

ATTACHMENT F5 – GROUNDWATER

There are currently 6 No. groundwater monitoring wells installed around the Huntstown Quarry Complex. Of these 3 No. are located in close proximity to the North and West Quarries (GW3, GW4 and GW5), while 3 No others are located to the south and east, at the locations shown in Drawing F5-1.

At the present time, groundwater sampling is undertaken on a quarterly basis. Testing of physical parameters is undertaken on collected samples on a quarterly basis, while testing of chemical parameters is undertaken on either a bi-annual or annual basis (depending on the parameter). Groundwater levels are also recorded on a quarterly basis.

The principle objective of groundwater testing is to assess ground water quality and to confirm that the on-site waste recovery activities are having no detrimental impact on groundwater quality. The groundwater monitoring wells will be monitored for the duration of the quarry backfilling and restoration activities and will also continue for a short duration thereafter, as required by the facility closure and aftercare plan.

Further detail on groundwater quality and testing is presented in Section 6 of the Environmental Impact Statement which accompanies this waste licence review application.

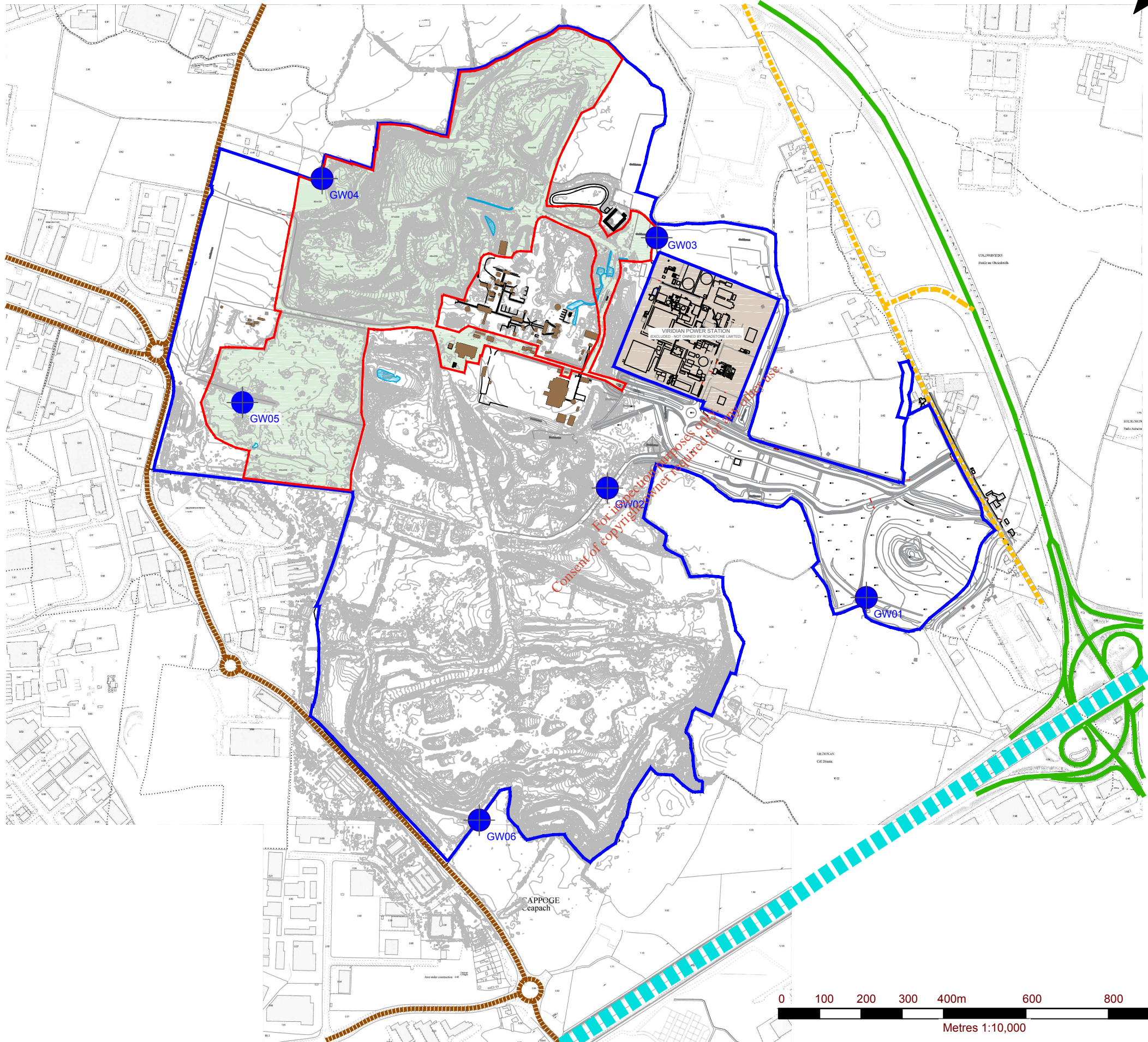
The existing groundwater monitoring locations are identified in Table F5-1 below.

**Table F5-1
Groundwater Monitoring Points**

Monitoring Reference No.	Parameter	Monitoring Frequency	Location (Grid Co-ordinates)	Accessibility of Sampling Points
GW01	Note 2	Bi-annually	711715E 740933N	Easy : open ground
GW02	Note 2	Bi-annually	711087E 741196N	Easy : open ground
GW03	Note 2	Bi-annually	711207E 741803N	Easy : open ground
GW04	Note 2	Bi-annually	710395E 741947N	Easy : open ground
GW05	Note 2	Bi-annually	710203E 740403N	Easy : open ground
GW06	Note 2	Bi-annually	710777E 740391N	Easy : open ground

Note 1 : ITM Co-ordinates

Note 2 : Groundwater test parameters include pH, Conductivity, Ammonia (as N), Orthophosphate (as P), Dissolved Metals (Cd, Cu, Fe, Pb, Mg, Mn, Ni and Zn), Total Dissolved Solids, Total Petroleum Hydrocarbons, Diesel Range Organics, Petrol Range Organics, Total Coliforms and Faecal Coliforms



NOTES
 1. EXTRACT FROM 1:2,500 ORDNANCE SURVEY DIGITAL SHEET NO'S. 3062-A, 3062-B, 3062-C, 3062-D, 3063-A, 3063-C, 3130-A & 3130-B.
 2. ORDNANCE SURVEY IRELAND LICENCE NO. SU 0000716 (C) ORDNANCE SURVEY & GOVERNMENT OF IRELAND

LEGEND

- ROADSTONE LIMITED LAND INTEREST (c. 200.3 ha)
- APPLICATION AREA (c. 48.65 ha)
- N2 DUAL CARRIAGEWAY
- NORTH ROAD (R135)
- LOCAL ROAD
- M50 MOTORWAY
- GROUNDWATER MONITORING WELL LOCATION

LOCATION	EASTING	NORTHING
GW1	711715	740933
GW2	711087	741196
GW3	711207	741803
GW4	710395	741947
GW5	710203	741403
GW6	710777	740391

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 WASTE LICENCE REVIEW APPLICATION
HUNTSTOWN WASTE RECOVERY FACILITY
 NORTH ROAD, FINGLAS, DUBLIN 11
GROUNDWATER MONITORING LOCATIONS

DRAWING F5-1

Scale: 1:10,000 @ A3
 Date: SEPTEMBER 2016