

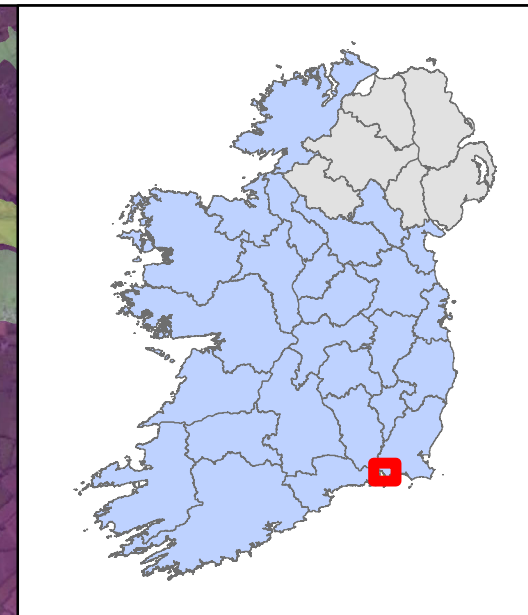
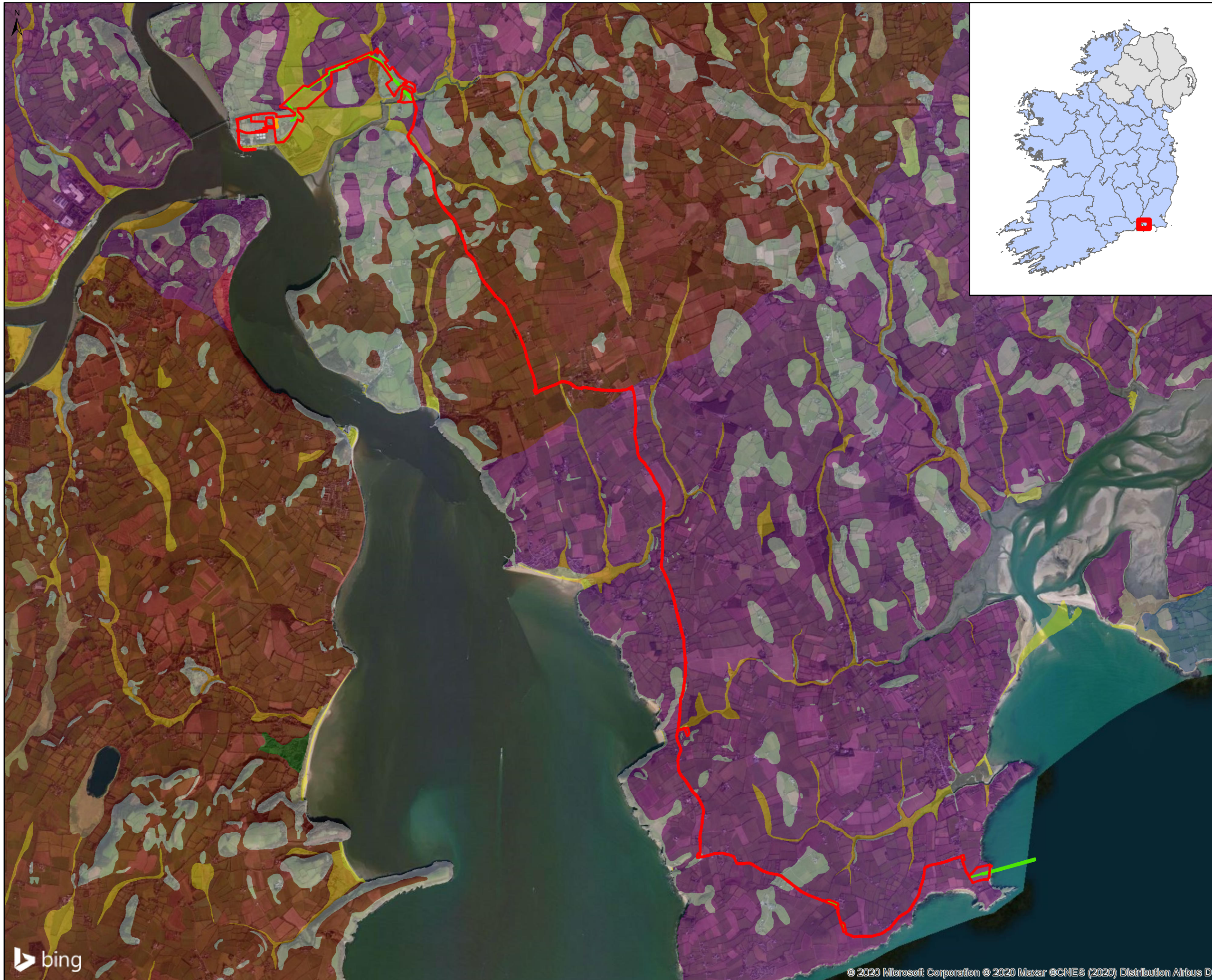
## Appendix 12.2

### Soils, Geology and Hydrogeology Figures









- Legend**
- Red Line Boundary
  - HMDC Cable Route
  - HMDC Cable Route
  - HMDC Cable Route
  - GIS Querying Settings
  - A. Alluvium
  - Clay, Clay over recent peat
  - Embankment
  - Faithful, Fair Peat
  - L. Laminated sandstone
  - MGS, Marine gravel and sands (often raised)
  - MSS, Marine beach sands
  - MSS, Estuarine silts and clays
  - Peat
  - Red, Reddish siltstone or shaly
  - Shale, Shale derived from acidic volcanic rocks
  - Siltstone, Silty derived from Cambrian sandstones and shales
  - Siltstone, Silty derived from Devonian sandstones
  - Siltstone, Silty derived from Lower Palaeozoic shales
  - Tuff, Tuffaceous
  - Water
  - Wet, Wetland sands
  - Wet, Wetland sands and dunes

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**Subsoil Deposits Map  
Regional  
Sheet 2 of 8**

Scale at A3  
**1:55,000**

Kilometers  
0 0.4 0.8 1.6

Job No  
**246369-00**

Drawing Status  
**For Issue**

Drawing No  
**Figure 12.2**

Issue  
**F2**



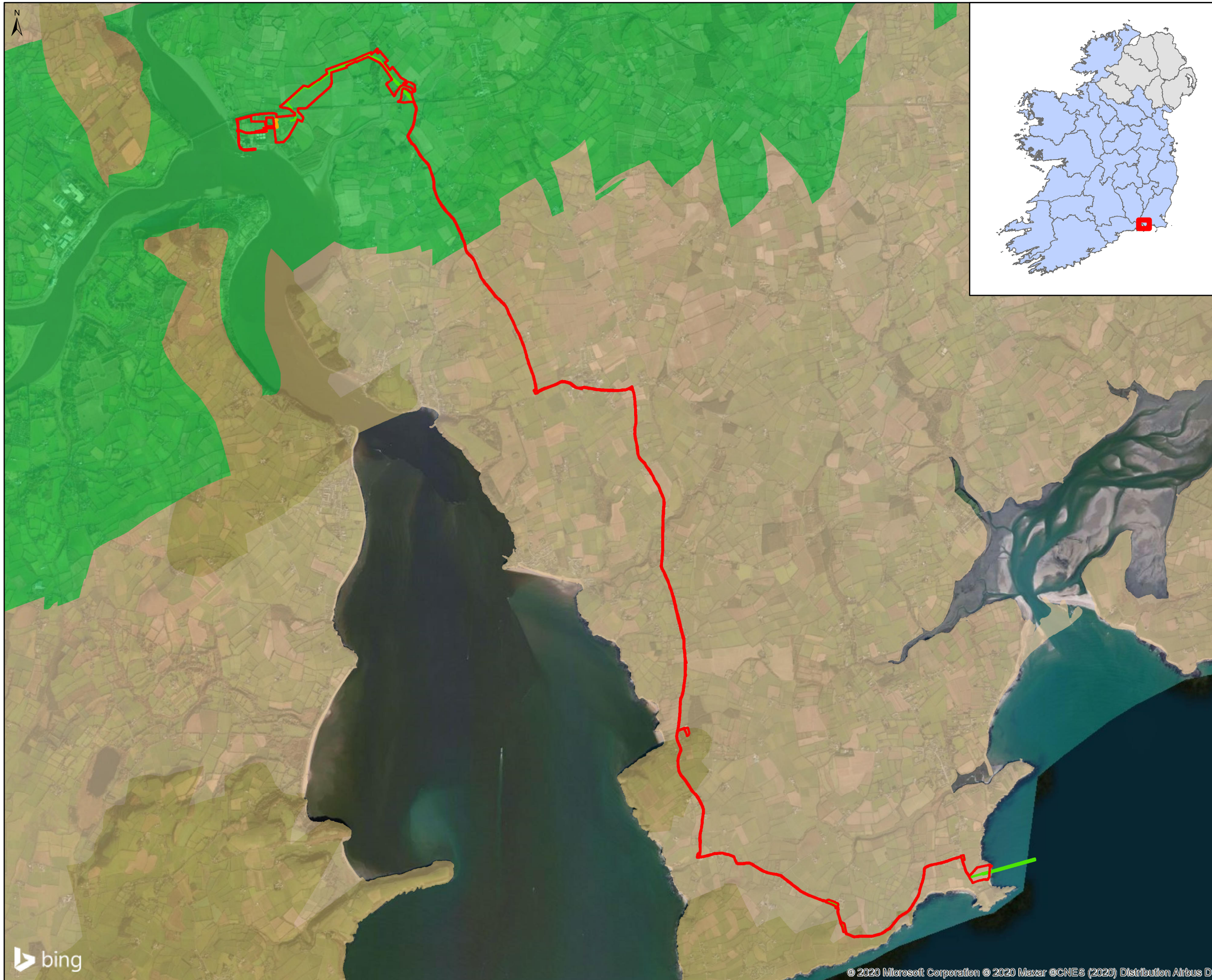












**Legend**

- Red Line Boundary
- HSDC Catchment
- HSDC Catchment
- HSDC Catchment

**Soil Aquifer**

- SI - Locally Important Aquifer - Subsoil which is Moderately Productive only in Local
- PI - Poor Aquifer - Subsoil which is Generally Unproductive except for Local
- RI - Regionally Important Aquifer - Potential Subsoil

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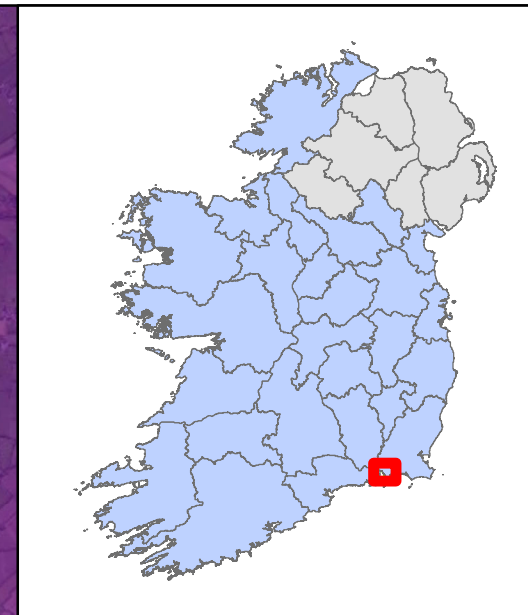
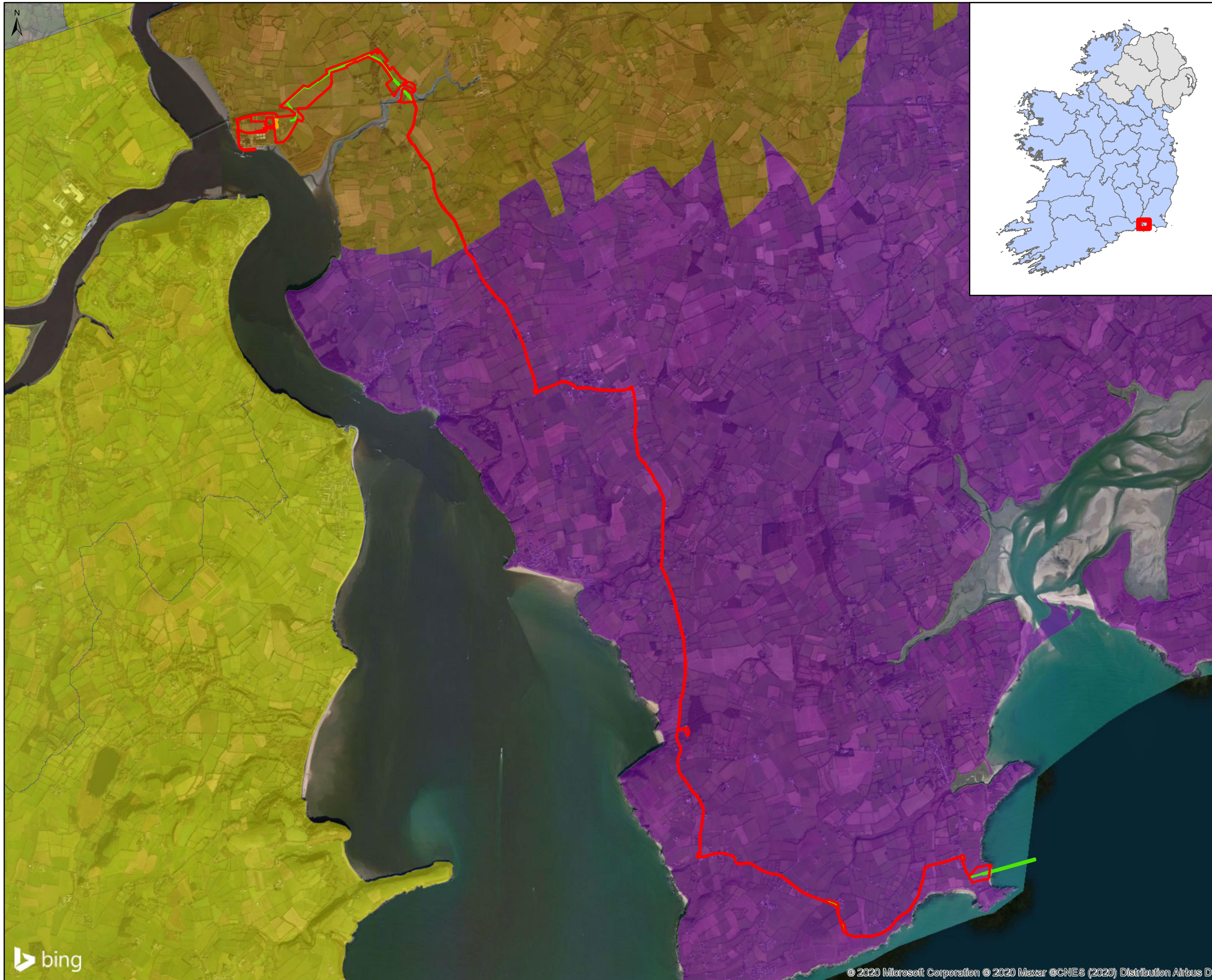
**Aquifer Map  
Regional  
Sheet 5 of 8**

Scale at A3  
**1:55,000**

Kilometers  
0 0.4 0.8 1.6

Job No <b>246369-00</b>	Drawing Status <b>For Issue</b>
Drawing No <b>Figure 12.5</b>	Issue <b>F2</b>





**Legend**

- Red Line Boundary
- Green Line Boundary
- Blue Line Boundary
- Water
- Urban
- Road
- Other

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**Groundwater Body Map**  
Regional  
Sheet 6 of 8

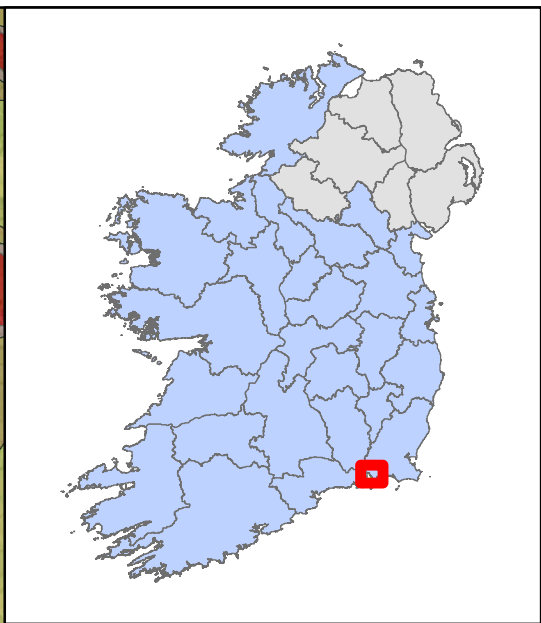
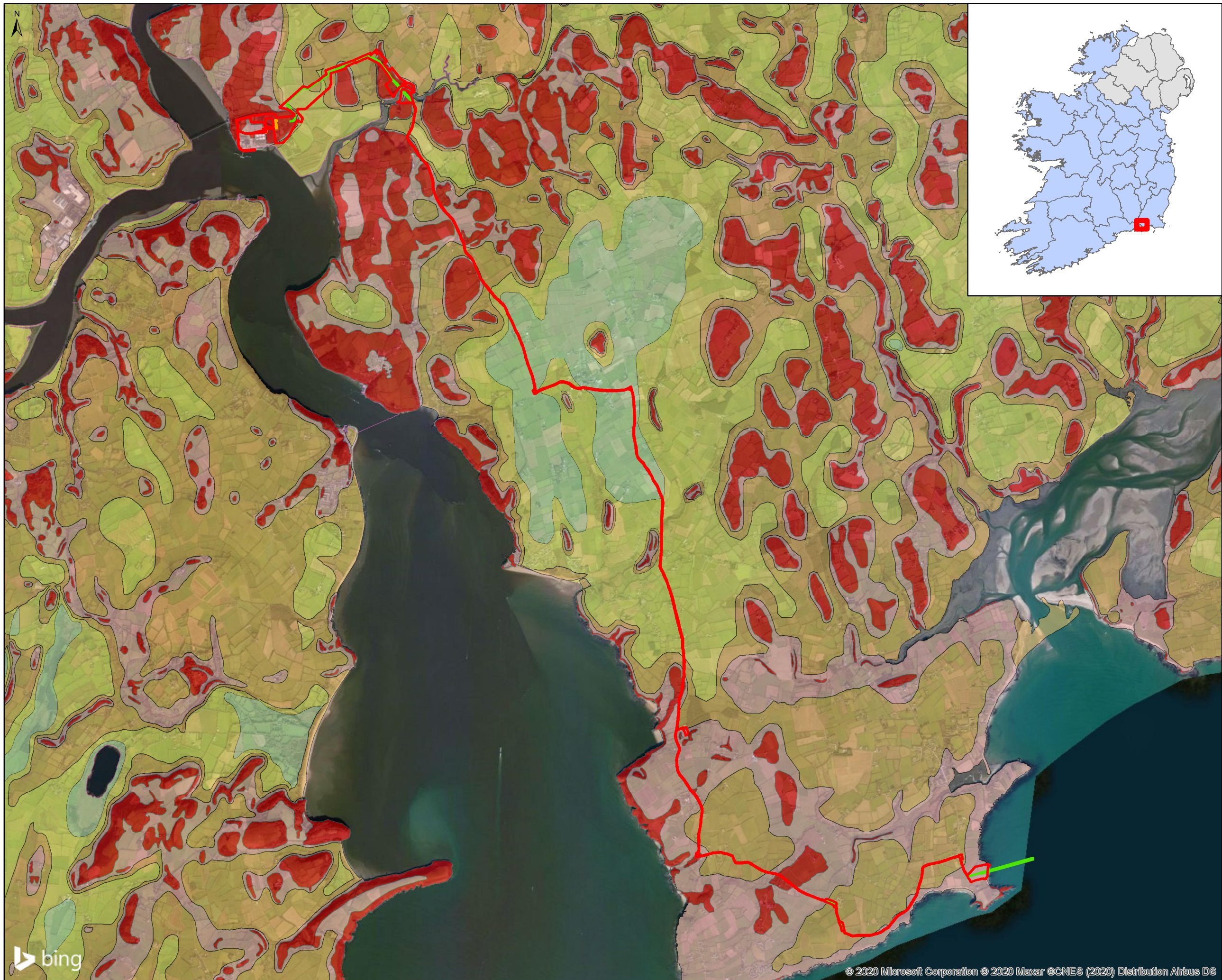
Scale at A3  
**1:55,000**

Kilometers  
0 0.4 0.8 1.6

Job No <b>246369-00</b>	Drawing Status <b>For Issue</b>
Drawing No <b>Figure 12.6</b>	Issue <b>F2</b>







**Legend**

- Plot Line Boundary
- HSDC Cable Route
- HSDC Cable Route
- HSDC Cable Route
- Aquifer Vulnerability
- Rock or soil surface
- Contour
- Water
- High
- Medium
- Low
- Very Low

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**Aquifer Vulnerability Map  
Regional  
Sheet 7 of 8**

Scale at A3  
**1:55,000**

Kilometers  
0 0.4 0.8 1.6

Job No <b>246369-00</b>	Drawing Status <b>For Issue</b>
Drawing No <b>Figure 12.7</b>	Issue <b>F2</b>

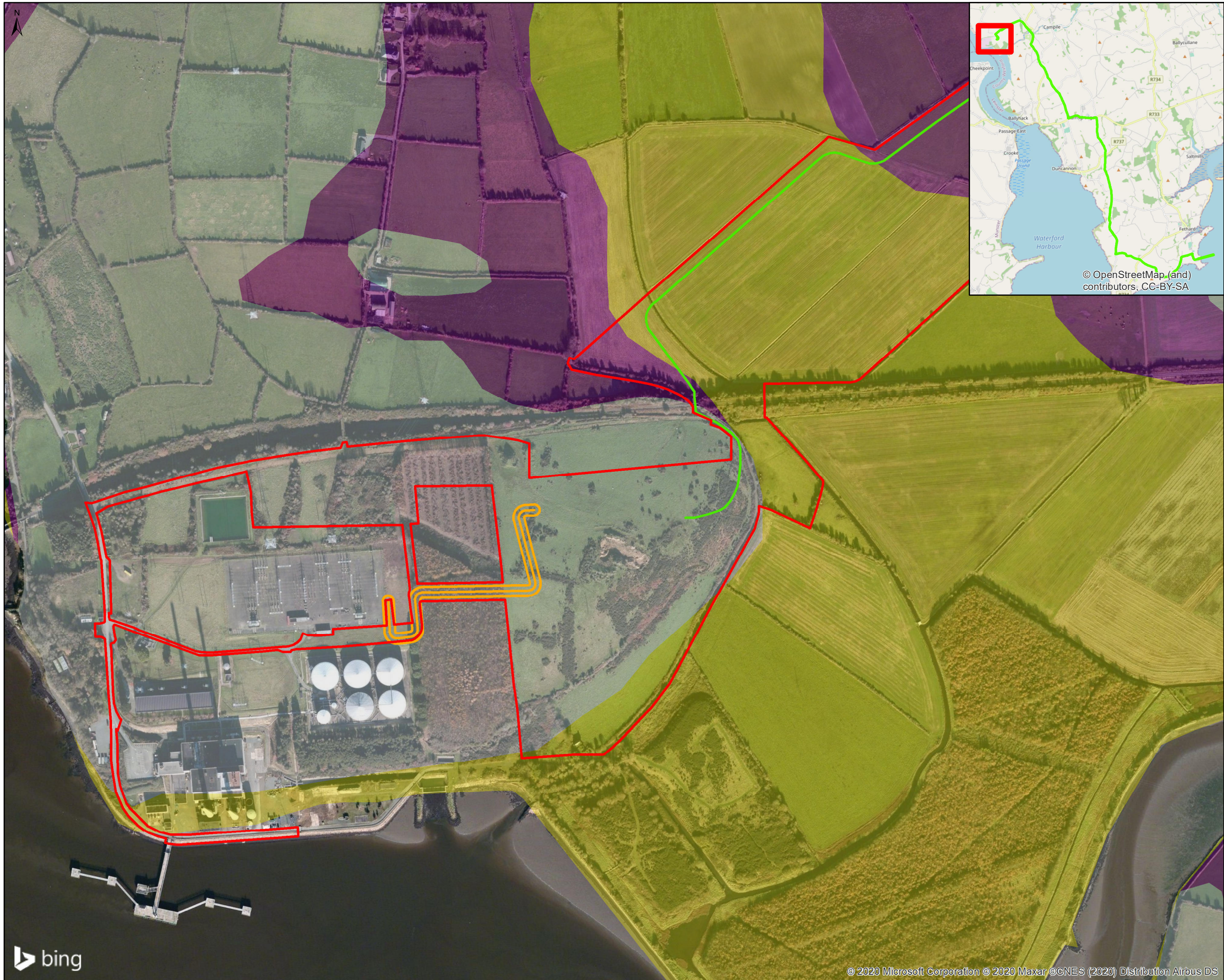










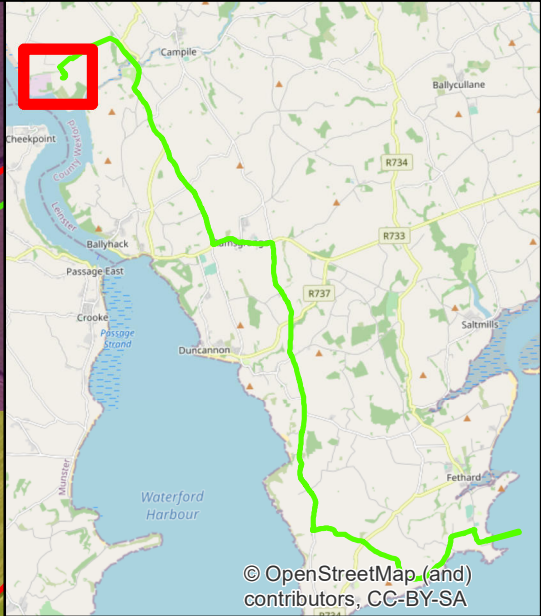


**Legend**

- Plot Line Boundary
- HMC Cable Route
- HMC Cable Route
- HMC Cable Route

**GIS Contours**

- Mean Elevation and slope
- 1:250 10-metre Mean Lower Paleozoic
- Water



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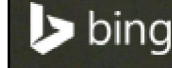
**Subsoil Deposits Map  
Great Island  
Sheet 1 of 1**

Scale at A3  
**1:5,000**

Kilometers  
0 0.035 0.07 0.14

Job No <b>246369-00</b>	Drawing Status <b>For Issue</b>
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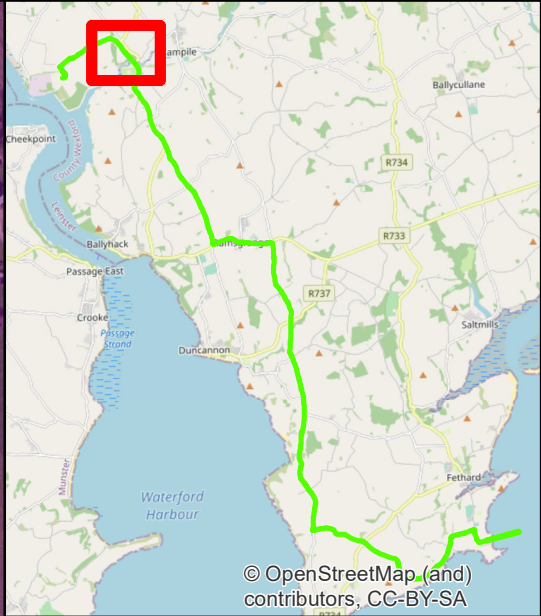
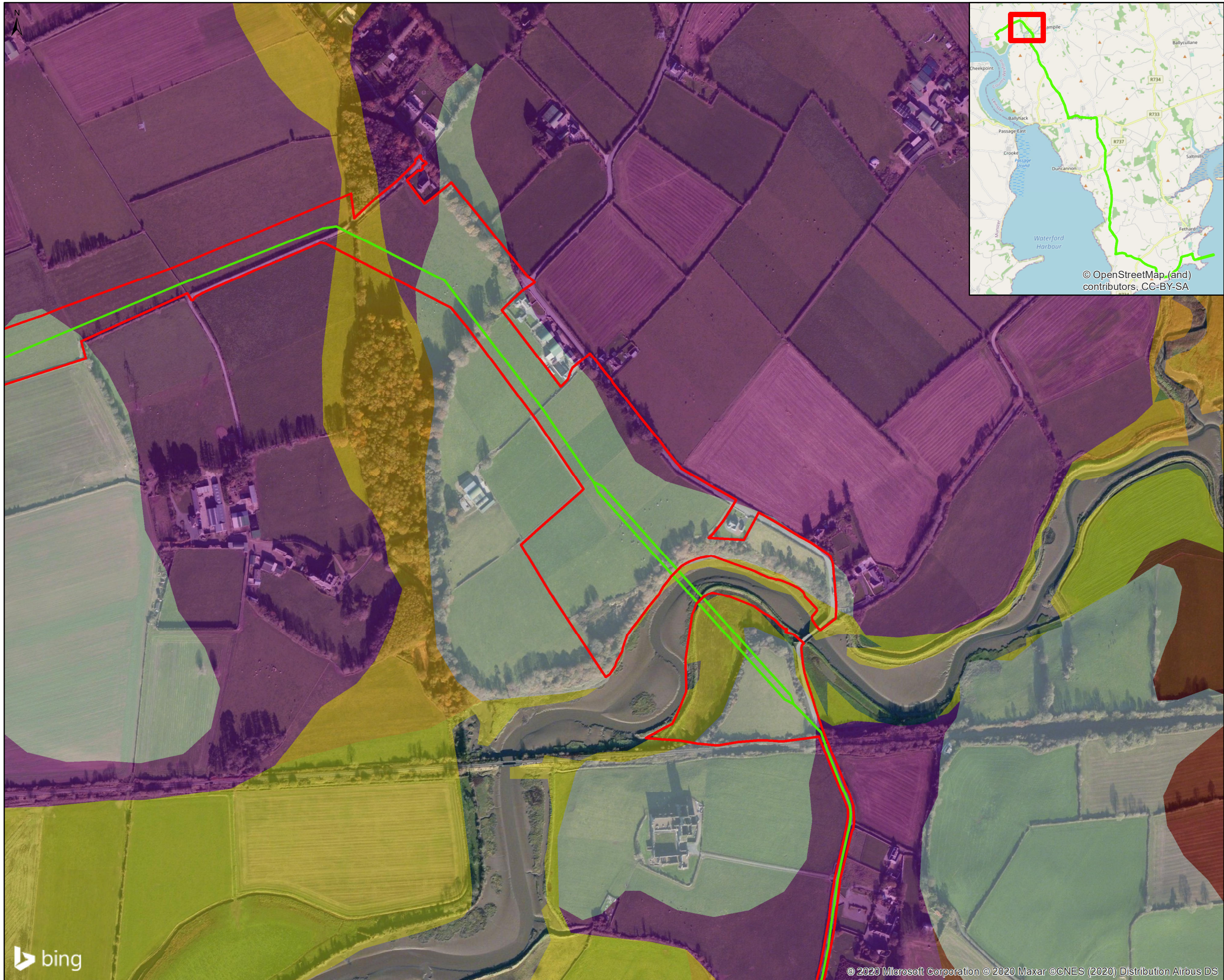
Drawing No <b>Figure 12.10</b>	Issue <b>F2</b>
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**Legend**

- Red Line Boundary
- Subsoil Deposits
- OS Quaternary
- Water
- Other: Exposed rocks and clays
- Other: Bedrock outcrop
- Other: TID derived from aerial-photonic
- TID: TID derived from Laser / Photostereo
- Other

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**Subsoil Deposits Map  
Campile Estuary  
Sheet 1 of 1**

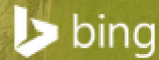
Scale at A3  
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Kilometers  
0 0.035 0.07 0.14

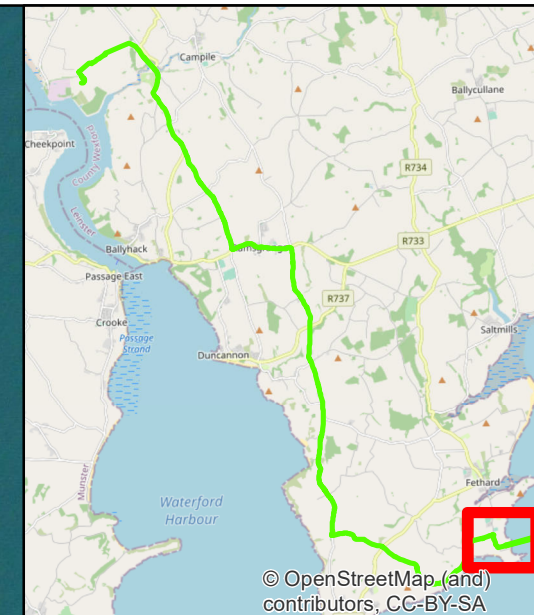
Job No <b>246369-00</b>	Drawing Status <b>For Issue</b>
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Drawing No <b>Figure 12.12</b>	Issue <b>F2</b>
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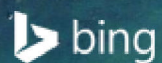
Job Title  
**Greenlink Interconnector**

**Soils Deposits Map  
Landfall  
Sheet 1 of 1**

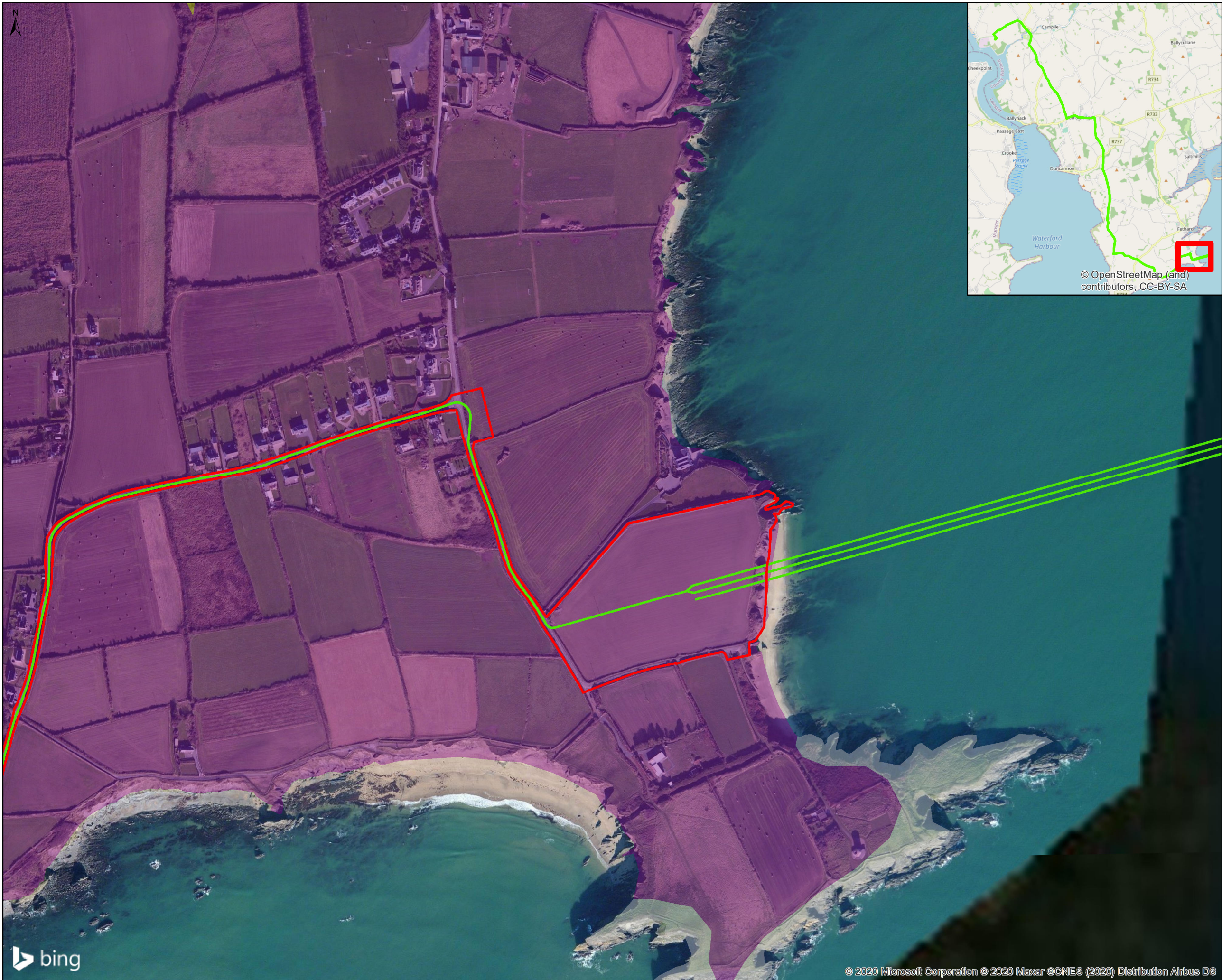


Job No <b>246369-00</b>	Drawing Status <b>For Issue</b>
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Drawing No <b>Figure 12.13</b>	Issue <b>F2</b>
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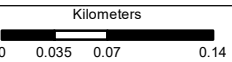
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**Greenlink Interconnector**

**Subsoil Deposits Map  
Landfall  
Sheet 1 of 1**

Scale at A3  
**1:5,000**

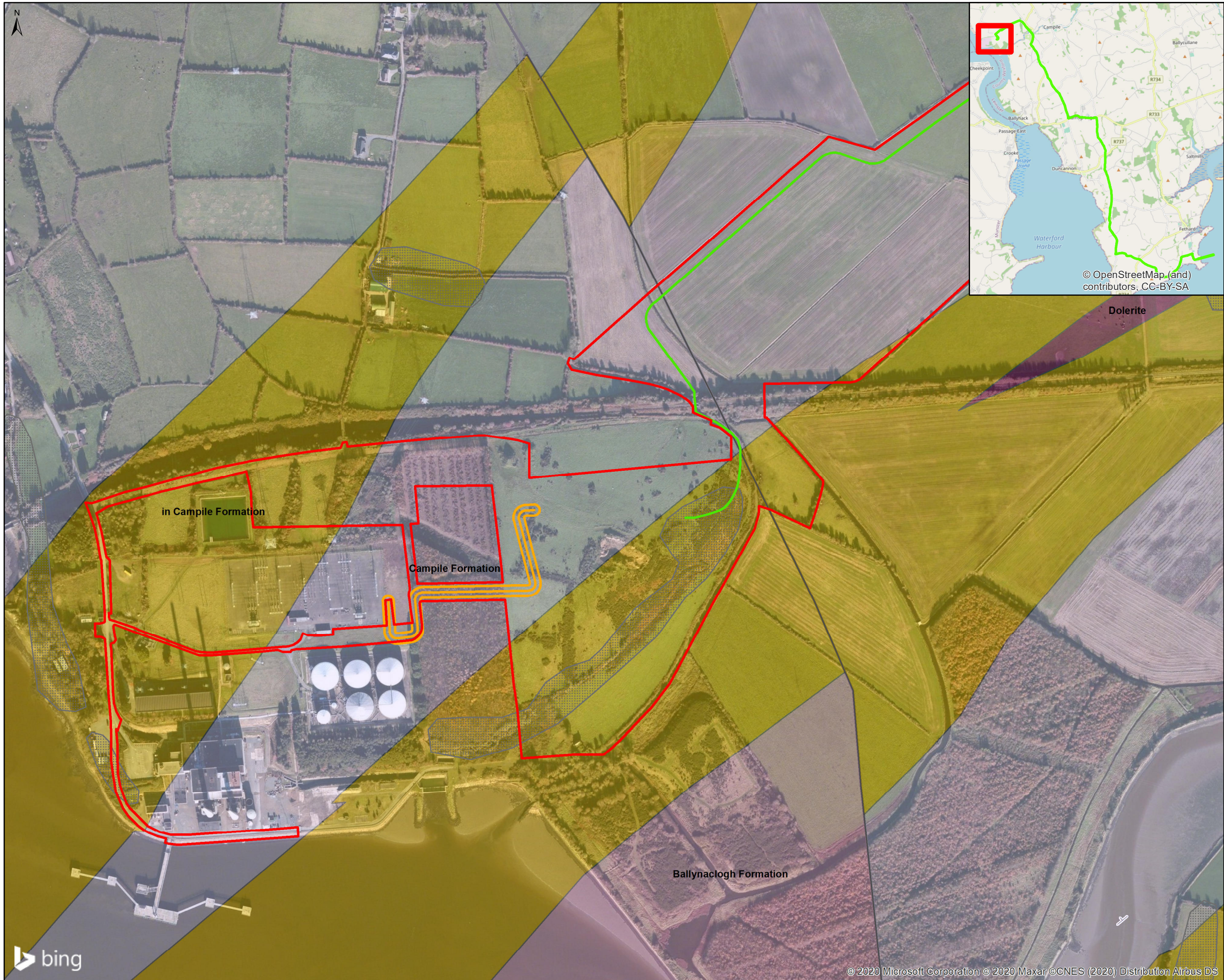


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Drawing No <b>Figure 12.14</b>	Issue <b>F2</b>
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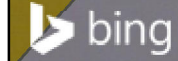
**Bedrock Geology Map  
Great Island  
Sheet 1 of 1**

Scale at A3  
**1:5,000**

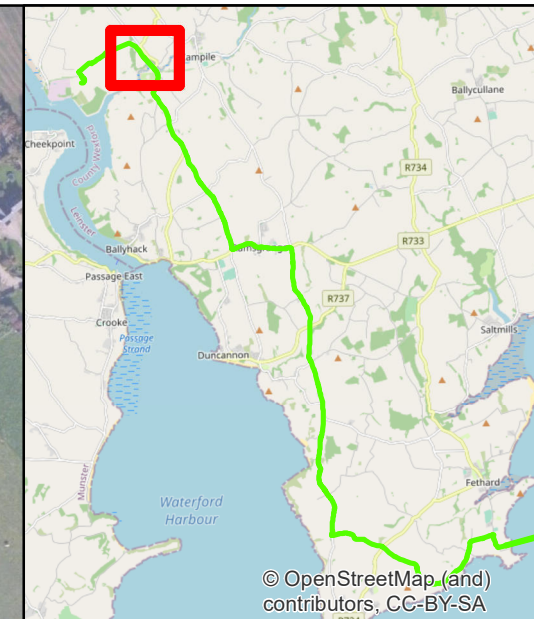
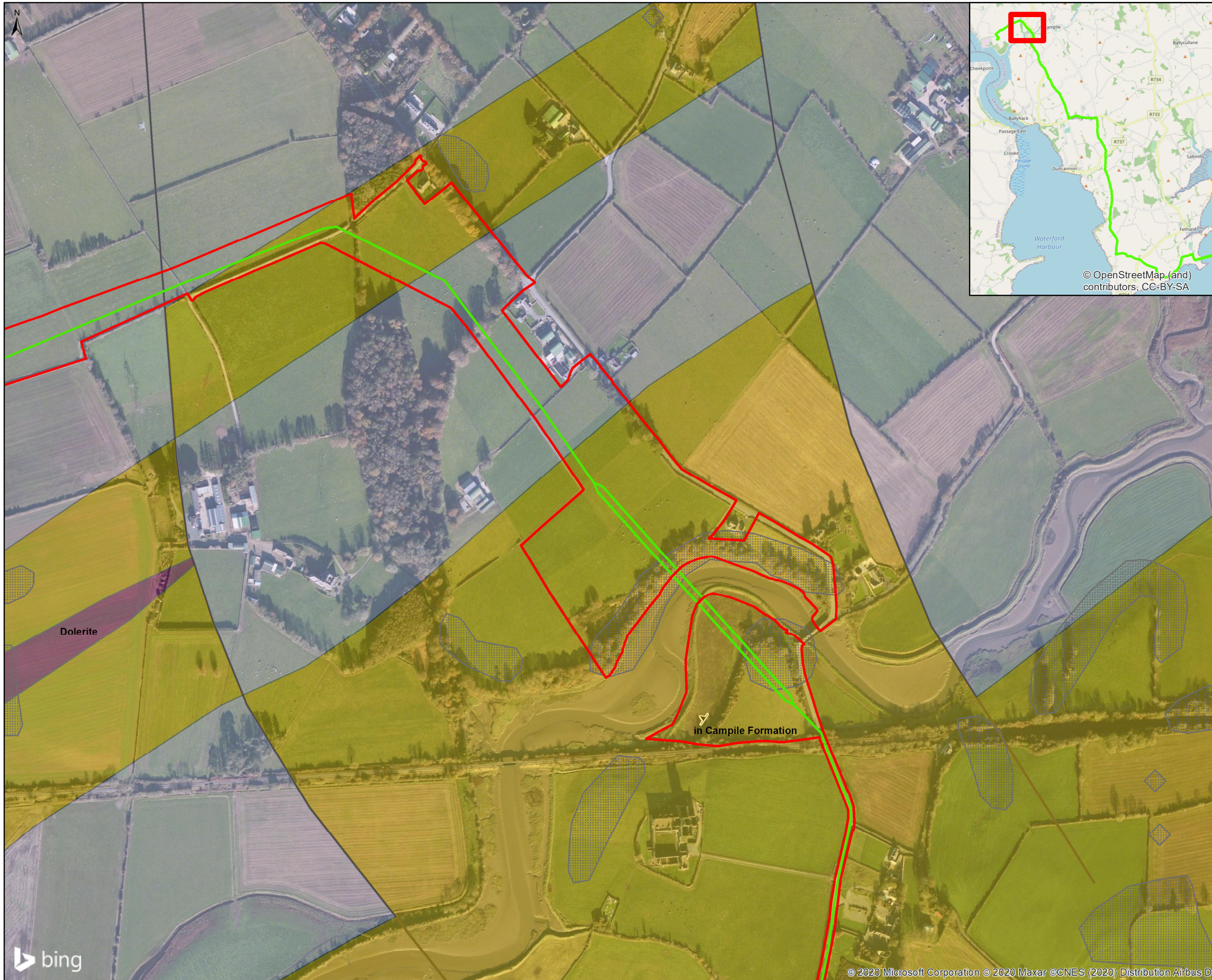
Kilometers  
0 0.035 0.07 0.14

Job No <b>246369-00</b>	Drawing Status <b>For Issue</b>
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Drawing No <b>Figure 12.15</b>	Issue <b>F2</b>
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Legend  
 Plot Line Boundary  
 1:5000 Contour  
 Bedrock Outcrop 100m 2010  
 Bedrock Outcrop 100m 2015  
 Bedrock Polygon 100m 2010  
 Bedrock Polygon 100m 2015  
 Dolerite  
 Campile Formation  
 Campile Formation  
 Scale 1000/17M 2010  
 Scale 1000/17M 2015  
 Shows an idyllic of that location

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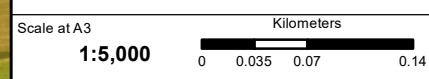
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**Bedrock Geology Map  
 Campile Estuary  
 Sheet 1 of 1**



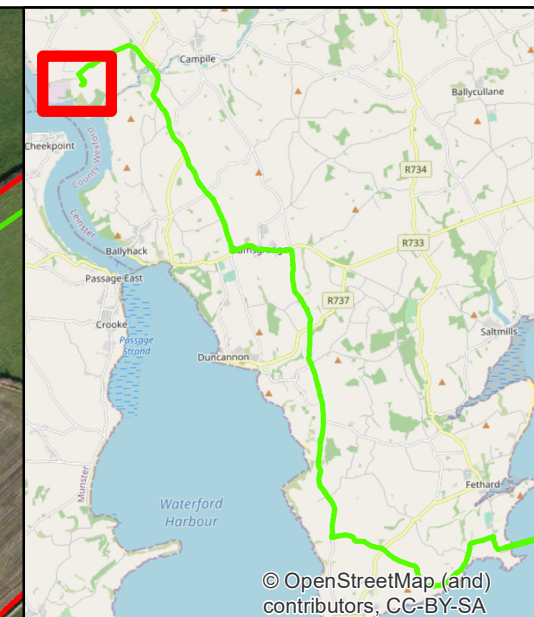
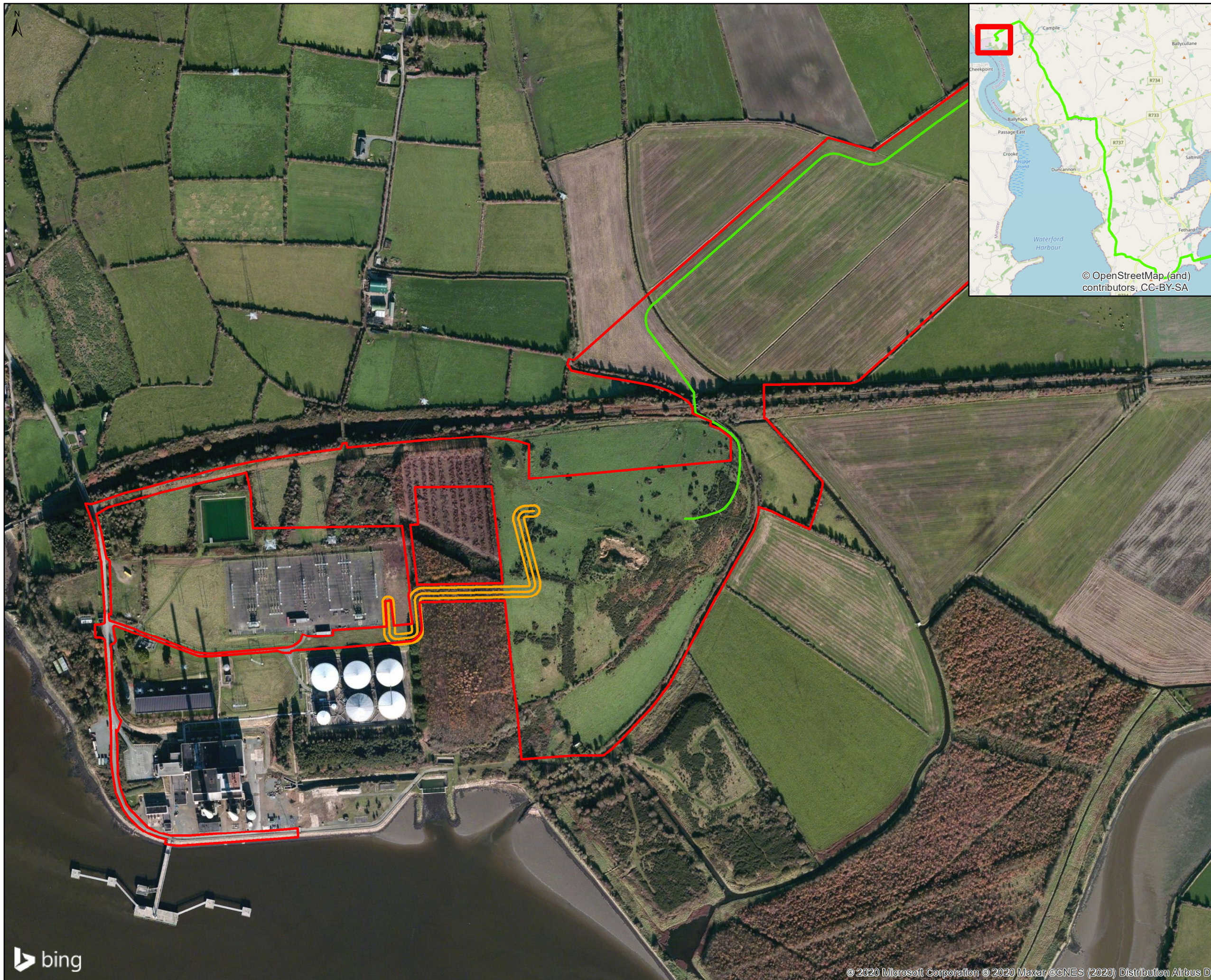
Job No <b>246369-00</b>	Drawing Status <b>For Issue</b>
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Drawing No <b>Figure 12.16</b>	Issue <b>F2</b>
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Legend  
 Red Line Boundary  
 Green Line HMC Cable Route  
 Yellow Line HMC Cable Route

23/11/2020 10:41:09

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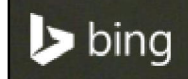
**Geological Constraints Map**  
**Great Island**  
**Sheet 1 of 1**

Scale at A3  
**1:5,000**

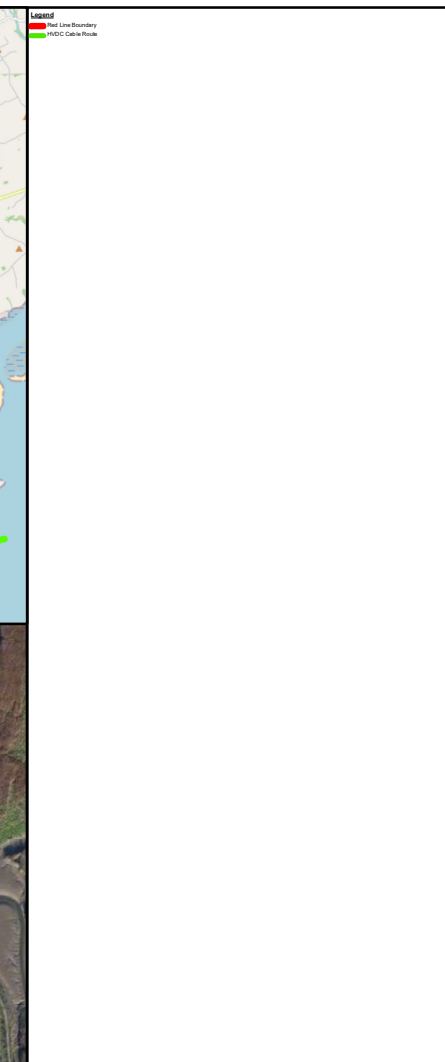
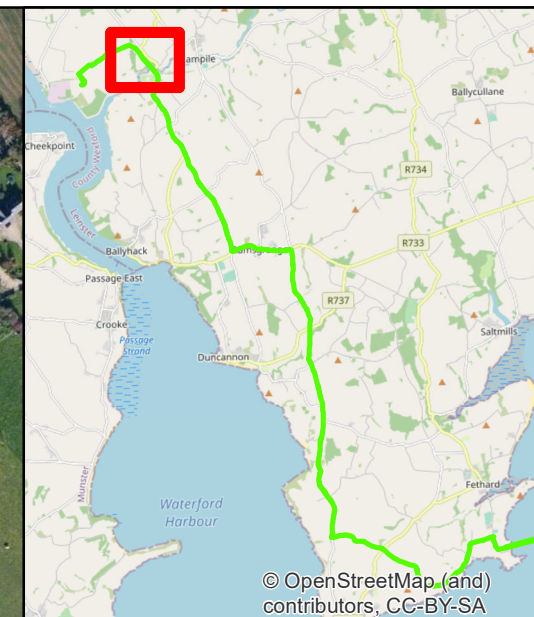
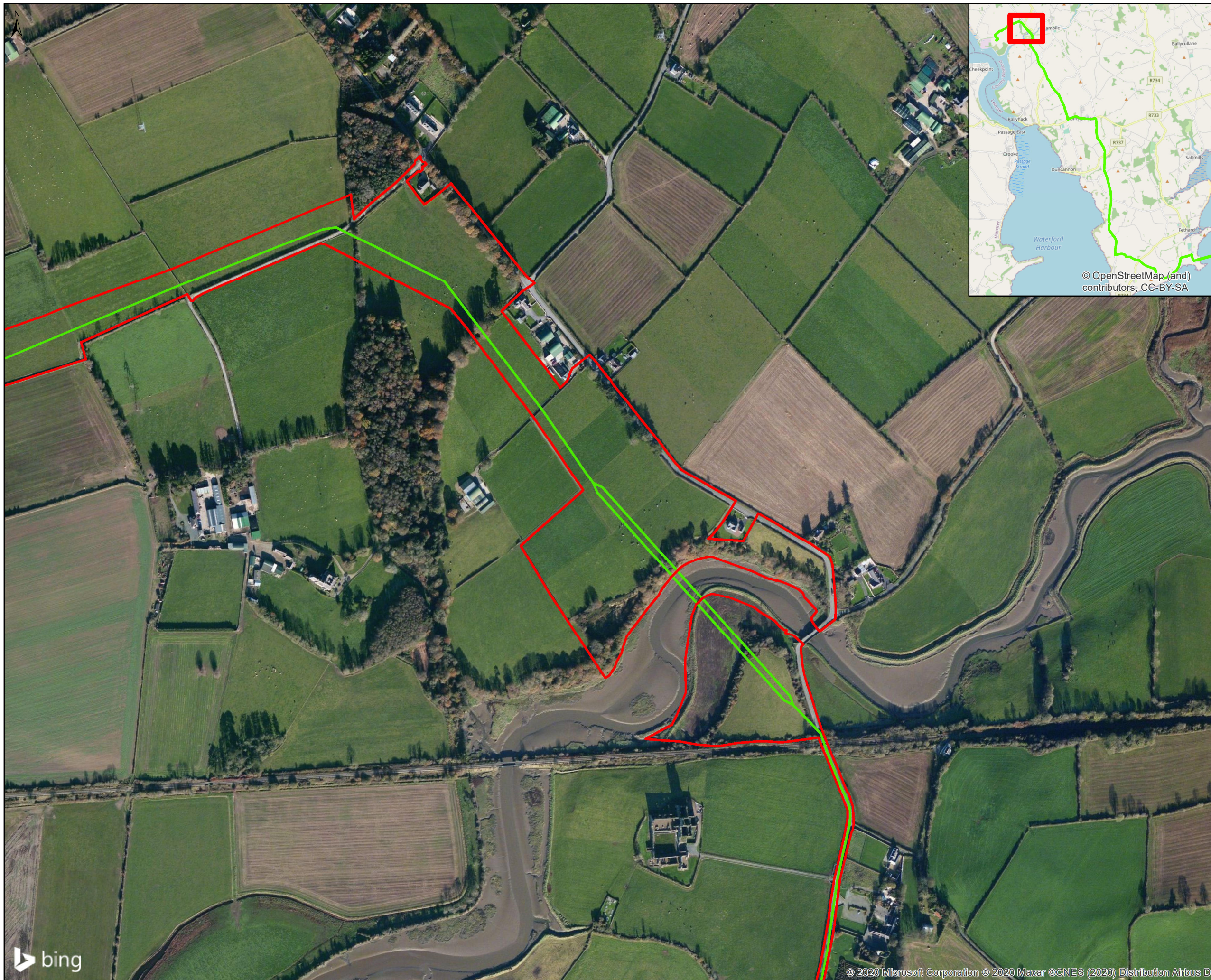
Kilometers  
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Job No <b>246369-00</b>	Drawing Status <b>For Issue</b>
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Drawing No <b>Figure 12.18</b>	Issue <b>F2</b>
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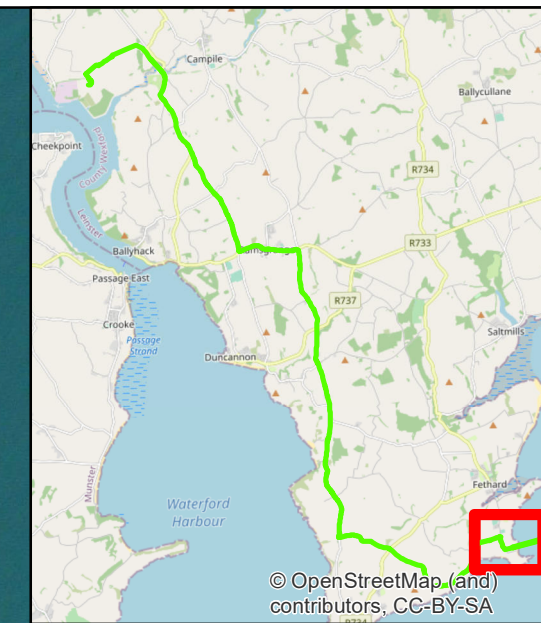
**Geological Constraints Map  
Campile Estuary  
Sheet 1 of 1**

Scale at A3  
**1:5,000**

Kilometers  
0 0.035 0.07 0.14

Job No <b>246369-00</b>	Drawing Status <b>For Issue</b>
Drawing No <b>Figure 12.19</b>	Issue <b>F2</b>





- Legend**
- Red Line Boundary
  - Green Line Boundary
  - Blue Line Boundary
  - Yellow Dot
  - Yellow Circle (in general)

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**Geological Constraints Map  
Landfall  
Sheet 1 of 1**

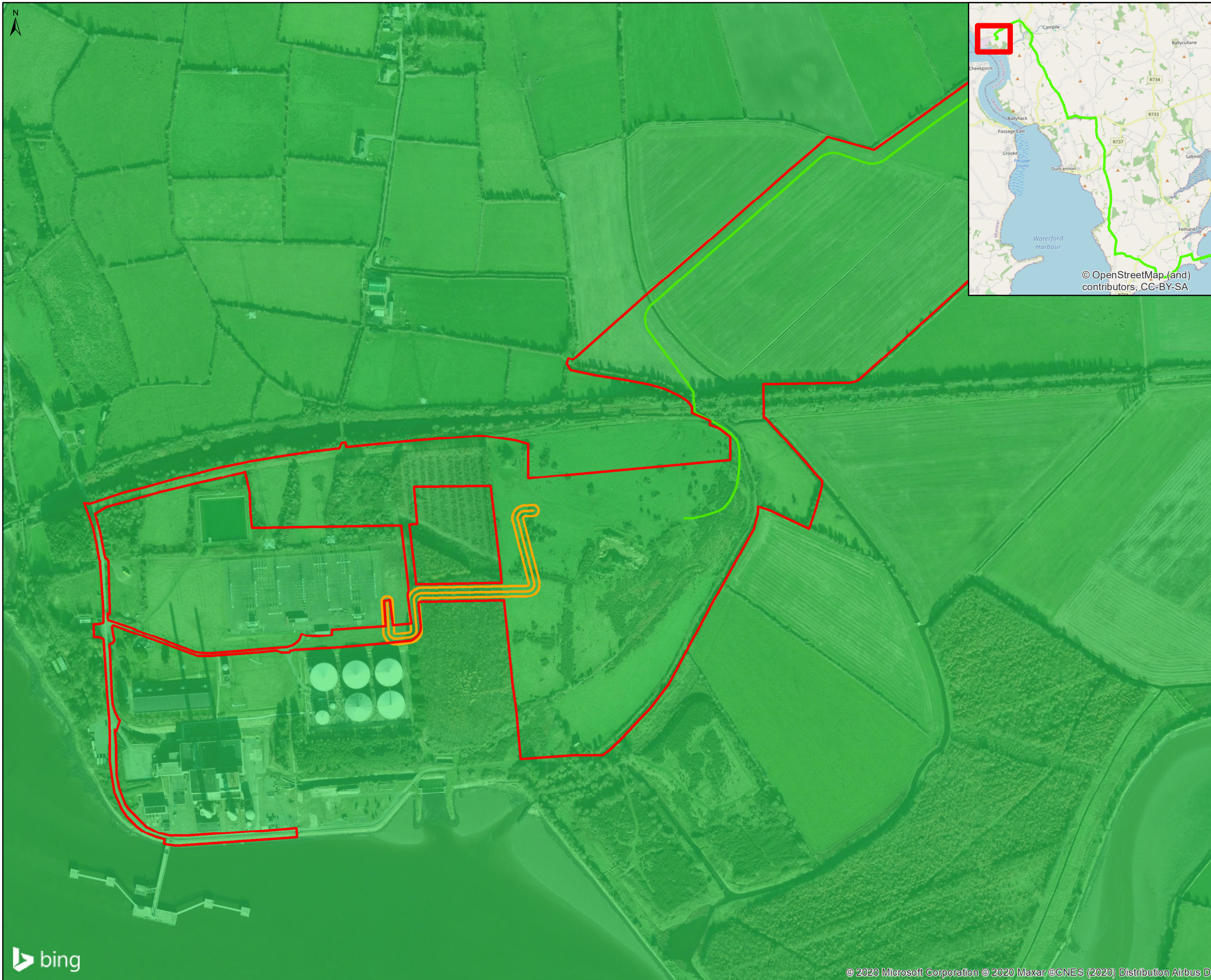
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Job No <b>246369-00</b>	Drawing Status <b>For Issue</b>
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Drawing No <b>Figure 12.20</b>	Issue <b>F2</b>
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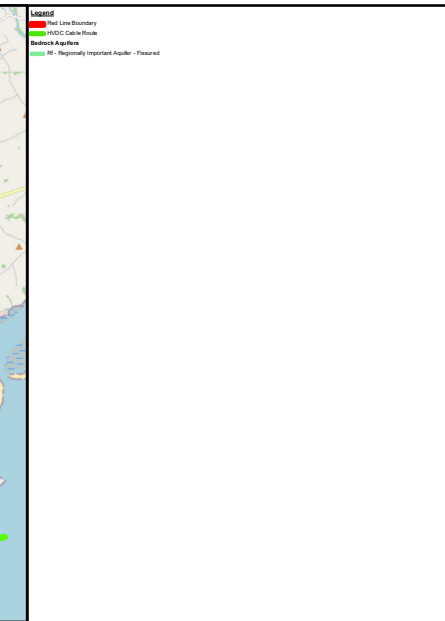
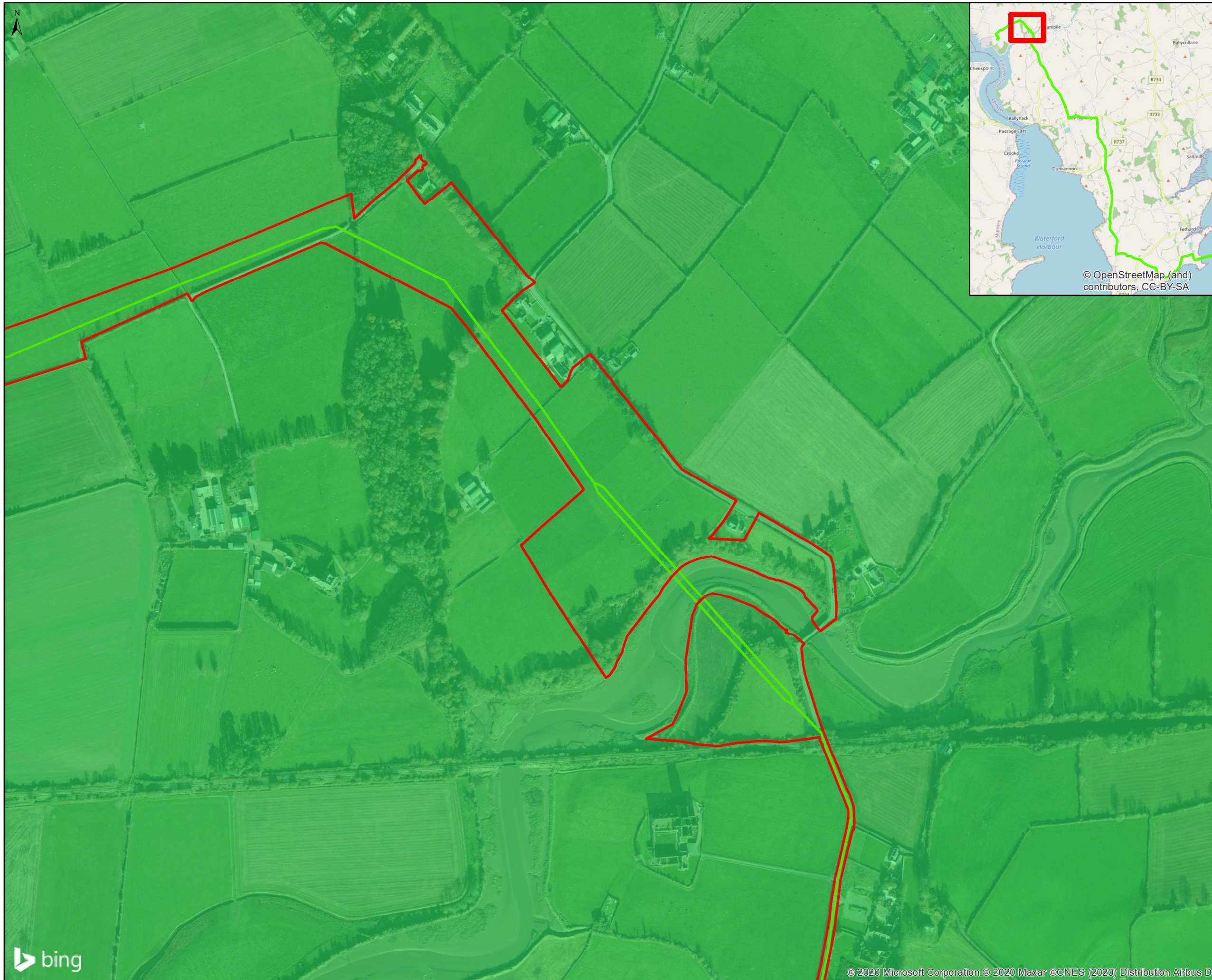
**Aquifer Map  
Great Island  
Sheet 1 of 1**

Scale at A3  
**1:5,000**

Kilometers  
0 0.035 0.07 0.14

Job No <b>246369-00</b>	Drawing Status <b>For Issue</b>
Drawing No <b>Figure 12.21</b>	Issue <b>F2</b>





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**Aquifer Map  
Campile Estuary  
Sheet 1 of 1**

Scale at A3  
**1:5,000**

Kilometers  
0 0.035 0.07 0.14

Job No <b>246369-00</b>	Drawing Status <b>For Issue</b>
Drawing No <b>Figure 12.22</b>	Issue <b>F2</b>





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**Aquifer Map  
Landfall  
Sheet 1 of 1**

Scale at A3  
**1:5,000**

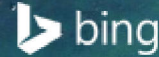
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Job No  
**246369-00**

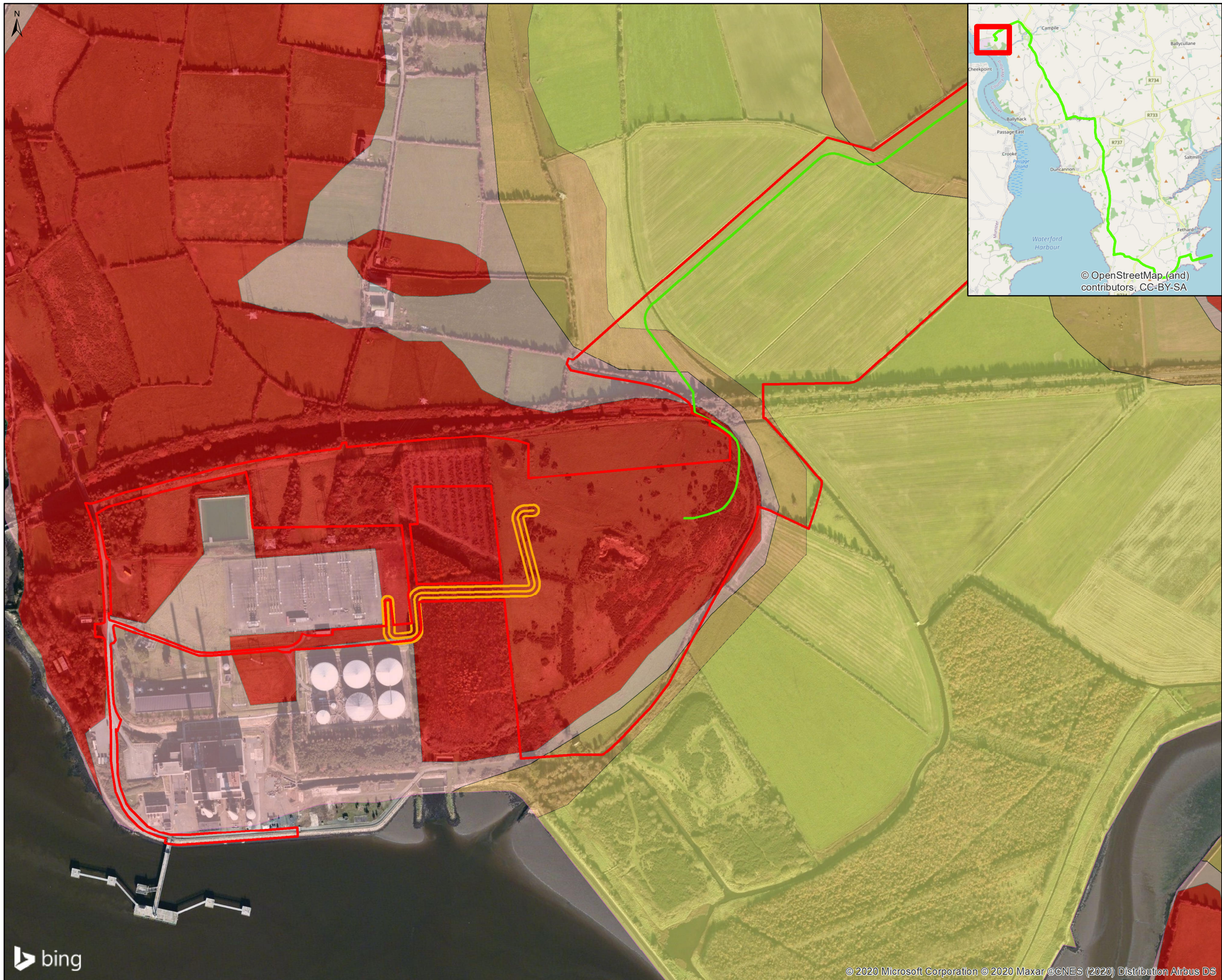
Drawing Status  
**For Issue**

Drawing No  
**Figure 12.23**

Issue  
**F2**







**Legend**

- Plot Line Boundary
- HMC Cable Route
- HMC Cable Route
- HMC Cable Route
- Aquifer Vulnerability
- Water
- High
- Medium
- Low

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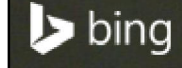
**Aquifer Vulnerability Map  
Great Island  
Sheet 1 of 1**

Scale at A3  
**1:5,000**

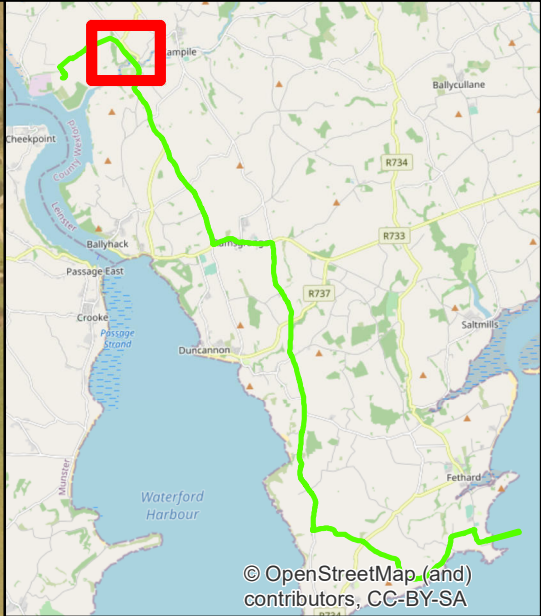
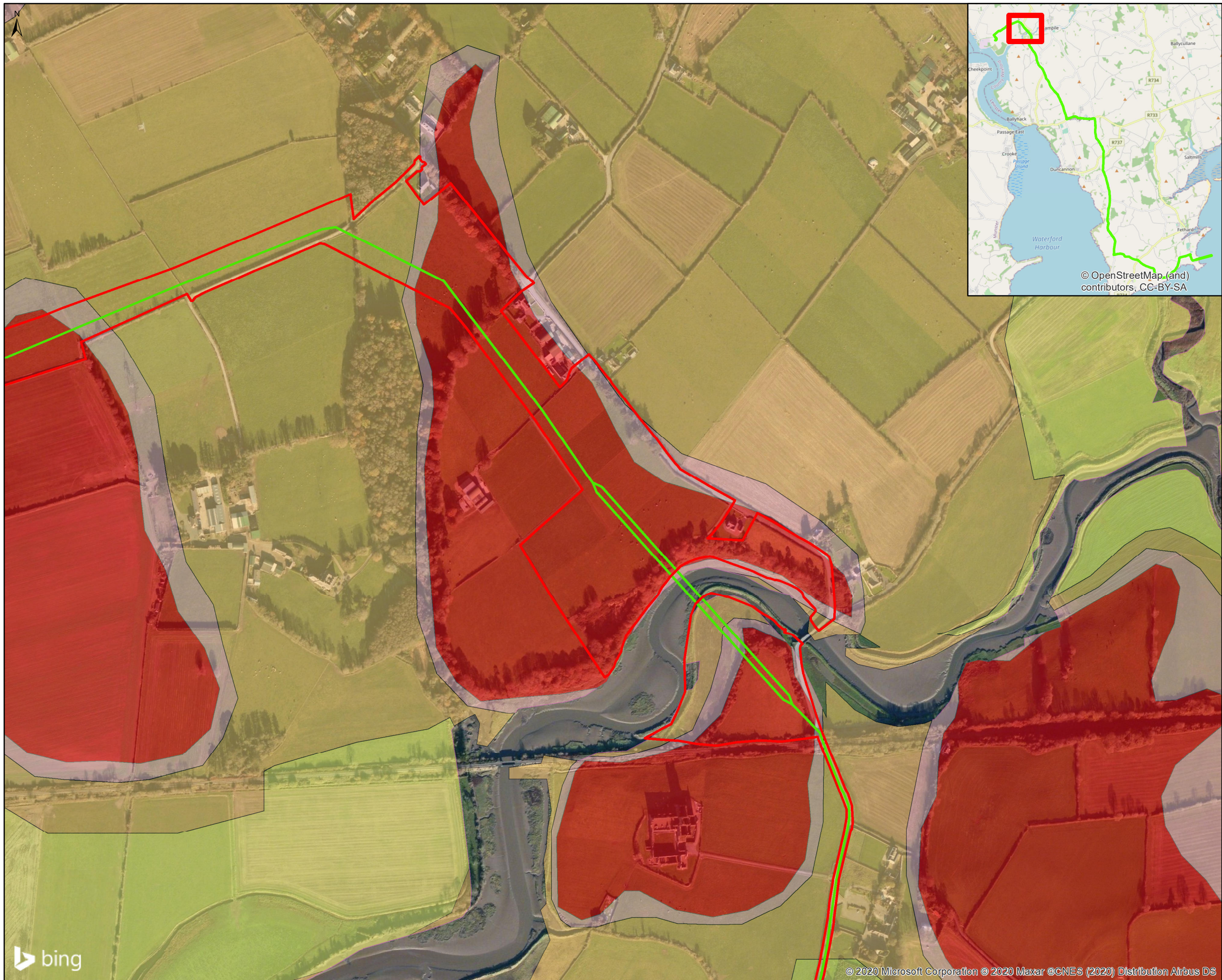
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Job No <b>246369-00</b>	Drawing Status <b>For Issue</b>
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Drawing No <b>Figure 12.24</b>	Issue <b>F2</b>
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Campile Estuary  
Sheet 1 of 1**

Scale at A3  
**1:5,000**

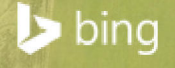
Kilometers  
0 0.035 0.07 0.14

Job No  
**246369-00**

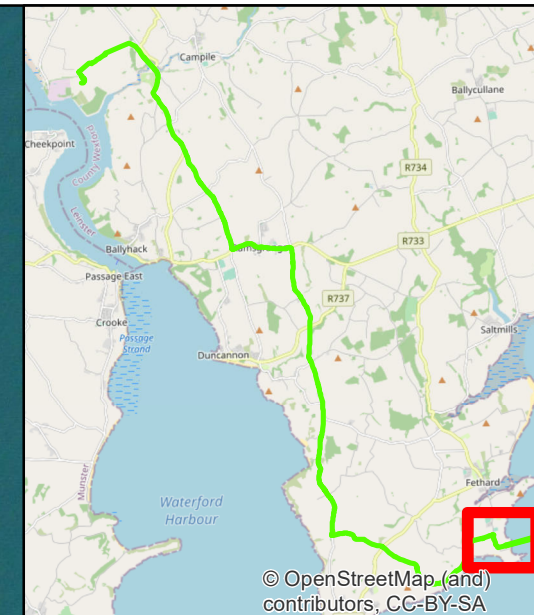
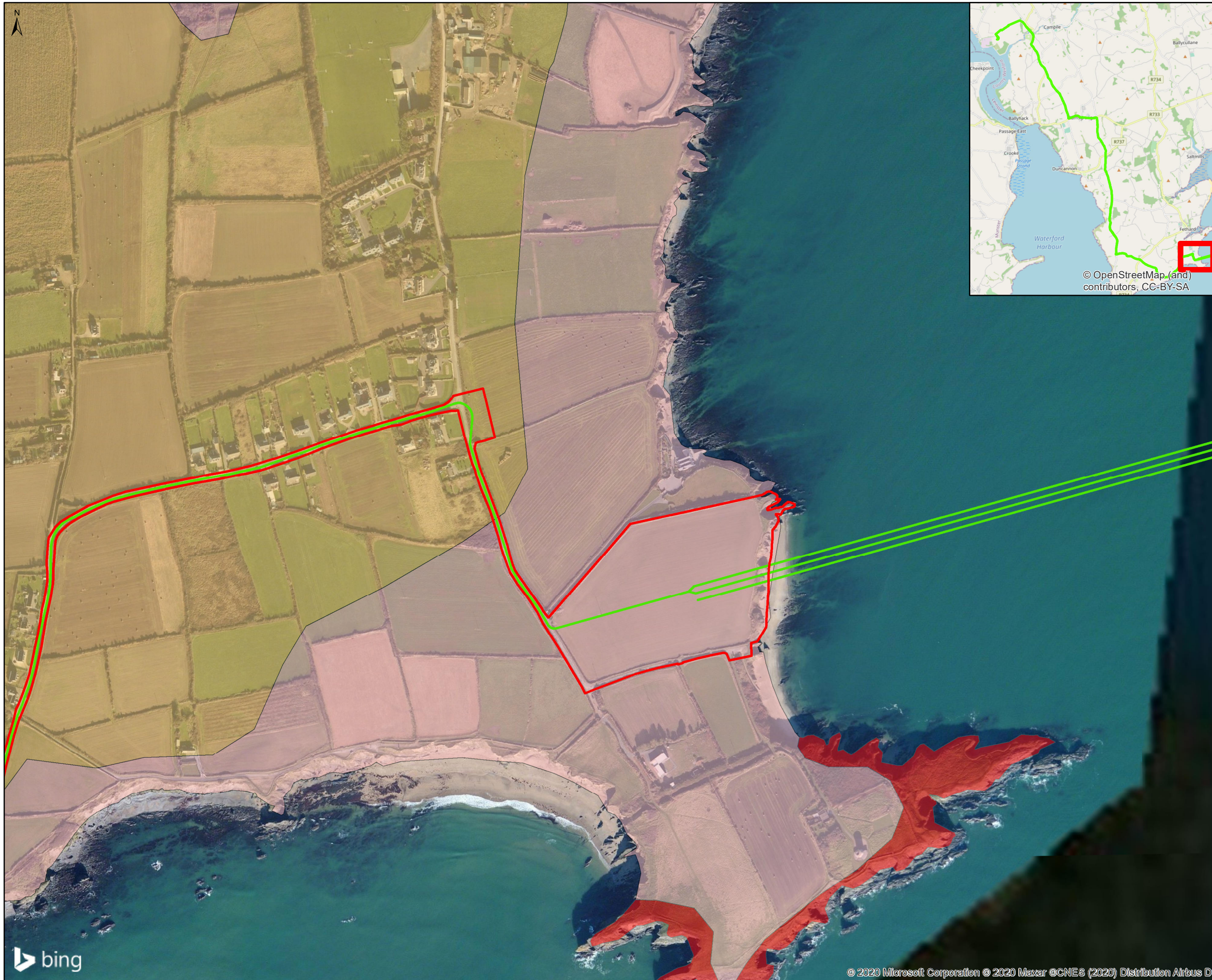
Drawing Status  
**For Issue**

Drawing No  
**Figure 12.25**

Issue  
**F2**







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Legend  
 Red Line Boundary  
 Green Line Boundary  
 Aquifer Vulnerability  
 Blue Area Water  
 Black Area Water  
 Green Area  
 Blue Area  
 Blue Area



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Issue	Date	By	Chkd	Appd

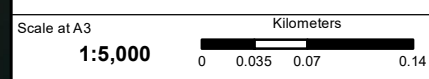
One Albert Quay,  
 Cork, T12 X8N6  
 Tel +353 (0)21 422 3200  
 www.arup.com



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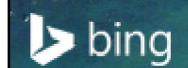
Job Title  
**Greenlink Interconnector**

**Aquifer Vulnerability Map  
 Landfall  
 Sheet 1 of 1**

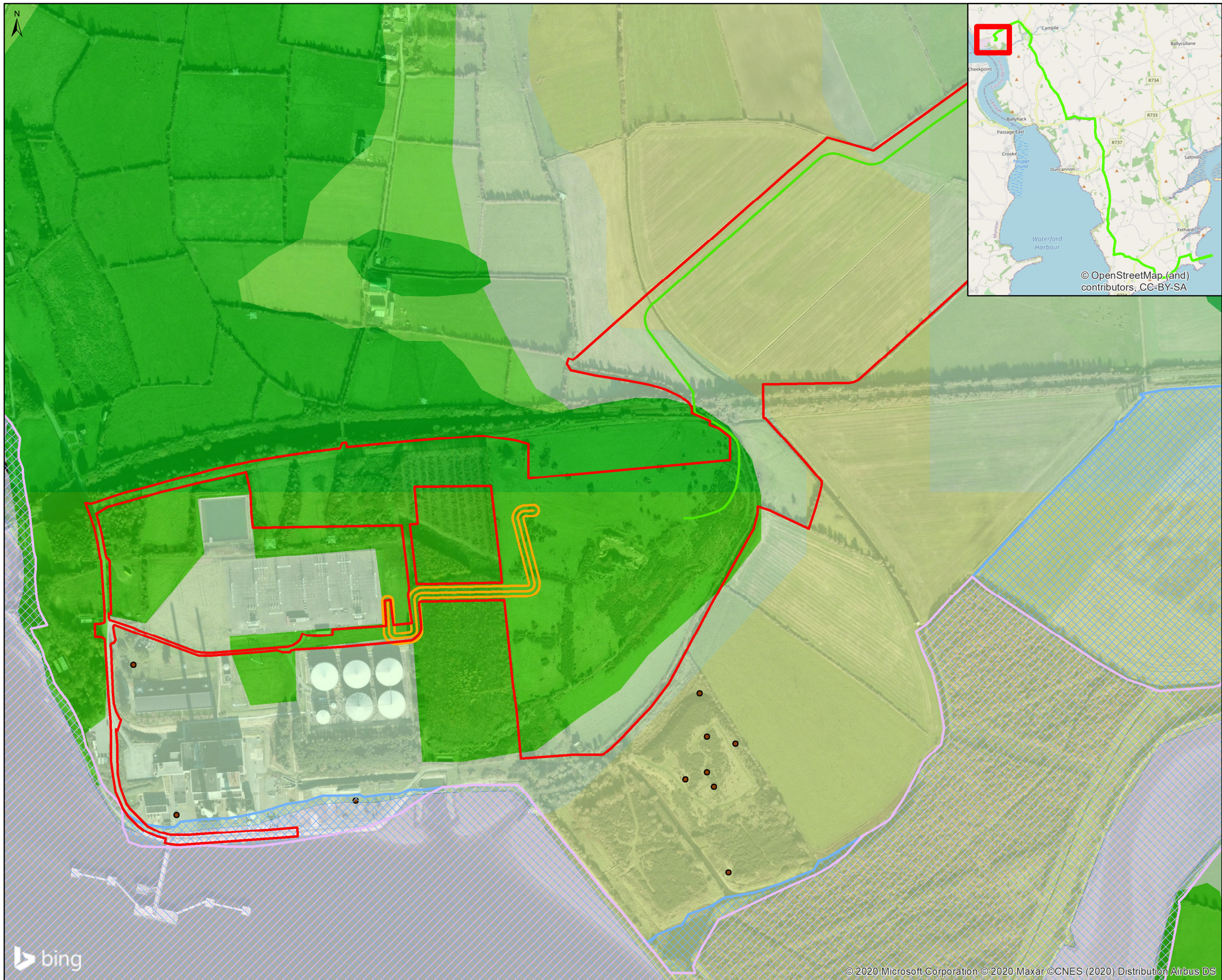


Job No <b>246369-00</b>	Drawing Status <b>For Issue</b>
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Drawing No <b>Figure 12.26</b>	Issue <b>F2</b>
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**Legend**

- Red Line Boundary
- HMC Cable Route
- HMC Cable Route
- HMC Cable Route
- Special Area of Conservation (SAC)
- Special Area of Conservation (SAC)
- Proposed Natural Heritage Area (NHA)
- Proposed Natural Heritage Area (NHA)
- Well accuracy from 10 to 50m
- Groundwater Recharge Area

Well accuracy from 10 to 50m

Groundwater Recharge Area

0 10 20 30 40 50 60 70 80 90 100

0 10 20 30 40 50 60 70 80 90 100

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**Hydrogeological Constraints Map  
Great Island  
Sheet 1 of 1**

Scale at A3  
**1:5,000**

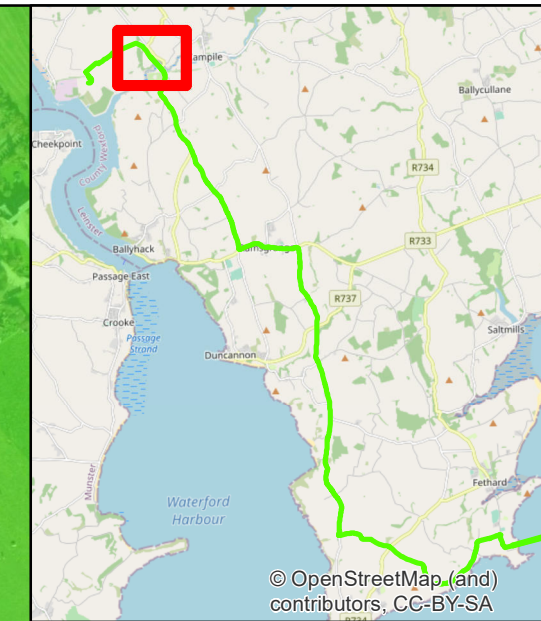
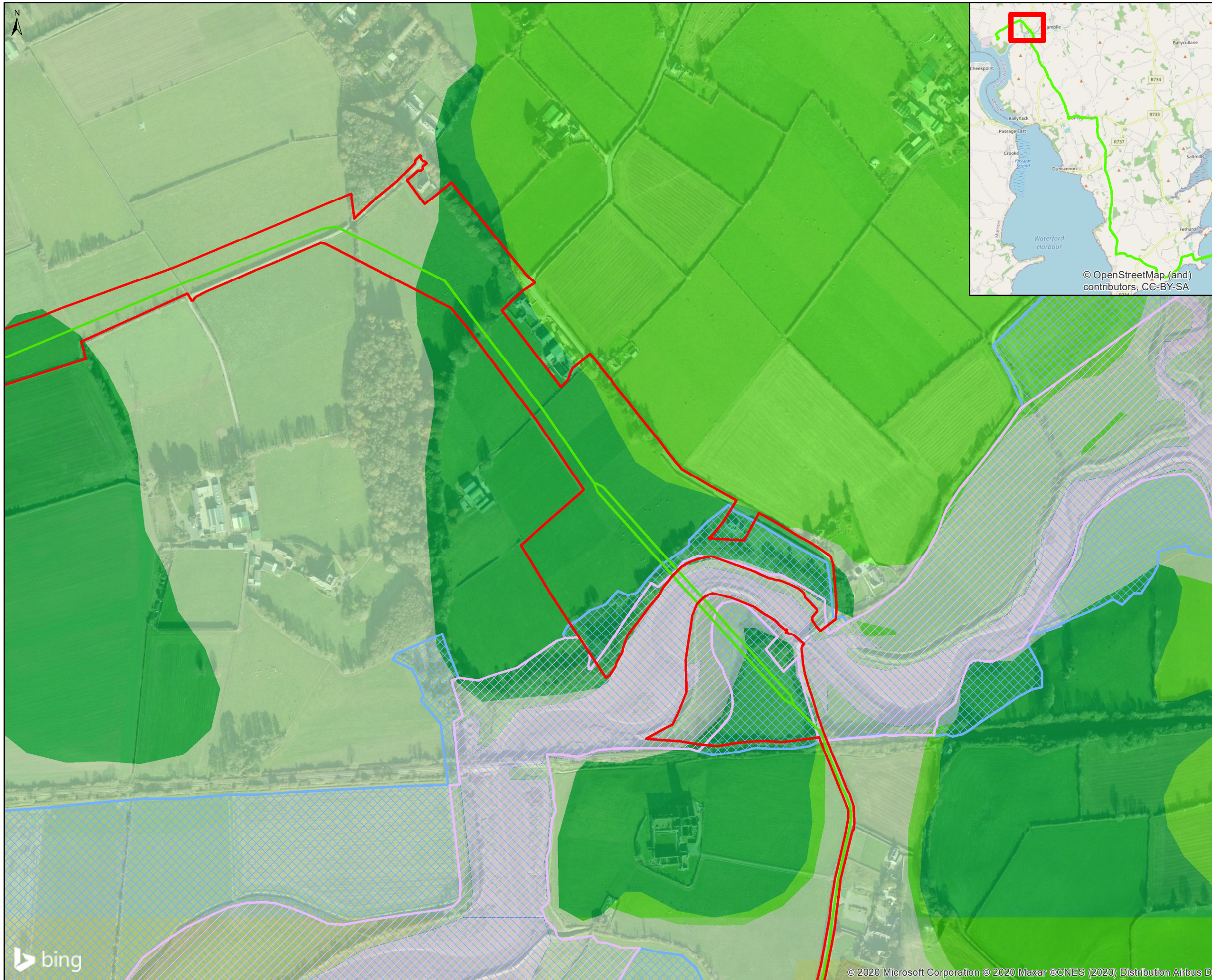
Kilometers  
0 0.035 0.07 0.14

Job No <b>246369-00</b>	Drawing Status <b>For Issue</b>
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Drawing No <b>Figure 12.27</b>	Issue <b>F2</b>
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**Legend**

- Red Line Boundary
- Special Area of Conservation (SAC)
- Special Area of Conservation (SAC)
- Special Area of Conservation (SAC)
- Proposed Natural Heritage Area (pNHA)
- Conservation Heritage Area
- 0-100
- 100-200
- 200-300
- 300-400
- 400-500
- 500-600
- Water

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**Hydrogeological Constraints Map  
Campile Estuary  
Sheet 1 of 1**

Scale at A3  
**1:5,000**

Kilometers  
0 0.035 0.07 0.14

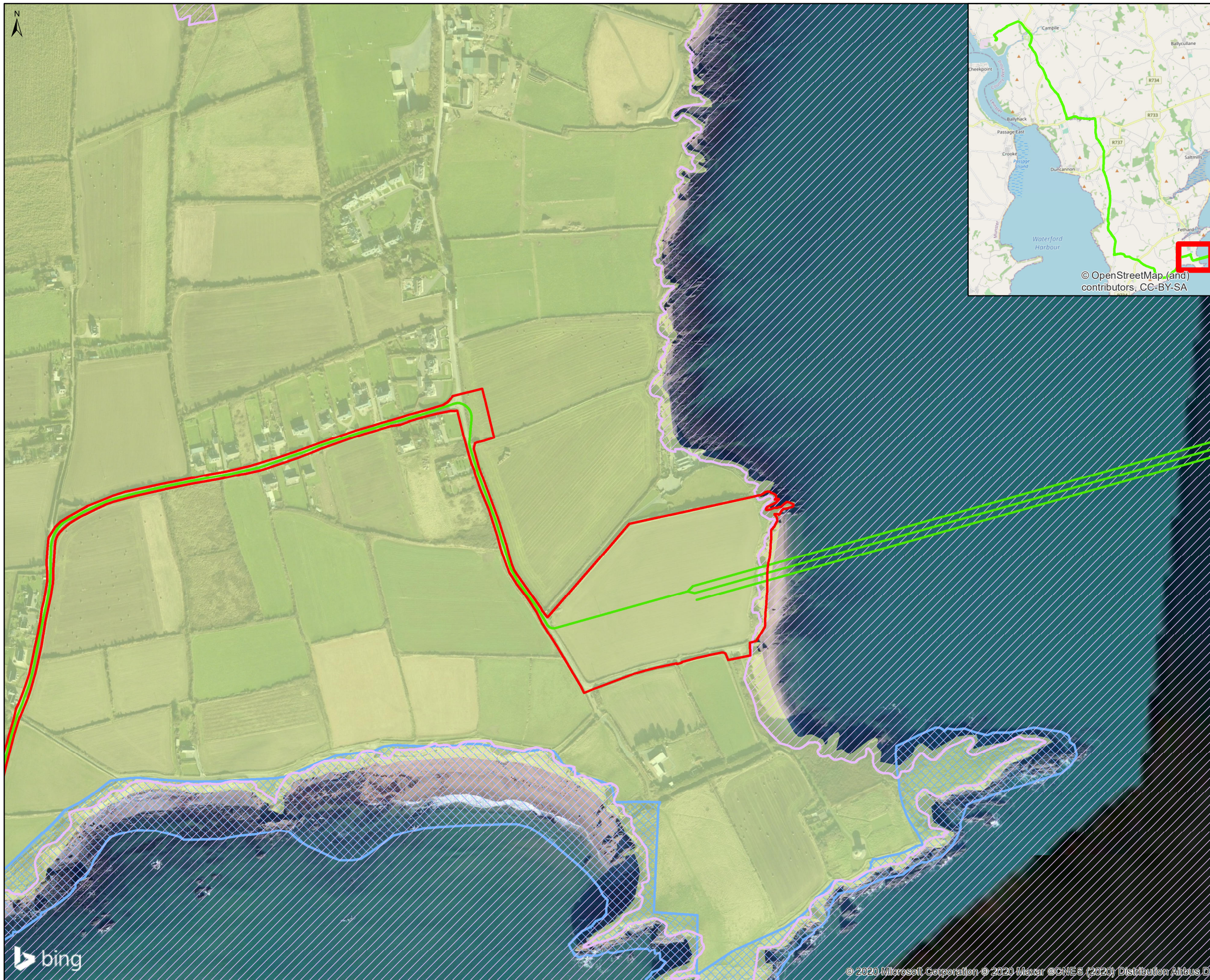
Job No  
**246369-00**

Drawing Status  
**For Issue**

Drawing No  
**Figure 12.28**

Issue  
**F2**





**Legend**

- Red Line Boundary
- Green Line
- Special Area of Conservation (SAC)
- Special Area of Conservation (SAC)
- Proposed Natural Heritage Area (PNHA)
- Proposed Natural Heritage Area (PNHA)
- Conservation Heritage Area
- S1-100

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**Hydrogeological Constraints Map  
Landfall  
Sheet 1 of 1**

Scale at A3  
**1:5,000**

Kilometers  
0 0.035 0.07 0.14

Job No <b>246369-00</b>	Drawing Status <b>For Issue</b>
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Drawing No <b>Figure 12.29</b>	Issue <b>F2</b>
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