

MARYBANK DEPOT REMEDIATION, STORNOWAY	
Description:	Collection and treatment of contaminated ground water
Form of Contract:	ICE 5 th Edition
Duration:	12 weeks
Contract Value:	£180,000
Client:	Comhairle nan Eilean Siar (Western Isles Council)
Clients Representative:	W A Fairhurst & Partners

The project was initiated to deal with historical contamination of soils and groundwater by fuels and oils in the Council's main Depot in Stornoway.

It first required the installation of filter drains through peat, silt and extremely hard Lewisian Gneiss to intercept contaminated groundwater at rock head. The system collected the groundwater by means of a pumping station, which sent the water through a rising main to a 'dirty water' storage tank. Water was allowed to settle and was treated before being transferred into a 'clean water' storage tank. Following successful testing for contamination and suspended solids the cleaned water was allowed to flow to sewer in accordance with the agreed discharge consent.

Some 500 Tonnes of arisings from the excavations were stockpiled within the waste treatment area and tested for contamination and waste acceptance. Excavated rock was recycled as filter material for the new drains. The drain tracks were reinstated and resurfaced and 3 wells were installed to monitor the groundwater for a two year period.

The project took place in a busy depot with constant pedestrian and vehicular traffic such as buses, skip and bin lorries and vans. Traffic and pedestrian management was carried out in phases to allow unrestricted movement of the council's vehicles while installing various sections of drainage. Most private services were unmarked and unrecorded and that presented numerous challenges to the new drainage.

