

1 SURFACE WATER MANAGEMENT & MONITORING PROPOSALS

Section 15.2.2 of the EIS recommends that proper sedimentation and filtration measures for surface water run-off from construction areas be provided before being discharged into the existing watercourses.

Surface water runoff from the lands and green areas up-gradient of the working area will be conveyed via existing drainage channels where they occur along the route. These channels will be piped under/across the working area to existing outfalls and drains.

Surface water runoff from the temporary working area (including stone road) will be conveyed via a v-ditch. Appropriate sedimentation and filtration management measures will be implemented along the v-ditches and at each of the discharge locations. These include the use of attenuation features (e.g. swales), and filtration measures (e.g. silt traps), which will encourage the sedimentation and filtration of any potential silt. Prior to discharge, the surface water will be passed through further sedimentation or filtration control (e.g. a stone chamber encased in a geotextile) as a final silt control mechanism. It is proposed to discharge surface water runoff from the temporary working area and compounds into adjacent watercourses through a series of discharge locations.

A surface water monitoring programme will be implemented. This will include daily checks, weekly inspections and monthly audits to ensure compliance with the targets set in the Environmental Management Plan. This monitoring programme, which will form part of the EMP, will be subject to consultation with the North Western Regional Fisheries Board and other relevant authorities prior to commencement, and will include an assessment of water quality parameters such as total suspended solids concentrations.

Where water quality is not satisfactory, it will be subjected to further mitigation such as sedimentation and filtration controls (e.g. the use of a geotextile fabric with a smaller micron size as a secondary or tertiary filter) prior to final discharge.

The Environmental Officer will oversee the implementation of the water monitoring programme.