

Drainage Management & Maintenance Plan

Unit 6, Gateway 36

Dearne Valley Parkway, Barnsley

Prepared For

EOS Inc. Limited

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Appendices

- Appendix A HJCE Drainage Layout Drawings
- Appendix B Maintenance Schedule

1. Introduction

- 1.1. This report is the property of HJ Consulting Engineers (HJCE) and is produced for the exclusive use of the client, EOS Inc. Limited. The contents may not be made use of by any third party without the express written consent of HJCE. Without such consent HJCE can accept no responsibility to any third party. By receiving this report and acting on it, the client, or any third party relying on it, accepts that no individual is personally liable in contract, tort, or breach of statutory duty (including negligence).
- 1.2. The purpose of this document is to establish the correct procedures to ensure the drainage system continues to function as designed throughout the design life of the development, while providing relative assurance that any work will be undertaken to a satisfactory standard.
- 1.3. Management information provided is based on the drainage design as shown within the drawings included in Appendix A.
- 1.4. All aspects of the drainage system form part of the development, and as such must be maintained throughout the life of the development to ensure continued operation to the specification as designed. This report relates to drainage aspects within the boundaries of Unit 6.
- 1.5. Off-plot infrastructure is to remain privately owned by EOS Inc. Limited and will be their responsibility via an appointed management company.
- 1.6. Drainage conduits are designed to be self-cleansing, where they are not assumed to be utilised as part of the long-term surface water attenuation system. However, regular inspections should still be undertaken, as isolated occurrences of obstructions within the system remain a possibility.
- 1.7. No work on the drainage system will be undertaken without the permission of the nominated persons who have access to information and working knowledge of the system. All operatives working on the system will have had appropriate training for the work.
- 1.8. All work on the system should be preceded by a risk assessment, with the appropriate measures recommended within the assessment undertaken prior to work starting.

- 1.9. Maintenance and inspections will be carried out in a safe manner by competent persons following training on the task to be completed and in accordance with current safe working policies.
- 1.10. Confined work is to be minimised where possible, with any confined operations done so following appropriate training and only when suitably equipped to do so.
- 1.11. Welfare facilities must be available for the purpose of ensuring high levels of hygiene.

2. Drains / Sewers

- 2.1. Maintenance of the piped drainage system includes the following items:
 - 2.1.1. Repair or replacement of pipework or structures in the event of damage occurring, to provide continued operation.
 - 2.1.2. Cleansing and removal of debris, detritus and sediment for the maintenance of the expected hydraulic performance.
 - 2.1.3. Vacuuming and jetting where required, including the removal of rootlets in the case of ingress.
 - 2.1.4. Inspection and maintenance are to be carried out in line with the intervals shown within the maintenance schedule in Appendix B.
- 2.2. Jetting pressures should be limited to the maximum recommended values as prescribed by the original equipment manufacturer.
- 2.3. Effluent and material arising from the cleansing is to be isolated to the area of works and disposed of appropriately.

3. Manholes / Access Chambers

- 3.1. All covers should be lifted, with chambers inspected for debris, damage and indications of blockages elsewhere in the system.
- 3.2. Debris is to be removed from the chamber, and not washed downstream.
- 3.3. Benching should be assessed where damage has occurred. This should be removed from the chamber and appropriate repairs undertaken to return the chamber to the original condition.
- 3.4. Covers and frames are to be inspected for degradation. Connecting bolts should be present, and the haunching in good condition.
- 3.5. Any replacement components of the chamber should be original equipment manufacturer specification only.
- 3.6. Interfacing surfaces are to be cleared of debris and corrosion. Grease to be applied, bolts and seals to be replaced and tightened to specification.

4. Silt Trap Chambers

- 4.1. As denoted on the drainage layout drawings, some chambers have been designated as silt trap chambers. They are intended to collect silt and debris in

specific locations to isolate materials prior to the entering attenuation structures. Treatment of these should be as per other chambers on site, although the clearance of silt may be required more often. Intervals for inspections should be as per the maintenance schedule.

5. Drainage Channels and Kerb Drains

- 5.1. Inspection of these assets should be regular, as the hydraulic performance may be easily impeded by build-up of sediment.
- 5.2. Annual cleaning of the channels and drains is incorporated into the maintenance schedule. Interim inspections and maintenance may be required depending on the environment and end user situation.
- 5.3. Channels and drains should be cleansed by use of proprietary equipment.
- 5.4. The throat of the channel should be kept clear to maintain a continued discharge from the unit.
- 5.5. Seating surfaces are to be cleared, and any corrosion treated; grease applied and covers refitted. Hardware is to be replaced where required and torqued to specification.
- 5.6. Damaged components are to be replaced with original equipment manufacturer parts
- 5.7. Traps are to be cleared of debris regularly to maintain hydraulic performance.
- 5.8. During prolonged dry periods, the traps should be replenished to prevent the release of odours.

6. Road Gullies

- 6.1. Regular inspections and maintenance are necessary to ensure effective operation and ensure they are free of debris and blockages.
- 6.2. Gullies require annual cleansing and is integrated into the maintenance schedule. Extreme weather and prolonged periods of dry weather can lead to build up of sediment more promptly as such interim cleansing will be required.
- 6.3. Gully gratings should be kept clear of debris, ensuring an uninterrupted flow into the gully.

- 6.4. Interfacing areas of the gully grating is to be cleaned prior to being reseated. Locking mechanisms should be engaged to prevent the grating being dislodged.
- 6.5. During prolonged dry periods, the gully should be replenished to prevent the release of odours.

7. Oil Separators

- 7.1. Oil separators are installed on the development with the aim of mitigating the risk of contamination release into the environment. In order to function as intended, maintenance must be adhered to in accordance with the manufacturer's recommendations.
- 7.2. Inspections on the units and the telemetry, along with interim evacuation of the units must be done so in accordance with the maintenance schedule.
- 7.3. Fitted telemetry will indicate when the units require emptying, although inspections should be made at regular intervals as a matter of redundancy.
- 7.4. All work undertaken should be done so by qualified and competent personnel, in accordance with EN858-2:2003 Section 6.
- 7.5. Procedures should be as follows:
 - 7.5.1. Determine sludge/silt volume in upstream catchpits and remove.
 - 7.5.2. Access the depth of accumulated oil and silt in the separator.
 - 7.5.3. Check the condition of any coalescing device and replace as necessary.
 - 7.5.4. Service any electrical equipment, i.e. alarms or management systems.
 - 7.5.5. Physically inspect the integrity of the separator and any mechanical parts.
- 7.6. The contents of the separator should be removed when levels have built up significantly. All waste should be removed, the separator washed down and refilled with clean water.
- 7.7. Specialists in interceptor evacuation should be employed for the work, with caution applied in the event of a contaminant spillage on site.
- 7.8. A survey of the condition of the unit should be carried out every 5 years.
- 7.9. Logs should be recorded of all servicing, emptying and surveying of the unit. Additional records of on-site spillages should be kept. Failure to carry out

inspections and maintenance can lead to the release of pollution into the environment.

8. Funding

- 8.1. On completion of the commissioning of the drainage system, the developer will be responsible for the maintenance and inspection of all assets. Funding as such remains within the scope of the developer's responsibility.
- 8.2. Responsibility of maintenance and inspections may be transferred under agreement via tenancy or sale of the development, in whole or in part.

9. Health and Safety

- 9.1. Employers shall, as far as is reasonably practicable, provide and maintain systems of work that are safe, without unnecessary risk. All systems of work shall be covered, inclusive of above and below ground works.

10. Record History

- 10.1. Site management shall be responsible for the recording and updating of all details prior to maintenance operations. This shall be available for future reference.
- 10.2. Future maintenance works shall be scheduled by site management in accordance with the necessary procedures as set out in the maintenance schedule.
- 10.3. Checks that the work has been performed correctly shall follow any maintenance work on site.

Appendix A

Appendix B

Drainage Asset Maintenance Schedule

Surface
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Maintenance Activity	Drainage Component	Required Action	Typical Frequency
Visual Inspection	Cully, Sump unit, Catch pit / silt trap, Channel drain outlet chamber	Inspect for sediment and debris	Monthly for first year and twice yearly thereafter, after severe storm
	Pipework		Twice yearly
	Oil interceptor		Twice yearly or after severe storm as a minimum, refer to manufacturer guidance. Forecourt interceptor requires emptying after fuel spillage
Litter and Debris Removal	Manhole All sump units (gullies, channel drains and catch pits)	Remove all litter and debris	Twice yearly (spring, start of winter), or after severe storm
Jet Wash	Pipework	High pressure jet-wash any pipe work which has silt accumulation. Care must be taken that any silts within the pipework are not unnecessarily flushed into the attenuation structures (use of bungs and jet-vac of chamber prior to removal of bungs)	Twice yearly, or as required
Sediment Management and Removal	ALL SUDS	Sediment accumulation should be monitored as part of the inspection regime, rate of sediment accumulation noted	Appropriate frequencies determined upon inspection

Inspection	Pipework Manhole	Check if functioning correctly	Once site is fully operational: twice yearly for 1 st year, annually after
Sediment Removal	Bin Yard Gullies	Inspect for build up of sediment and remove as required.	Quarterly for 1 st year, twice yearly after. Refer to manufacturer guidance

Additional notes:

- Any defects (broken/misaligned pipes, root infestation, damage to soakaways, missing parts, etc.) that are identified during inspections/maintenance should be reported back to the property/site owner so that remedial actions can be undertaken promptly to repair these defects.
- SUDs maintenance based on CIRIA 2015 chapter 32 where further information can also be found.
- Refer to manufacturer guidance for maintenance schedules of all proprietary treatment systems.