

APPENDICES: CHAPTER 7 – SOILS, GEOLOGY AND HYDROGEOLOGY

APPENDIX 7.1: FIGURES FOR CHAPTER 7: SOILS, GEOLOGY AND HYDROGEOLOGY



Legend

2km Zone of Interest

Indicative Campus Boundary

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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F2	2017-02-10	SR	MF	DM
Issue	Date	By	Chkd	Appd

Kilometers

0

0.1

0.2

0.4

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Client

Health Service Executive

Job Title

The National Maternity Hospital at St. Vincent's University Hospital

Campus Location Map

Scale at A3

1:17,000

Job No	Drawing Status
235754	For Issue
Drawing No	Issue
Figure 7.1	F2



Legend

- 2km Zone of Interest
- Indicative Campus Boundary

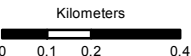
Drift Geology

- Alluvium
- Rock
- Marine Beach Sand
- Tidal Marsh
- Till derived from Granite
- Till Derived from Limestone
- Made Ground

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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Drift Geology

Scale at A3

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Job No	Drawing Status
235754	For Issue

Drawing No	Issue
Figure 7.2	F2



Legend

- 2km Zone of Interest
- Indicative Campus Boundary
- Strike and Dip
- SymLabels100k
- Faults

Bedrock 100k Series

- Dinantian Lower Impure Limestones
- Calp_Dark grey to black limestone & shale
- Type 2p microcline porphyritic_Granite with microcline phenocrysts

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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Bedrock Geology

Scale at A3

1:17,000

Job No	Drawing Status
235754	For Issue

Drawing No	Issue
Figure 7.3	F2



Legend

- 2km Zone of Interest
- Indicative Campus Boundary

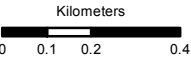
Rockhead Level 10m Countours

- 20 to -40
- 0 to -20
- 20 to 0
- 40 to 20

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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Rockhead contours

Scale at A3
1:17,000

Job No 235754	Drawing Status For Issue
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Drawing No Figure 7.4	Issue F2
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Legend

2km Zone of Interest

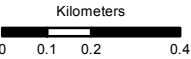
Indicative Campus Boundary

Historical Pits and Quarries

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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Active and Historical Pits and Quarries

Scale at A3

1:17,000

Job No	Drawing Status
235754	For Issue

Drawing No	Issue
Figure 7.5	F2



Legend

2km Zone of Interest

Indicative Campus Boundary

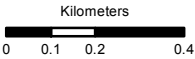
Groundwater Abstraction Wells:
Location of well accurate to
200m of centre of circle

LI - Locally important aquifer.

Source: Esri, DigitalGlobe, GeoEye, Earthstar
Geographics, CNES/Airbus DS, USDA, USGS,
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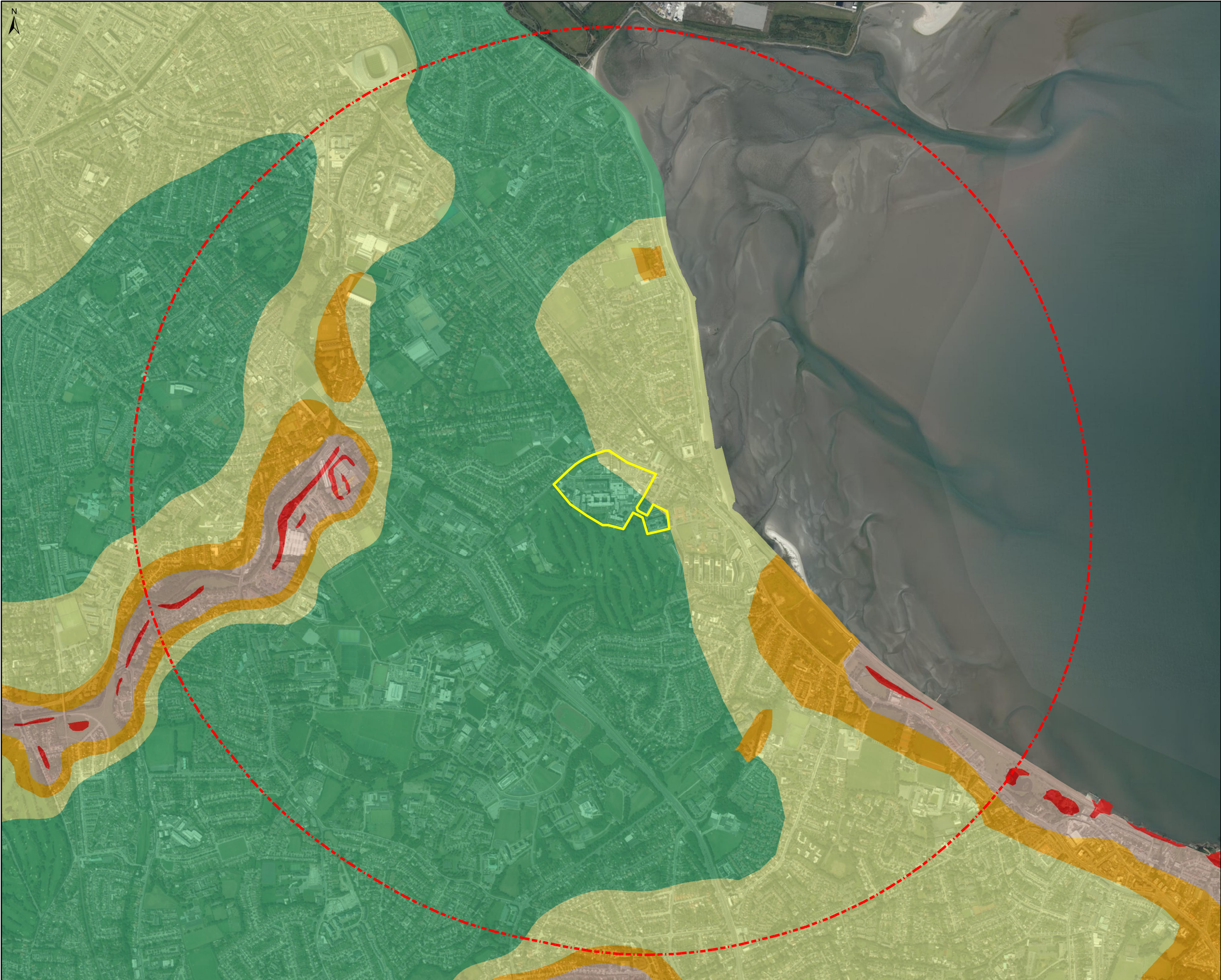
**Bedrock Aquifer and
Ground Water Abstractions**

Scale at A3

1:17,000

Job No 235754	Drawing Status For Issue
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Drawing No Figure 7.6	Issue F2
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Legend

2km Zone of Interest

Indicative Campus Boundary

Aquifer Vulnerability

X - Rock at or near surface or Karst

E - Extreme

H - High

M - Moderate

L - Low

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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Kilometers

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Groundwater Vulnerability

Scale at A3

1:17,000

Job No 235754	Drawing Status For Issue
Drawing No Figure 7.7	Issue F2



Legend

- 2km Zone of Interest
- Indicative Campus Boundary
- Rivers and Streams
- Canal

Groundwater Recharge

Yield (mm/yr)

- 1-50
- 51-100
- 101-150
- 151-200

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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Kilometers

0

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Groundwater Recharge and Rivers & Streams

Scale at A3

1:17,000

Job No	Drawing Status
235754	For Issue

Drawing No	Issue
Figure 7.8	F2



Legend

- Made Ground
- Boulder Clay
- Limestone
- Potential Sand/Gravel Lens
- Groundwater table in Limestone and Boulder Clay
- Perched water table in Made Ground
- Groundwater flow direction (Easterly)
- Elevation in m OD Malin

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Conceptual Site Model

Scale at A3

NTS

Job No

235754

Drawing Status

For Issue

Drawing No

Figure 7.9

Issue

F2

