

Appendix 12.2

Soils, Geology and Hydrogeology Figures

Contents

12 Appendix 12.2

Figure 12.1	Soils Deposit Map - Regional - Sheet 1 of 8
Figure 12.2	Soils Deposit Map - Regional - Sheet 2 of 8
Figure 12.3	Soils Deposit Map - Regional - Sheet 3 of 8
Figure 12.4	Soils Deposit Map - Regional - Sheet 4 of 8
Figure 12.5	Soils Deposit Map - Regional - Sheet 5 of 8
Figure 12.6	Soils Deposit Map - Regional - Sheet 6 of 8
Figure 12.7	Soils Deposit Map - Regional - Sheet 7 of 8
Figure 12.8	Soils Deposit Map - Regional - Sheet 8 of 8
Figure 12.9	Soils Deposit Map - Great Island - Sheet 1 of 1
Figure 12.10	Subsoils Deposit Map - Great Island - Sheet 1 of 1
Figure 12.11	Soils Deposit Map - Campile Estuary - Sheet 1 of 1
Figure 12.12	Subsoils Deposit Map - Campile Estuary - Sheet 1 of 1
Figure 12.13	Soils Deposit Map - Landfall - Sheet 1 of 1
Figure 12.14	Subsoils Deposit Map - Landfall - Sheet 1 of 1
Figure 12.15	Bedrock Geology Map Great Island - Sheet 1 of 1
Figure 12.16	Bedrock Geology Map Campile Estuary - Sheet 1 of 1
Figure 12.17	Bedrock Geology Map Landfall - Sheet 1 of 1
Figure 12.18	Geological Constraints Map Great Island - Sheet 1 of 1
Figure 12.19	Geological Constraints Map Campile Estuary - Sheet 1 of 1
Figure 12.20	Geological Constraints Map Landfall - Sheet 1 of 1
Figure 12.21	Aquifer Map Great Island - Sheet 1 of 1
Figure 12.22	Aquifer Map Campile Estuary - Sheet 1 of 1
Figure 12.23	Aquifer Map Landfall - Sheet 1 of 1
Figure 12.24	Aquifer Vulnerability Map Great Island - Sheet 1 of 1
Figure 12.25	Aquifer Vulnerability Map Campile Estuary - Sheet 1 of 1
Figure 12.26	Aquifer Vulnerability Map Landfall - Sheet 1 of 1
Figure 12.27	Hydrogeological Constraints Map Great Island - Sheet 1 of 1
Figure 12.28	Hydrogeological Constraints Map Campile Estuary - Sheet 1 of 1
Figure 12.29	Hydrogeological Constraints Map Landfall - Sheet 1 of 1



Legend

- Red Line Boundary
- HVAC Cable Route
- HVDC Cable Route

Associatio

- Lake alluvium
- Marine alluvium
- River alluvium
- Fine loamy drift with siliceous stones
- Fine loamy drift with siliceous stones
- Blown sand/Dune
- Fine loamy drift with limestones
- Fine loamy drift with siliceous stones
- Coarse loamy drift with siliceous stones
- Fine loamy drift with igneous & metamorphic stones
- Peat
- Island
- Tidal marsh
- Urban
- Water body

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Soils Deposits Map
Regional
Sheet 1 of 8

Scale at A3
1:55,000

Job No
246369-00

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For Issue

Drawing No
Figure 12.1

Issue
F1

Kilometers
0 0.4 0.8 1.6



- Legend**
- Red Line Boundary
 - HVAC Cable Route
 - HVDC Cable Route
 - GSI Quaternary Sediments**
 - A, Alluvium
 - Cut, Cut over raised peat
 - Embankment
 - FenPt, Fen Peat
 - L, Lacustrine sediments
 - MGs, Marine gravel and sands (often raised)
 - Mbs, Marine beach sands
 - Mesc, Estuarine silts and clays
 - Pier
 - Rck, Bedrock outcrop or subcrop
 - TAv, Till derived from acidic volcanic rocks
 - TCSsS, Till derived from Cambrian sandstones and shales
 - TDSs, Till derived from Devonian sandstones
 - TLPS, Till derived from Lower Palaeozoic shales
 - TdlMr, Tidal Marsh
 - Water
 - Ws, Windblown sands
 - Wsd, Windblown sands and dunes



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Subsoil Deposits Map
Regional
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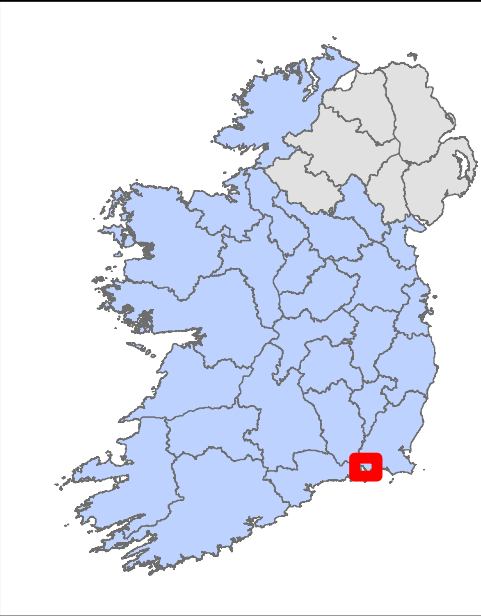
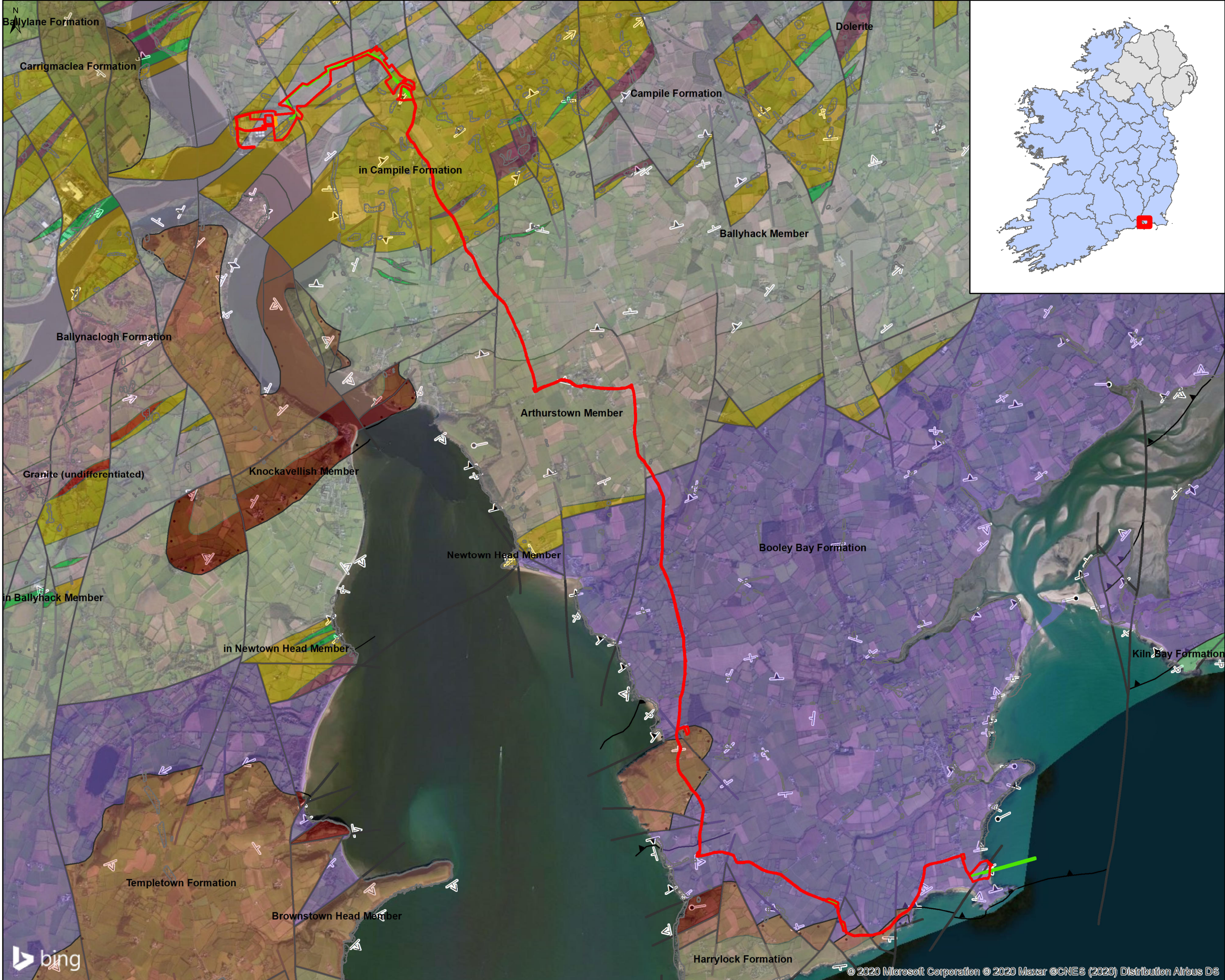
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Kilometers
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Job No 246369-00	Drawing Status For Issue
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Drawing No Figure 12.2	Issue F1
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Legend

- Red Line Boundary
- HVAC Cable Route
- HVDC Cable Route
- Bedrock Outcrops 100 ITM 2018**
 - Bedrock Outcrops 100 ITM 2018
- Bedrock Polygons 100k ITM 2018**
 - Booley Bay Formation
 - Kiln Bay Formation
 - Carrigmaclea Formation
 - Harrylock Formation
 - Templetown Formation
 - Knockavellish Member
 - Brownstown Head Member
 - Dolerite
 - Granite (undifferentiated)
 - Ballylane Formation
 - Ballynaclogh Formation
 - Campile Formation
 - Newtown Head Member
 - in Newtown Head Member
 - in Newtown Head Member
 - Arthurstown Member
 - Ballyhack Member
 - in Ballyhack Member
 - in Campile Formation
 - in Campile Formation
 - Ballyhoge Formation
- Fault
- Lithological boundary offshore
- Synclinal Axis
- Thrust, barbs on hanging-wall side
- Unconformity, dots on younger side
- Structural Symbols 100K ITM 2018**
 - Dip of bedding or main foliation, old GSI data
 - Strike and dip of bedding, right way up
 - Strike and dip of bedding, way up unknown
 - Strike and dip of first foliation
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Bedrock Geology Map
Regional
Sheet 3 of 8

Scale at A3
1:55,000
Kilometers
0 0.4 0.8 1.6

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Drawing No Figure 12.3	Issue F1



Legend

- Red Line Boundary
- HVAC Cable Route
- HVDC Cable Route

Mineral Localities

- chlorite
- clay, brick
- conglomerate
- copper
- galena
- gossan
- igneous rocks (in general)
- iron
- lead
- manganese
- pyrite
- quartz
- sandstone (in general)
- shale
- siderite
- slate

Geological Heritage Zones

- Newtown
- Raheen Shore

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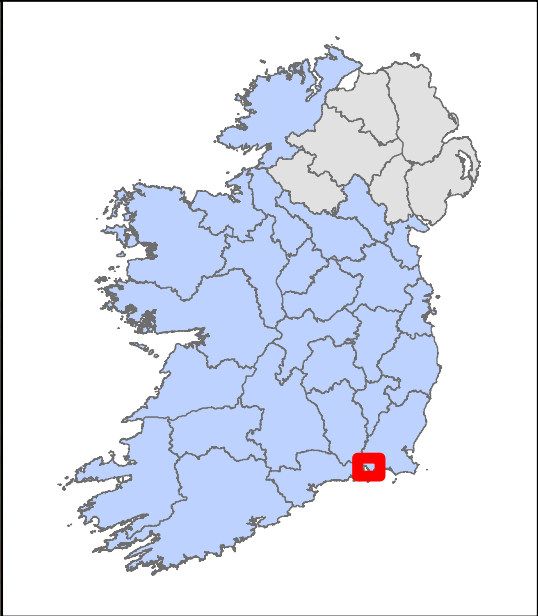
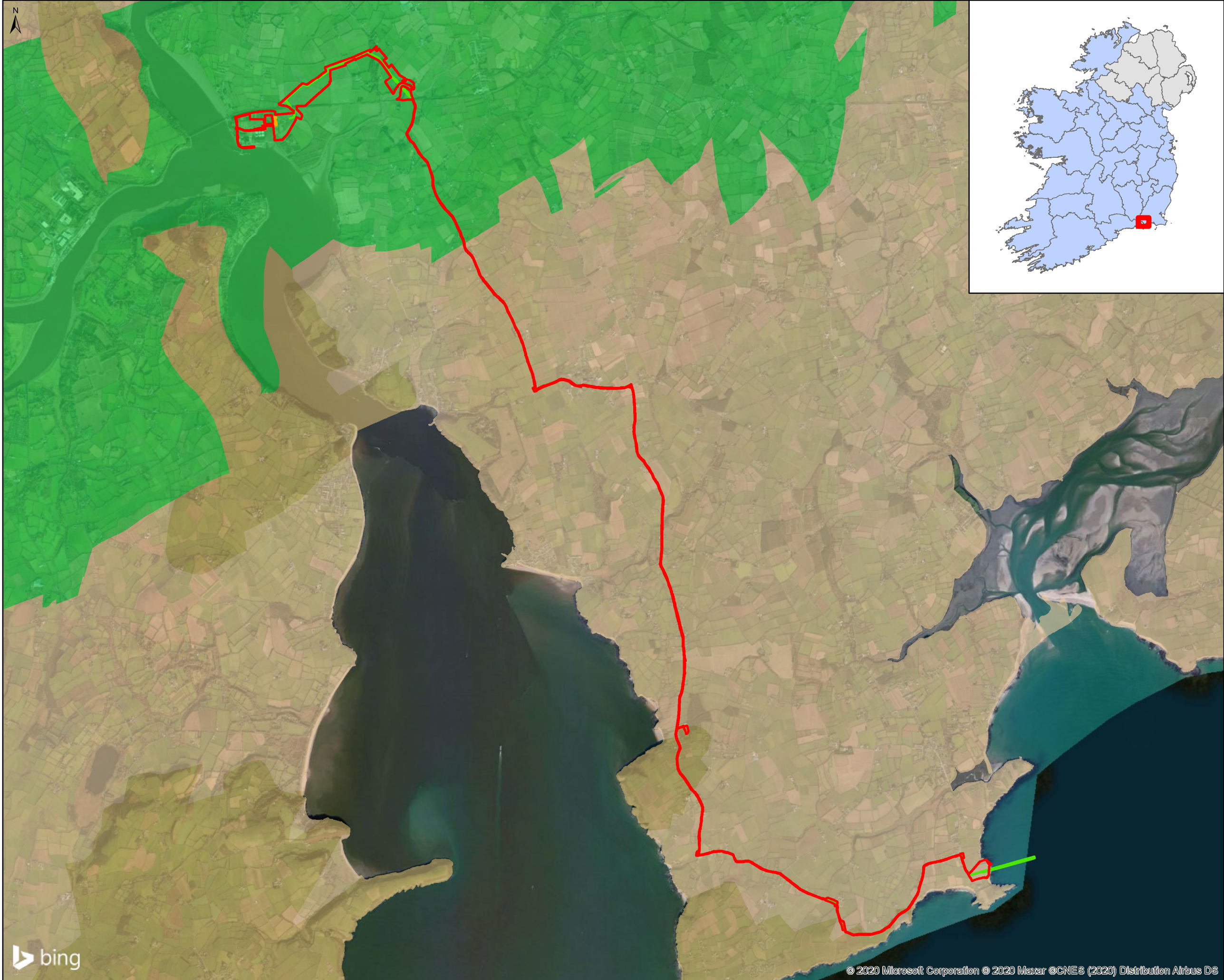
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Geological Constraints Map
Regional
Sheet 4 of 8

Scale at A3
1:55,000
Kilometers
0 0.4 0.8 1.6

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Drawing No Figure 12.4	Issue F1



- Legend**
- Red Line Boundary
 - HVAC Cable Route
 - HVDC Cable Route
- Bedrock Aquifers**
- LI - Locally Important Aquifer - Bedrock which is Moderately Productive only in Local Zones
 - PI - Poor Aquifer - Bedrock which is Generally Unproductive except for Local Zones
 - Rf - Regionally Important Aquifer - Fissured bedrock



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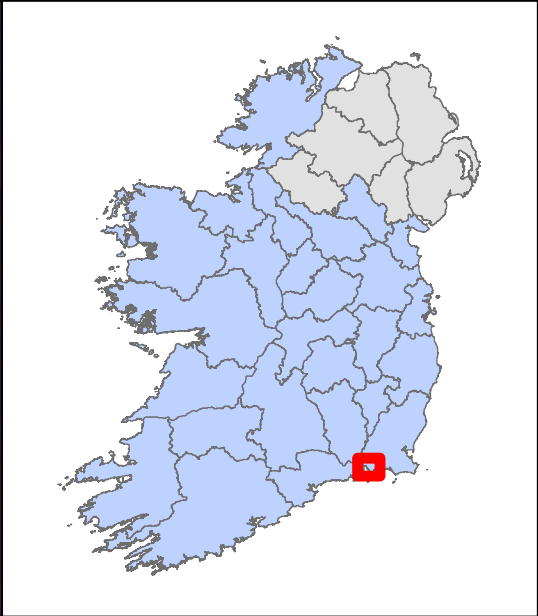
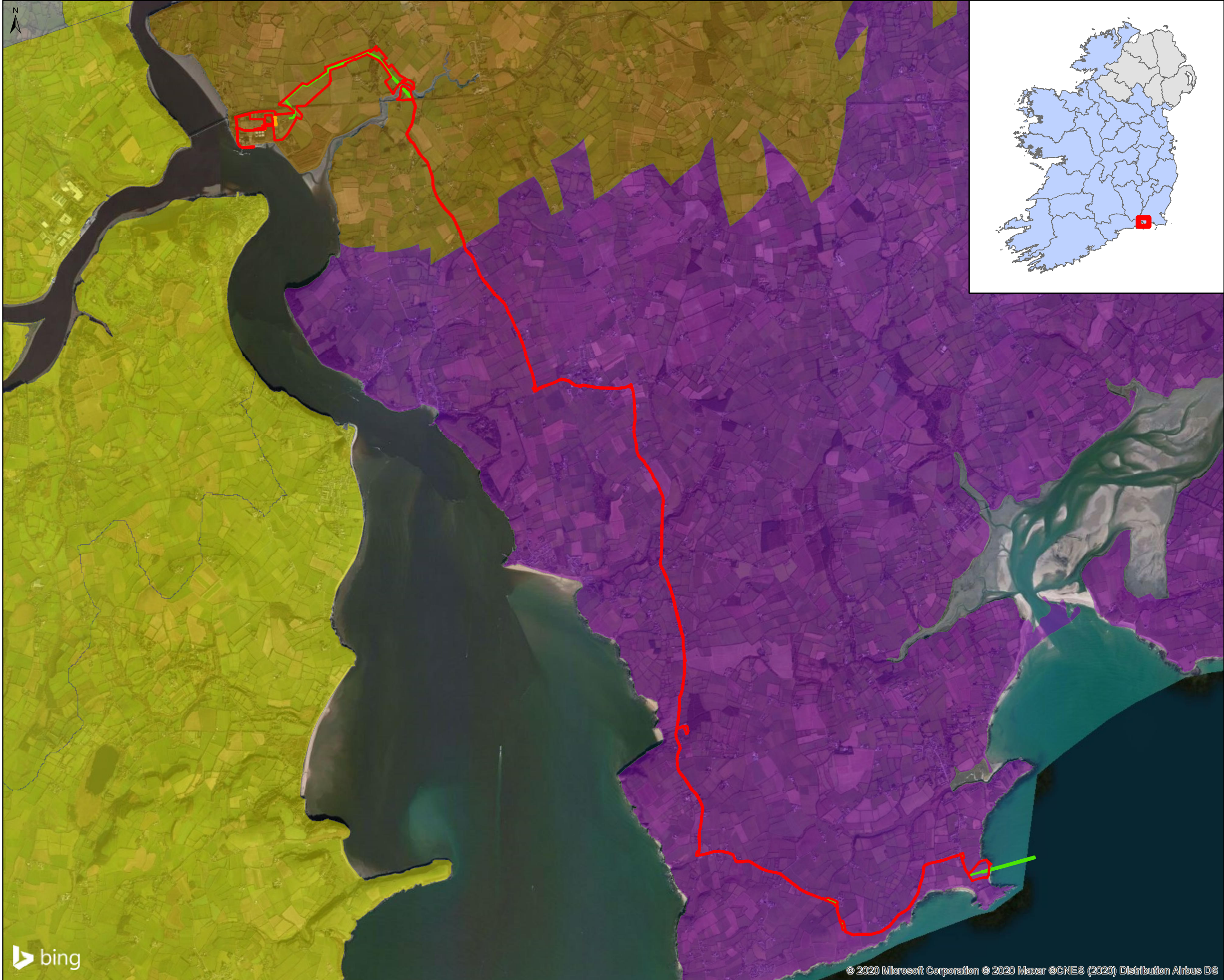
**Aquifer Map
Regional
Sheet 5 of 8**

Scale at A3
1:55,000

Kilometers
0 0.4 0.8 1.6

Job No 246369-00	Drawing Status For Issue
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Drawing No Figure 12.5	Issue F1
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- Legend**
- Red Line Boundary
 - HVAC Cable Route
 - HVDC Cable Route
 - Adamstown
 - Dunmore East
 - Fethard
 - Inistioge
 - Mullinavat
 - Waterford



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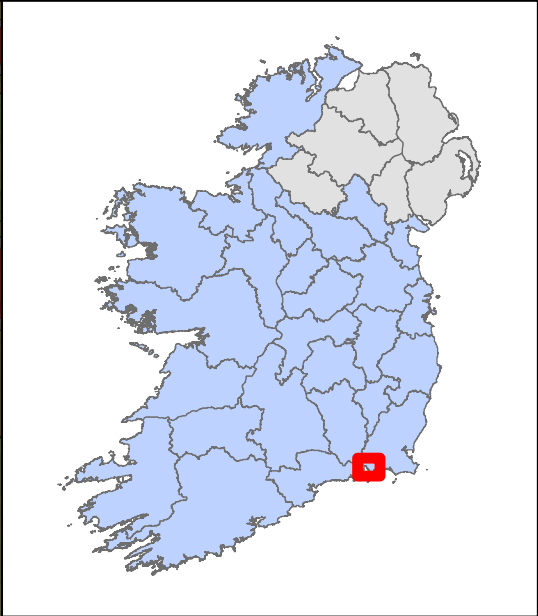
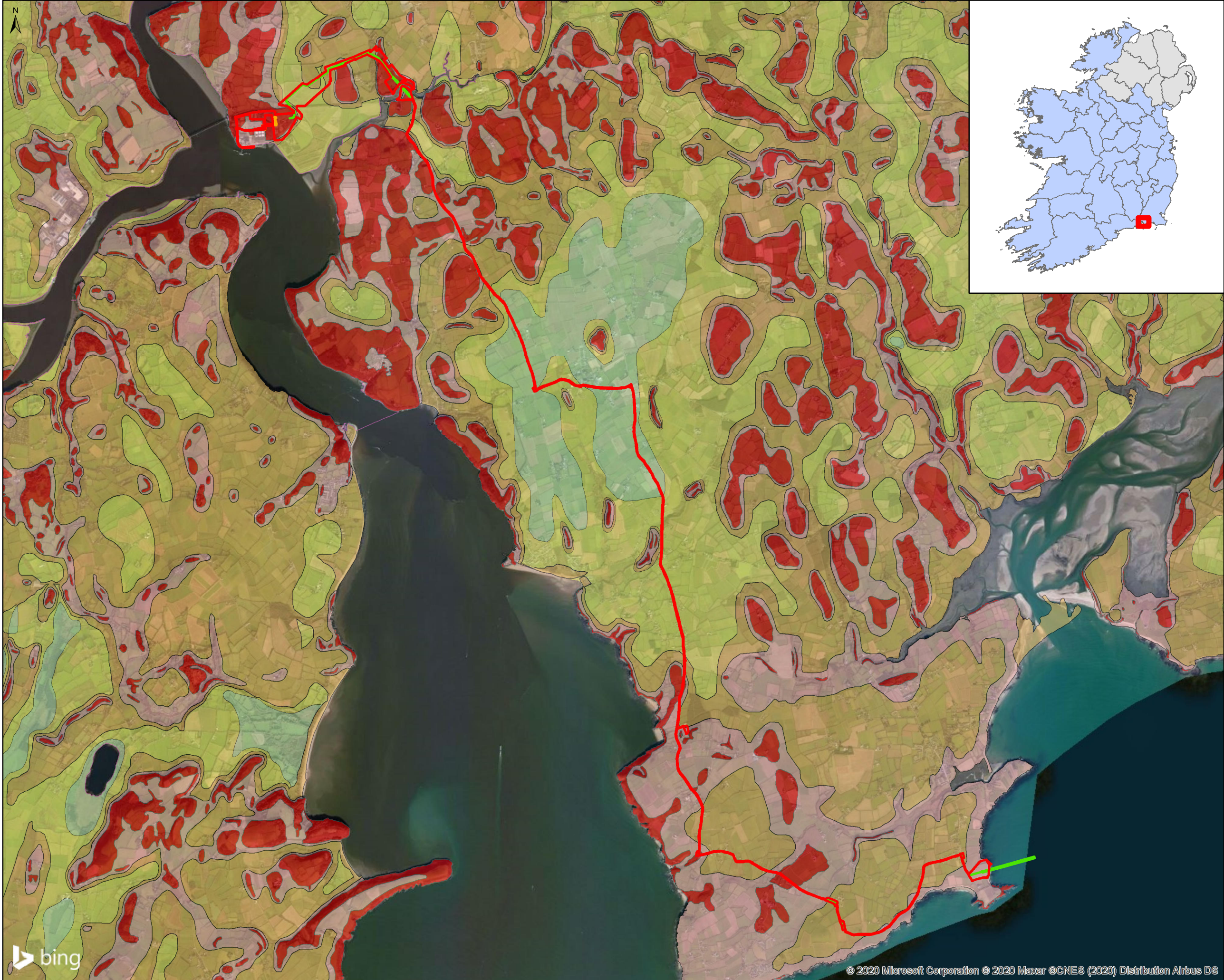
Groundwater Body Map
Regional
Sheet 6 of 8

Scale at A3
1:55,000

Kilometers
0 0.4 0.8 1.6

Job No 246369-00	Drawing Status For Issue
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Drawing No Figure 12.6	Issue F1
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Legend

- Red Line Boundary
- HVAC Cable Route
- HVDC Cable Route

Aquifer Vulnerability

- Rock at or near the surface
- Extreme
- High
- Moderate
- Low
- Water

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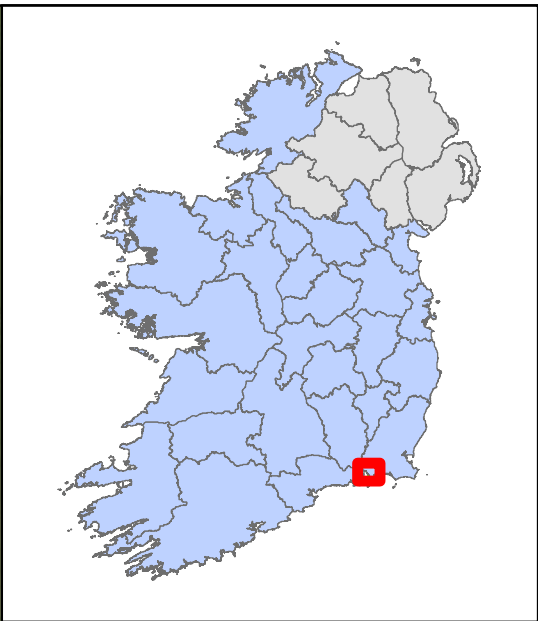
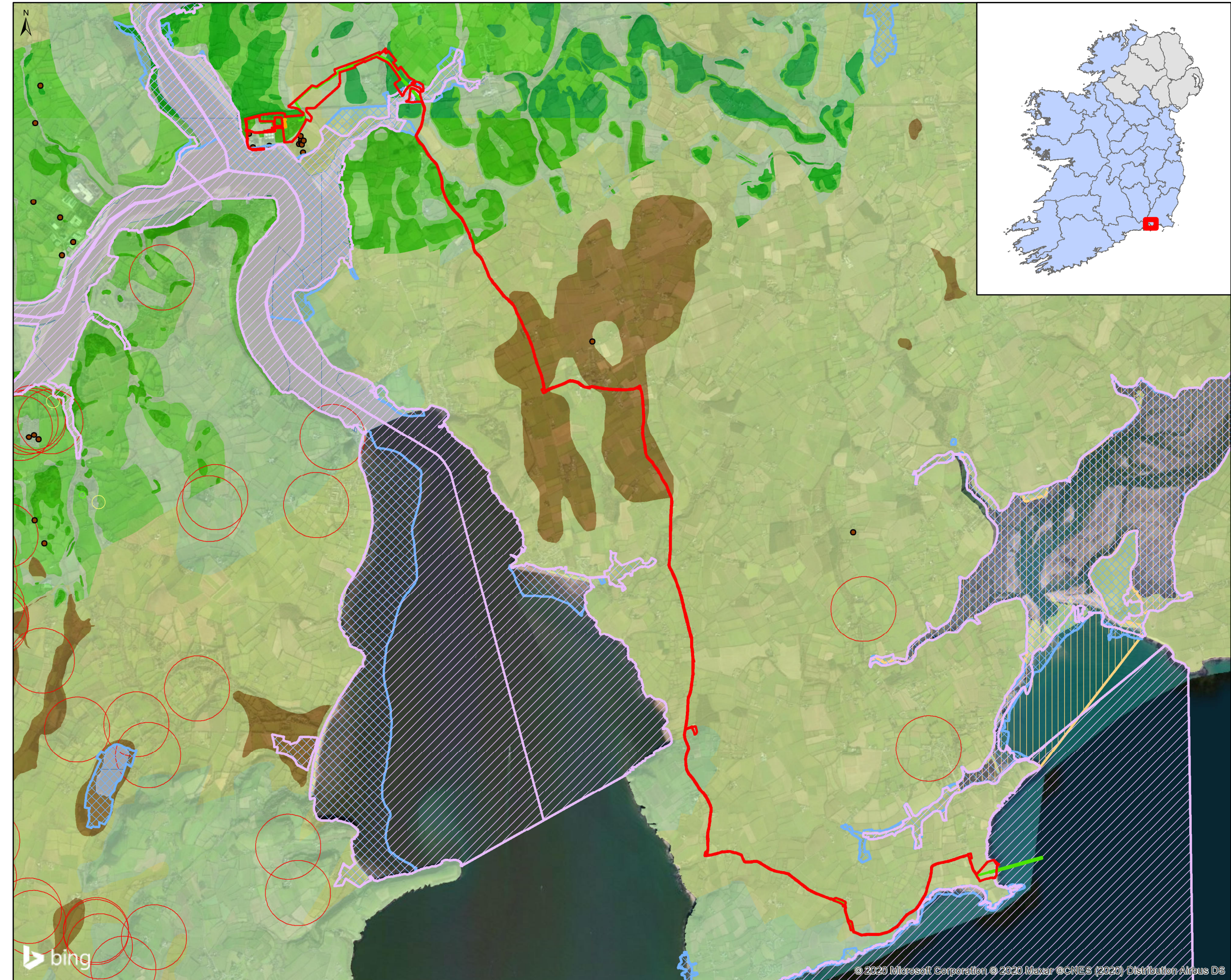
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**Aquifer Vulnerability Map
Regional
Sheet 7 of 8**

Scale at A3
1:55,000

Job No 246369-00	Drawing Status For Issue
Drawing No Figure 12.7	Issue F1

Kilometers
0 0.4 0.8 1.6



Legend

- Red Line Boundary
- HVAC Cable Route
- HVDC Cable Route
- Special Area of Conservation (SAC)
- Special Area of Conservation (SAC)
- Proposed Natural Heritage Area (pNHA)
- Proposed Natural Heritage Area (pNHA)
- Special Protection Area (SPA)
- Special Protection Area (SPA)

Well accuracy from 10 to 50m

- Well accuracy from 10 to 50m

Well accuracy from 50 to 100m

- Well accuracy from 50 to 100m

Well accuracy from 100 to 200m

- Well accuracy from 100 to 200m

Well accuracy from 500 to 1km

- Well accuracy from 500 to 1km

Groundwater Recharge mm/yr

- 0
- 1-50
- 51-100
- 101-150
- 151-200
- 301-350
- 351-400
- 401-450
- 451-500
- 501-550
- 551-600
- water

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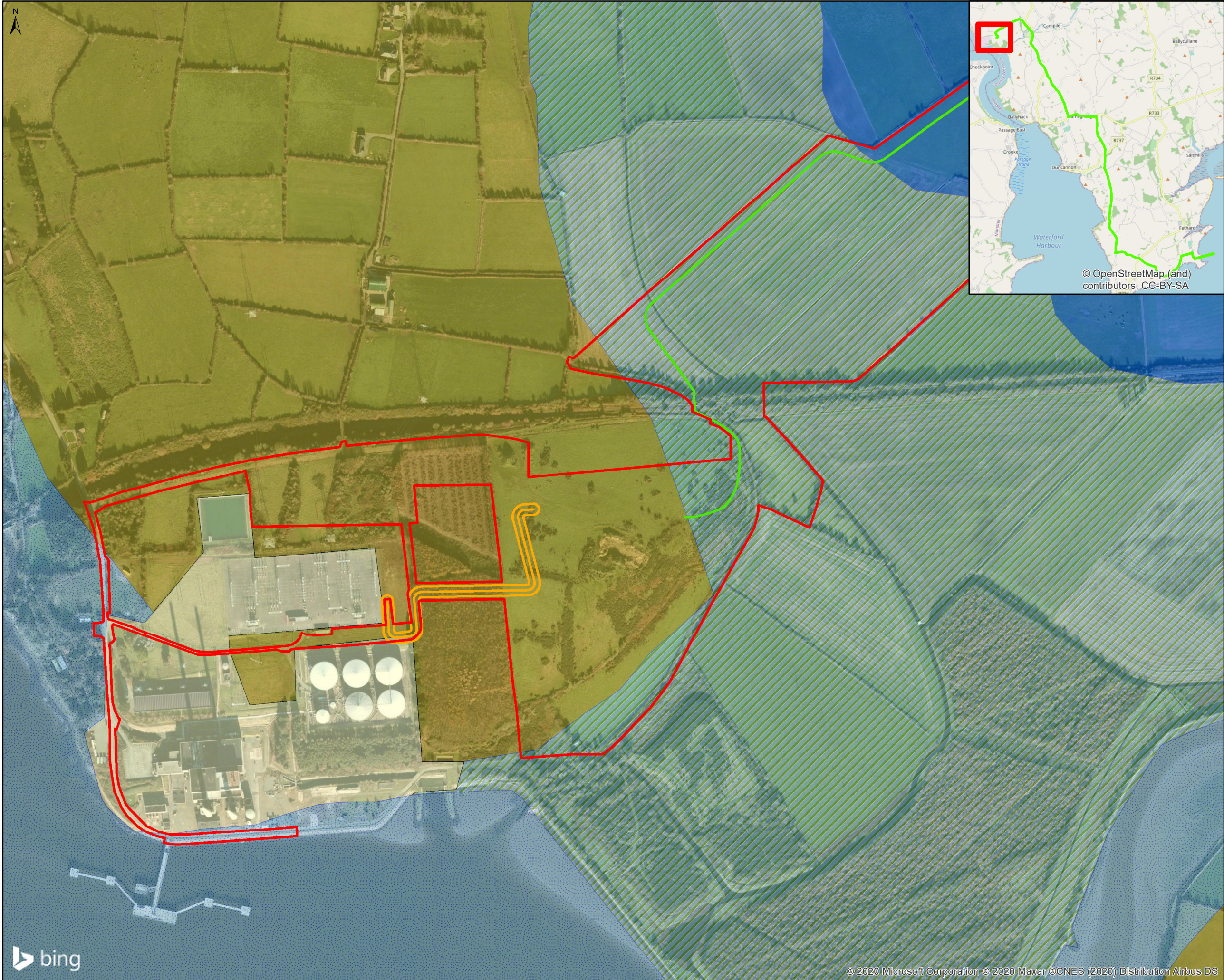
Hydrogeological Constraints Map
Regional
Sheet 8 of 8

Scale at A3
1:55,000

Kilometers
0 0.4 0.8 1.6

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Drawing No Figure 12.8	Issue F1
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Legend

- Red Line Boundary
- HVAC Cable Route
- HVDC Cable Route

Associatio

- Lake alluvium
- Fine loamy drift with siliceous stones
- Tidal marsh
- Urban
- Water body

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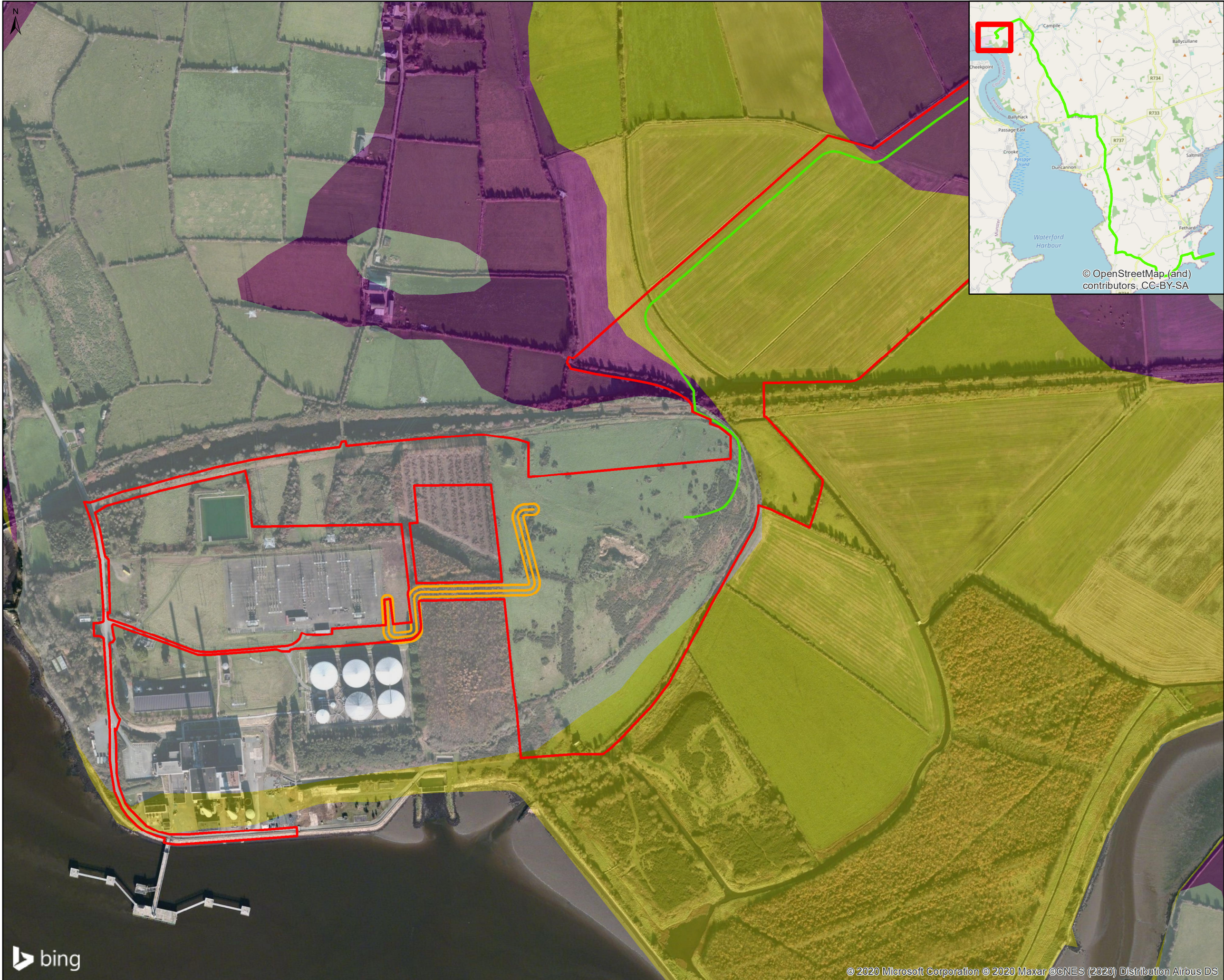
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Soils Deposits Map
Great Island
Sheet 1 of 1

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 12.9	Issue F1



Legend

- Red Line Boundary
- HVAC Cable Route
- HVDC Cable Route

GSI Quaternary Sediments

- Mesc, Esturine silts and clays
- Rck, Bedrock outcrop or subcrop
- TLPS, Till derived from Lower Palaeozoic shales
- Water

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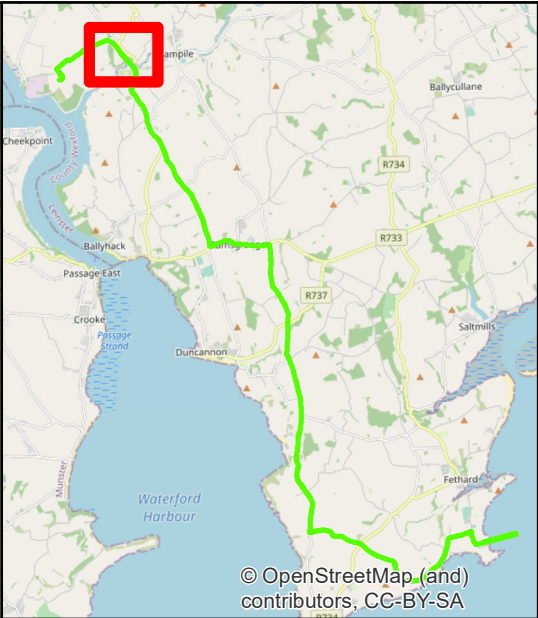
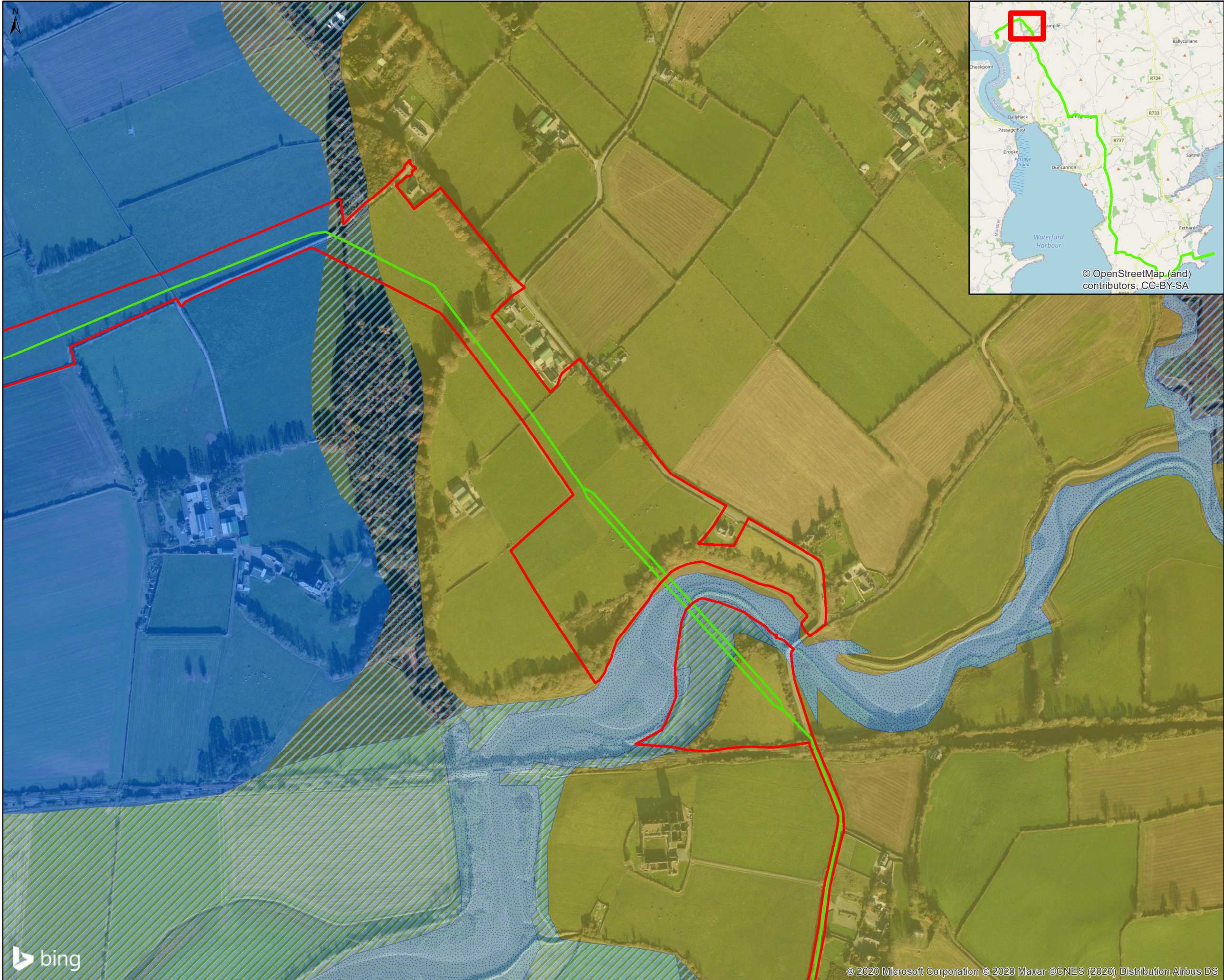
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**Subsoil Deposits Map
Great Island
Sheet 1 of 1**

Scale at A3
1:5,000

Kilometers
0 0.035 0.07 0.14

Job No 246369-00	Drawing Status For Issue
Drawing No Figure 12.10	Issue F1



Legend

- Red Line Boundary
- HVDC Cable Route

Associatio

- Lake alluvium
- River alluvium
- Fine loamy drift with siliceous stones
- Tidal marsh
- Water body

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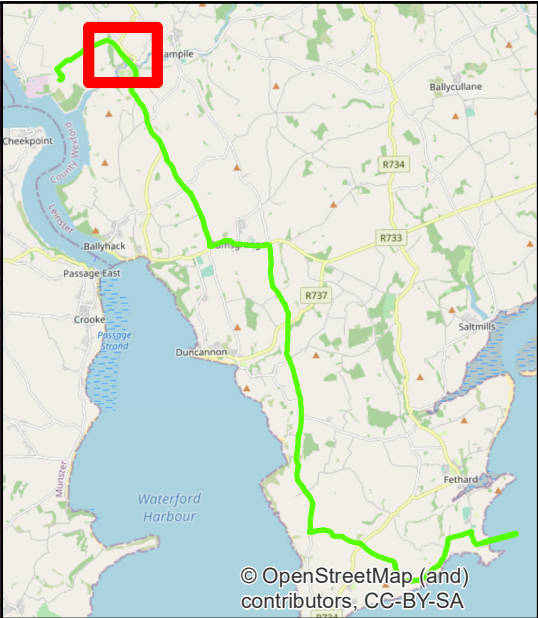
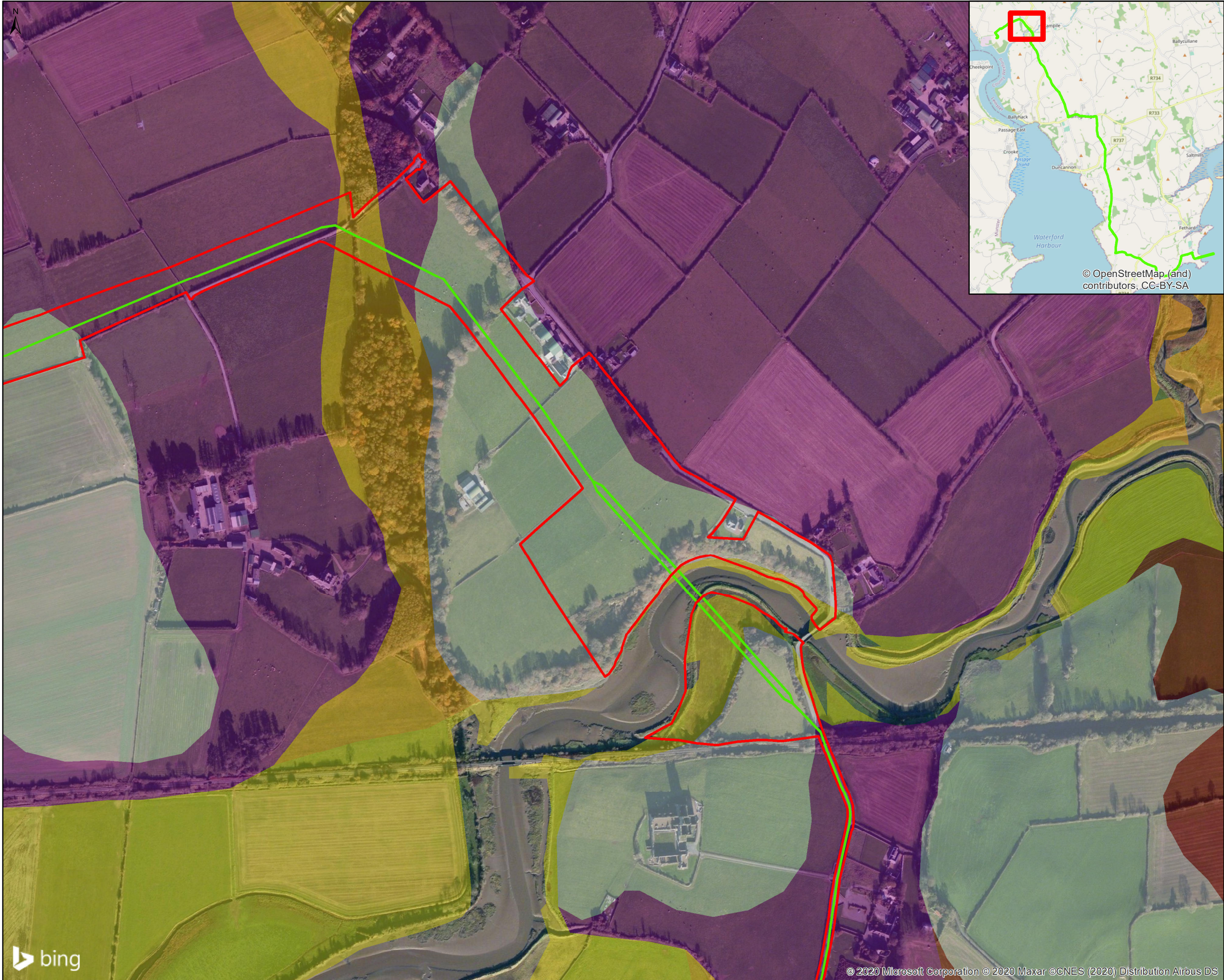
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Soils Deposits Map
Campile Estuary
Sheet 1 of 1

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 12.11	Issue F1



Legend

- Red Line Boundary
- HVDC Cable Route

GSI Quaternary Sediments

- A, Alluvium
- Mesc, Estuarine silts and clays
- Rck, Bedrock outcrop or subcrop
- TAv, Till derived from acidic volcanic rocks
- TLPS, Till derived from Lower Palaeozoic shales
- Water



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**Subsoil Deposits 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
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Drawing No Figure 12.12	Issue F1
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Legend

- Red Line Boundary
- HVDC Cable Route

Associatio

- Fine loamy drift with limestones
- Tidal marsh

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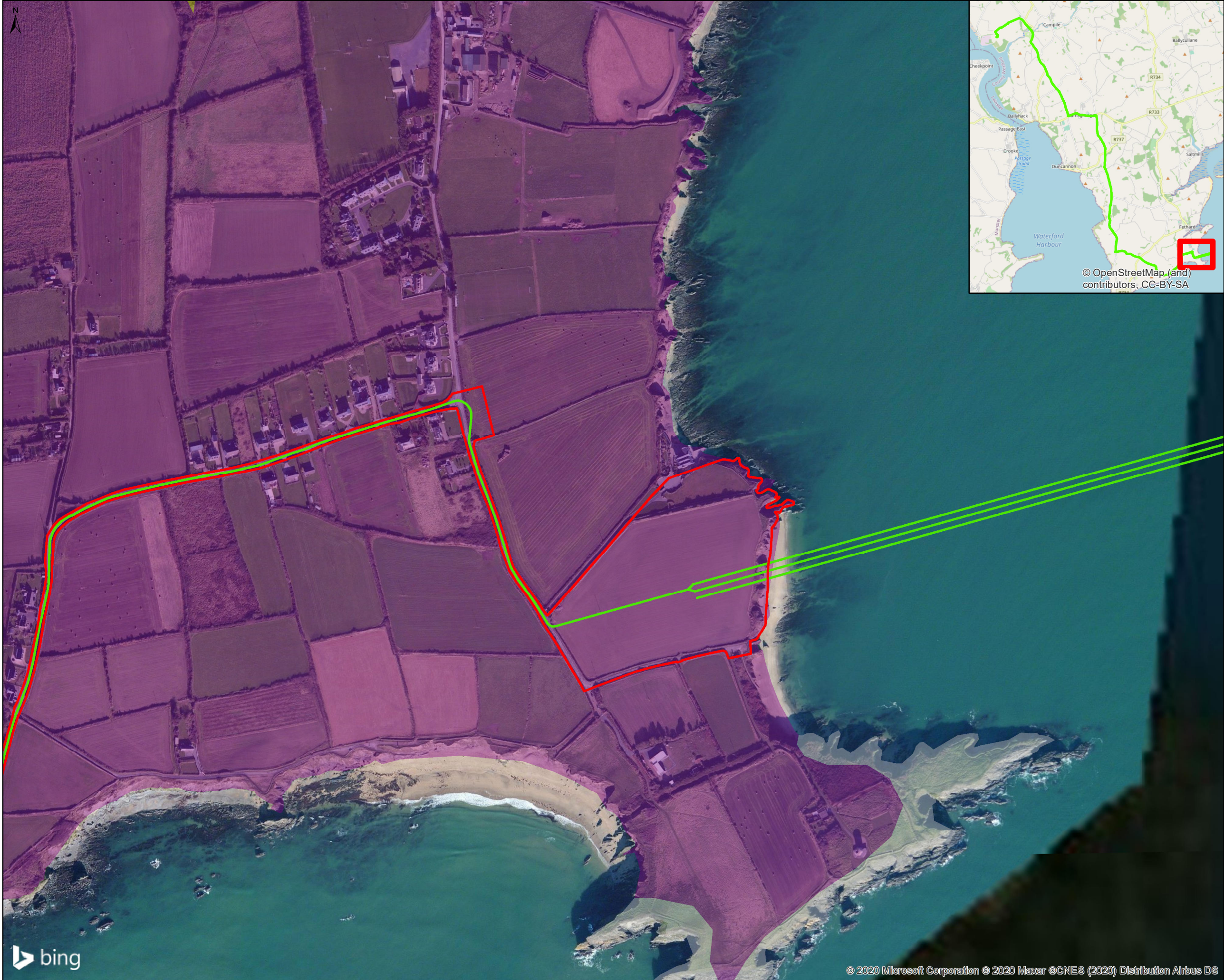
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Soils Deposits Map
Landfall
Sheet 1 of 1

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 12.13	Issue F1



Legend

- Red Line Boundary
- HVDC Cable Route

GSI Quaternary Sediments

- Mesc, Estuarine silts and clays
- Rck, Bedrock outcrop or subcrop
- TLPS, Till derived from Lower Palaeozoic shales



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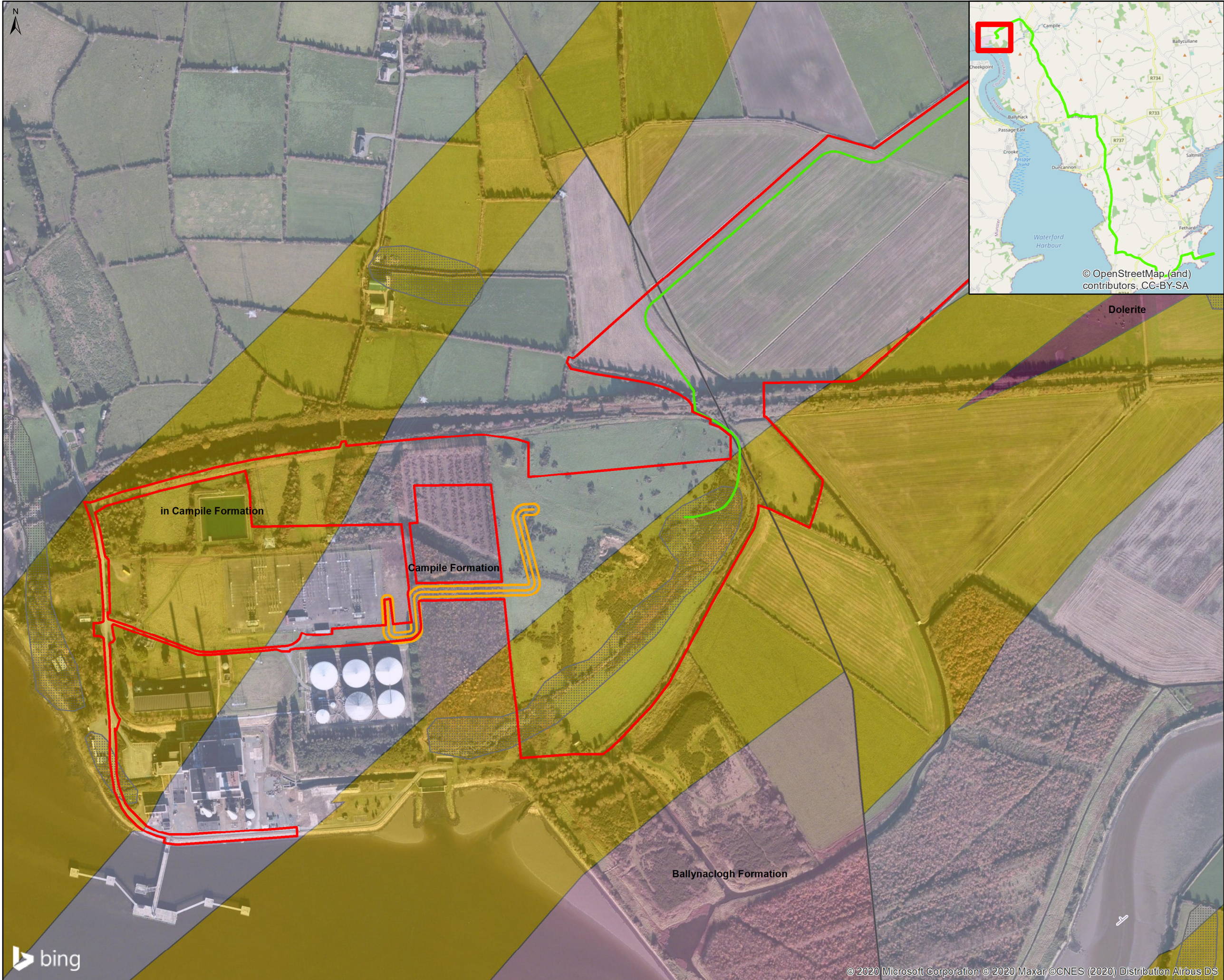
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Subsoil Deposits Map
Landfall
Sheet 1 of 1

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 12.14	Issue F1



Legend

- Red Line Boundary
- HVAC Cable Route
- HVDC Cable Route
- Bedrock Outcrops 100 ITM 2018**
- Bedrock Outcrops 100 ITM 2018
- Bedrock Polygons 100k ITM 2018**
- Dolerite
- Ballynaclogh Formation
- Campile Formation
- in Campile Formation
- Fault
- Structural Symbols 100K ITM 2018**
- Strike and dip of bedding, way up unknown



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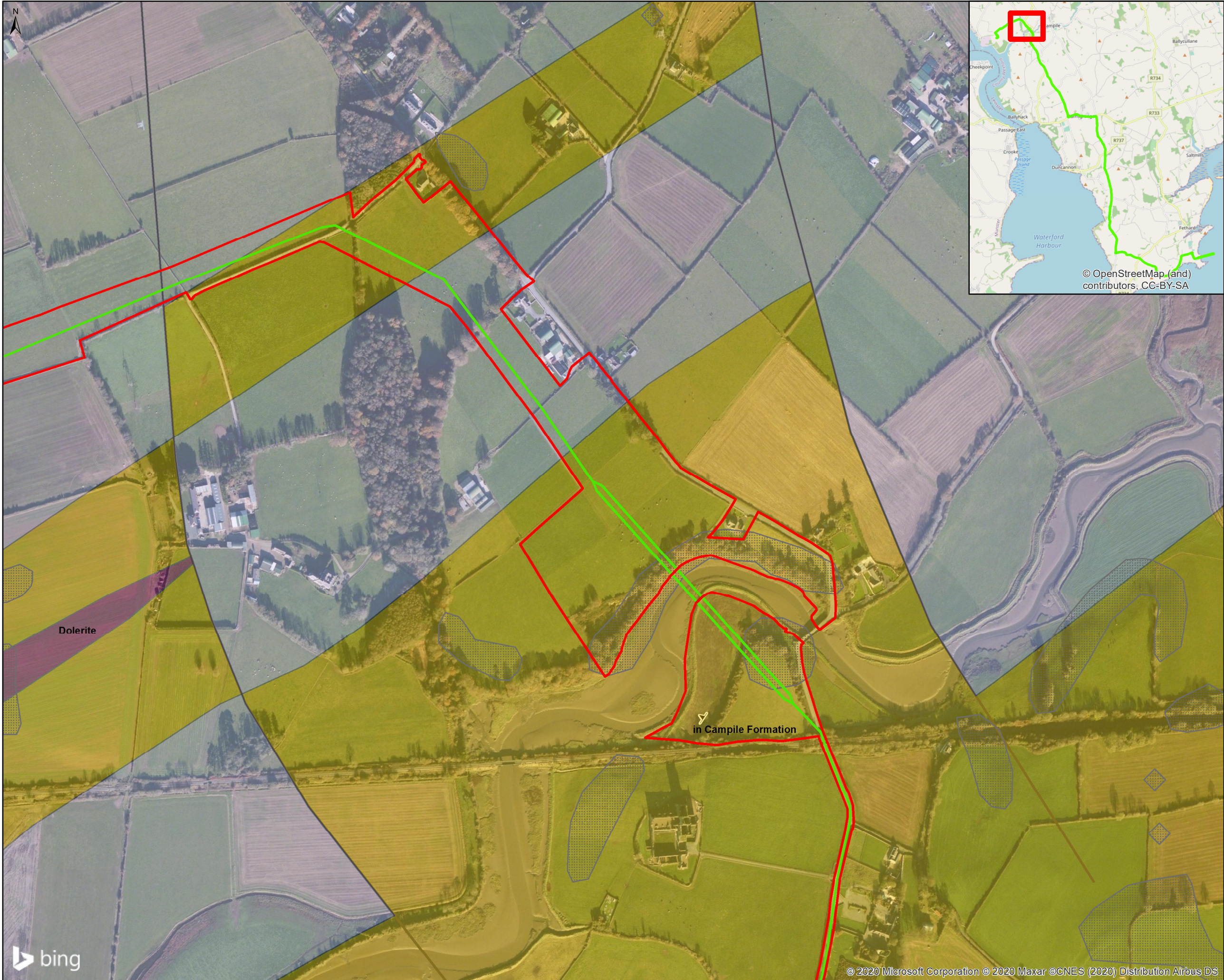
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Bedrock Geology Map
Great Island
Sheet 1 of 1

Scale at A3
1:5,000

Kilometers
0 0.035 0.07 0.14

Job No 246369-00	Drawing Status For Issue
Drawing No Figure 12.15	Issue F1



Legend

- Red Line Boundary
- HVDC Cable Route
- Bedrock Outcrops 100 ITM 2018**
- Bedrock Outcrops 100 ITM 2018
- Bedrock Polygons 100k ITM 2018**
- Dolerite
- Campile Formation
- in Campile Formation
- Fault
- Structural Symbols 100K ITM 2018**
- Strike and dip of first foliation

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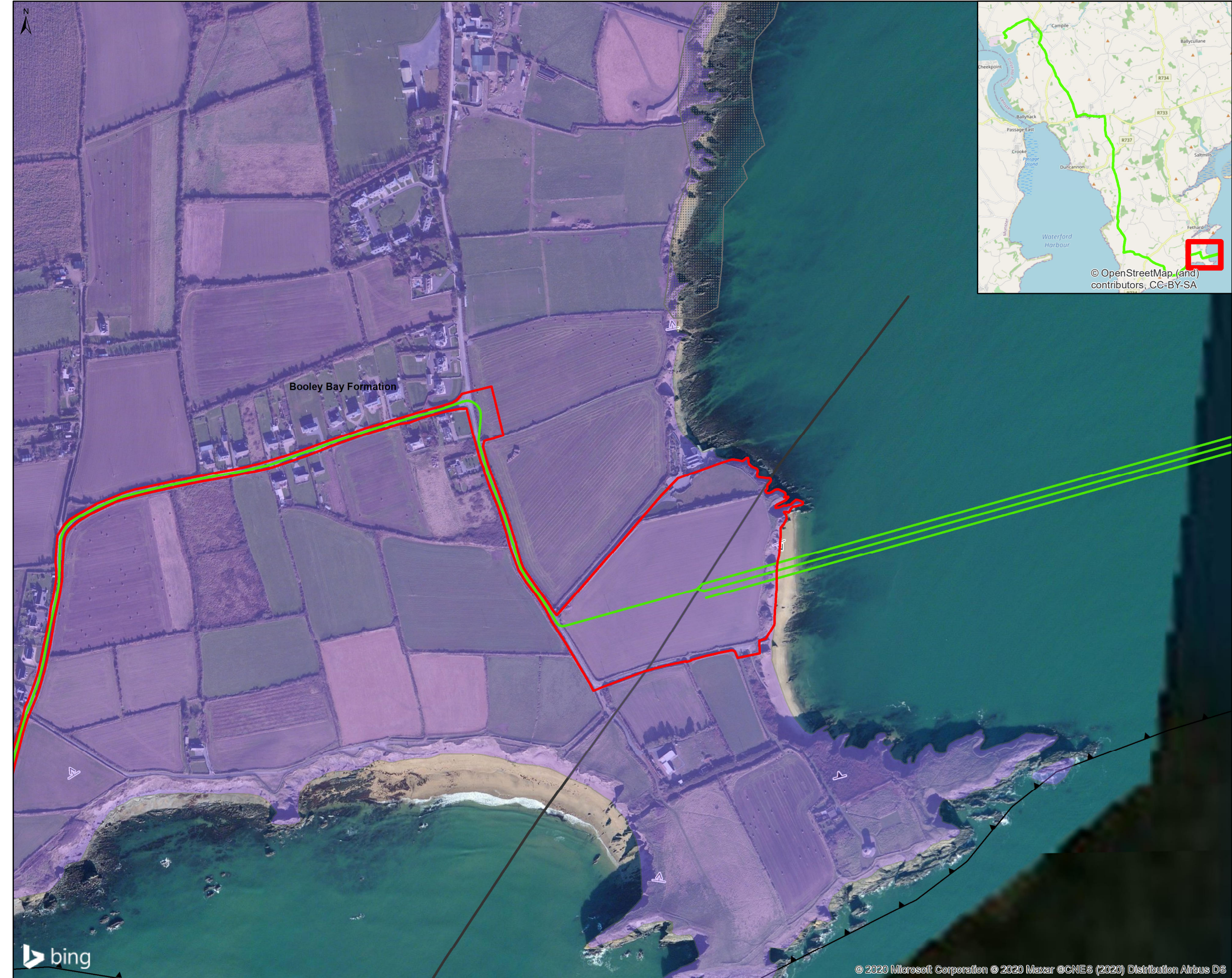
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Bedrock Geology Map
Campile Estuary
Sheet 1 of 1

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 12.16	Issue F1



Legend

- Red Line Boundary
- HVDC Cable Route
- Bedrock Outcrops 100 ITM 2018**
- Bedrock Outcrops 100 ITM 2018
- Bedrock Polygons 100k ITM 2018**
- Booley Bay Formation
- Fault
- Thrust, barbs on hanging-wall side
- Structural Symbols 100K ITM 2018**
- Strike and dip of bedding, right way up
- Strike and dip of first foliation

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Bedrock Geology Map
Landfall
Sheet 1 of 1

Scale at A3
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Figure 12.17

Issue
F1

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Legend

- Red Line Boundary
- HVAC Cable Route
- HVDC Cable Route

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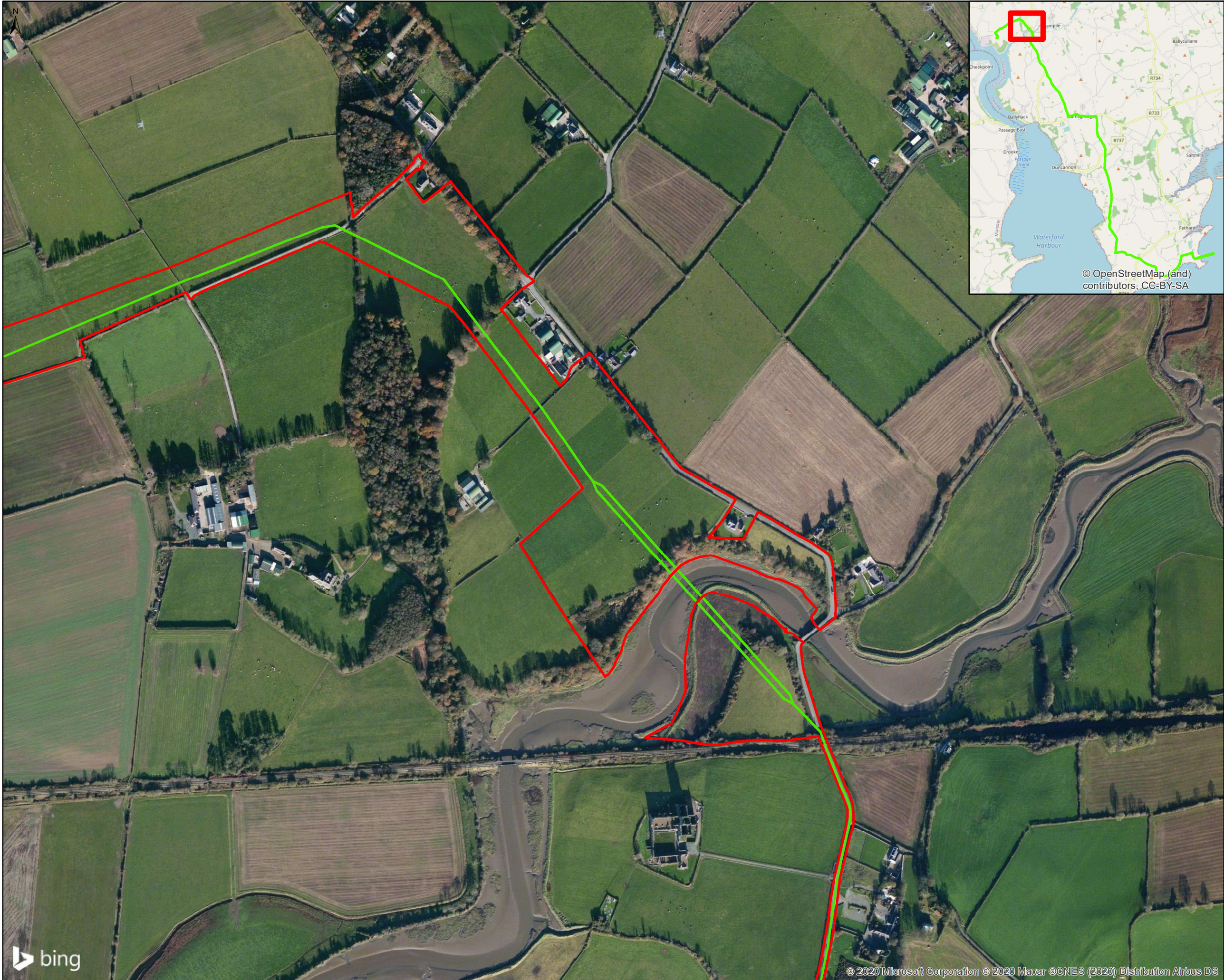
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Geological Constraints Map
Great Island
Sheet 1 of 1

Scale at A3
1:5,000

Kilometers
0 0.035 0.07 0.14

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Drawing No Figure 12.18	Issue F1



Legend

- Red Line Boundary
- HVDC Cable Route

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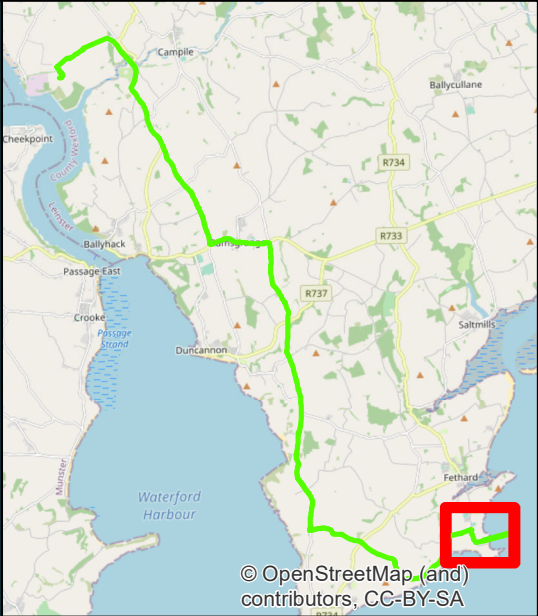
Geological Constraints Map
Campile Estuary
Sheet 1 of 1

Scale at A3

1:5,000

Kilometers
0 0.035 0.07 0.14

Job No 246369-00	Drawing Status For Issue
Drawing No Figure 12.19	Issue F1



- Legend**
- Red Line Boundary
 - HVDC Cable Route
 - Mineral Localities**
 - conglomerate
 - iron
 - sandstone (in general)



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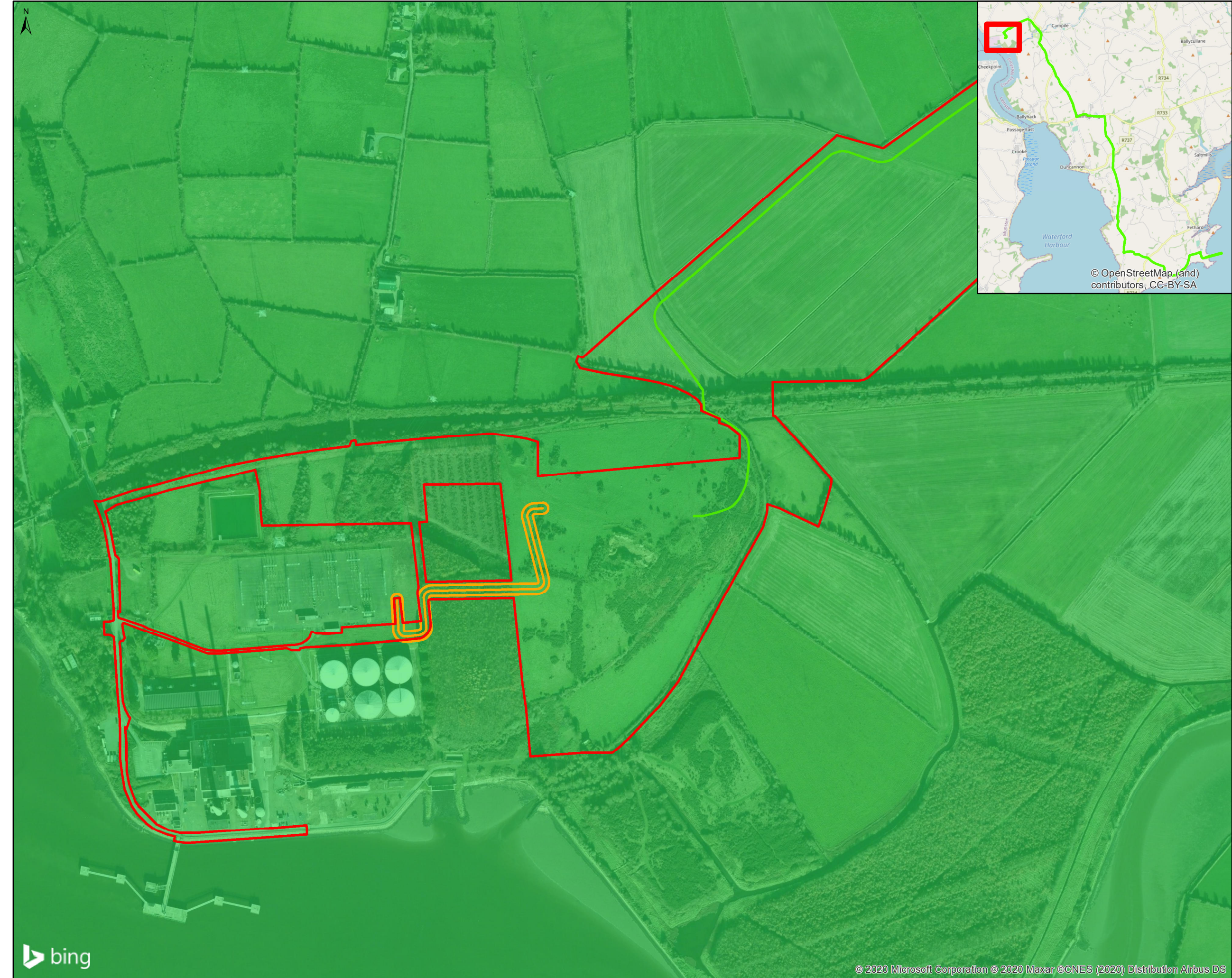
**Geological Constraints Map
Landfall
Sheet 1 of 1**

Scale at A3
1:5,000

Kilometers
0 0.035 0.07 0.14

Job No 246369-00	Drawing Status For Issue
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Drawing No Figure 12.20	Issue F1
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Legend

- Red Line Boundary
- HVAC Cable Route
- HVDC Cable Route

Bedrock Aquifers

- Rf - Regionally Important Aquifer - Fissured bedrock



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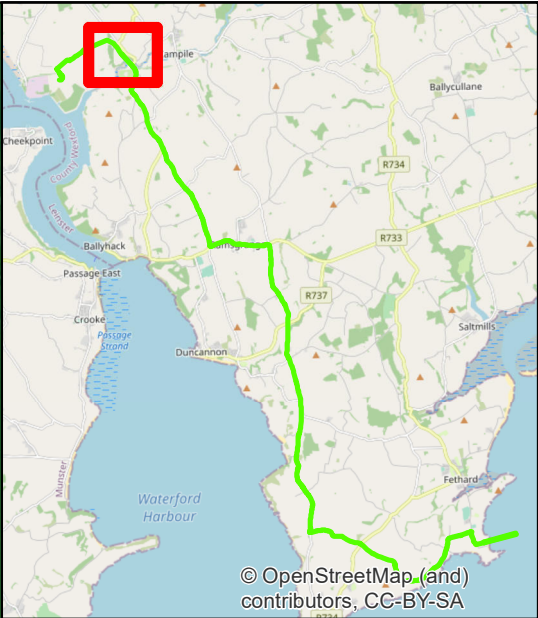
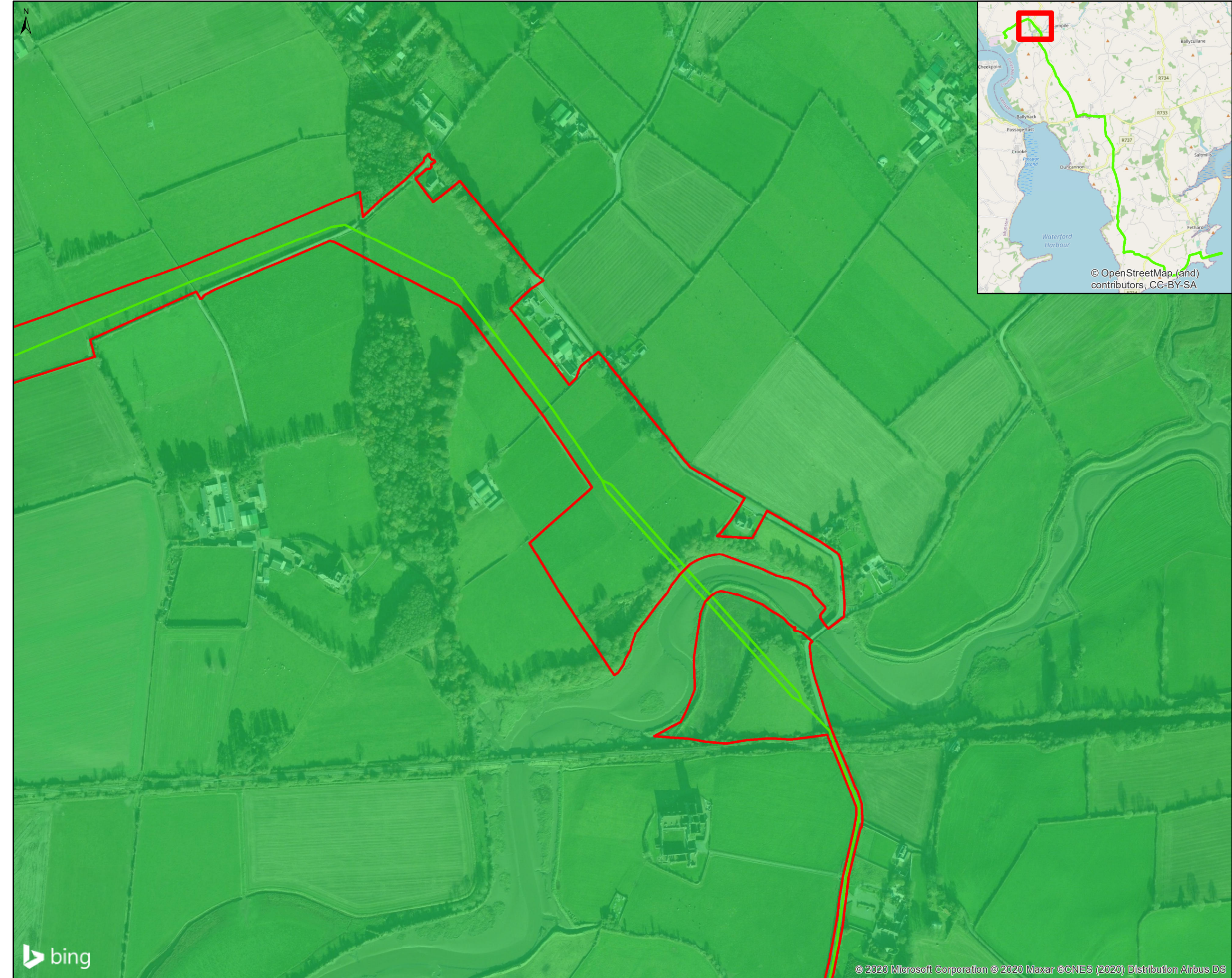
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**Aquifer Map
Great Island
Sheet 1 of 1**

Scale at A3
1:5,000

Kilometers
0 0.035 0.07 0.14

Job No 246369-00	Drawing Status For Issue
Drawing No Figure 12.21	Issue F1



Legend

- Red Line Boundary
- HVDC Cable Route

Bedrock Aquifers

- Rf - Regionally Important Aquifer - Fissured bedrock



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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 246369-00	Drawing Status For Issue
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Drawing No Figure 12.22	Issue F1
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Legend

- Red Line Boundary
- HVDC Cable Route

Bedrock Aquifers

- PI - Poor Aquifer - Bedrock which is Generally Unproductive except for Local Zones

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**Aquifer Map
Landfall
Sheet 1 of 1**

Scale at A3
1:5,000

Job No
246369-00

Drawing Status
For Issue

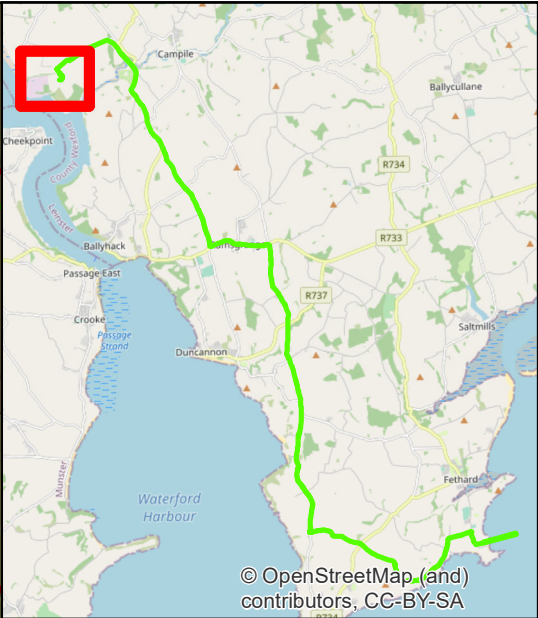
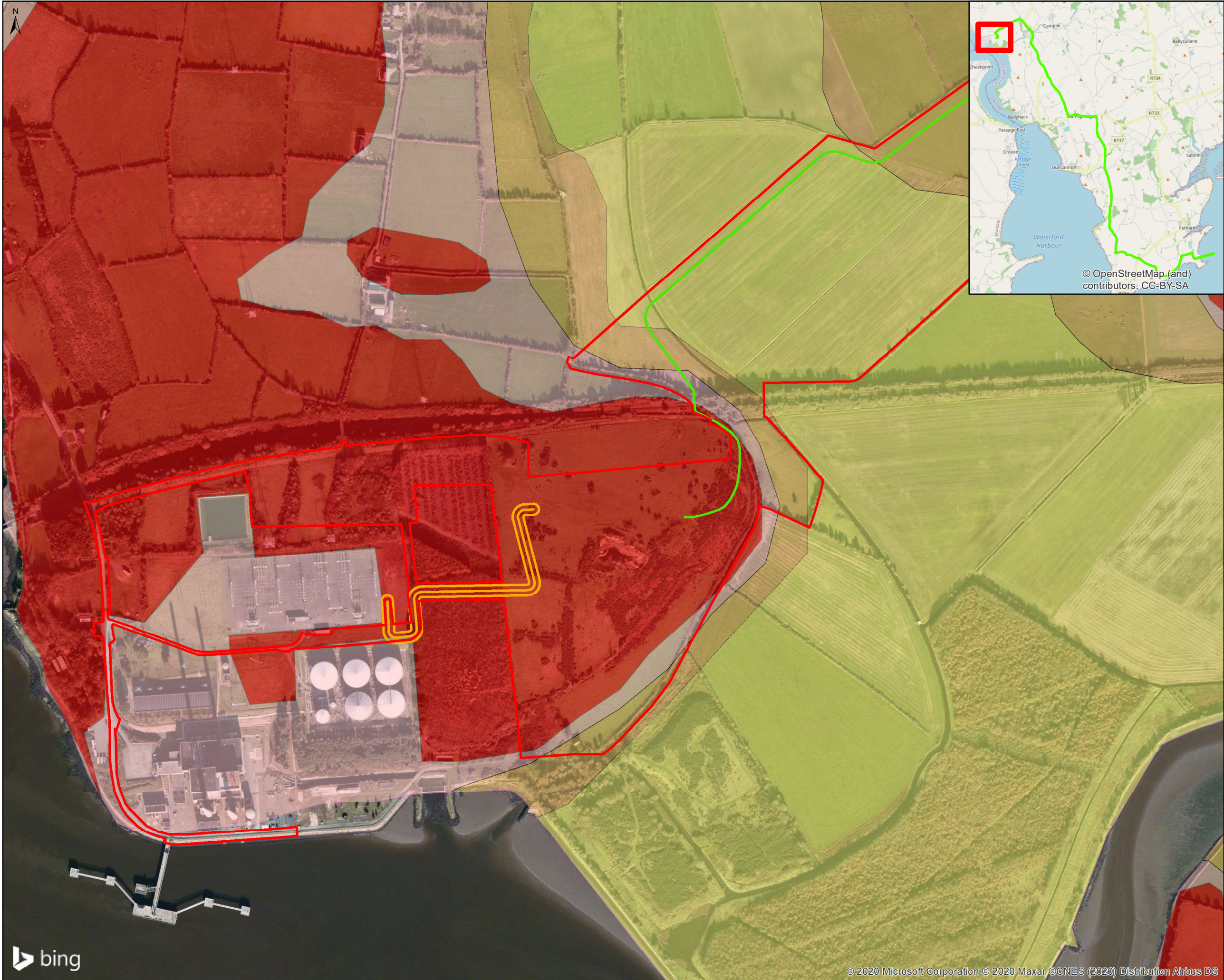
Drawing No
Figure 12.23

Issue
F1

Kilometers
0 0.035 0.07 0.14

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- Legend**
- Red Line Boundary
 - HVAC Cable Route
 - HVDC Cable Route
- Aquifer Vulnerability**
- Rock at or near the surface
 - Extreme
 - High
 - Moderate
 - Water



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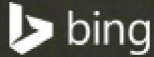
**Aquifer Vulnerability Map
Great Island
Sheet 1 of 1**

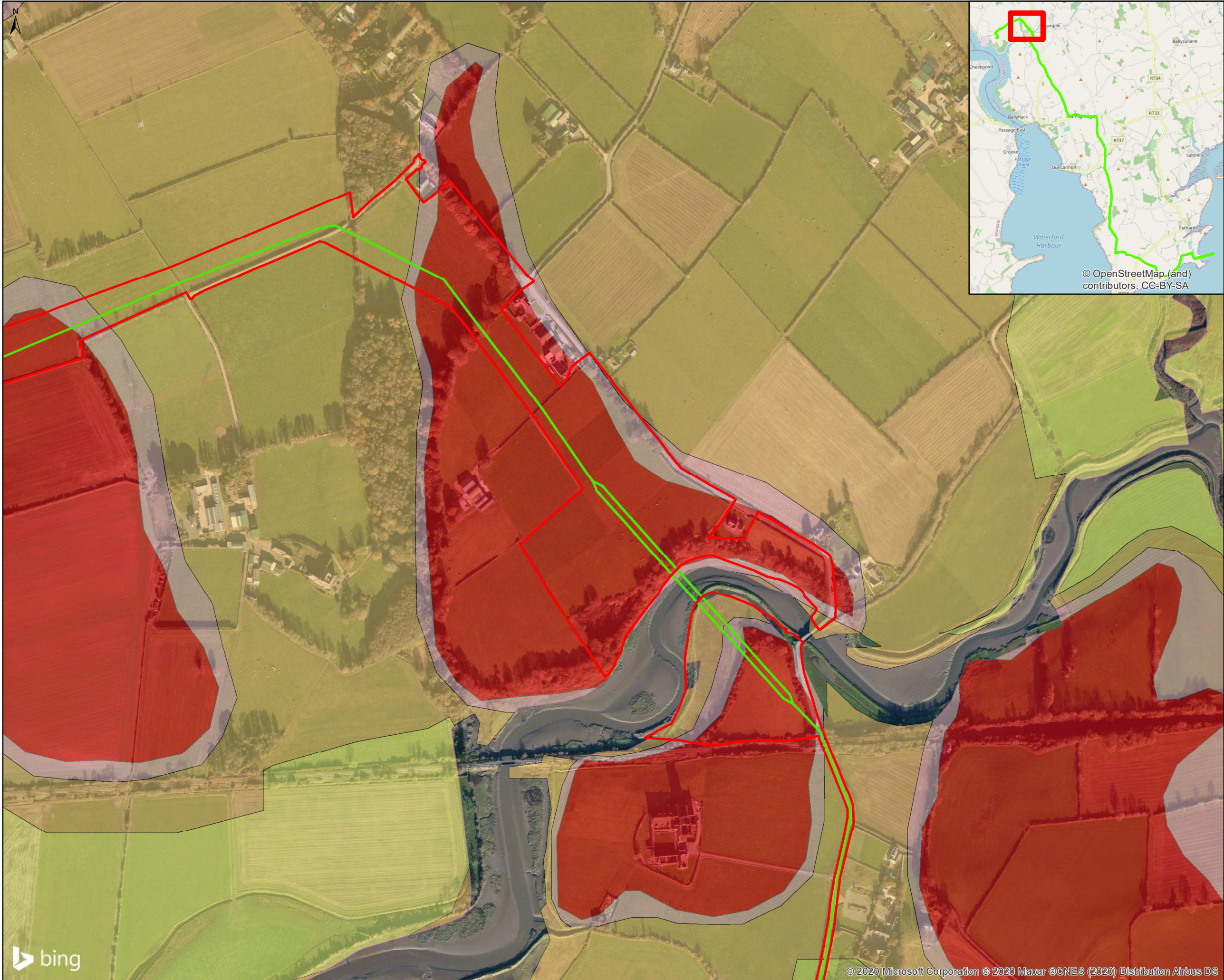
Scale at A3
1:5,000

Kilometers
0 0.035 0.07 0.14

Job No 246369-00	Drawing Status For Issue
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Drawing No Figure 12.24	Issue F1
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Legend

- Red Line Boundary
- HVDC Cable Route
- Aquifer Vulnerability**
 - Rock at or near the surface
 - Extreme
 - High
 - Moderate
 - Water

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

Scale at A3
1:5,000

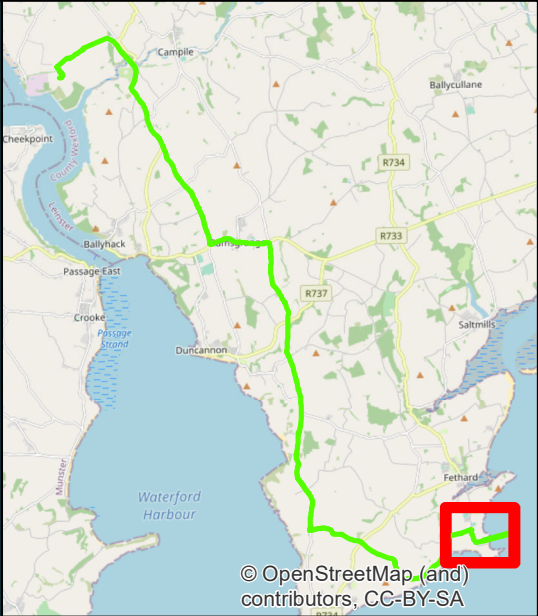
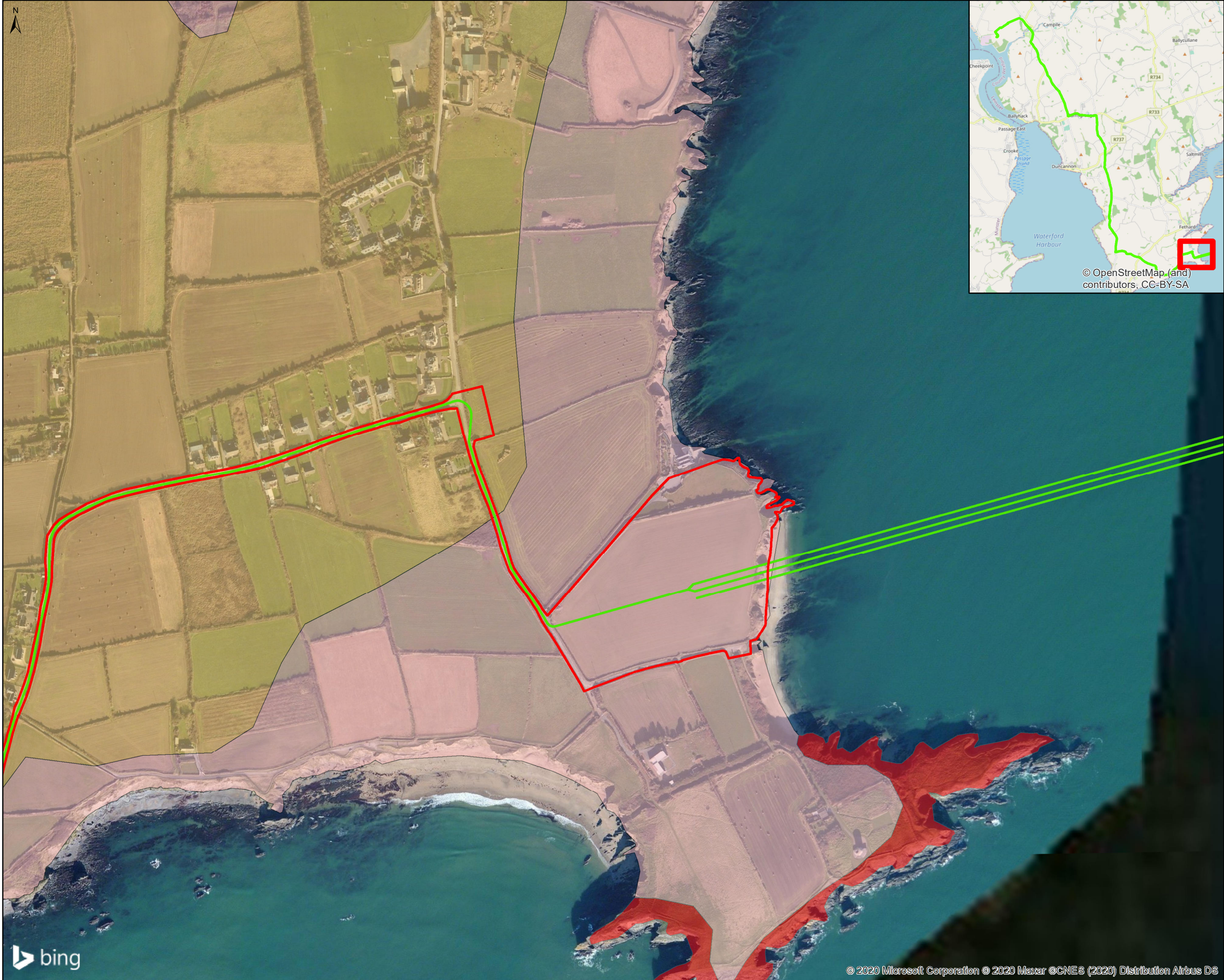
Job No
246369-00

Drawing Status
For Issue

Drawing No
Figure 12.25

Issue
F1

Kilometers
0 0.035 0.07 0.14



Legend

- Red Line Boundary
- HVDC Cable Route

Aquifer Vulnerability

- Rock at or near the surface
- Extreme
- High



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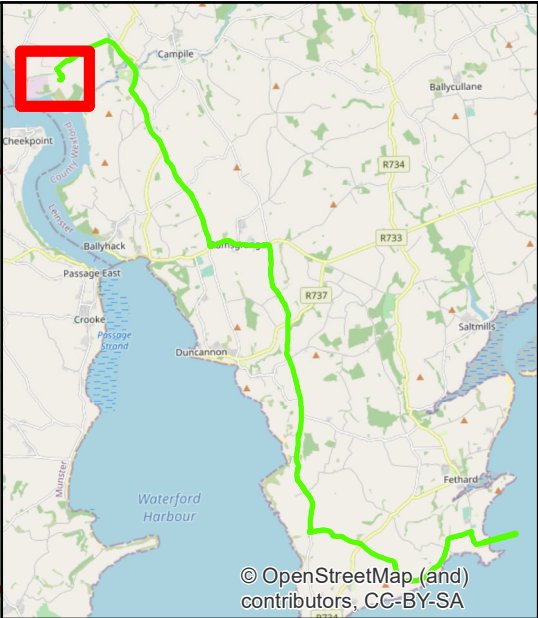
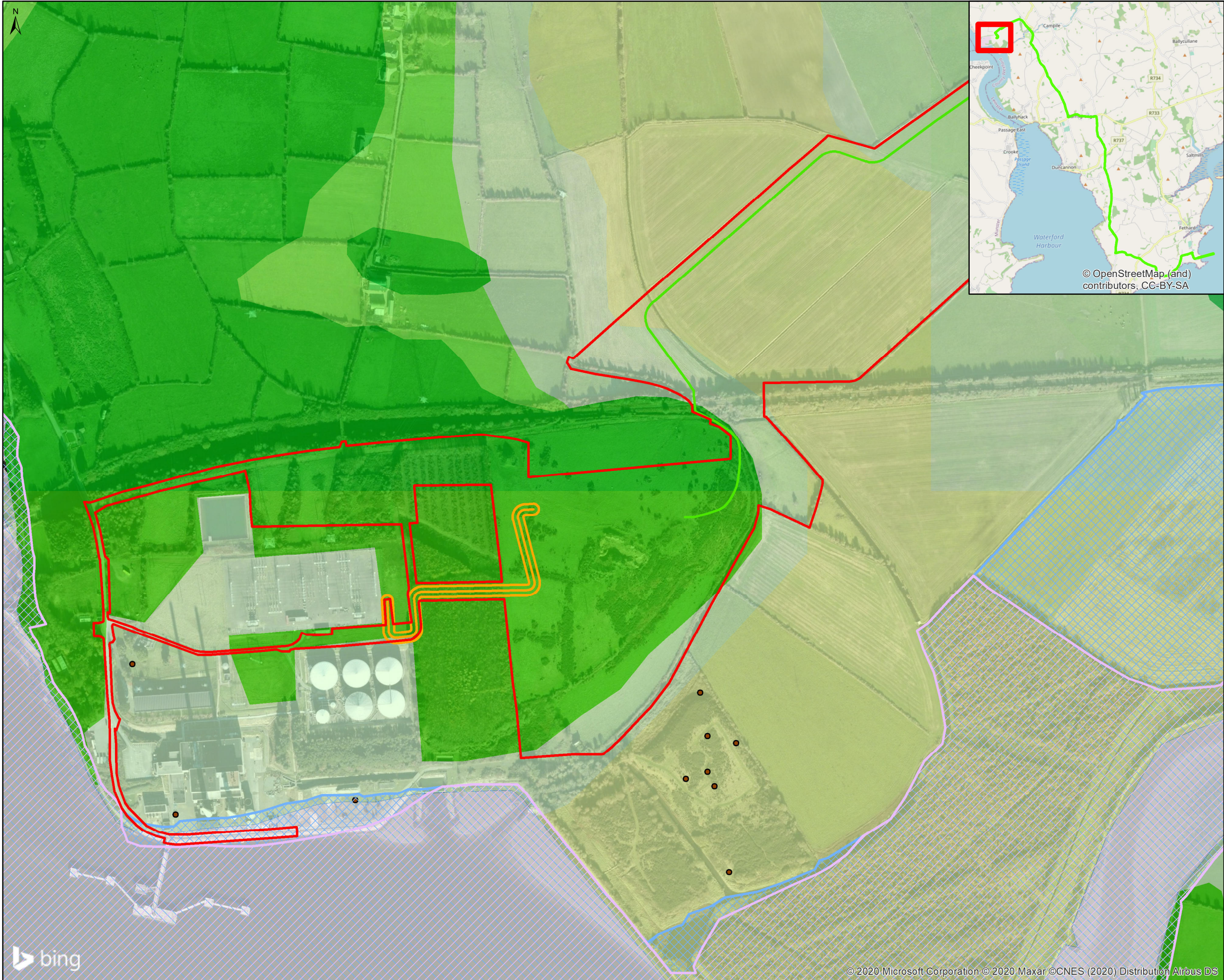
Job Title
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**Aquifer Vulnerability Map
Landfall
Sheet 1 of 1**

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 12.26	Issue F1



Legend

- Red Line Boundary
- HVAC Cable Route
- HVDC Cable Route
- Special Area of Conservation (SAC)
- Special Area of Conservation (SAC)
- Proposed Natural Heritage Area (pNHA)
- Proposed Natural Heritage Area (pNHA)

Well accuracy from 10 to 50m

- Well accuracy from 10 to 50m

Groundwater Recharge mm/yr

- 0
- 51-100
- 101-150
- 151-200
- 351-400
- 451-500
- 501-550
- 551-600
- water

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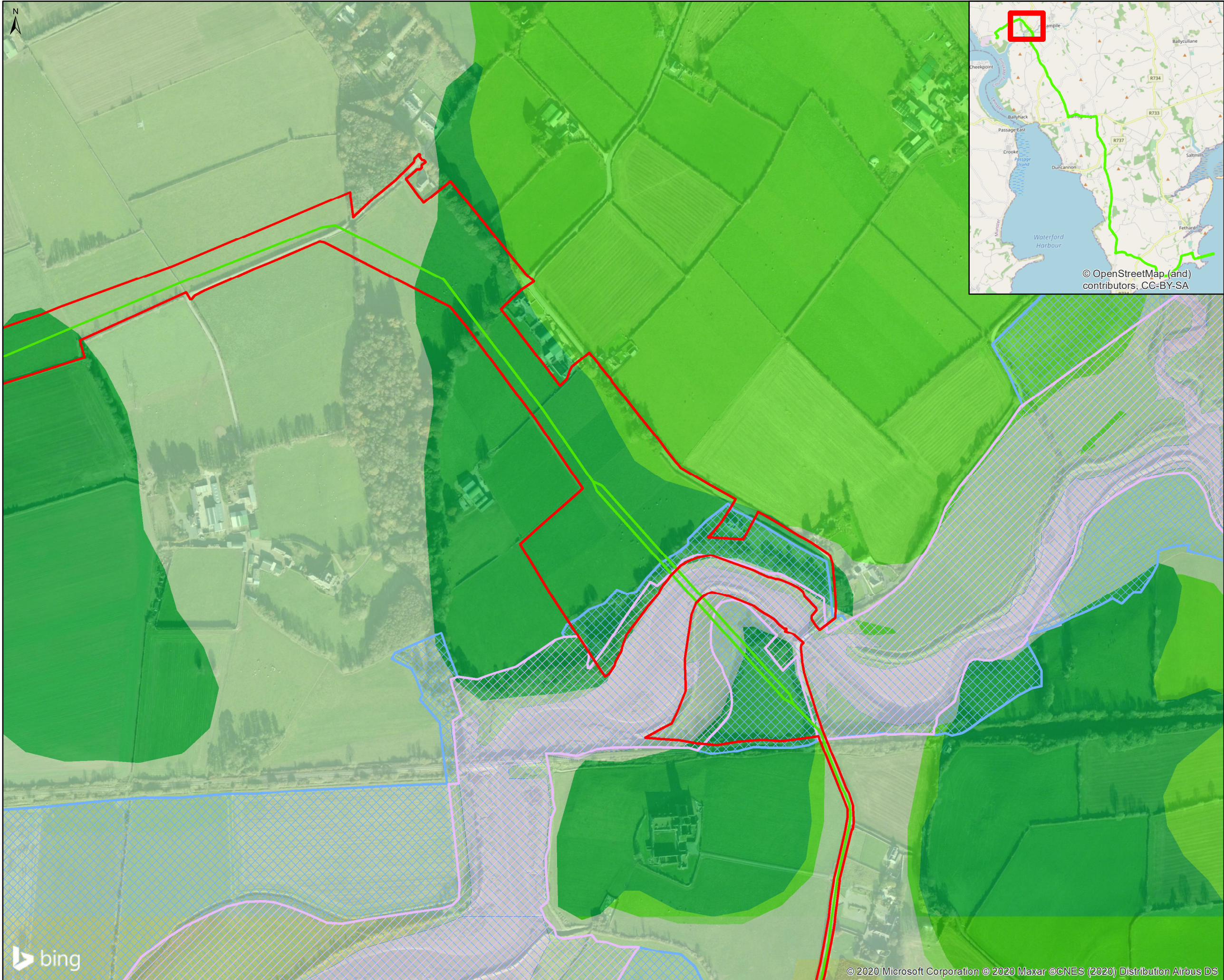
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**Hydrogeological Constraints Map
Great Island
Sheet 1 of 1**

Scale at A3
1:5,000

Kilometers
0 0.035 0.07 0.14

Job No 246369-00	Drawing Status For Issue
Drawing No Figure 12.27	Issue F1



Legend

- Red Line Boundary
- HVDC Cable Route
- Special Area of Conservation
- Special Area of Conservation
- Proposed Natural Heritage Area
- Proposed Natural Heritage Area
- Groundwater Recharge mm/yr
- 51-100
- 101-150
- 151-200
- 301-350
- 401-450
- 451-500
- 551-600
- water

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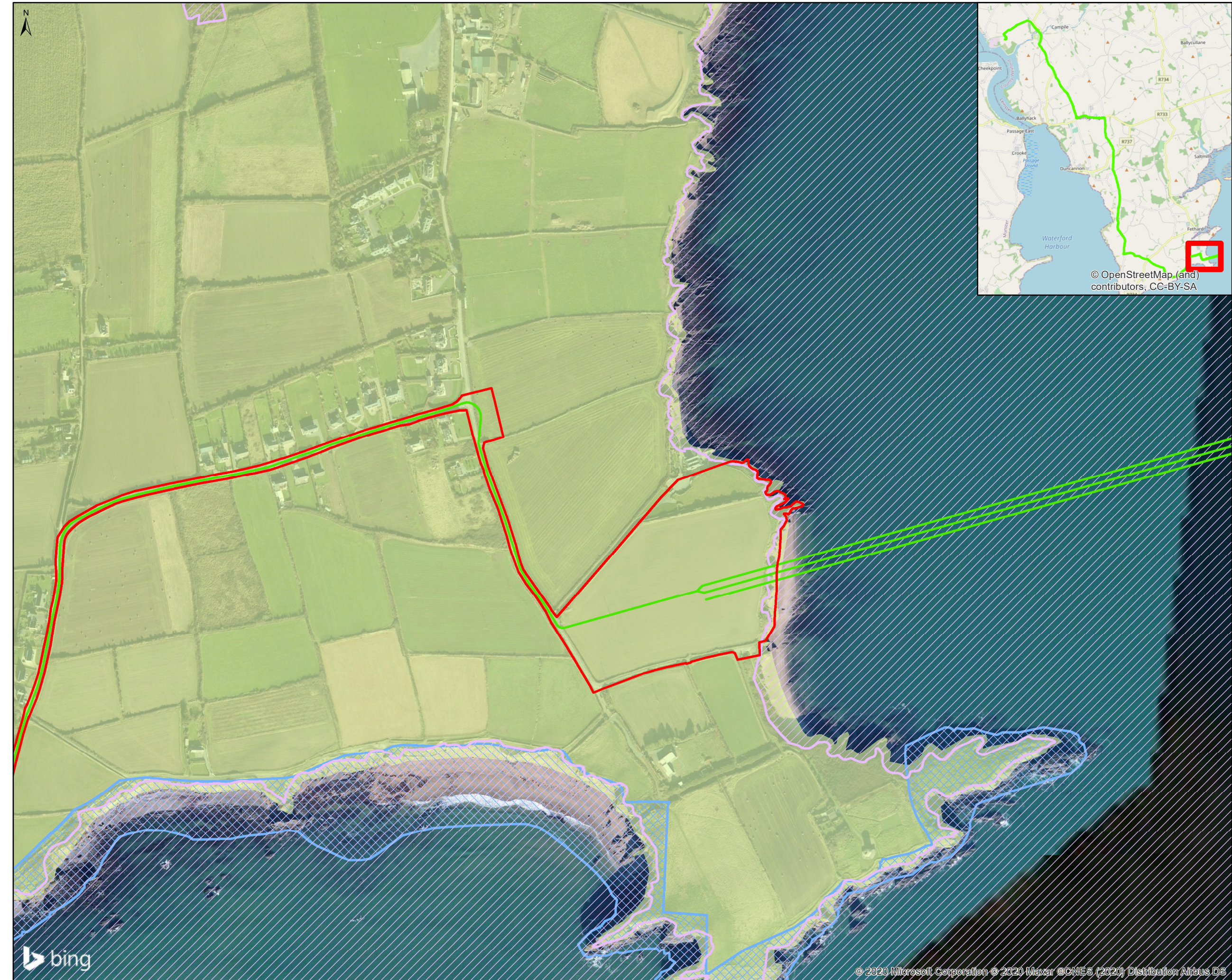
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**Hydrogeological Constraints Map
Campile Estuary
Sheet 1 of 1**

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 F1



Legend

- Red Line Boundary
- HVDC Cable Route
- Special Area of Conservation (SAC)
- Special Area of Conservation (SAC)
- Proposed Natural Heritage Area (pNHA)
- Proposed Natural Heritage Area (pNHA)
- Groundwater Recharge mm/yr
- 51-100



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Hydrogeological Constraints Map
Landfall
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Scale at A3
1:5,000

Kilometers
0 0.035 0.07 0.14

Job No 246369-00	Drawing Status For Issue
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Drawing No Figure 12.29	Issue F1
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