

ATTACHMENT F4 – SURFACE WATER MONITORING AND SAMPLING

Details of the surface water monitoring and sampling to be undertaken at the proposed waste recovery facility are provided in Chapter 2, Paragraphs 2.132 to 2.135 of the Environmental Report.

Sampling and testing of surface water is currently undertaken immediately downstream of the existing settlement lagoons beyond the eastern face of the North Quarry and upstream of its discharge to the tributary stream of the Ward River. It is envisaged that sampling and monitoring of this discharge will continue for as long as quarry backfilling activities are underway and for a short time thereafter.

For the duration of quarry backfilling operations, additional surface water sampling and testing will also be undertaken at any temporary surface water features which may either be created or form naturally at low points within the quarry infill area.

Existing monitoring locations are shown in Figure F4-1 and Figure 2-6 of the Environmental Impact Statement.

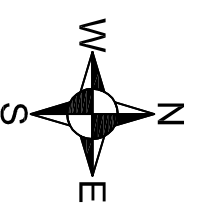
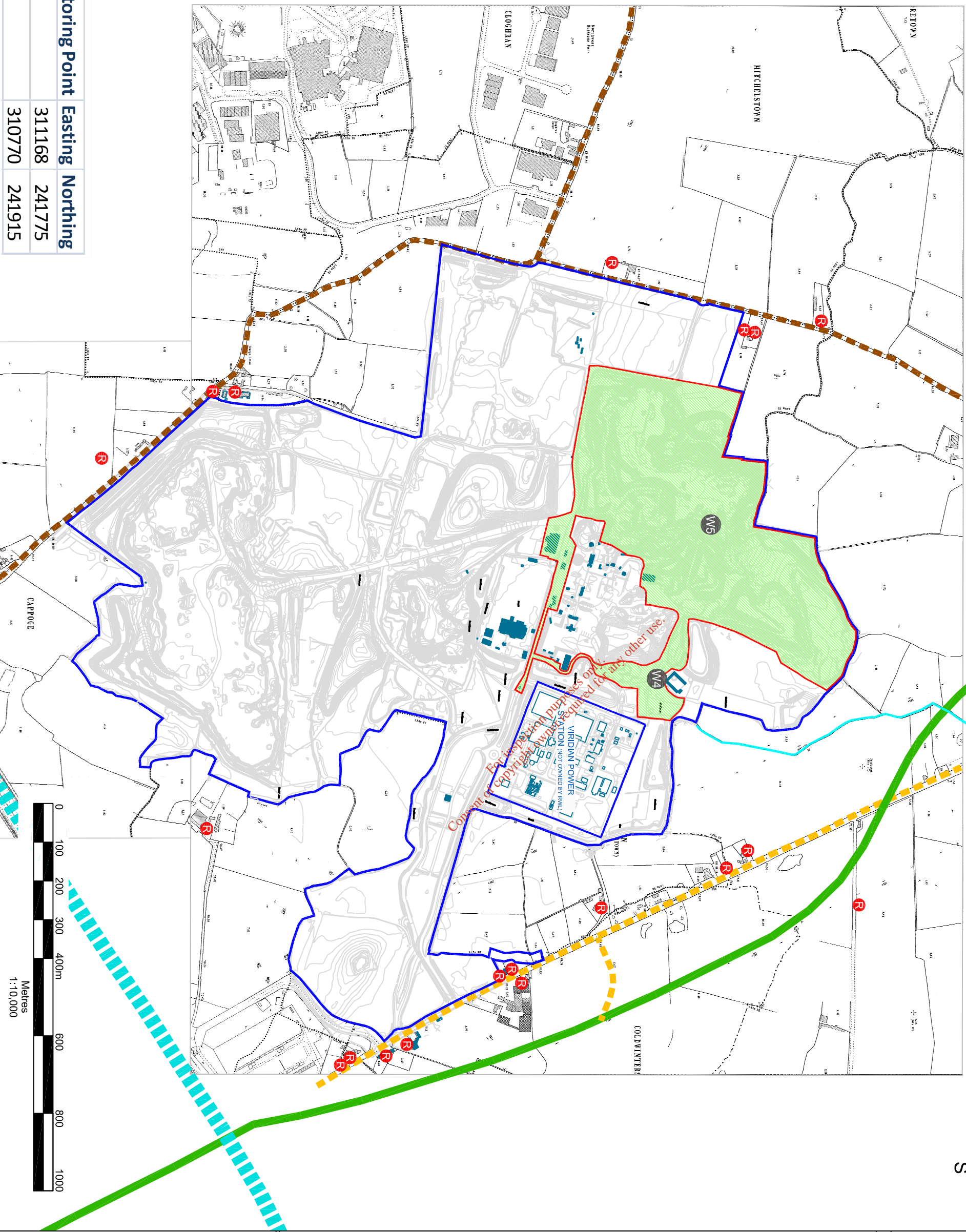
Monitoring Reference No.	Parameter	Monitoring Frequency	Location (Grid Co-ordinates)	Accessibility of Sampling Points
SW4	Note 1	Bi-annually	311168, 241775	Easy – at top of quarry void
SW5	Note 1	Bi-annually	310770, 241915	Easy – sump in quarry floor

Note 1 : Surface water test parameters to include Temperature, pH, Dissolved Oxygen, Conductivity, Sodium, Potassium, Chloride, Ammoniacal Nitrogen, Sulphate, Dissolved Metals (Ca, Cu, Fe, Pb, Mg, Mn, Ni and Zn) and Total Alkalinity

Table F4.1 Surface Water Monitoring Points

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Monitoring Point	Easting	Northing
SW4	311168	241775
SW5	310770	241915



- NOTES**
- EXTRACT FROM 1:2,500 ORDNANCE SURVEY DIGITAL SHEET NOS. 3062-A, 3062-B, 3062-C, 3062-D, 3063-A, 3063-C, 3130-A & 3130-B
 - ORDNANCE SURVEY IRELAND LICENCE NO. SU 0000711 (C) ORDNANCE SURVEY & GOVERNMENT OF IRELAND
 - TOPOGRAPHIC SURVEY PREPARED BY FUGRO BKS BASED ON MAY 2009 AERIAL PHOTOGRAPHY

LEGEND

	ROADSTONE WOOD LTD. LANDHOLDING (c. 201.8 ha)
	WASTE LICENCE APPLICATION AREA (c. 35.9 ha)
	N2 NATIONAL PRIMARY ROUTE (DUAL CARRIAGEWAY)
	NORTH ROAD (R135)
	LOCAL ACCESS ROAD
	M50 MOTORWAY
	LOCATION OF NEAREST RESIDENCES
	PROPOSED SURFACE WATER MONITORING LOCATION

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ROADSTONE WOOD LTD.
 WASTE LICENCE APPLICATION
 WASTE RECOVERY FACILITY,
 HUNTSTOWN QUARRY,
 NORTH ROAD, FINGLAS, DUBLIN 11
 SURFACE WATER MONITORING
 LOCATIONS

FIGURE F4-1

Scale: 1:10,000 @ A3 Date: FEBRUARY 2011