

Construction Method Statement

A pipeline, buried cable, turbine enclosure and tailrace channel will be constructed at the locations detailed in drawing 110014D002.

One of the existing intakes on Harlaw Reservoir will be utilised by the hydro scheme. A screen will be retrofitted to the front of the tower. The Reservoir can be lowered through the other intake to enable access to complete the works. Life floatation devices must be worn whilst working on or near to the intake.

The pipe will be buried where possible and the trench will be excavated by mechanical excavator. In the event of heavy rainfall water will be drained from the trench onto the surrounding land to mitigate against deposition of silt into the watercourse. Where this is not possible, in the last few meters of trench prior to the turbine enclosure, straw bales will be placed to capture the silt as recommended by the CIRIA publication "Control of water pollution from linear construction projects".

The power transmission cable will be armoured and buried below the maximum plough depth. Appropriate warning tape will be laid in the backfill to mitigate against accidental excavation.

The turbine house will be set on a concrete foundation incorporating the tailrace outlet. The enclosure foundation will be excavated and cast before the tailrace channel is excavated in order to prevent cement pollution of the watercourse.

All fuels and oils will be stored in a safe place above the flood level in accordance with SEPA Pollution Prevention Guidelines. All construction equipment will also be stored above the expected flood level.

To minimise the risk of disturbance of protected species a site walk-through will be undertaken each morning before work starts. If species are observed in the area of works then work will be halted until the area is clear. All reasonable effort will be taken not to disturb species during this walk-through.

Prevention/Mitigation Measures

- All operatives will be made aware of the need to protect the watercourse from contamination.
- If possible, the construction will be carried out during the dry summer months.
- The works will be carried out in accordance with the principles within SEPA's Guidelines on Above Ground Oil Storage Tanks, Working in Watercourses and Construction and Demolition Sites (PPG2, PPG5 and PPG6).
- Fuel storage tanks will be stored at least 10m from watercourses and away from areas where collision with vehicles is likely. Areas where deliveries are proposed will be protected with impermeable surfaces and isolated from surface water drainage.
- Fuel will be stored in steel tanks including secondary containment complying with relevant standards.
- The checklist in PPG2 will be used to ensure protection measures are in place.
- Chemicals and oils will be kept in a locked steel container.
- Pollution spill kits will be kept on site. In the event of an incident these will be used. In the event of a spill a temporary bund will be put in place.
- Any soils contaminated will be removed immediately to a suitable landfill site.
- Bins will be provided for debris.
- Geotextile-material silt fences will be installed below excavations to filter suspended solids from runoff.
- When/if pumping, care will be taken in pump sizing. Water will be discharged away from the watercourse and via a straw-bale/geotextile filter to prevent entry of silt into the watercourse.
- Bank restoration will be carried out operating from the bank rather than the watercourse.
- Cementitious material will not be placed in the water.
- Cleaning of tools and shuttering will be carried out in water not draining directly to the watercourse.
- In any event of expected heavy rain, concrete will not be poured. Therefore we do not expect to have any surface runoff from wet concrete sections.

Any cement stored on site will be properly packaged, and any part used bags will be removed at the end of the working day.