RISK ASSESSMENT RECORD OF MINOR CHANGE	MS Ref	
	MS Rev	
	RA Ref	

RECORD OF MINOR CHANGE		
SITE:	CONTRACT REF:	
CLIENT:	START DATE:	

DESCRIPTION / EFFECT		
REQUESTED BY:		
DATE:	TIME:	

Appendix 1 – Silt Trap Access & Maintenance Risk Assessment

Contract title	Joseph Norton SEMH
Contract number	511277
Risk assessment title	Silt Trap Access
Risk assessment no.	001

Activity	Potential hazard	Risk	Post evaluation			Control measures	Post control evaluation	Risk rating		
			Likely hood of injury	Severity	Risk Score		Likely hood of injury	Severity	Risk score	Low Medium High
Hand, Arm, Vibration	Long term problems resulting from uncontrolled use	Disability	3	3	12	Assessment made of tool in use before work commences, All trigger times recorded and operatives to sign trigger times off weekly all records to be kept in site file, Job rotation implemented when necessary.	1	3	3	Low
Works within the manhole	Over come with poisonous gases	Fatality	3	4	12	All personnel to trained in confined spaces entry and hold C&G level 2, Gas Monitor to be calibrated and placed within the manhole for 15 mins prior to entry, operative to attached on the winch whilst works are being undertaken	1	4	4	Low
Working off the ladder to install ladder extensions or step irons	Falls from height	Fatality	3	3	9	Ladders to be placed on level/secure round and secured at the top, tripod winch to be set up over the access point and personnel working off the ladder to be attached on the winch at all times	1	3	3	Low

SEVERITY: **Catastrophe = 5** **Fatality = 4** **Major Injury/Disability = 3** **Minor Injury = 2** **No injury = 1**

PROBABILITY: **Frequent = 5** **Probable = 4** **Occasional = 3** **Possible = 2** **Improbable = 1**

Reviewed By: - M.Armstrong

Date: - 27/02/25

Risk Score	Risk Ranking	Action Required
1-2	Negligible	No further action required
3-6	Low	No additional control measures required. The task should be monitored to ensure procedures are followed
7-11	Medium	Re-evaluate the task and look to impose further control measures, a different way of carrying out the work should be considered or if using a chemical look for alternative products
12-16	High	If the risk is still high after all control measures have been implemented then work is not to proceed. Attempt to either engineer or design out the hazards and look to use alternative methods of operating
17-25	Very High	Work is not to commence until alternative methods are found and the level of risk is reduced

SEVERITY	RISK FACTOR	LIKELIHOOD
Minor Injury	1	Remote - Would not take place in 5 years
Lost time injury/illness	2	Unlikely – Would not take place in 2-3 years
Serious Injury	3	Possible – Would not occur once a year
Death	4	Very likely – Would occur 2 or 3 times per year
Multiple fatality	5	A certainty – Likely to occur at any moment

Appendix 3 – Rescue Method Statement

<table>
<tr><td colspan="4"><u>ON-SITE RESCUE PLAN</u></td></tr>
<tr><td>Confined Space Name:
Soakaway silt trap</td><td colspan="2">Location:
Joseph Norton SEMH</td><td>Date:
TBC</td></tr>
<tr><td colspan="2">Attendant:
TBC
Entry Supervisor: TBC
Top Man: TBC</td><td colspan="2">Employer:
Wates Construction</td></tr>
<tr><td>Confine spaces rescue procedure</td><td colspan="3">All risks of an incident occurring is low due to the control measures put in place from the onset.

It is noted that a Gas Monitor is to be within the excavation at all time monitoring the gases.

It is noted that a ladder platform is to be secured to the shoring system with a ladder securely fastened for access and egress

It is noted that operatives are not to work outside the confines of the shoring system

It is noted that the operative within the excavation must wear a harness at all time in the instance of retrieval is required.

On any incident occurring which involves an operative unable to access out of the excavation the emergency services will be notified immediately

If the operative is involved in a fall then he/she must not be moved but kept safe, due a high risk of back injury, the emergency services will take over the retrieval process once on site, the operative will be wearing a harness at all time to assist if retrieval is required.

An operative may only access the excavation if safe to do so and the Gas monitor is not sounding, should the gas monitor be sounding the operative must not access the excavation until he/she is wearing a mask that supplies oxygen and trained to do so to assess the situation.</td></tr>
<tr><td colspan="4">Methods of Communication:

Attendant to Rescue Personnel must have clear audible communication between the operative within the excavation and the operative at the top of the excavation at all time.</td></tr>
</table>

Methods of Rescue: Hauling System to be set up in form of tripod, winch and harness, and the operatives are attached on to the winch at all times.
Rescue Equipment: Hauling Systems: To be set up over any open manholes that has a cover slab.
Rescue Equipment Inspections Identified rescue equipment inspected by competent worker: **Employer:** TBC **Entry Supervisor:** **Top Man:** **Record of inspection:** Altair gas detector exp - Harness serial number and exp - Tripod exp - Winch exp -
Medical Equipment Requirements (check a where applicable below and indicate quantity needed): First Aid Kit 15 min escape kit
Additional PPE Requirements (Indicate what is needed): High Visibility Vests Safety Boots Hard Hats Safety Glasses/Goggles Gloves Hearing protection and dust mask to be worn for site specific risk.

Description of Space (include location of attendant): • 600x600 opening within a cover slab • Gas monitor to be used at all time whilst in excavation.		
Diagram of Space (Use Back of Page if needed):		
Responsibility and Name	**Signature**	**Date**
Entry Supervisor -		
Top Man:		
Completed by M Armstrong		