

John Brown (Strone) Ltd.

Health & Safety Method Statement for Toward Primary School Outfall Extension

1. Description of Work

The work entails extending the existing septic tank outfall by 80m of ductile pipe to the Mean Low Water Springs.

2. Location and Access

The outfall pipe is on the shore side of Toward Primary and at present is some 18m onto the shore.

3. Duration of the Works

3 Weeks

4. Drawings

Harley Haddow's Drawings 301904 -100 Rev C – Proposed Drainage Layout and 301904 -102 - Sea Discharge Pipe Extension Sections

5. Method

- We have a duty to ensure that our operations do not present a danger to the school children and staff, visitors to the school, residents, visitors to the beach and site staff.
 - Prior to starting the works, we have visited the site at low tide and surveyed the route the pipe will take. We have consulted the tide tables to ensure the best times for our operations.
 - Our plant and equipment will be fully inspected serviced and maintained checked for leaks prior to sending to site. All machinery will have daily checks. There will not be any diesel or oils stored on site. All filling of plant will take place in the car park and a spill kit will be available at all times.
 - The plan is to lay ductile iron pipe which will be retained by individual gabion baskets set at 3m centres.
 - No paints or chemicals will be used on the shore.
 - Care must be taken not to disturb nests or to cause animals unnecessary distress.
 - A chemical toilet will be placed in the car park.
- 5.1 We will fence off an area of the car park for the storage of materials.
- 5.2 2 loads of gabion stone will be deposited on the beach verge to allow our plant to access the beach. This will be a small temporary (only during works) gabion stone ramp at beach verge to allow the excavator and dumper access to the beach and will not reach mean high water springs (MHWS).
- 5.3 The ductile pipe and gabion baskets will be delivered and lifted off at the car park
- 5.4 An 8 tonne excavator and 6 tonne dumper will be used for the operations.
- 5.5 Starting at the end of the existing outfall pipe we will carefully clear any obstacles in the path of the pipe(only in the direct line of the proposed outfall). Taking care to cause as little disturbance to the shore line as possible. To allow access for the digger we will need to temporarily move eight stones. All stones will be carefully lifted with slings.

5. Method cont'd

- 5.6 Gabion stone will be deposited in small bundles (approximately 3 m apart). All gabion stone will be used and any surplus removed from site.
- 5.7 The first baskets will be made up and laid out in the correct centres along the pipe line. Enough baskets will be set out to catch 2 lengths of pipe. The baskets will be carefully set into the shingle.
- 5.8 The baskets will be partially filled to the pipe invert level.
- 5.9 2 lengths of pipe will be laid and the baskets completed. The surplus gabion stone will be removed.
- 5.10 Following the tide tables the operation will repeat down the shore until the last penultimate pipe has been laid.
- 5.11 The last pipe will be laid on a gabion stone mattress(2x1mx0.3m) which will be partially dug into the seabed. The pipe will be laid on top of the mattress and a second stone mattress laid on top.
- 5.12 An air test will be carried out on the pipework.
- 5.13 The 11 stones will be lifted back into or close to their original positions.
- 5.14 The beach will be tidied up of all materials.
- 5.15 Th 8 stones will be carefully lifted back into the original positions.
- 5.16 The gabion stone ramp at the carpark\ shoreline will be removed.
- 5.17 Any surplus materials left in the car park site compound area will be carefully gathered up removed off site.

6. Environmental Controls

Every effort will be made to keep noise and pollution levels to a minimum and to ensure that they do not cause a hazard or become a nuisance to others.

Working areas will be tidied as work proceeds and debris arising from the works removed from Site.

7. PPE, First Aid & Emergency Procedures

- (i) PPE All employees will wear protective footwear, Hi-Viz vests and safety helmets at all times whilst on site.
Other PPE such as gloves, eye protection, hearing protection, respiratory protection and protective clothing will be issued and used as required.
- (ii) All operatives will be made aware of first aid and emergency procedures at the site induction on their first arrival.

8. Supervision

All works will be controlled by David Hamilton.

7. Plant Requirements

Operatives will be trained on the plant they are using and will have the appropriate CPCS or NPORs cards.

7.1 Heras Fencing

7.2 Signage

7.3 8 tonne Hitachi 360 degree excavator

7.4 6 tonne Forward tipping dumper