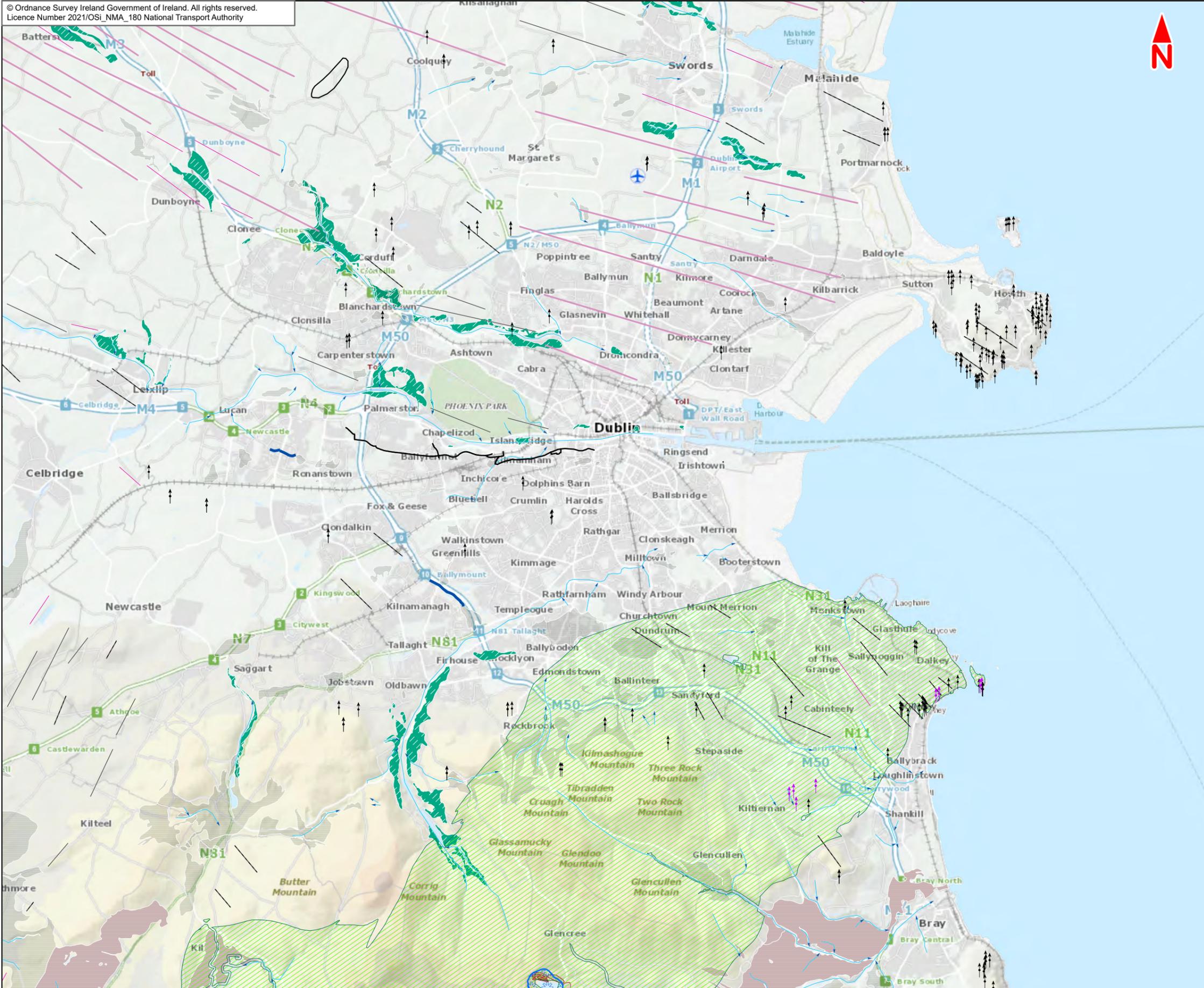


The background is a vibrant yellow. It is decorated with several abstract, organic shapes in shades of blue and green. These shapes are interconnected and layered, creating a sense of depth and movement. Scattered throughout the composition are several white circles of varying sizes, some of which are partially enclosed by the blue and green shapes. The overall aesthetic is modern and graphic.

14.1 Regional Geomorphology



- Legend :**
- Liffey Valley to City Centre Bus Corridor Scheme
 - Landform
 - Striae
 - Roche Moutonnee
 - LANDFORM
 - Crag-and-Tail
 - Drumlin
 - Mega scale glacial lineation
 - Streamlined Bedrock
 - LANDFORM
 - Esker ridge
 - Meltwater channel
 - Description
 - Composite Thrust Block Moraine
 - Landform
 - Corries
 - Landform
 - Indicator erratic source area
 - Deglacial Landforms
 - Delta
 - Glaciofluvial Terrace
 - Hummocky Sand and Gravel
 - Moraine Ridge

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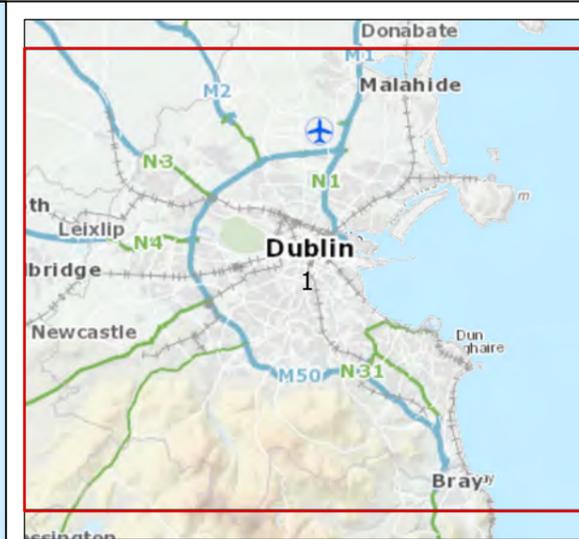
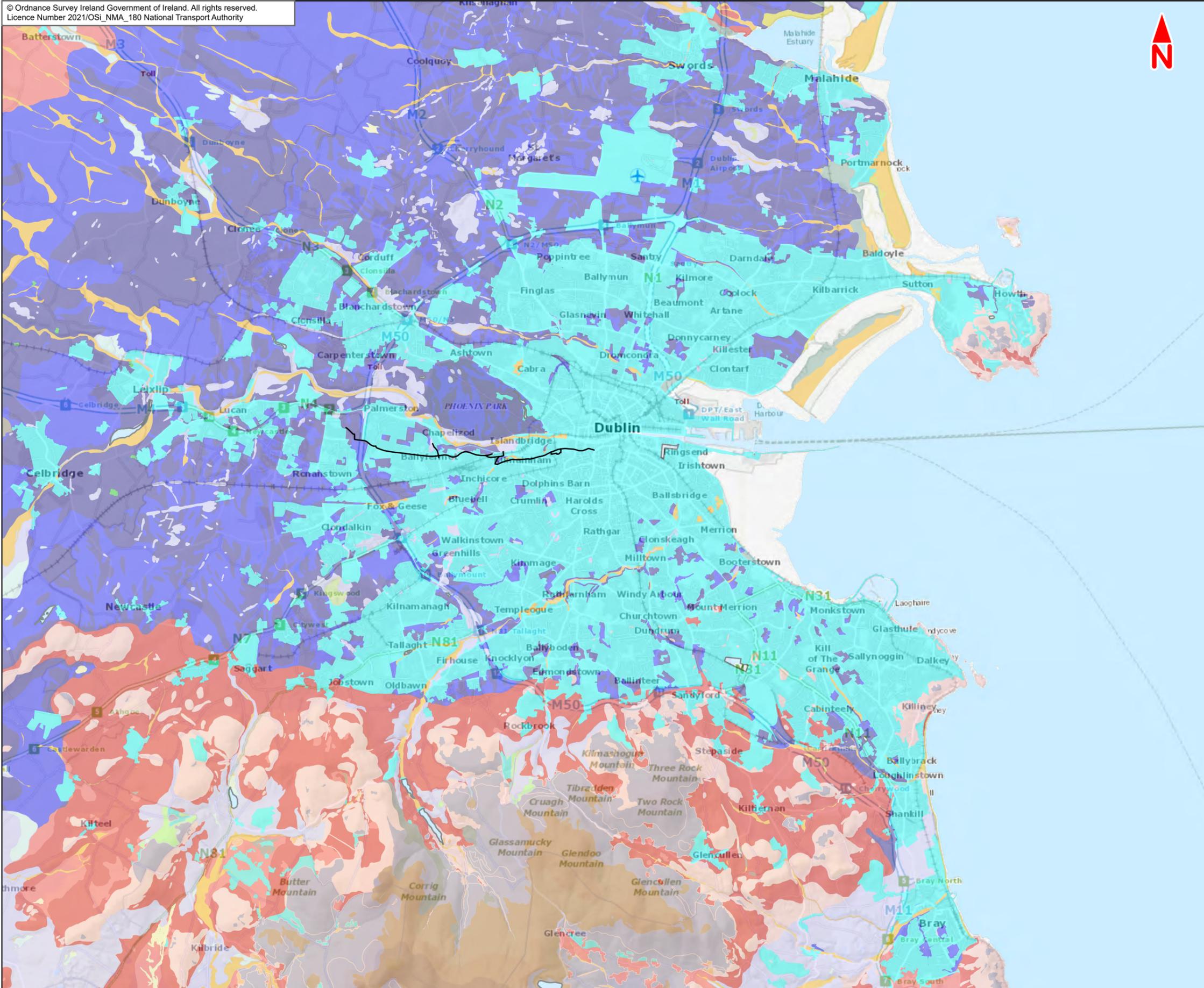
Client
NTA
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National Transport Authority

Consultant
JACOBS
ARUP SYSTRA

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Liffey Valley to City Centre Core Bus Corridor Scheme Figure 14.1 Regional Geomorphology				
Date 27/05/2022	Scale @ A3 1:125 000	Drawn FG	Checked PW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		Drawing File Name BCIDE-JAC-ENV_GT-0007_XX_00-DR-GG-0001
Sheet Number 1 of 1		Status A	Rev M01	

14.2 Regional Soils





Legend :

Liffey Valley to City Centre Core Bus Corridor Scheme	BminPD - Surface water Gleys / Ground water Gleys Basic
Teagasc Soils	BminPDPT - Peaty Gleys Basic Parent Materials Basic
AeOUND - Aeolian Undifferentiated	BminSP - Surface water Gleys / Ground water Gleys Shallow
AlluvMIN - Mineral alluvium	BminSPPT - Peaty Gleys Shallow
AminDW - Acid Brown Earths / Brown Podzolics	BminSRPT - Lithosols Peats
AminPD - Surface water Gleys / Ground water Gleys Acidic	BminSW - Renzinas / Lithosols
AminPDPT - Peaty Gleys Acidic	Cut - Raised Bog cutaway/cutover
AminSP - Surface water Gleys / Ground water Gleys Shallow	FenPT - Fen peat
AminSRPT - Podzols Peaty	Lac
AminSW - Lithosols / Regosols	Made
BkIPT - Blanket peat	MarSands
BminDW - Grey Brown Podzolics / Brown Earths Basic	MarSed
	Scree
	Water

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National Transport Authority

Consultant: **JACOBS ARUP SYSTRA**

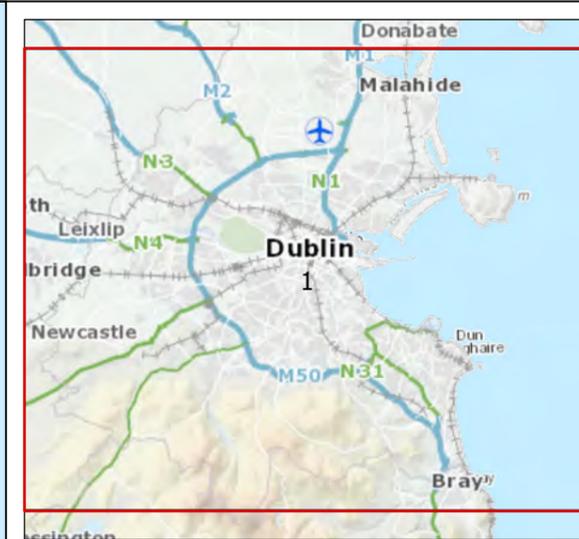
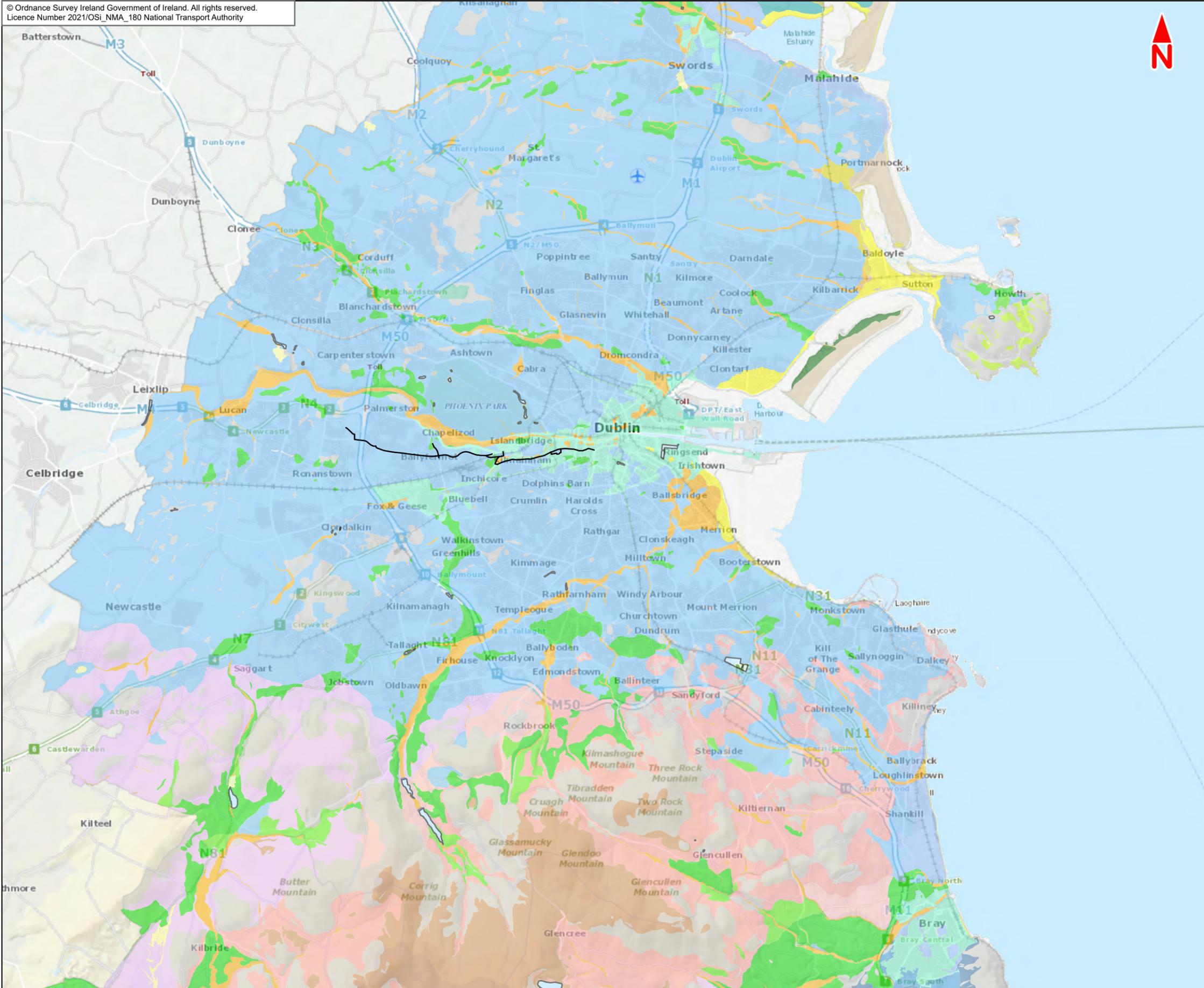
Date: 27/05/2022 | Scale @ A3: 1:125 000
Project Code: BCIDE | Originator Code: JAC

Drawn: FG | Checked: PW | Approved: DK

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: Liffey Valley to City Centre Core Bus Corridor Scheme Figure 14.2 Regional Soils			
Drawing File Name: BCIDE-JAC-ENV_GT-0007_XX_00-DR-GG-0002	Sheet Number: 1 of 1	Status: A	Rev: M01

14.3 Regional Subsoils





- Legend :**
- Liffey Valley to City Centre Core Bus Corridor Scheme
 - Quaternary Sediments - 1:50,000**
 - A, Alluvium
 - Ag, Alluvium (gravelly)
 - As, Alluvium (sandy)
 - Asi, Alluvium (silty)
 - BktPt, Blanket Peat
 - Cut, Cut over raised peat
 - GCh, Gravels derived from chert
 - GLs, Gravels derived from Limestones
 - GMP, Gravels derived from Metamorphic rocks
 - GGr, Gravels derived from granite
 - Rck, Bedrock outcrop or subcrop
 - Scree, Scree
 - L, Lacustrine sediments
 - Lsi, Lacustrine silts
 - Mbs, Marine beach sands
 - Mesc, Estuarine silts and clays
 - TdIMr, Tidal Marsh
 - IrSTCSs, Irish Sea Till derived from Cambrian sandstones and shales
 - IrSTLPSs, Irish Sea Till derived from Lower Palaeozoic sandstones and shales
 - IrSTLs, Irish Sea Till derived from Limestones
 - TCSs, Till derived from Cambrian sandstones and shales
 - TGr, Till derived from granites
 - TLPSs, Till derived from Lower Palaeozoic sandstones and shales
 - TLs, Till derived from limestones
 - TMp, Till derived from Metamorphic rocks
 - TQz, Till derived from quartzites
 - Ws, Windblown sands
 - Wsd, Windblown sands and dunes
 - Dam
 - Embankment
 - Landfill
 - Urban
 - Water

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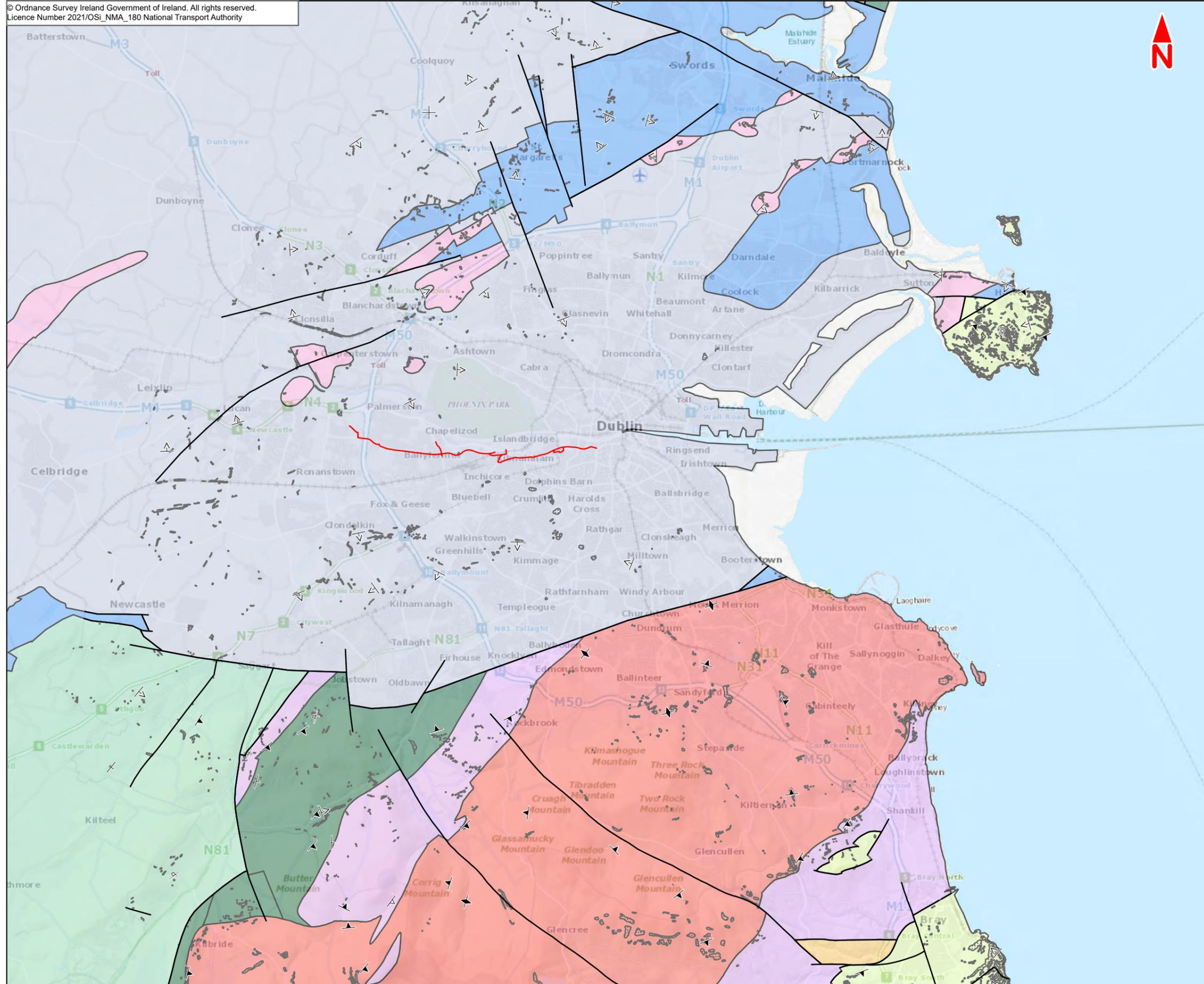
Client
NTA
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National Transport Authority

Consultant
JACOBS
ARUP SYSTRA

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Liffey Valley to City Centre Core Bus Corridor Scheme Figure 14.3 Regional Subsoils				
Date 27/05/2022	Scale @ A3 1:125 000	Drawn FG	Checked PW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		Drawing File Name BCIDE-JAC-ENV_GT-0007_XX_00-DR-GG-0003
Sheet Number 1 of 1		Status A	Rev M01	

14.4
Regional Bedrock





Legend :

- Liffey Valley to City Centre Core Bus Corridor Scheme
- GSI Bedrock Geological Faults - 1:500,000
- GSI Bedrock Structural Symbols - 1:100,000**
 - First foliation parallel to bedding
 - Horizontal Bedding
 - Strike and dip of bedding, right way up
 - Strike and dip of bedding, way up unknown
 - Strike and dip of first foliation
 - Strike and dip of overturned bedding
 - Strike and dip of second foliation
 - Strike of vertical first foliation
- GSI Bedrock Outcrop - 1:100,000**
 - GSI Bedrock Outcrop - 1:100,000
- GSI Bedrock Geology - 1:500,000**
 - Visean basinal limestone "Calp"
 - Waulsortian mudbank
 - Courseyan limestone
 - Up Dev-Lr Carb ORS
 - Caledonian granite
 - Silurian sandstone, g'wacke, shale
 - Mid-Up Ordovician basic volcanics
 - Lr-Mid Ordovician slate
 - Lr-Mid Ordovician acid volcanics
 - Lr-Mid Ordovician basic volcanics
 - Cambrian greywacke, sandst, qtzite

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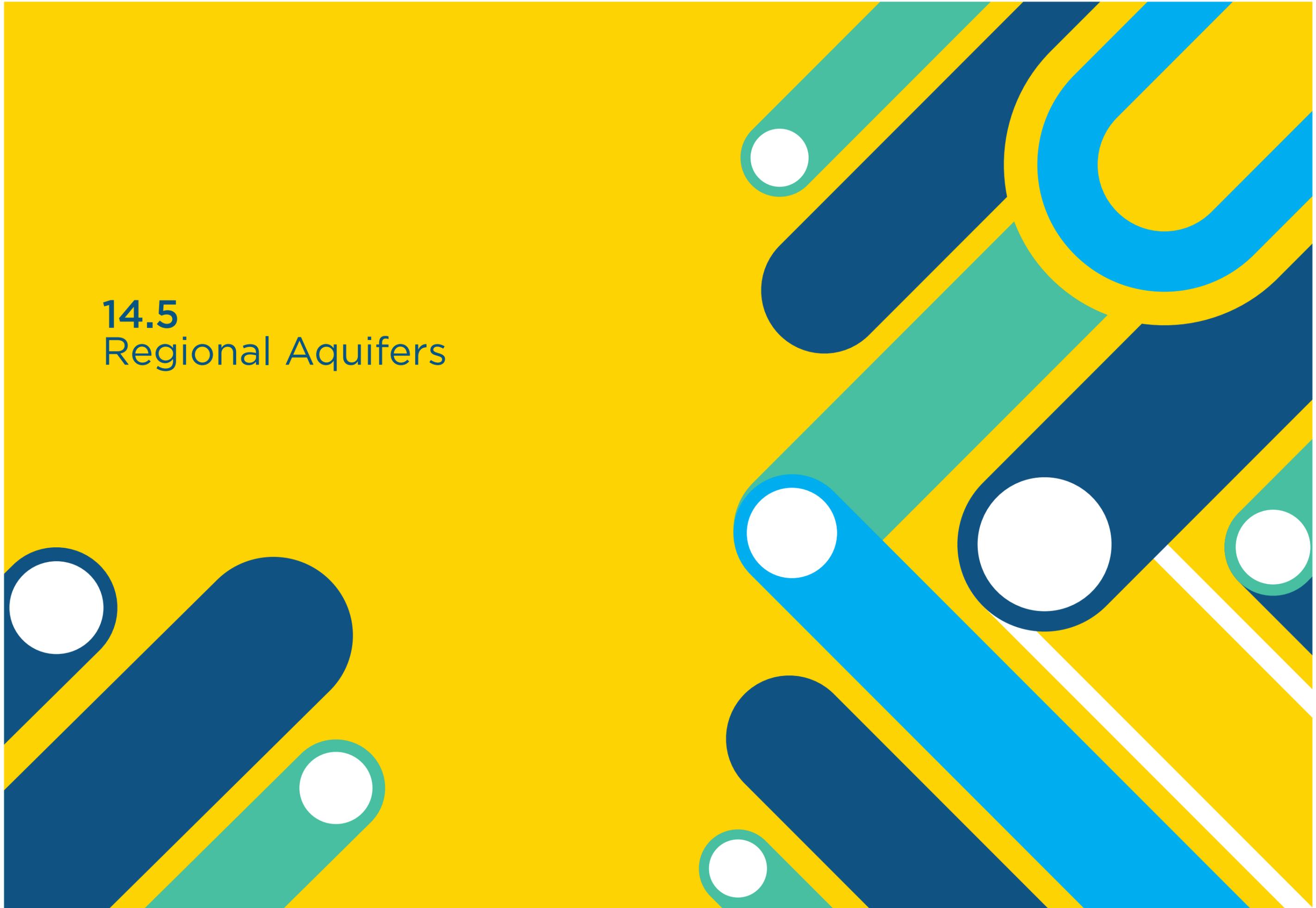
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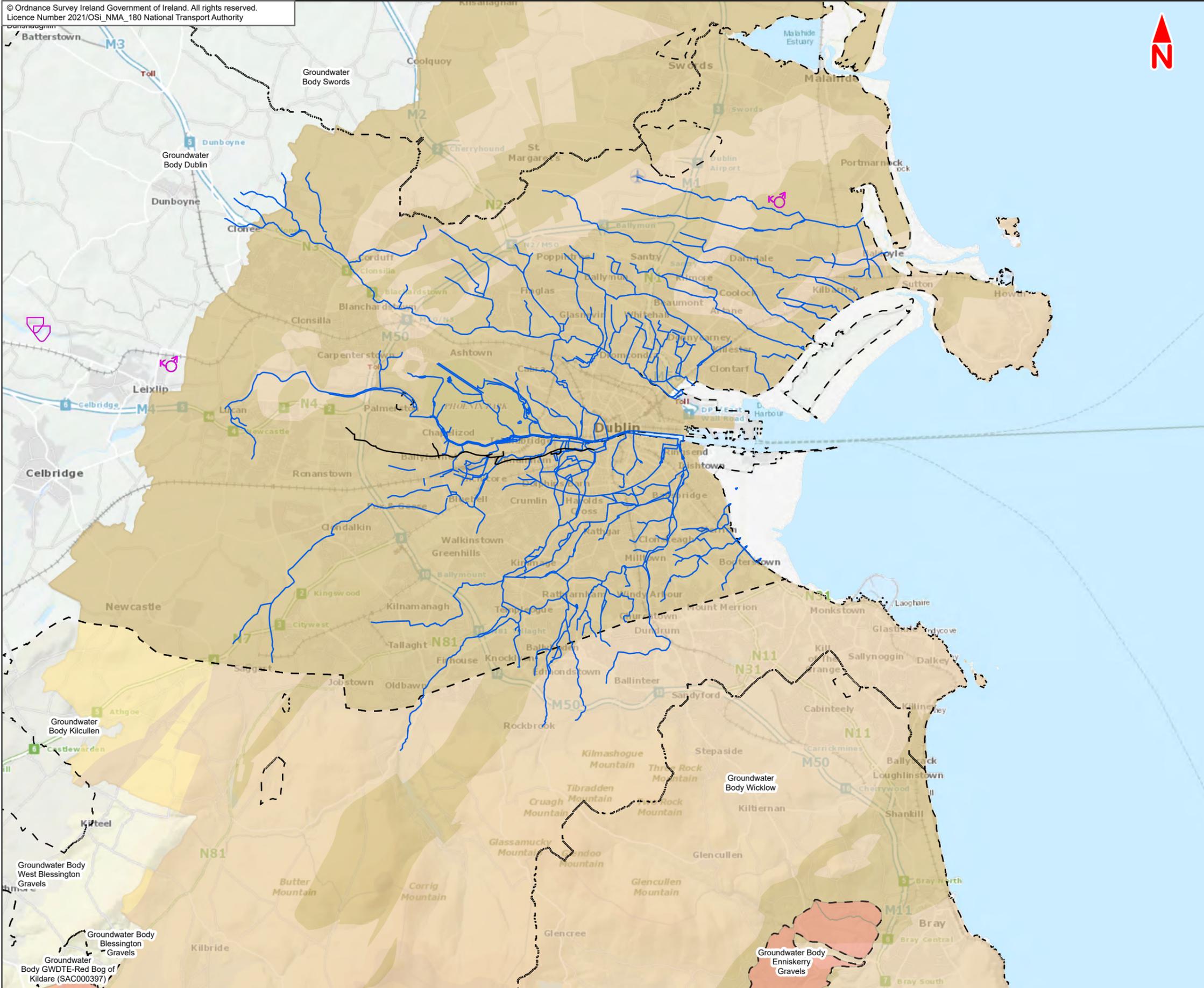
Consultant
JACOBS
ARUP SYSTRA

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Liffey Valley to City Centre Core Bus Corridor Scheme Figure 14.4 Regional Bedrock				
Drawing File Name BCIDE-JAC-ENV_GT-0007_XX_00-DR-GG-0004	Sheet Number 1 of 1	Status A	Rev M01	

Date 27/05/2022	Scale @ A3 1:125 000	Drawn FG	Checked PW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		

14.5 Regional Aquifers





- Legend :**
- Liffey Valley to City Centre Core Bus Corridor Scheme
 - Rivers Of Dublin
 - GSI Sand And Gravel Aquifers
 - Groundwater Bodies - Water Framework Directive
 - GSI Karst**
 - CAVE
 - SPRING
 - GSI Bedrock Aquifer**
 - Locally Important Aquifer - Bedrock which is Moderately Productive only in Local Zones (LI)
 - Locally Important Aquifer - Bedrock which is Generally Moderately Productive (Lm)
 - Poor Aquifer - Bedrock which is Generally Unproductive except for Local Zones (PI)
 - Poor Aquifer - Bedrock which is Generally Unproductive (Pu)

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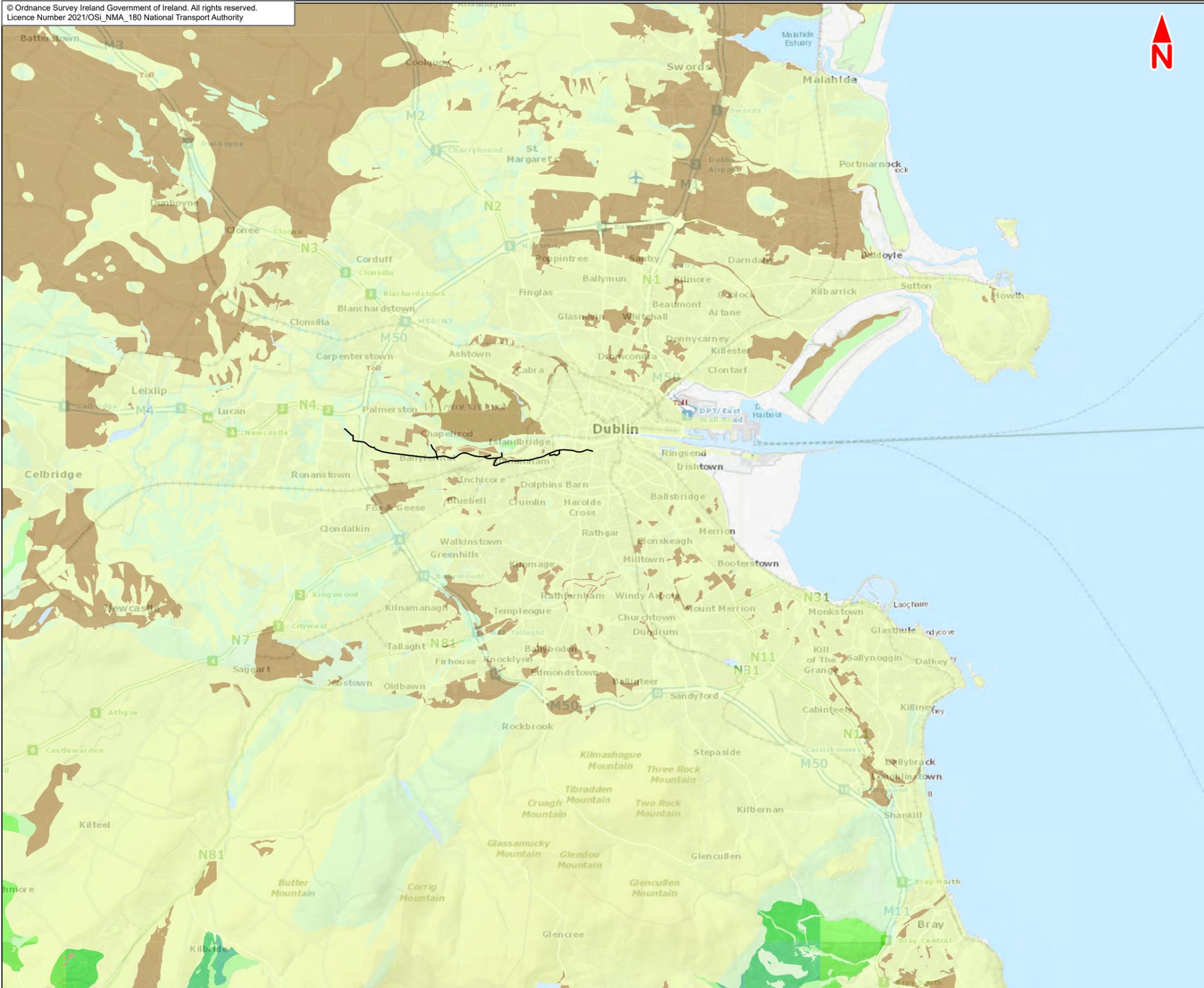
Consultant
JACOBS ARUP SYSTRA

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Liffey Valley to City Centre Core Bus Corridor Scheme Figure 14.5 Regional Aquifers				
Drawing File Name BCIDE-JAC-ENV_GT-0007_XX_00-DR-GG-0005	Sheet Number 1 of 1	Status A	Rev M01	

Date 27/05/2022	Scale @ A3 1:125 000	Drawn FG	Checked PW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		

14.6
Regional Groundwater
Recharge

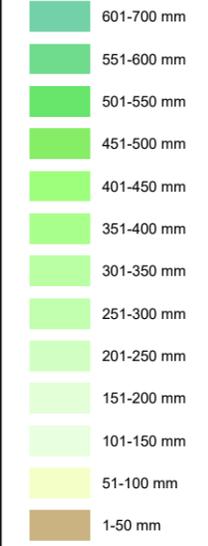




Legend :
 — Liffey Valley to City Centre Core Bus Corridor Scheme

GSI Groundwater Recharge

Annual Recharge (mm)



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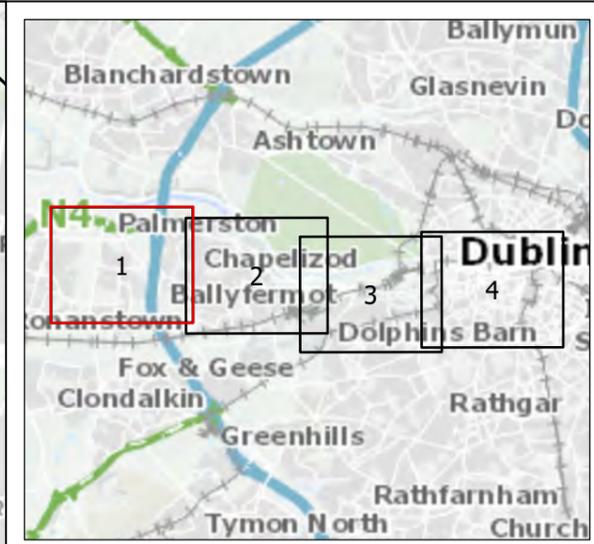
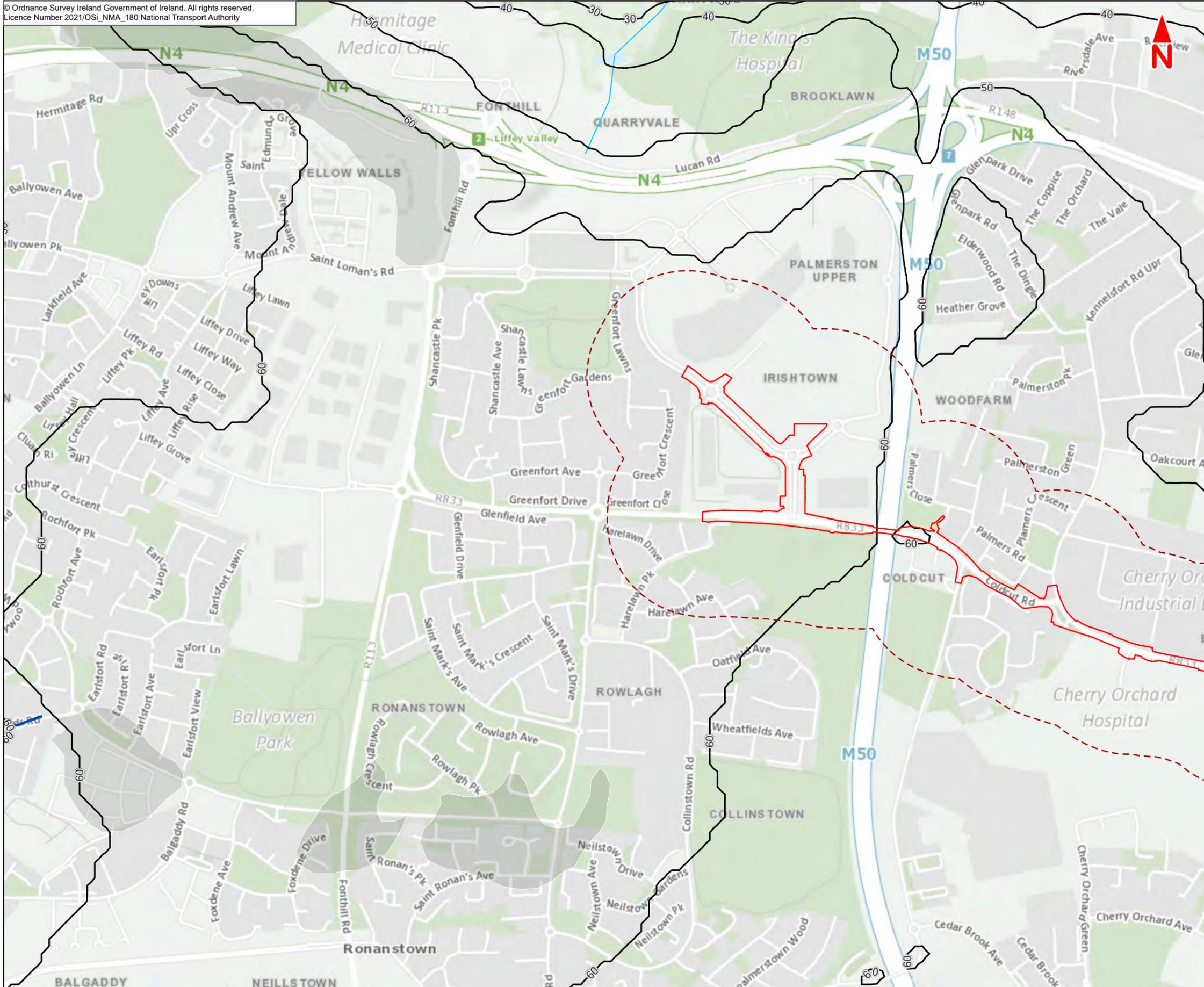
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Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Liffey Valley to City Centre Core Bus Corridor Scheme Figure 14.6 Regional Groundwater Recharge				
Drawing File Name BCIDE-JAC-ENV_GT-0007_XX_00-DR-GG-0006	Sheet Number 1 of 1	Status A	Rev M01	

Date 27/05/2022	Scale @ A3 1:125 000	Drawn FG	Checked PW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		

14.7
Topography and
Geomorphology





- Legend :**
- Liffey Valley to City Centre Core Bus Corridor Scheme
 - - - 250m Study Area
 - EPA Contours
 - Meltwater Landforms**
 - LANDFORM**
 - Esker ridge
 - Meltwater channel
 - Deglacial Landforms**
 - Landform**
 - Hummocky Sand and Gravel

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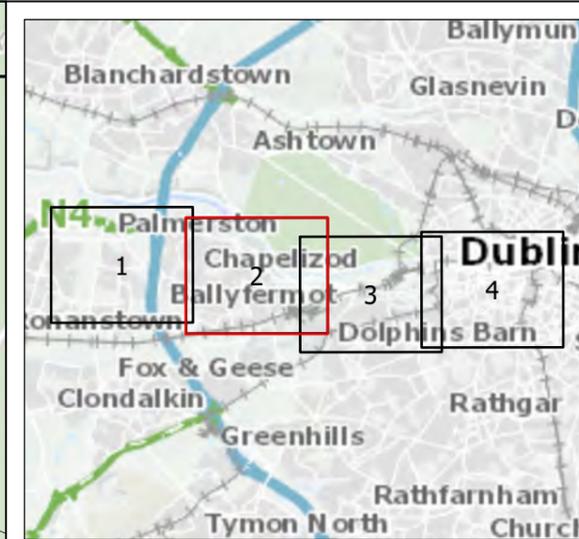
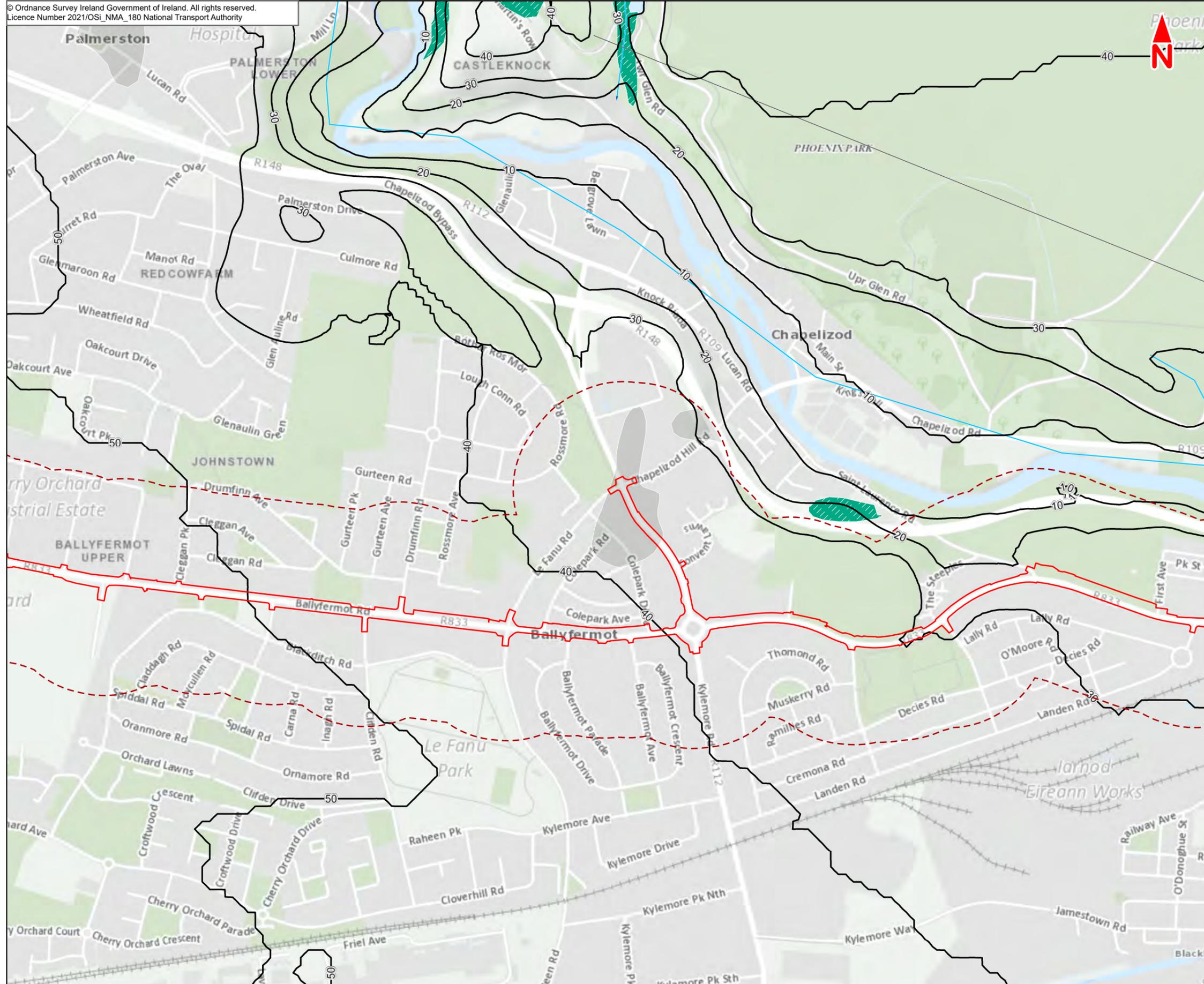
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Client: **NTA**
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National Transport Authority

Consultant: **JACOBS ARUP SYSTRA**

Date: 27/05/2022 | Scale @ A3: 1:10000
 Project Code: BCIDE | Originator Code: JAC
 Drawn: FG | Checked: PW | Approved: DK

Programme Title: BUSCONNECTS DUBLIN			
CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: Liffey Valley to City Centre Core Bus Corridor Scheme Figure 14.7 Topography and Geomorphology			
Drawing File Name: BCIDE-JAC-ENV_GT-0007_XX_00-DR-GG-0101	Sheet Number: 1 of 4	Status: A	Rev: M01



- Legend :**
- Liffey Valley to City Centre Core Bus Corridor Scheme
 - - - 250m Study Area
 - EPA Contours
 - Subglacial Lineation Landforms**
 - LANDFORM
 - Crag-and-Tail
 - Meltwater Landforms**
 - LANDFORM
 - Meltwater channel
 - Deglacial Landforms**
 - Landform
 - Glaciofluvial Terrace
 - Hummocky Sand and Gravel

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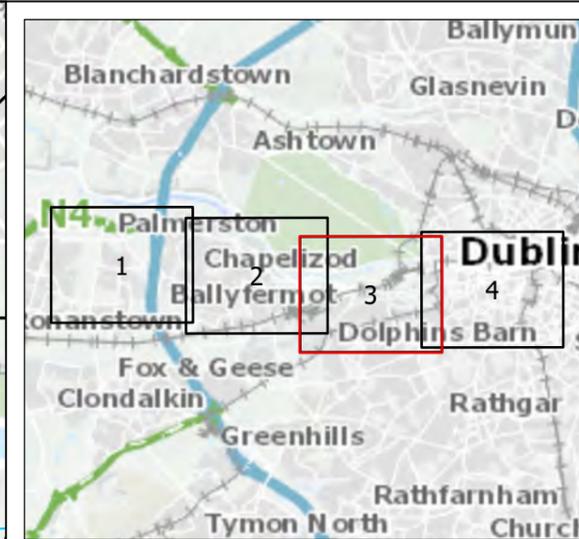
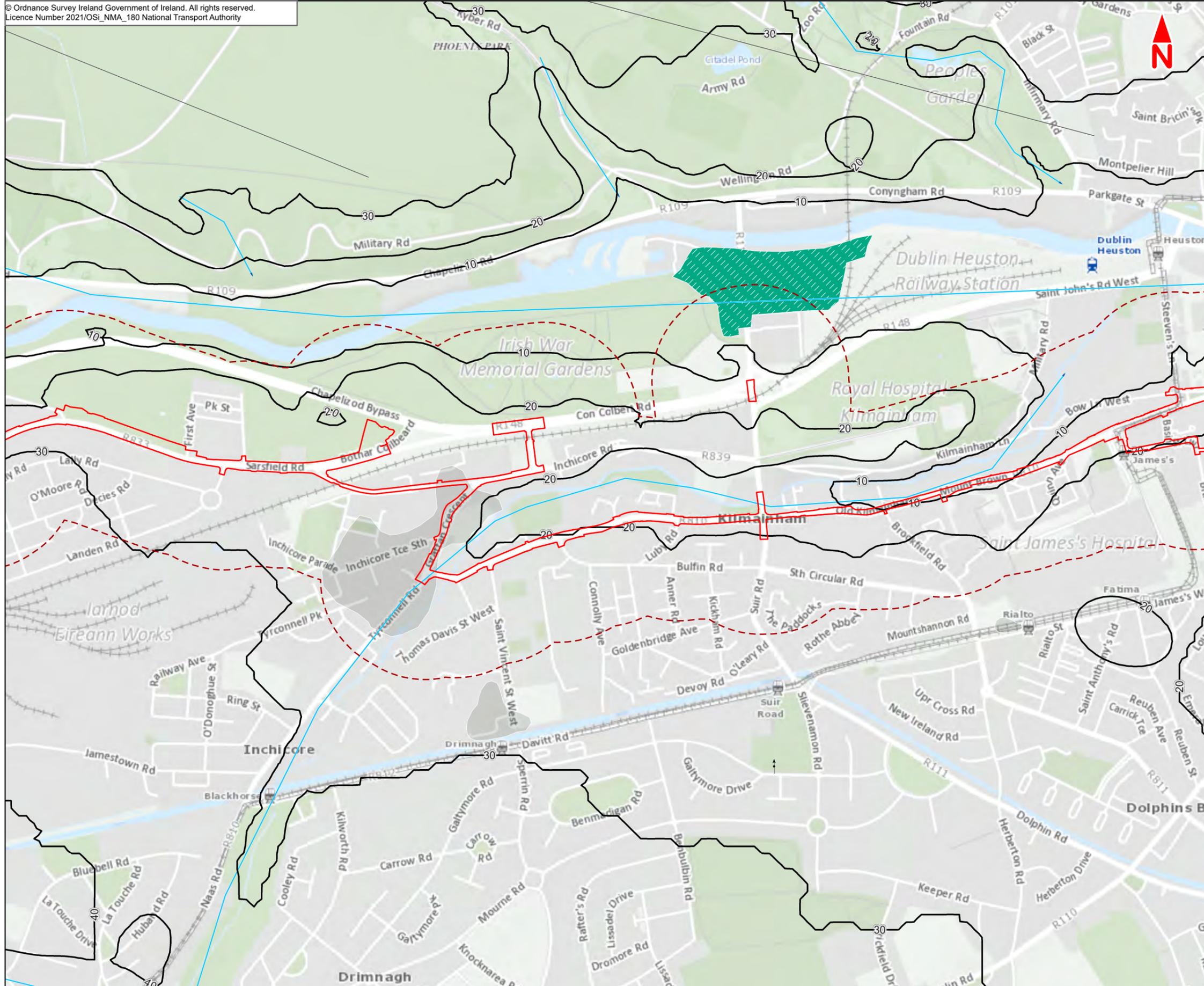
Rev	Date	Drn	Chk'd	App'd	Description
M01	May 22	FG	PW	DK	ISSUE FOR PHASE 4 : PLANNING

Client: **NTA**
Udarás Náisiúnta Iompair
National Transport Authority

Consultant: **JACOBS ARUP SYSTRA**

Date: 27/05/2022 Scale @ A3: 1:10000
Project Code: BCIDE Originator Code: JAC
Drawn: FG Checked: PW Approved: DK
QMS Code:

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: Liffey Valley to City Centre Core Bus Corridor Scheme Figure 14.7 Topography and Geomorphology			
Drawing File Name: BCIDE-JAC-ENV_GT-0007_XX_00-DR-GG-0102	Sheet Number: 2 of 4	Status: A	Rev: M01



- Legend :**
- Liffey Valley to City Centre Core Bus Corridor Scheme
 - - - 250m Study Area
 - EPA Contours
 - Subglacial Lineation Striae**
 - Landform
 - ↑ Striae
 - Subglacial Lineation Landforms**
 - LANDFORM
 - Crag-and-Tail
 - Meltwater Landforms**
 - LANDFORM
 - Meltwater channel
 - Deglacial Landforms**
 - Landform
 - Glaciofluvial Terrace
 - Hummocky Sand and Gravel

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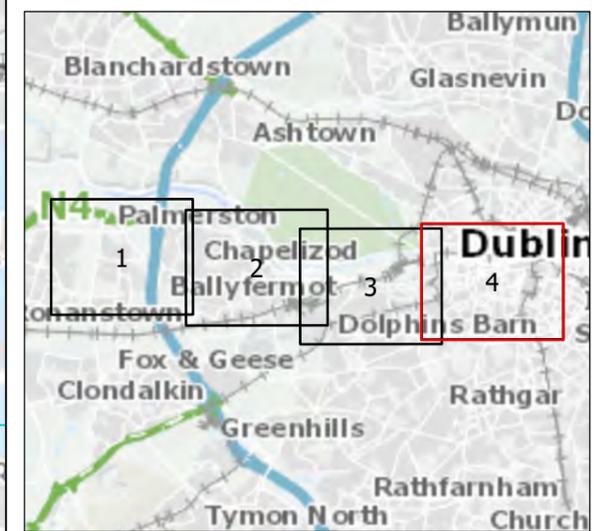
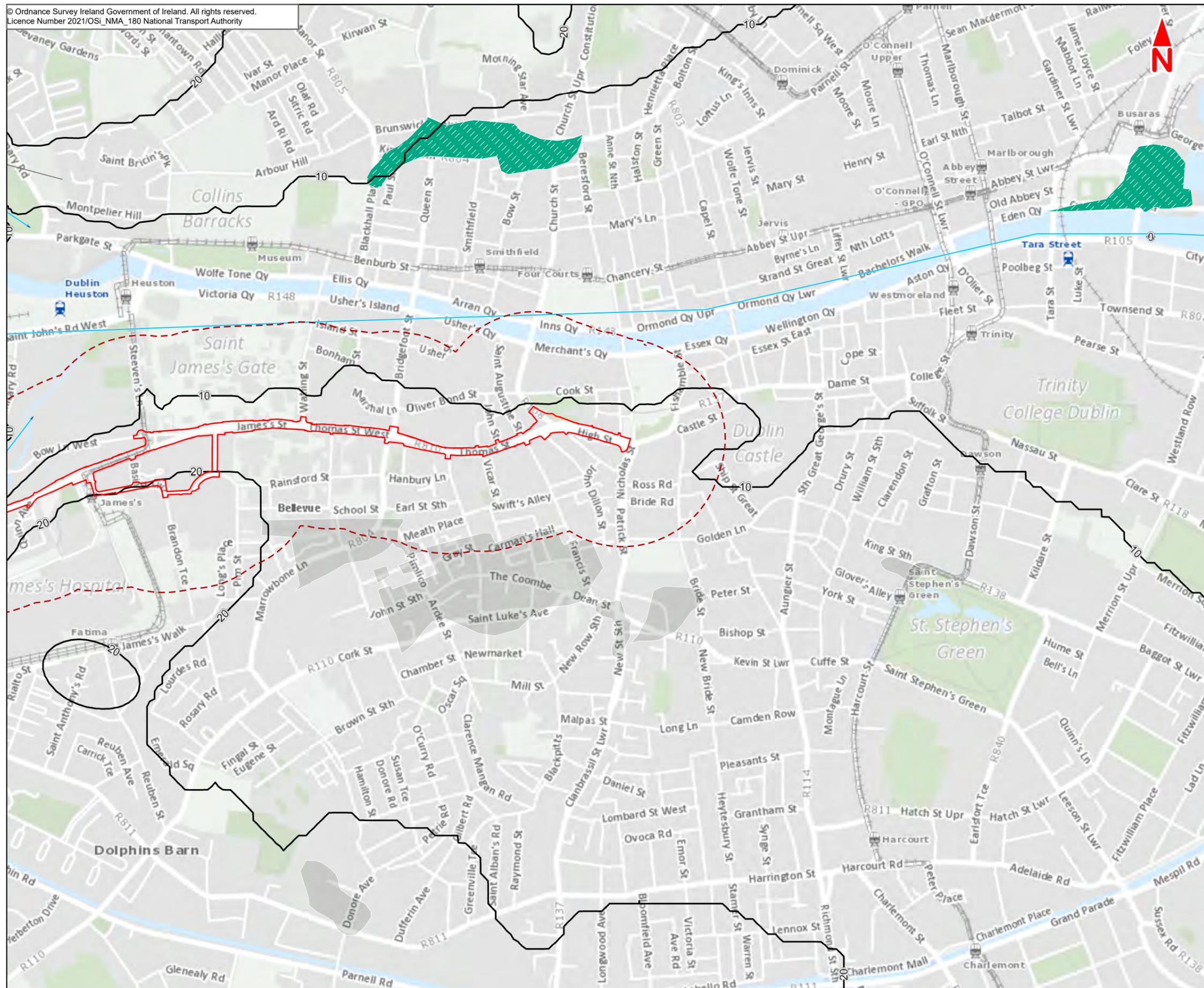
Rev	Date	Drn	Chk'd	App'd	Description
M01	May 22	FG	PW	DK	ISSUE FOR PHASE 4 : PLANNING

Client: **NTA**
Udarás Náisiúnta Iompair
National Transport Authority

Consultant: **JACOBS ARUP SYSTRA**

Date: 27/05/2022 | Scale @ A3: 1:10000
 Drawn: FG | Checked: PW | Approved: DK
 Project Code: BCIDE | Originator Code: JAC | QMS Code:

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: Liffey Valley to City Centre Core Bus Corridor Scheme Figure 14.7 Topography and Geomorphology			
Drawing File Name: BCIDE-JAC-ENV_GT-0007_XX_00-DR-GG-0103	Sheet Number: 3 of 4	Status: A	Rev: M01



- Legend :**
- Liffey Valley to City Centre Core Bus Corridor Scheme
 - 250m Study Area
 - EPA Contours
 - Subglacial Lineation Landforms**
 - LANDFORM
 - Crag-and-Tail
 - Meltwater Landforms**
 - LANDFORM
 - Meltwater channel
 - Deglacial Landforms**
 - Landform
 - Glaciofluvial Terrace
 - Hummocky Sand and Gravel

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Project Ireland 2040
 Building Ireland's Future

Rev **Date** **Drn** **Chk'd** **App'd** **Description**

M01	May 22	FG	PW	DK	ISSUE FOR PHASE 4 : PLANNING
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Client
 NTA
 Udarás Náisiúnta Iompair
 National Transport Authority

Consultant
 Jacobs
 ARUP SYSTRA

Date 27/05/2022 **Scale @ A3** 1:10000
Project Code BCIDE **Originator Code** JAC

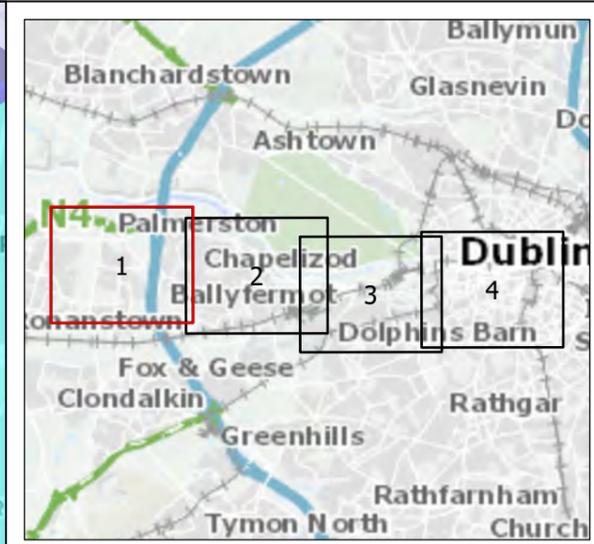
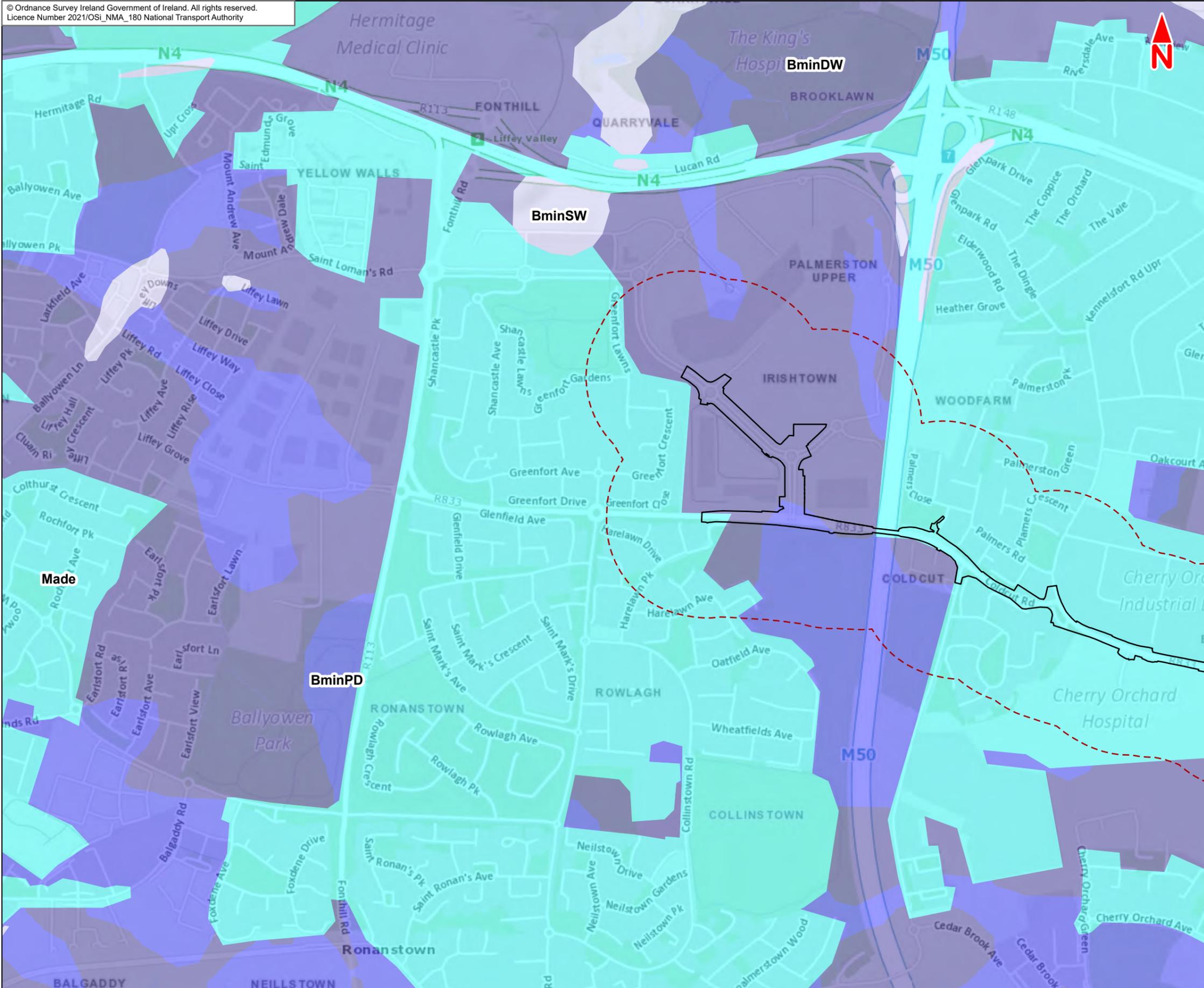
Drawn FG **Checked** PW **Approved** DK

QMS Code

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS	
Drawing Title Liffey Valley to City Centre Core Bus Corridor Scheme Figure 14.7 Topography and Geomorphology	
Drawing File Name BCIDE-JAC-ENV_GT-0007_XX_00-DR-GG-0104	Sheet Number 4 of 4
Status A	Rev M01

14.8 Soil Deposits





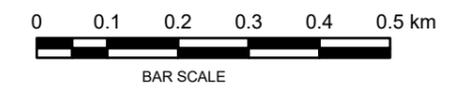
Legend :

- Liffey Valley to City Centre Scheme
- - - 250m Study Area

Teagasc Soils

- AlluvMIN - Mineral alluvium
- BminDW - Grey Brown Podzolics / Brown Earths Basic
- BminPD - Surface water Gleys / Ground water Gleys Basic
- BminSW - Renzinas / Lithosols
- Made

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M01	May 22	FG	PW	DK	ISSUE FOR PHASE 4 : PLANNING

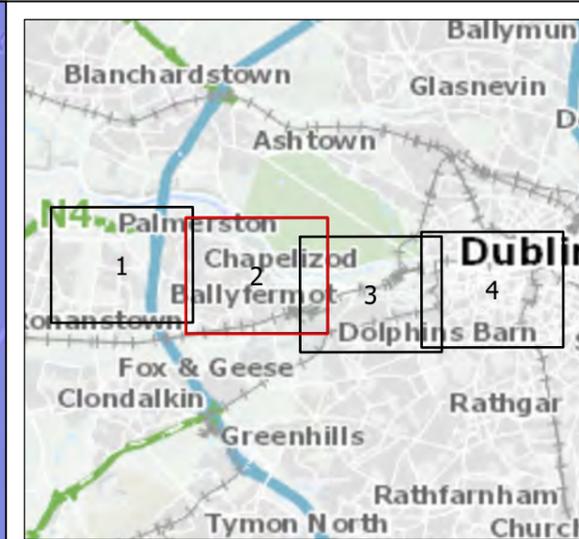
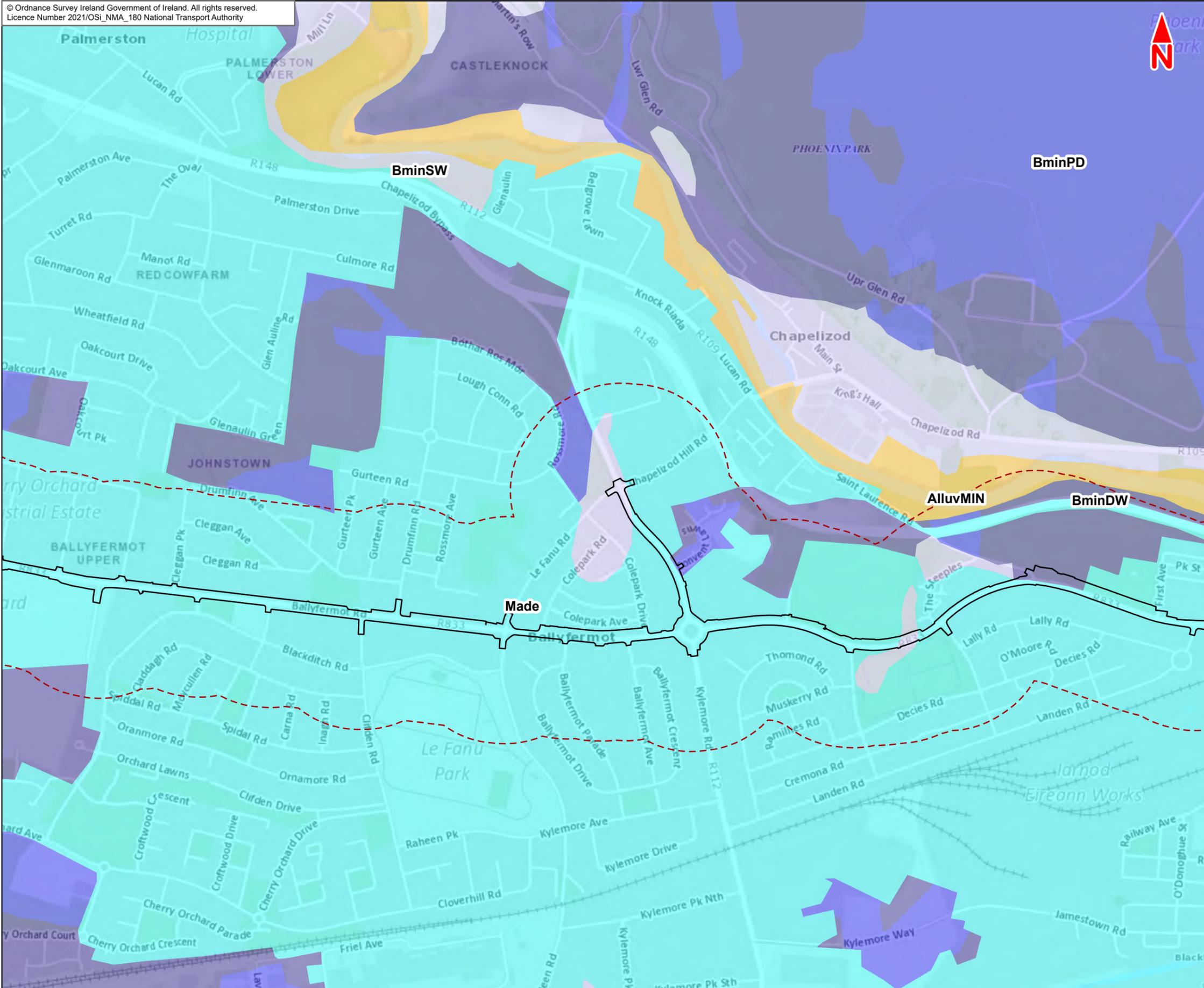
Client: **NTA**
Udarás Náisiúnta Iompair
National Transport Authority

Consultant: **JACOBS ARUP SYSTRA**

Date: 27/05/2022 Scale @ A3: 1:10000
Project Code: BCIDE Originator Code: JAC

Drawn: FG Checked: PW Approved: DK
QMS Code:

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: Liffey Valley to City Centre Core Bus Corridor Scheme Figure 14.8 Soil Deposits			
Drawing File Name: BCIDE-JAC-ENV_GT-0007_XX_00-DR-GG-0201	Sheet Number: 1 of 4	Status: A	Rev: M01



- Legend :**
- Liffey Valley to City Centre Scheme
 - - - 250m Study Area
- Teagasc Soils**
- AlluvMIN - Mineral alluvium
 - BminDW - Grey Brown Podzolics / Brown Earths Basic
 - BminPD - Surface water Gleys / Ground water Gleys Basic
 - BminSW - Renzinas / Lithosols
 - Made

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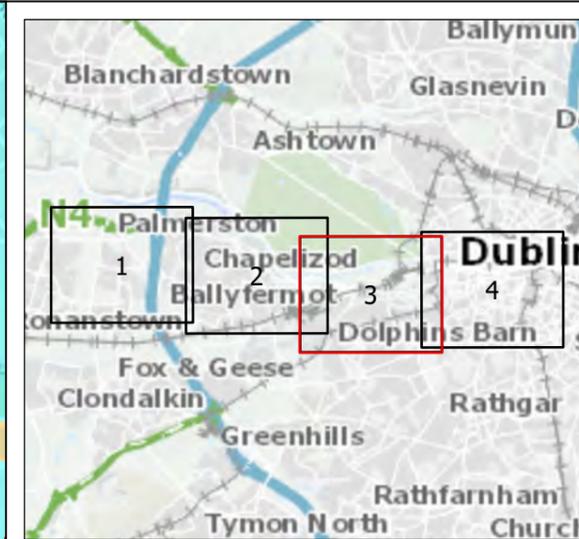
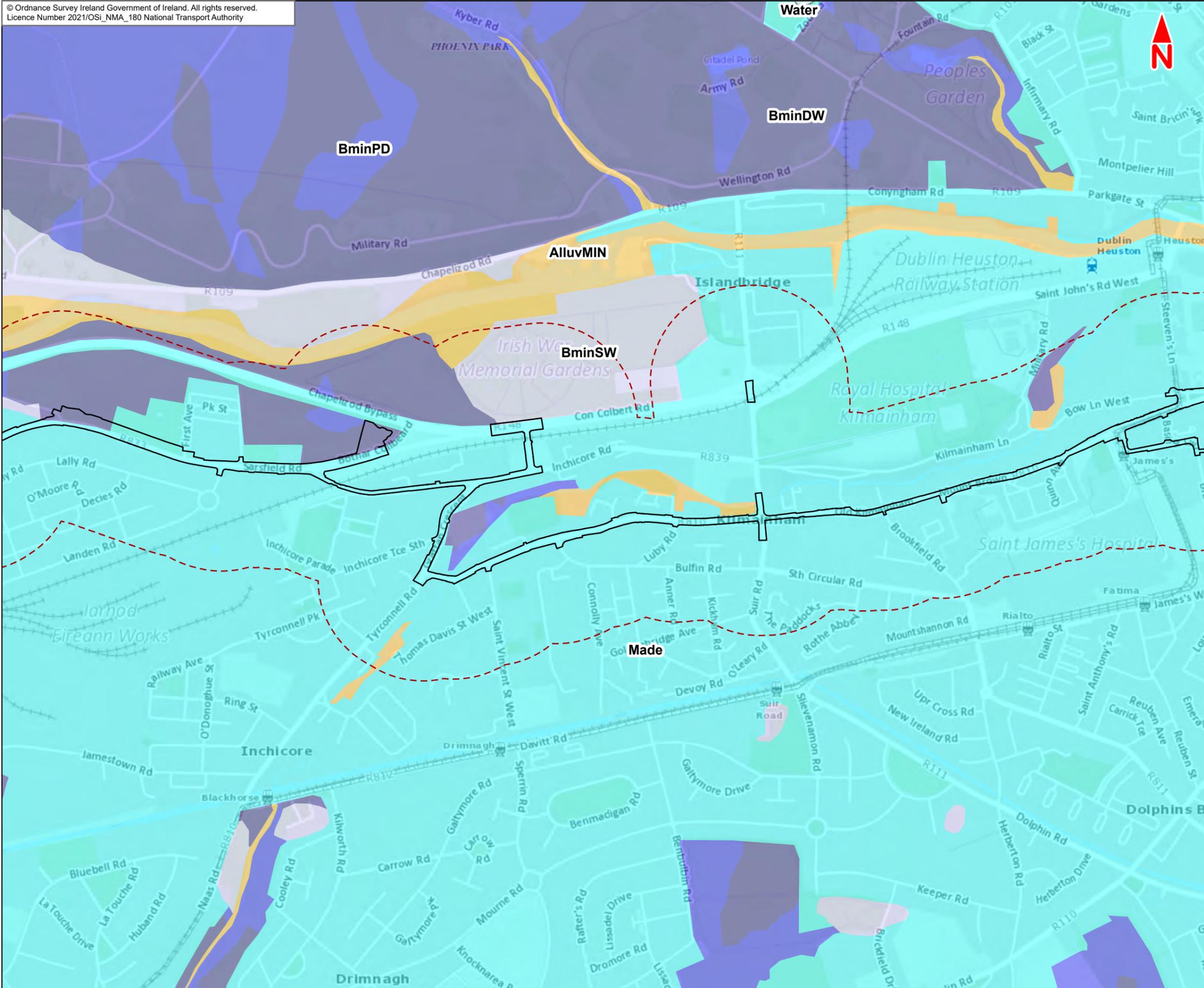
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M01	May 22	FG	PW	DK	ISSUE FOR PHASE 4 : PLANNING

Client NTA Udarás Náisiúnta Iompair National Transport Authority		Consultant JACOBS ARUP SYSTRA		
Date 27/05/2022	Scale @ A3 1:10000	Drawn FG	Checked PW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Liffey Valley to City Centre Core Bus Corridor Scheme Figure 14.8 Soil Deposits				
Drawing File Name BCIDE-JAC-ENV_GT-0007_XX_00-DR-GG-0202	Sheet Number 2 of 4	Status A	Rev M01	



Legend :

- Liffey Valley to City Centre Scheme
- - - 250m Study Area

Teagasc Soils

- AlluvMIN - Mineral alluvium
- BminDW - Grey Brown Podzolics / Brown Earths Basic
- BminPD - Surface water Gleys / Ground water Gleys Basic
- BminSW - Renzinas / Lithosols
- Made
- Water

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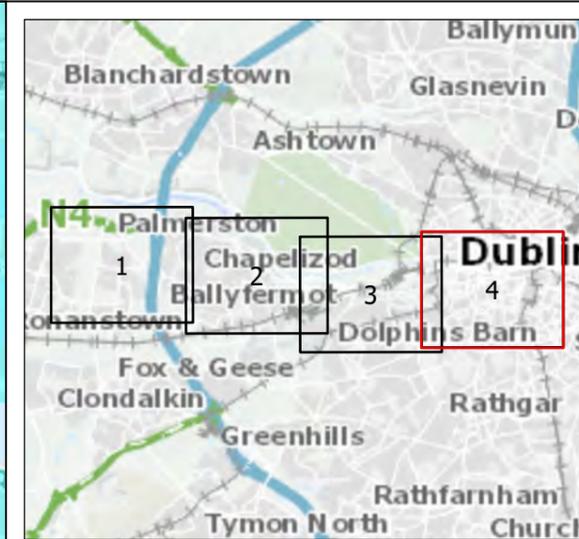
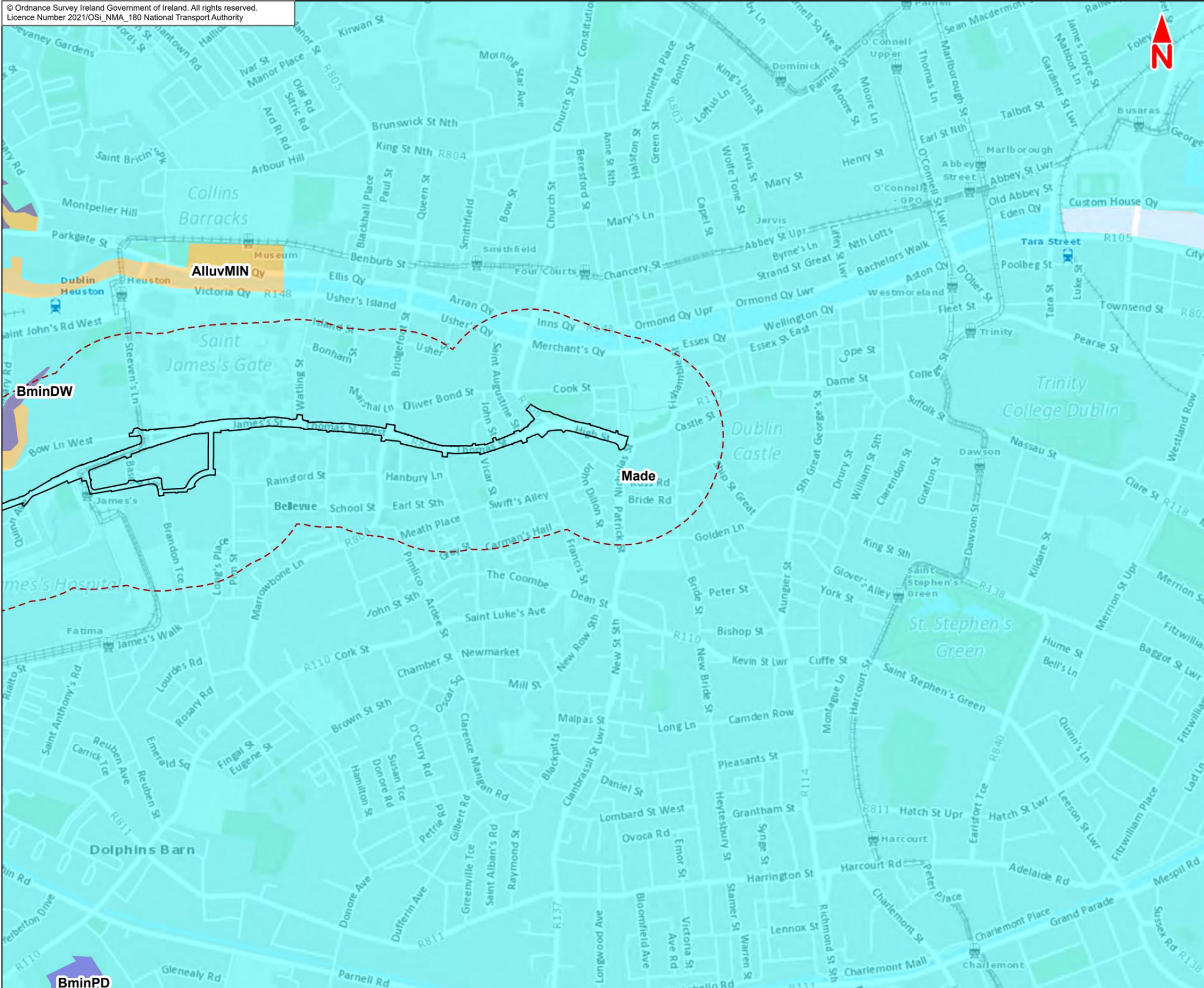
Rev	Date	Drn	Chk'd	App'd	Description
M01	May 22	FG	PW	DK	ISSUE FOR PHASE 4 : PLANNING

Client: **NTA**
Udarás Náisiúnta Iompair
National Transport Authority

Consultant: **JACOBS ARUP SYSTRA**

Date: 27/05/2022 | Scale @ A3: 1:10000
 Drawn: FG | Checked: PW | Approved: DK
 Project Code: BCIDE | Originator Code: JAC | QMS Code:

Programme Title: BUSCONNECTS DUBLIN				
Drawing Title: CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing File Name: Liffey Valley to City Centre Core Bus Corridor Scheme Figure 14.8 Soil Deposits				
Drawing File Name: BCIDE-JAC-ENV_GT-0007_XX_00-DR-GG-0203	Sheet Number: 3 of 4	Status: A	Rev: M01	



- Legend :**
- Liffey Valley to City Centre Scheme
 - 250m Study Area
 - Teagasc Soils**
 - AlluvMIN - Mineral alluvium
 - BminDW - Grey Brown Podzolics / Brown Earths Basic
 - BminPD - Surface water Gleys / Ground water Gleys Basic
 - Made

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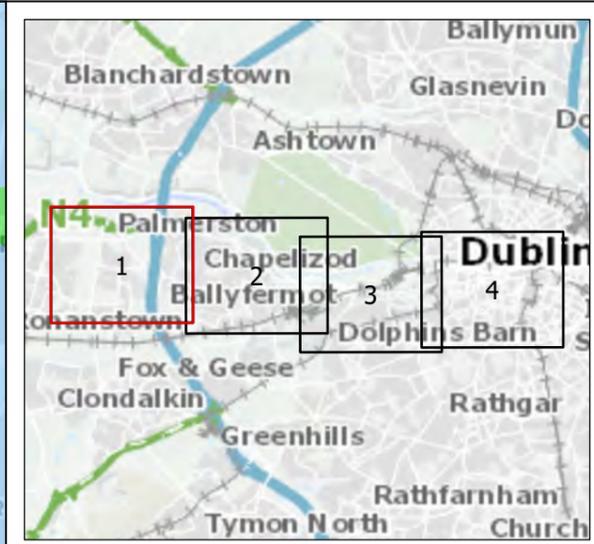
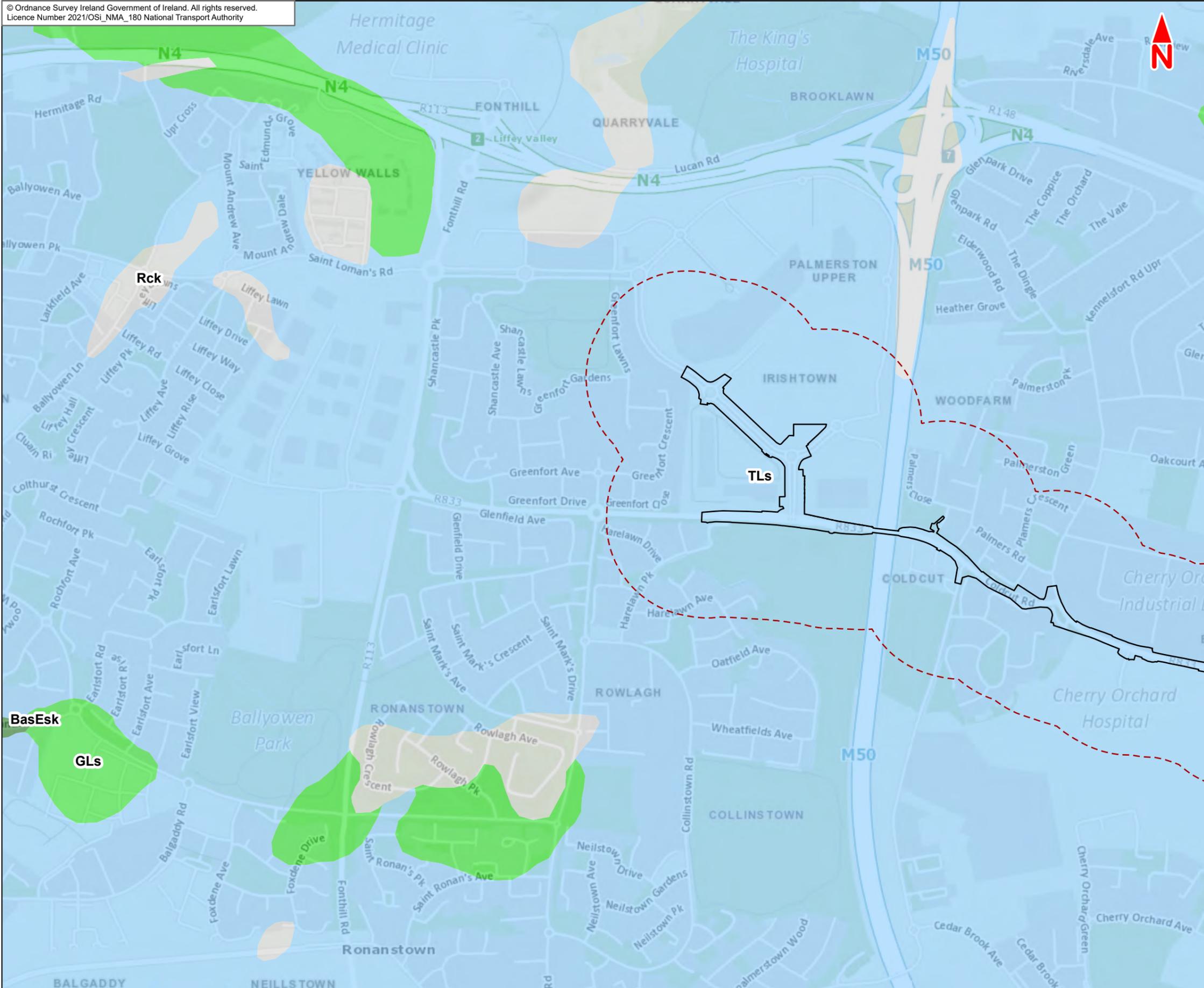
Consultant: **JACOBS ARUP SYSTRA**

Date: 27/05/2022 | Scale @ A3: 1:10000
 Drawn: FG | Checked: PW | Approved: DK
 Project Code: BCIDE | Originator Code: JAC | QMS Code:

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title: Liffey Valley to City Centre Core Bus Corridor Scheme Figure 14.8 Soil Deposits				
Drawing File Name: BCIDE-JAC-ENV_GT-0007_XX_00-DR-GG-0204	Sheet Number: 4 of 4	Status: A	Rev: M01	

14.9 Subsoil Deposits





- Legend :**
- Liffey Valley to City Centre Scheme
 - 250m Study Area
 - 250m Study Area
 - Quaternary Sediments - 1:50,000
 - GLs, Gravels derived from Limestones
 - Rck, Bedrock outcrop or subcrop
 - TLs, Till derived from limestones
 - BasEsk, Eskers comprised of gravels of basic reaction

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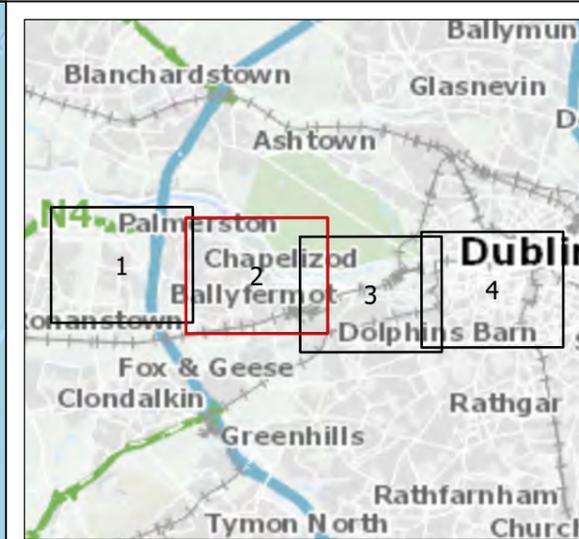
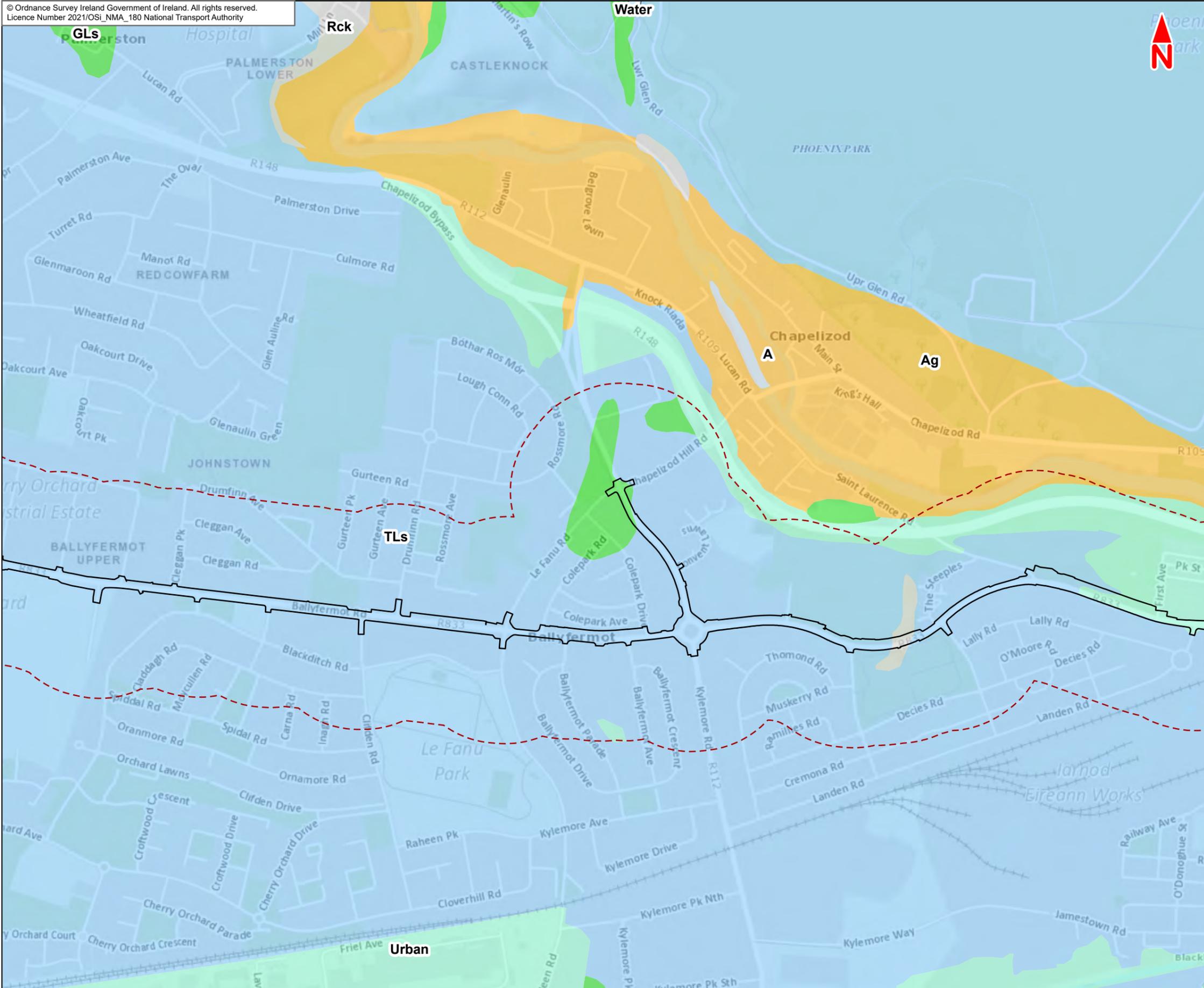
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Date	27/05/2022	Scale @ A3	1:10000	Drawn	FG
Project Code	BCIDE	Originator Code	JAC	Checked	PW
				Approved	DK
				QMS Code	

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title Liffey Valley to City Centre Core Bus Corridor Scheme Figure 14.9 Subsoil Deposits			
Drawing File Name	BCIDE-JAC-ENV_GT-0007_XX_00-DR-GG-0301	Sheet Number	1 of 4
Status	A	Rev	M01



- Legend :**
- Liffey Valley to City Centre Scheme
 - 250m Study Area
 - - - 250m Study Area
 - Quaternary Sediments - 1:50,000
 - A, Alluvium
 - Ag, Alluvium (gravelly)
 - GLs, Gravels derived from Limestones
 - Rck, Bedrock outcrop or subcrop
 - TLs, Till derived from limestones
 - Urban
 - Water

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d. Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.
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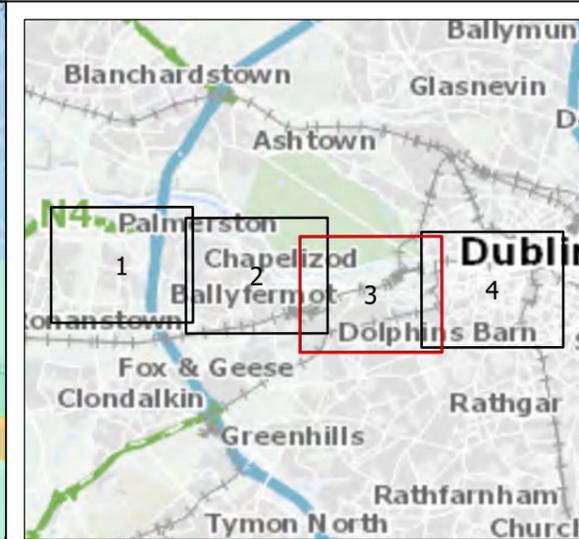
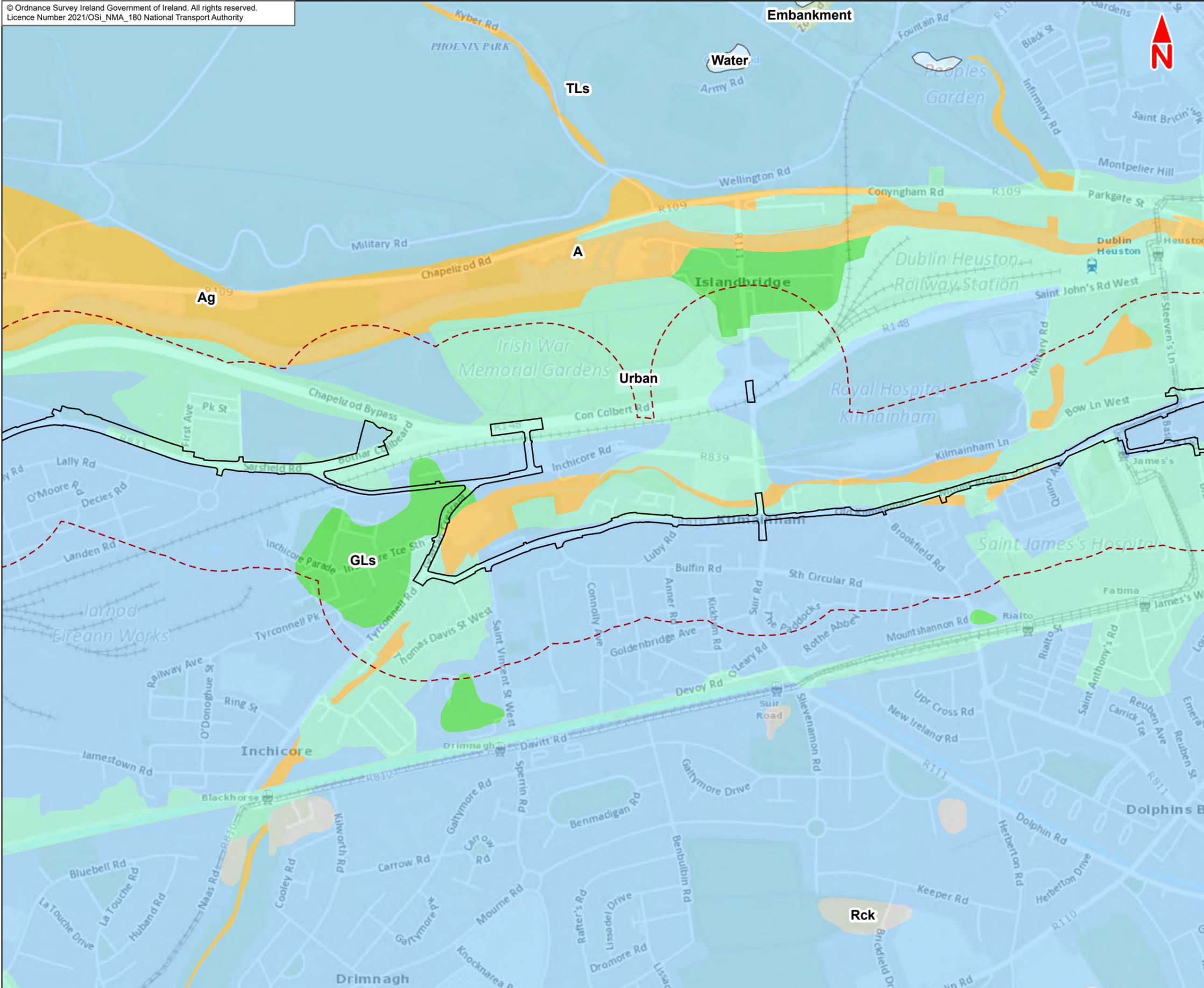
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Rev	Date	Drn	Chk'd	App'd	Description
M01	May 22	FG	PW	DK	ISSUE FOR PHASE 4 : PLANNING

Client NTA Udarás Náisiúnta Iompair National Transport Authority		Consultant JACOBS ARUP SYSTRA		
Date 27/05/2022	Scale @ A3 1:10000	Drawn FG	Checked PW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Liffey Valley to City Centre Core Bus Corridor Scheme Figure 14.9 Subsoil Deposits				
Drawing File Name BCIDE-JAC-ENV_GT-0007_XX_00-DR-GG-0302	Sheet Number 2 of 4	Status A	Rev M01	



- Legend :**
- Liffey Valley to City Centre Scheme
 - 250m Study Area
 - - - 250m Study Area
 - Quaternary Sediments - 1:50,000
 - A, Alluvium
 - Ag, Alluvium (gravelly)
 - GLs, Gravels derived from Limestones
 - Rck, Bedrock outcrop or subcrop
 - TLs, Till derived from limestones
 - Embankment
 - Urban
 - Water

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M01	May 22	FG	PW	DK	ISSUE FOR PHASE 4 : PLANNING

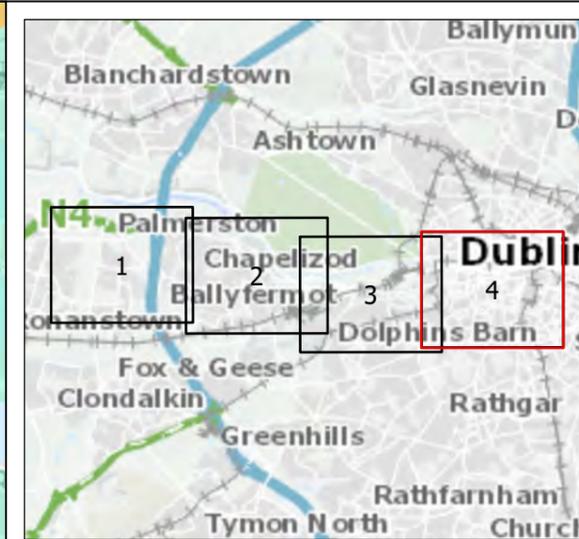
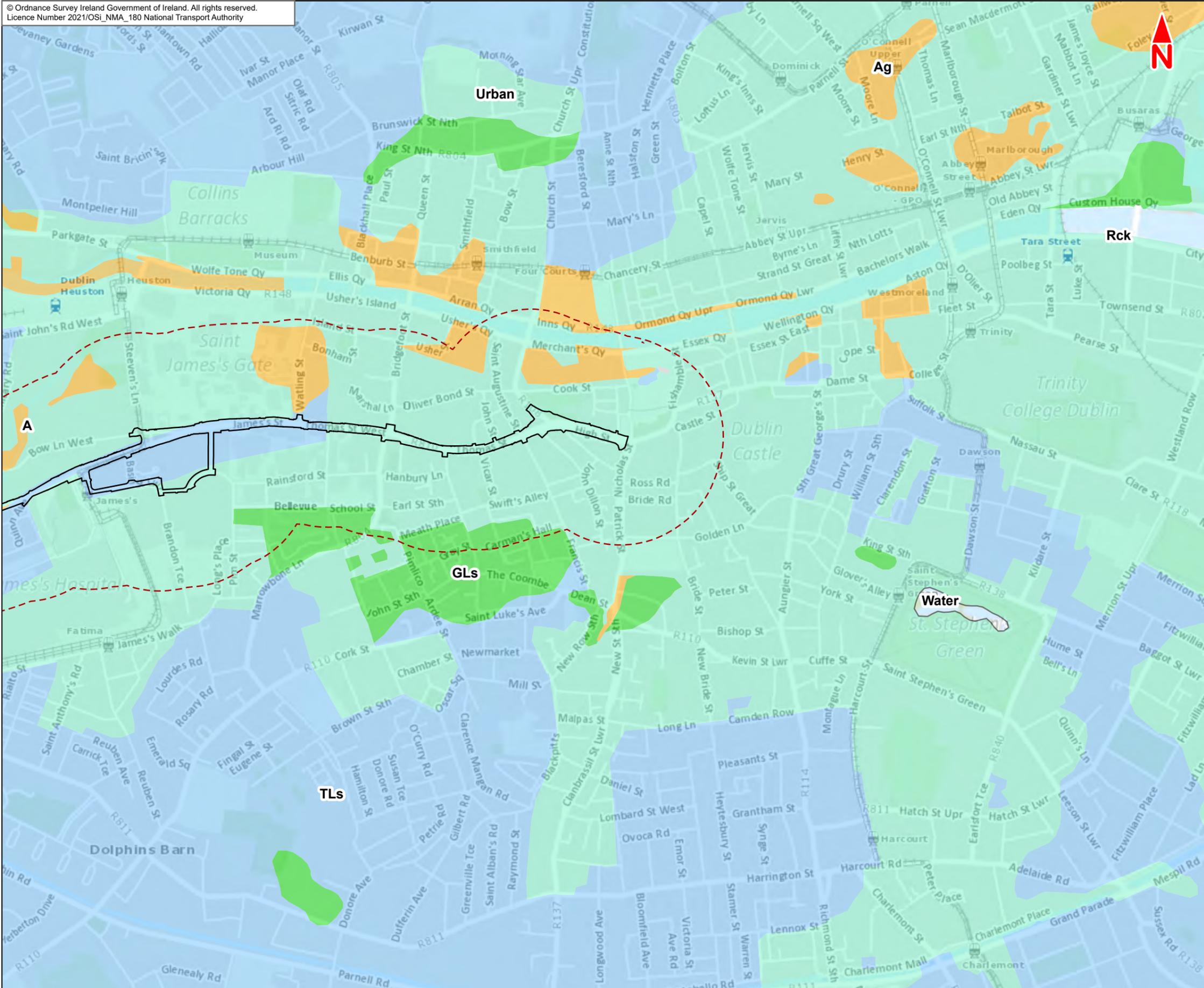
Client: **NTA**
Udárás Náisiúnta Iompair
National Transport Authority

Consultant: **JACOBS ARUP SYSTRA**

Date: 27/05/2022 | Scale @ A3: 1:10000
Project Code: BCIDE | Originator Code: JAC

Drawn: FG | Checked: PW | Approved: DK

Programme Title: BUSCONNECTS DUBLIN			
CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: Liffey Valley to City Centre Core Bus Corridor Scheme Figure 14.9 Subsoil Deposits			
Drawing File Name: BCIDE-JAC-ENV_GT-0007_XX_00-DR-GG-0303	Sheet Number: 3 of 4	Status: A	Rev: M01



- Legend :**
- Liffey Valley to City Centre Scheme
 - 250m Study Area
 - 250m Study Area
 - Quaternary Sediments - 1:50,000
 - A, Alluvium
 - Ag, Alluvium (gravelly)
 - GLs, Gravels derived from Limestones
 - Rck, Bedrock outcrop or subcrop
 - TLs, Till derived from limestones
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M01	May 22	FG	PW	DK	ISSUE FOR PHASE 4 : PLANNING

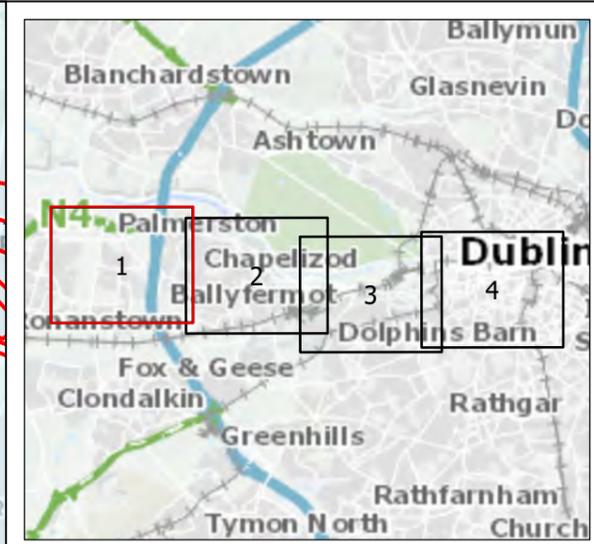
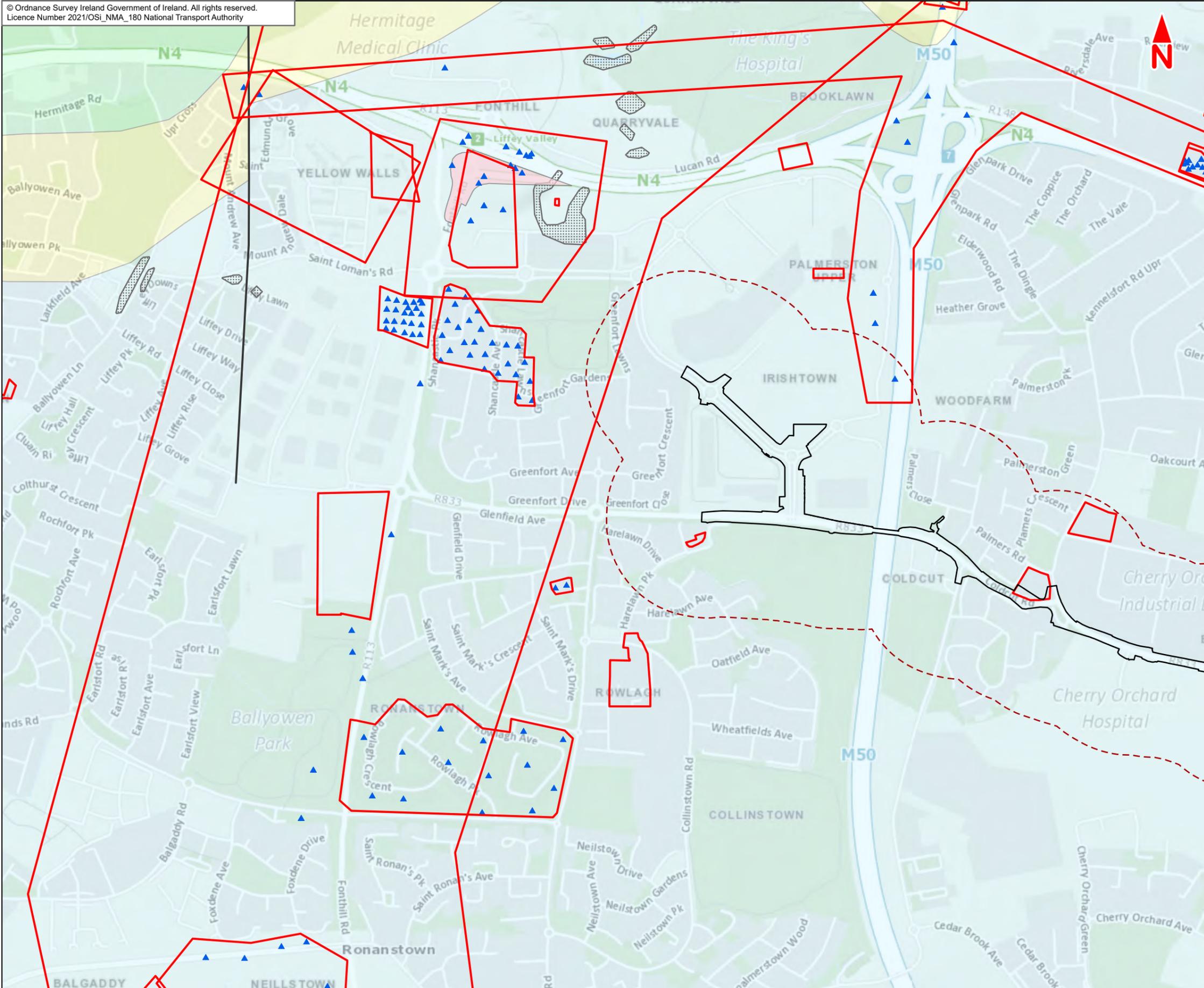
Client
NTA
Udarás Náisiúnta Iompair
National Transport Authority

Consultant
JACOBS ARUP SYSTRA

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Liffey Valley to City Centre Core Bus Corridor Scheme Figure 14.9 Subsoil Deposits				
Date 27/05/2022	Scale @ A3 1:10000	Drawn FG	Checked PW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		Drawing File Name BCIDE-JAC-ENV_GT-0007_XX_00-DR-GG-0304
Sheet Number 4 of 4		Status A	Rev M01	

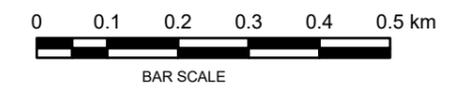
14.10
Bedrock Geology





- Legend :**
- Liffey Valley to City Centre Core Bus Corridor Scheme
 - - - 250m Study Area
 - GSI Geotechnical Sites
 - Geological Heritage Site
 - ▲ GSI Geotechnical Boreholes
 - Fault
 - GSI Bedrock Outcrop - 1:100,000**
 - GSI Bedrock Outcrop - 1:100,000
 - GSI Bedrock Geology - 1:100,000**
 - Lucan Formation
 - Tober Colleen Formation
 - Waulsortian Limestones

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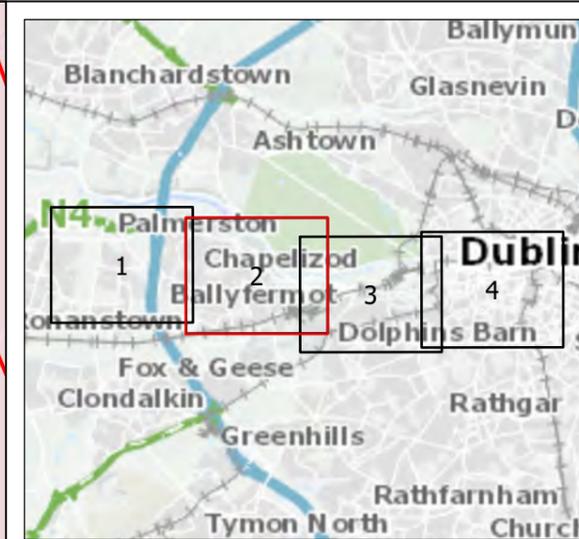
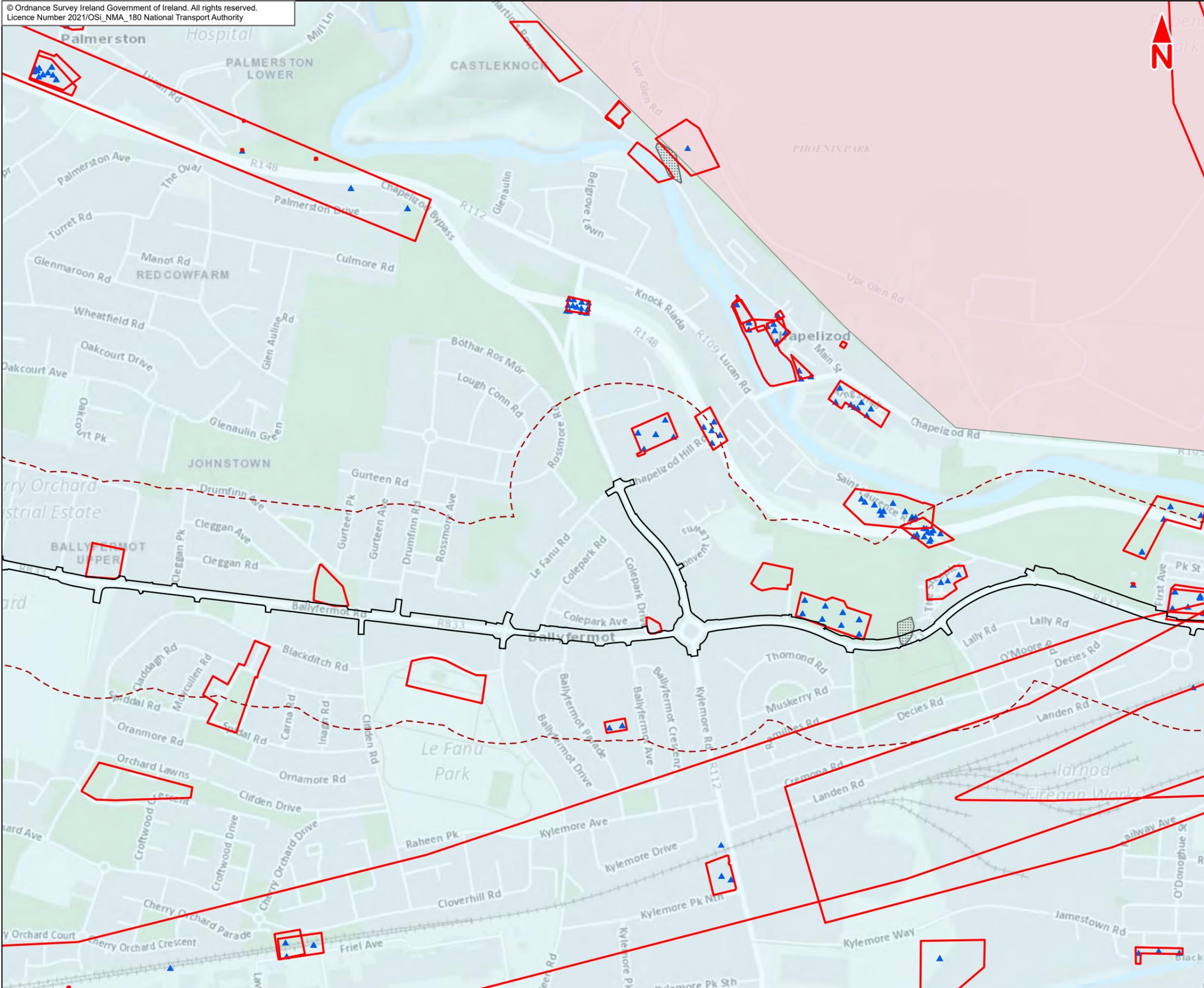
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M01	May 22	FG	PW	DK	ISSUE FOR PHASE 4 : PLANNING

Client NTA Udarás Náisiúnta Iompair National Transport Authority		Consultant JACOBS ARUP SYSTRA		
Date 27/05/2022	Scale @ A3 1:10000	Drawn FG	Checked PW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Liffey Valley to City Centre Core Bus Corridor Scheme Figure 14.10 Bedrock Geology				
Drawing File Name BCIDE-JAC-ENV_GT-0007_XX_00-DR-GG-0401	Sheet Number 1 of 4	Status A	Rev M01	



- Legend :**
- Liffey Valley to City Centre Core Bus Corridor Scheme
 - 250m Study Area
 - GSI Geotechnical Sites
 - Geological Heritage Site
 - GSI Geotechnical Boreholes
 - GSI Bedrock Outcrop - 1:100,000**
 - GSI Bedrock Outcrop - 1:100,000
 - GSI Bedrock Geology - 1:100,000**
 - Lucan Formation

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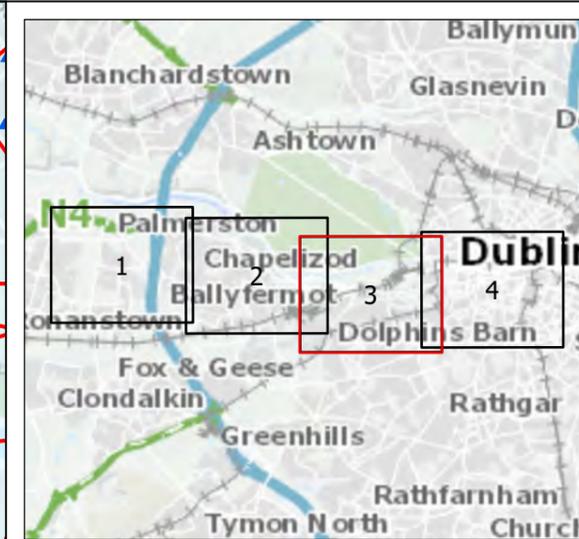
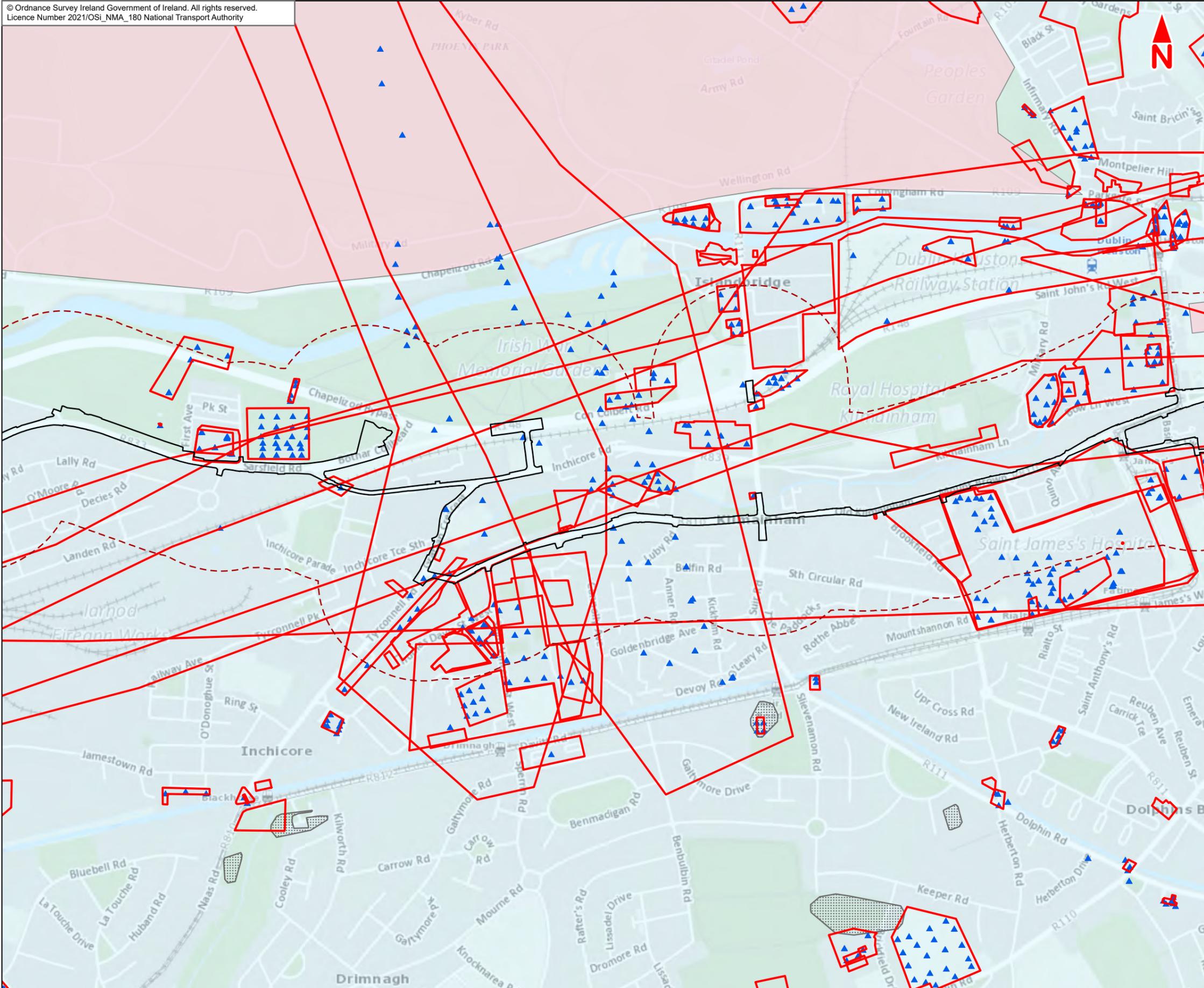
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M01	May 22	FG	PW	DK	ISSUE FOR PHASE 4 : PLANNING

Date	27/05/2022	Scale @ A3	1:10000	Drawn	FG
Project Code	BCIDE	Originator Code	JAC	Checked	PW
				Approved	DK
				QMS Code	

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS					
Drawing Title Liffey Valley to City Centre Core Bus Corridor Scheme Figure 14.10 Bedrock Geology					
Drawing File Name	BCIDE-JAC-ENV_GT-0007_XX_00-DR-GG-0402	Sheet Number	2 of 4	Status	A
Rev	M01				





- Legend :**
- Liffey Valley to City Centre Core Bus Corridor Scheme
 - 250m Study Area
 - GSI Geotechnical Sites
 - Geological Heritage Site
 - GSI Geotechnical Boreholes
 - GSI Bedrock Outcrop - 1:100,000**
 - GSI Bedrock Outcrop - 1:100,000
 - GSI Bedrock Geology - 1:100,000**
 - Lucan Formation

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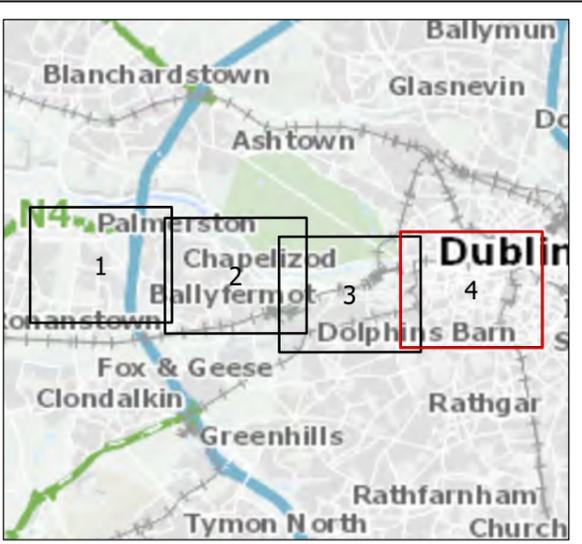
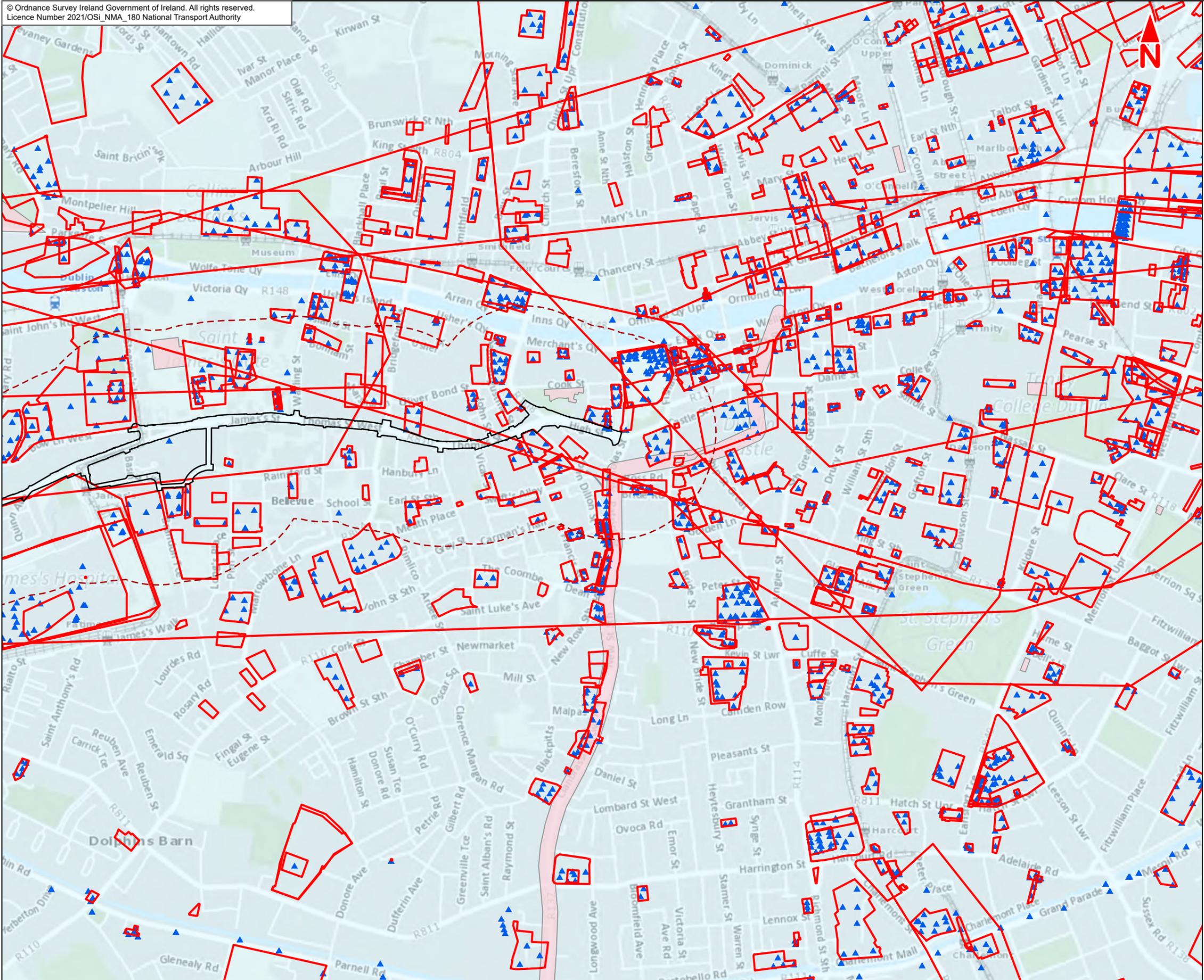
Client: **NTA**
Udarás Náisiúnta Iompair
National Transport Authority

Consultant: **JACOBS ARUP SYSTRA**

Date: 27/05/2022 | Scale @ A3: 1:10000
Project Code: BCIDE | Originator Code: JAC

Drawn: FG | Checked: PW | Approved: DK

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: Liffey Valley to City Centre Core Bus Corridor Scheme Figure 14.10 Bedrock Geology			
Drawing File Name: BCIDE-JAC-ENV_GT-0007_XX_00-DR-GG-0403	Sheet Number: 3 of 4	Status: A	Rev: M01



- Legend :**
- Liffey Valley to City Centre Core Bus Corridor Scheme
 - 250m Study Area
 - GSI Geotechnical Sites
 - Geological Heritage Site
 - GSI Geotechnical Boreholes
- GSI Bedrock Geology - 1:100,000**
- Lucan Formation

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Client
NTA
Udarás Náisiúnta Iompair
National Transport Authority

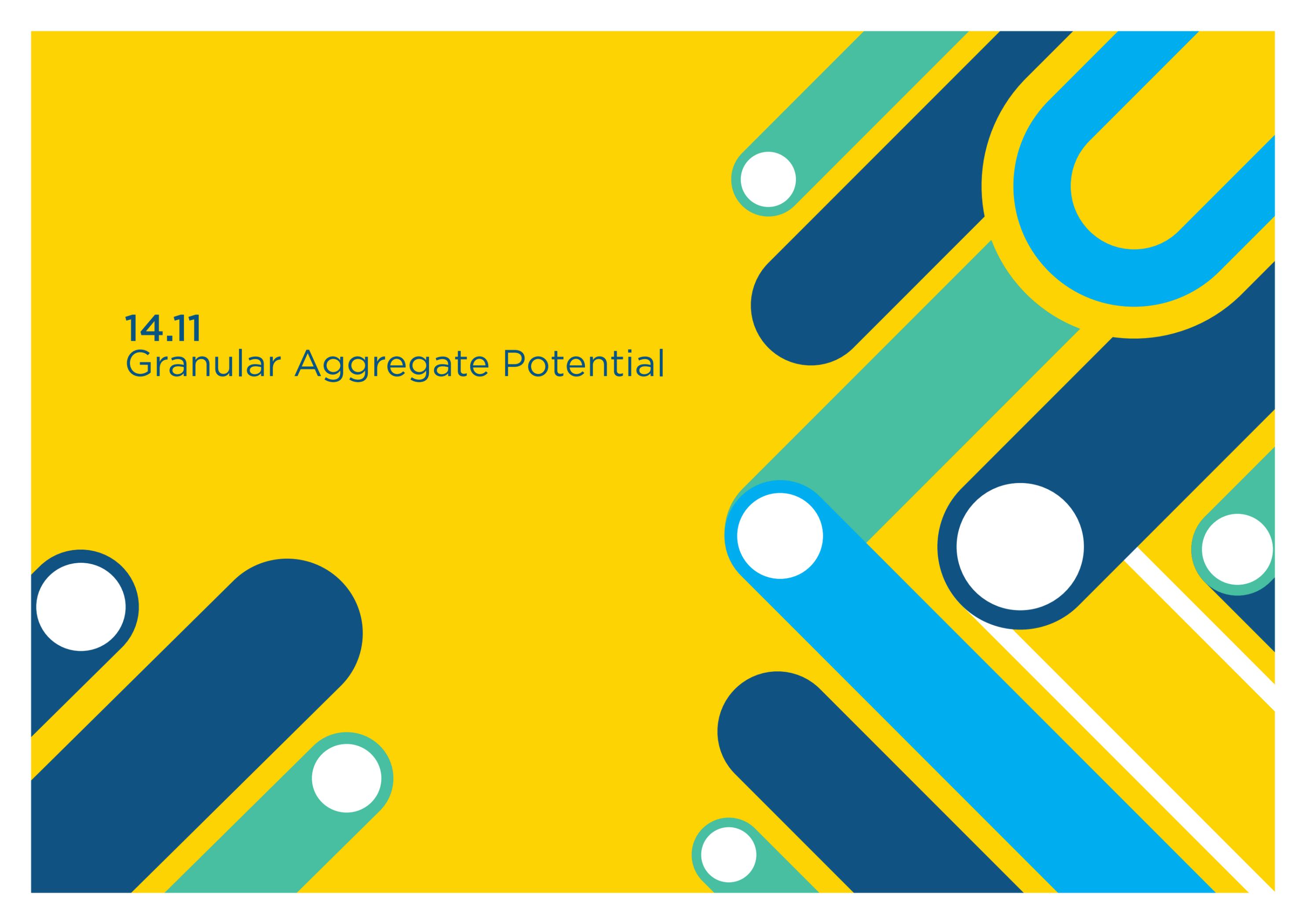
Date: 27/05/2022
Scale @ A3: 1:10000
Project Code: BCIDE
Originator Code: JAC

Consultant
JACOBS ARUP SYSTRA

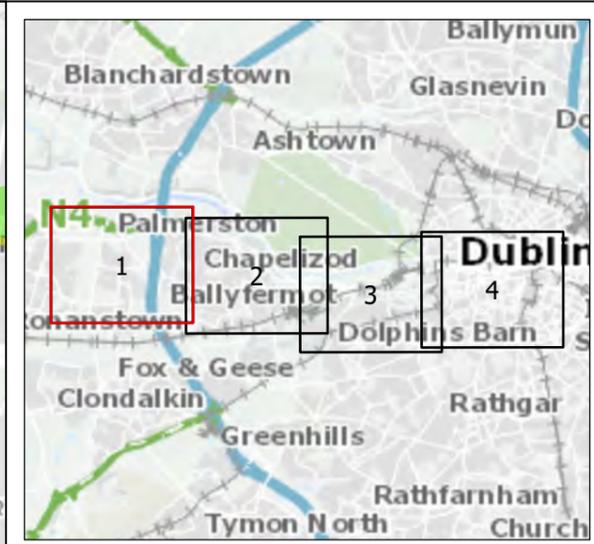
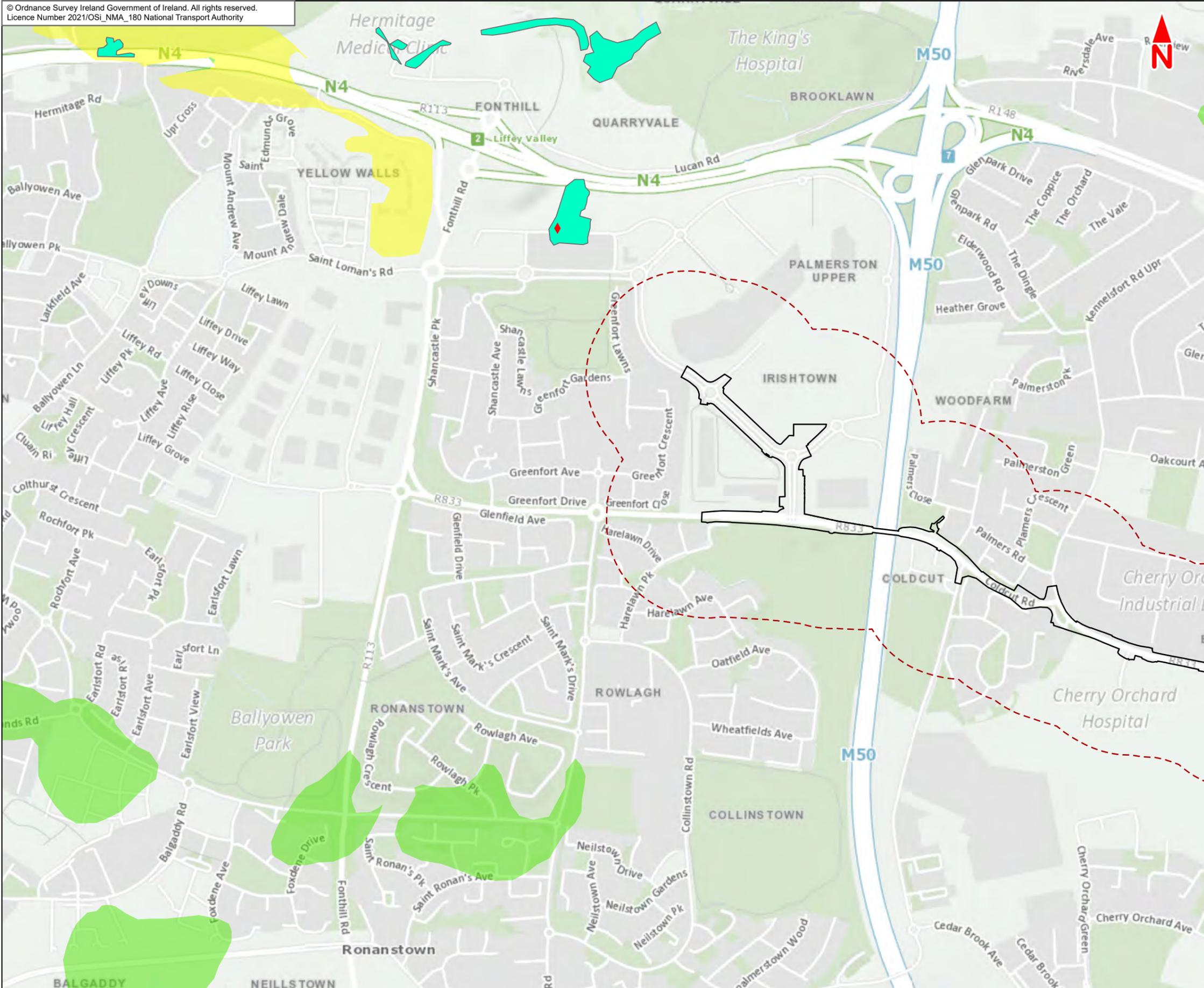
Drawn: FG
Checked: PW
Approved: DK

QMS Code

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title Liffey Valley to City Centre Core Bus Corridor Scheme Figure 14.10 Bedrock Geology			
Drawing File Name BCIDE-JAC-ENV_GT-0007_XX_00-DR-GG-0404	Sheet Number 4 of 4	Status A	Rev M01



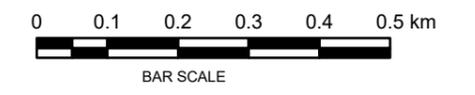
14.11
Granular Aggregate Potential



Legend :

- Liffey Valley to City Centre Scheme
- - - 250m Study Area
- Mineral Locations**
- ◆ Non-metallic
- Pits and Quarries Areas
- GSI Aggregate Potential Mapping - Granular Aggregate Potential**
- Moderate potential
- Low potential

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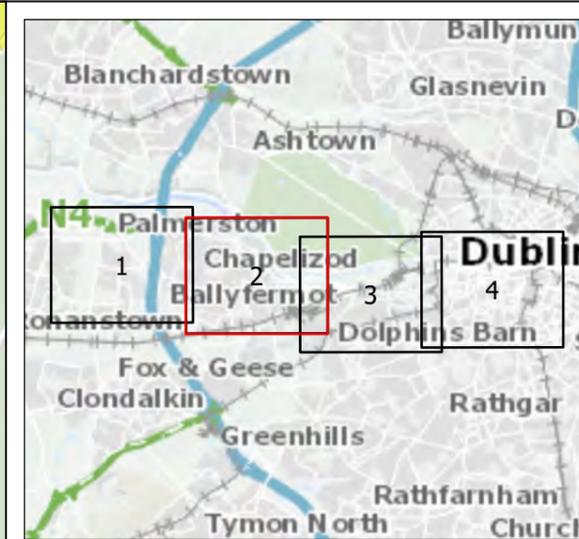
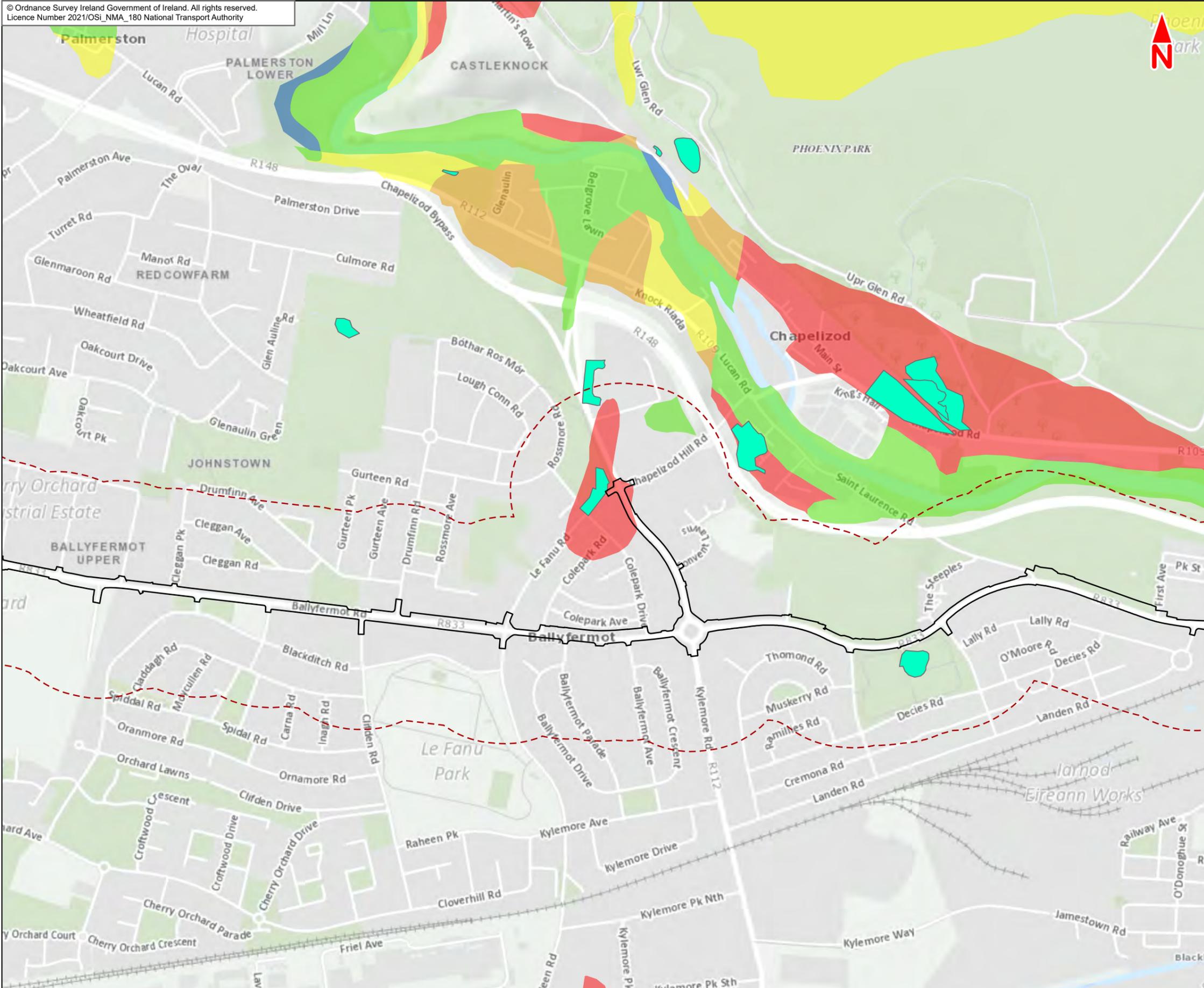
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Rev	Date	Drn	Chk'd	App'd	Description
M01	May 22	FG	PW	DK	ISSUE FOR PHASE 4 : PLANNING

Client NTA Udarás Náisiúnta Iompair National Transport Authority		Consultant JACOBS ARUP SYSTRA		
Date 27/05/2022	Scale @ A3 1:10000	Drawn FG	Checked PW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Liffey Valley to City Centre Core Bus Corridor Scheme Figure 14.11 Granular Aggregate Potential				
Drawing File Name BCIDE-JAC-ENV_GT-0007_XX_00-DR-GG-0501	Sheet Number 1 of 4	Status A	Rev M01	



- Legend :**
- Liffey Valley to City Centre Scheme
 - - - 250m Study Area
 - Pits and Quarries Areas
 - GSI Aggregate Potential Mapping - Granular Aggregate Potential**
 - Very high potential
 - High potential
 - Moderate potential
 - Low potential
 - Very low potential

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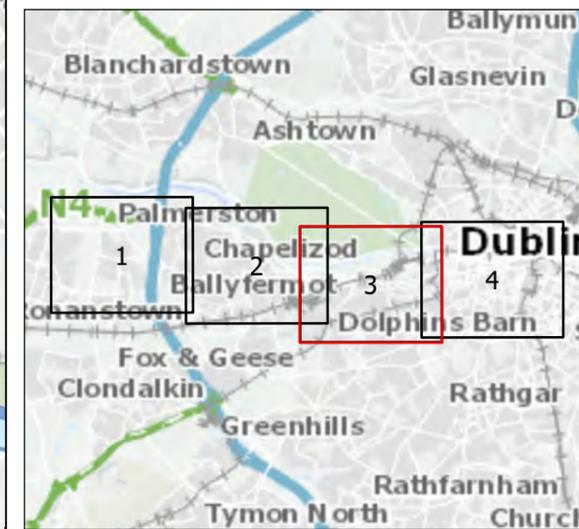
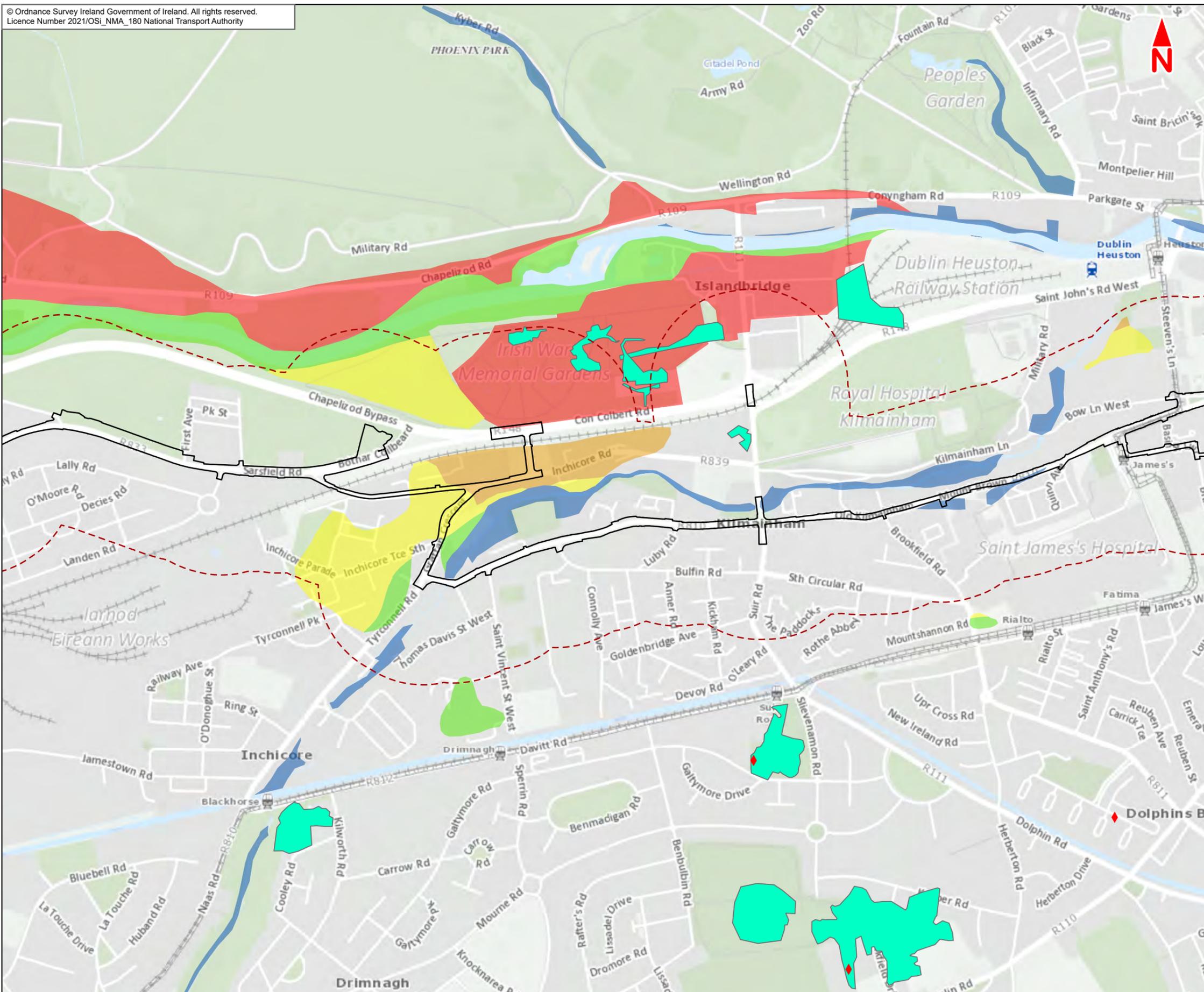
d. Transverse Mercator Grid (ITM) as defined by OSI active local grid.
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Date	27/05/2022	Scale @ A3	1:10000	Drawn	FG
Project Code	BCIDE	Originator Code	JAC	Checked	PW
				Approved	DK
				QMS Code	

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title Liffey Valley to City Centre Core Bus Corridor Scheme Figure 14.11 Granular Aggregate Potential			
Drawing File Name	BCIDE-JAC-ENV_GT-0007_XX_00-DR-GG-0502	Sheet Number	2 of 4
Status	A	Rev	M01



- Legend :**
- Liffey Valley to City Centre Scheme
 - - - 250m Study Area
 - Mineral Locations**
 - ◆ Non-metallic
 - Pits and Quarries Areas
 - GSI Aggregate Potential Mapping - Granular Aggregate Potential**
 - Very high potential
 - High potential
 - Moderate potential
 - Low potential
 - Very low potential

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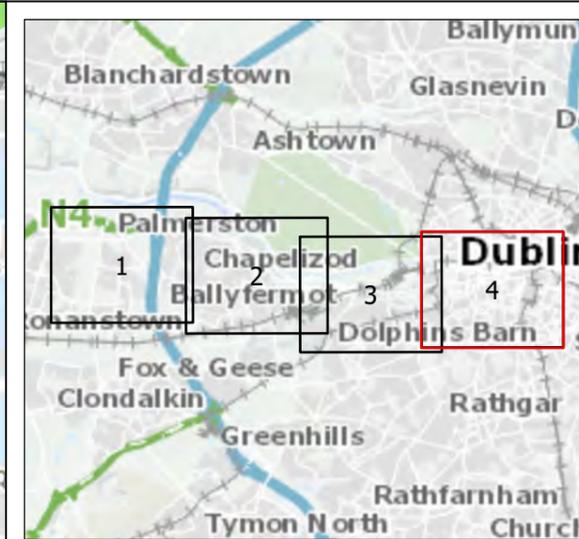
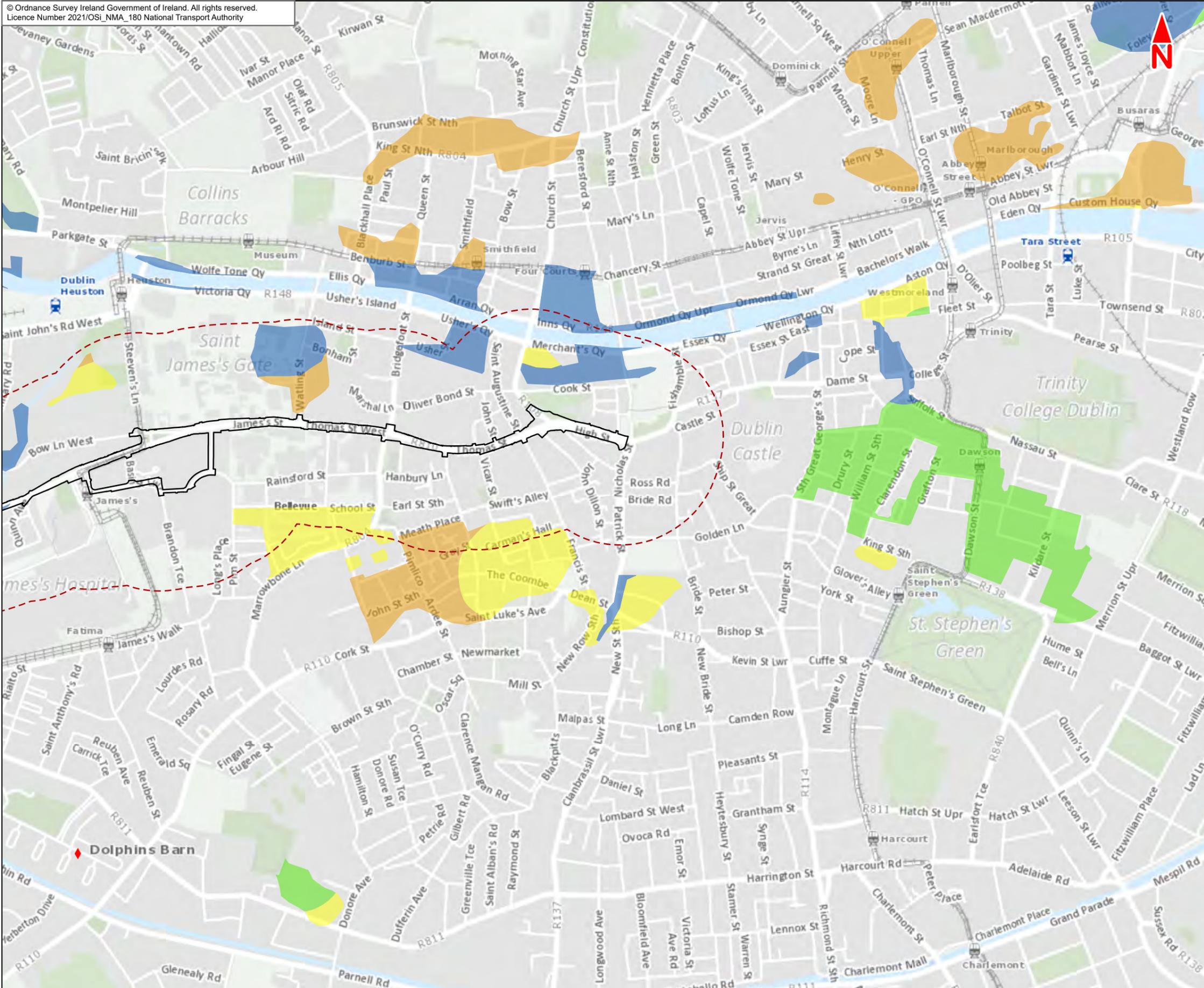
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Date	Scale @ A3	Drawn	Checked	Approved
27/05/2022	1:10000	FG	PW	DK
Project Code	Originator Code	QMS Code		
BCIDE	JAC			

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Liffey Valley to City Centre Core Bus Corridor Scheme Figure 14.11 Granular Aggregate Potential				
Drawing File Name	Sheet Number	Status	Rev	
BCIDE-JAC-ENV_GT-0007_XX_00-DR-GG-0503	3 of 4	A	M01	



- Legend :**
- Liffey Valley to City Centre Scheme
 - - - 250m Study Area
 - Mineral Locations**
 - ◆ Non-metallic
 - Pits and Quarries Areas
 - GSI Aggregate Potential Mapping - Granular Aggregate Potential**
 - High potential
 - Moderate potential
 - Low potential
 - Very low potential

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Client: **NTA**
Udarás Náisiúnta Iompair
National Transport Authority

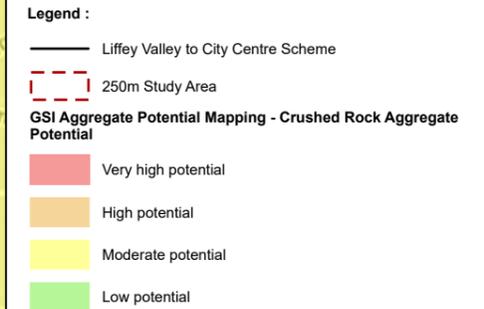
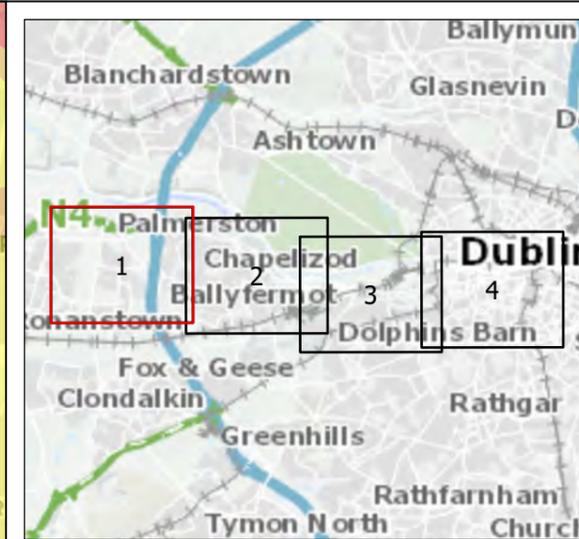
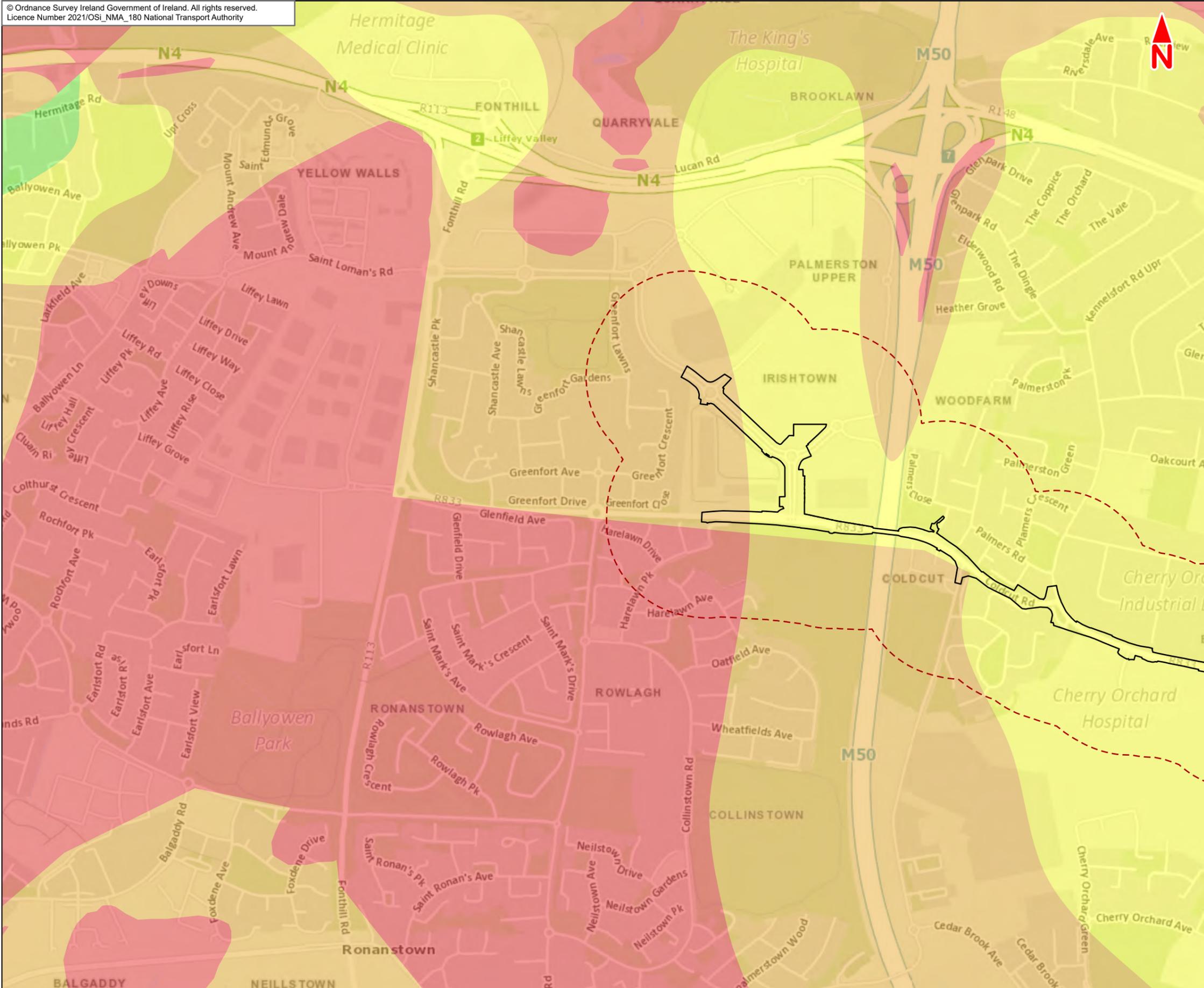
Consultant: **JACOBS ARUP SYSTRA**

Date: 27/05/2022 | Scale @ A3: 1:10000
 Drawn: FG | Checked: PW | Approved: DK
 Project Code: BCIDE | Originator Code: JAC | QMS Code:

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: Liffey Valley to City Centre Core Bus Corridor Scheme Figure 14.11 Granular Aggregate Potential			
Drawing File Name: BCIDE-JAC-ENV_GT-0007_XX_00-DR-GG-0504	Sheet Number: 4 of 4	Status: A	Rev: M01

14.12
Crushed Rock
Aggregate Potential





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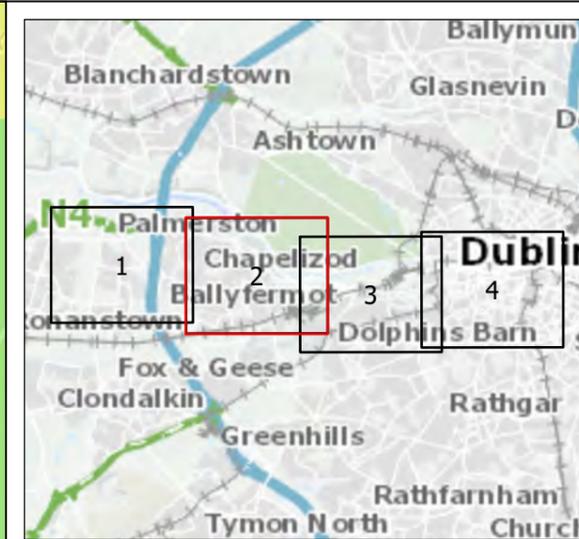
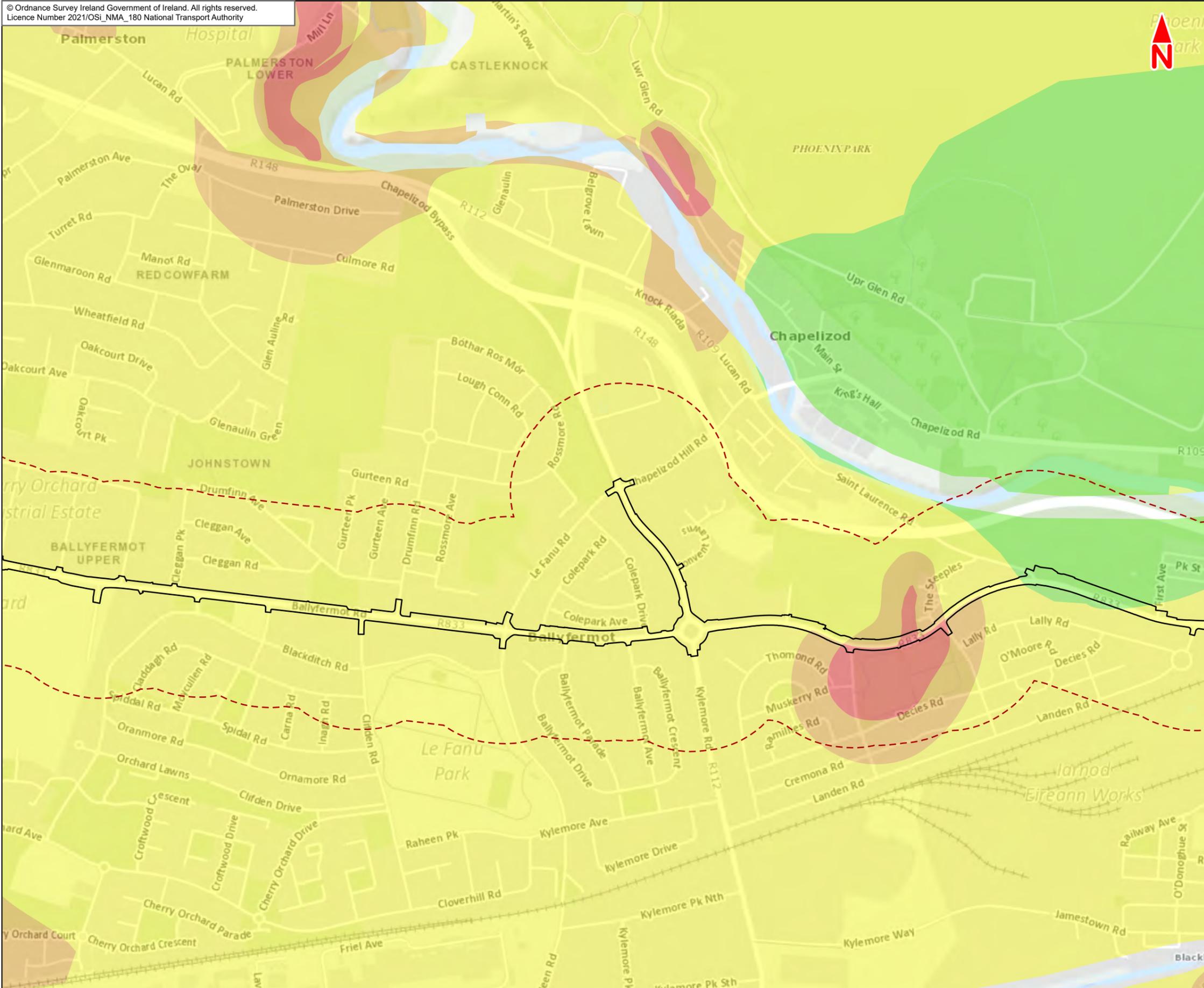
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Date 27/05/2022	Scale @ A3 1:10000	Drawn FG	Checked PW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Liffey Valley to City Centre Core Bus Corridor Scheme Figure 14.12 Crushed Rock Aggregate Potential				
Drawing File Name BCIDE-JAC-ENV_GT-0007_XX_00-DR-GG-0601	Sheet Number 1 of 4	Status A	Rev M01	



Legend :

- Liffey Valley to City Centre Scheme
- - - 250m Study Area

GSI Aggregate Potential Mapping - Crushed Rock Aggregate Potential

- Very high potential
- High potential
- Moderate potential
- Low potential

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Project Ireland 2040
Building Ireland's Future

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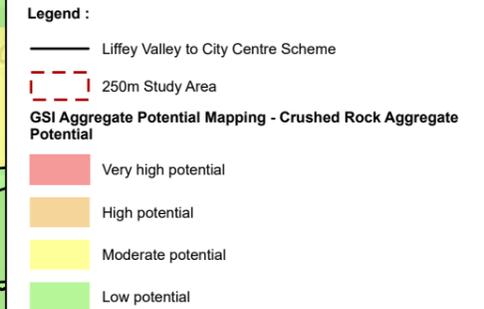
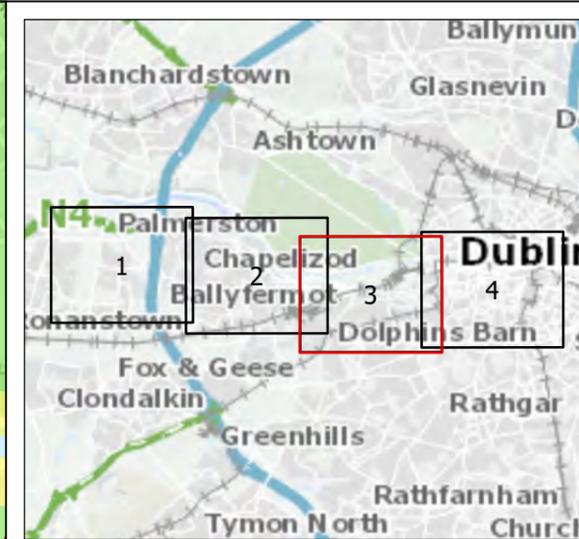
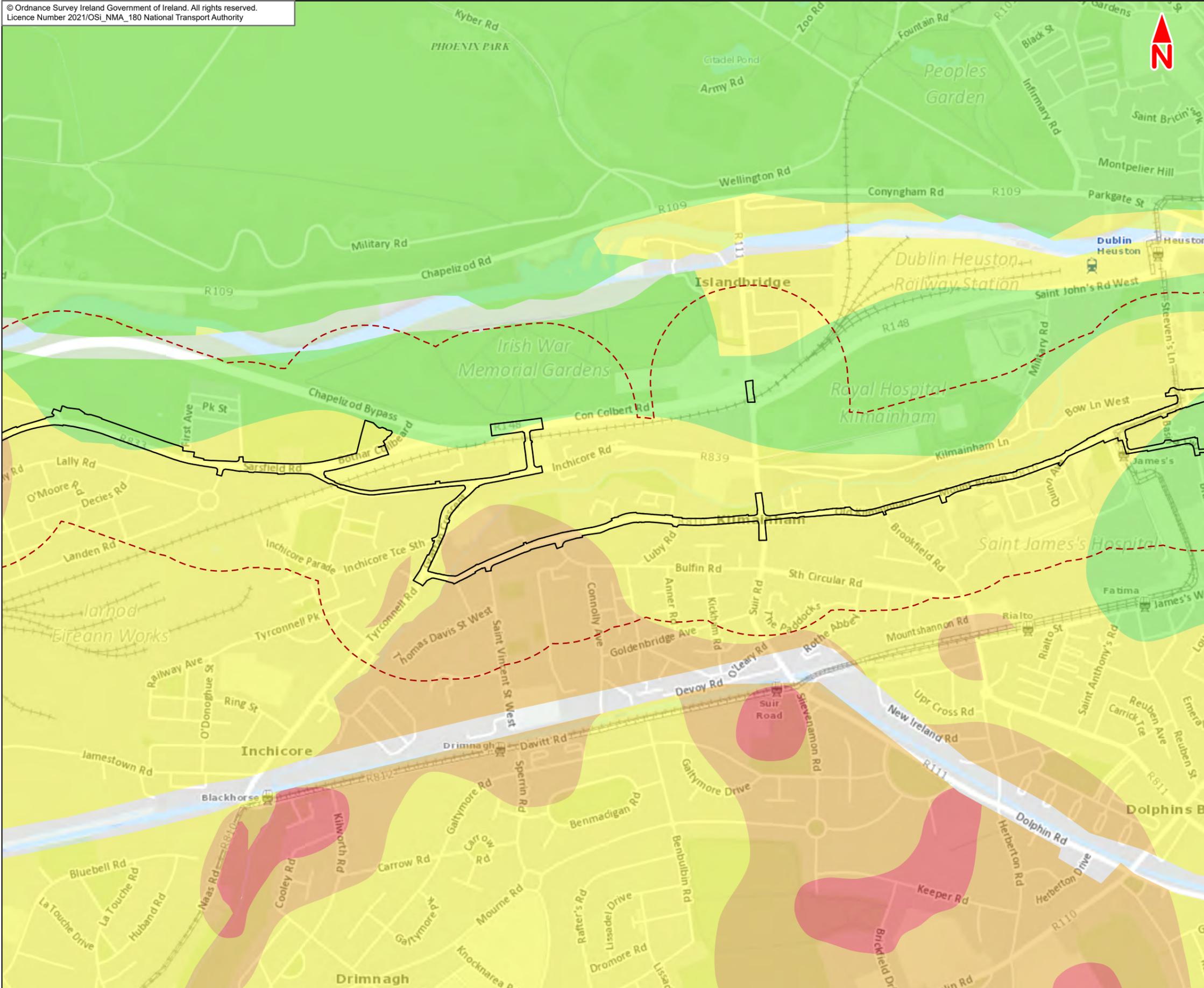
Client
NTA
Udarás Náisiúnta Iompair
National Transport Authority

Consultant
Jacobs
ARUP SYSTRA

Date: 27/05/2022
Scale @ A3: 1:10000
Project Code: BCIDE
Originator Code: JAC

Drawn: FG
Checked: PW
Approved: DK
QMS Code:

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title Liffey Valley to City Centre Core Bus Corridor Scheme Figure 14.12 Crushed Rock Aggregate Potential			
Drawing File Name BCIDE-JAC-ENV_GT-0007_XX_00-DR-GG-0602	Sheet Number 2 of 4	Status A	Rev M01



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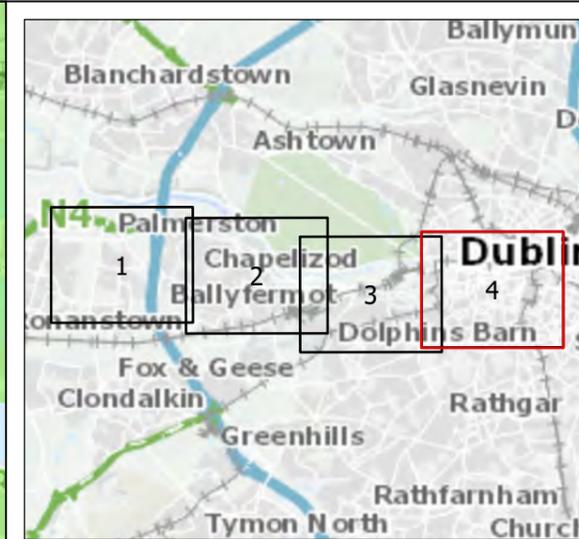
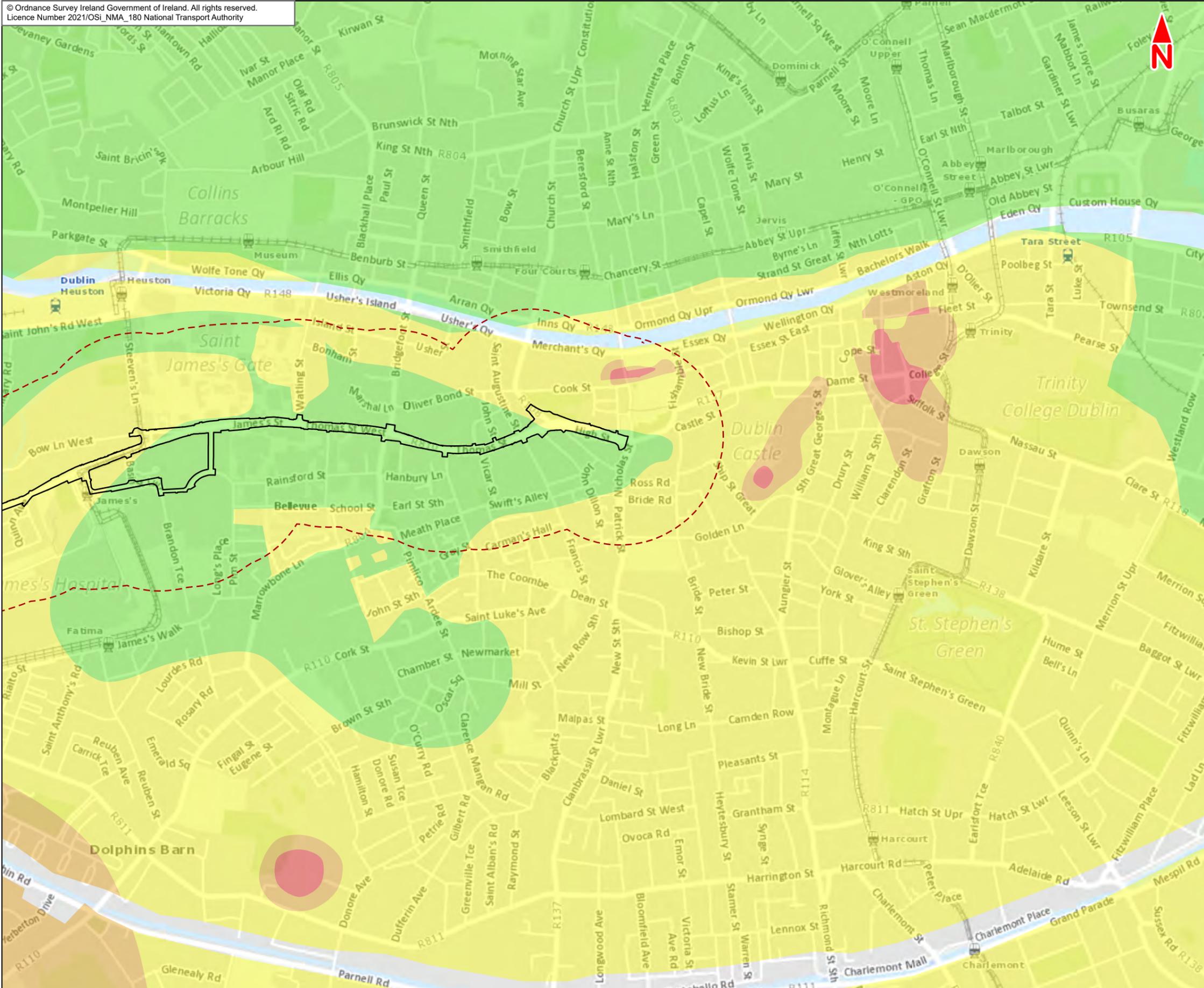
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 Udarás Náisiúnta Iompair National Transport Authority				
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Project Code	Originator Code	QMS Code		
BCIDE	JAC			

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
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Drawing File Name	Sheet Number	Status	Rev	
BCIDE-JAC-ENV_GT-0007_XX_00-DR-GG-0603	3 of 4	A	M01	



Legend :

- Liffey Valley to City Centre Scheme
- 250m Study Area
- GSI Aggregate Potential Mapping - Crushed Rock Aggregate Potential**
- Very high potential
- High potential
- Moderate potential
- Low potential

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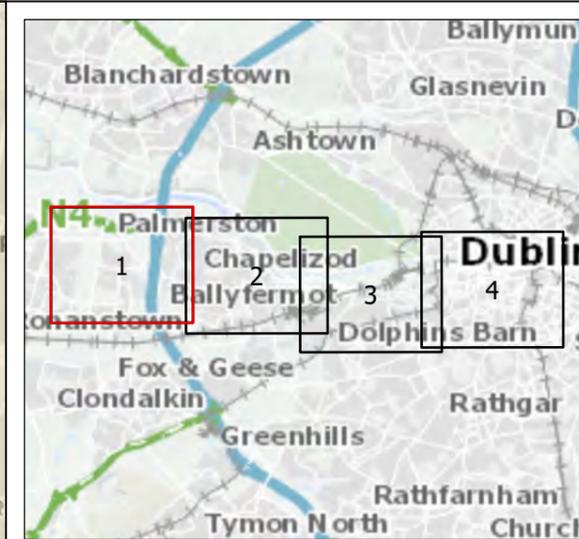
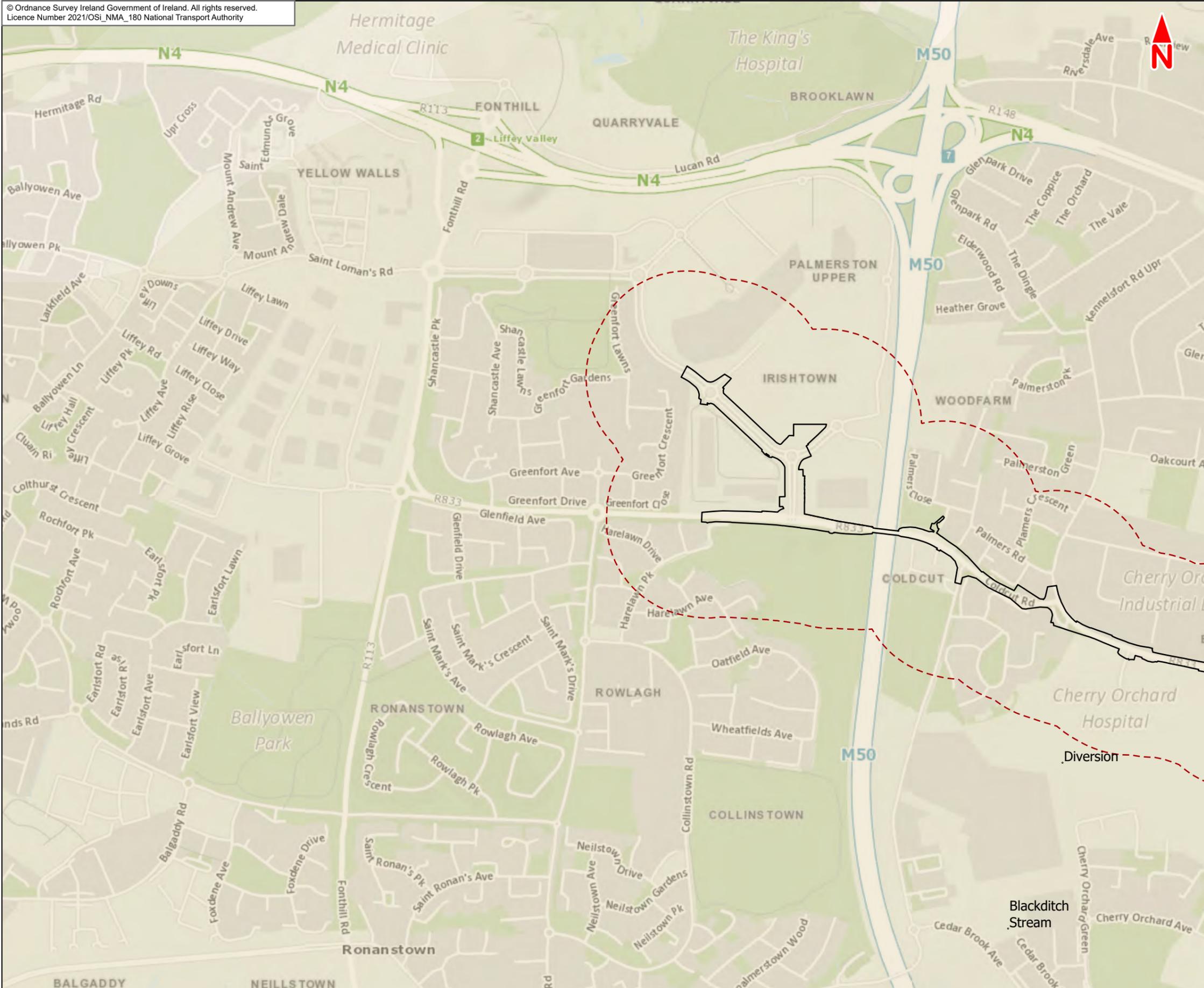
Rev	Date	Drn	Chk'd	App'd	Description
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Client Udarás Náisiúnta Iompair National Transport Authority		Consultant 		
Date	Scale @ A3	Drawn	Checked	Approved
27/05/2022	1:10000	FG	PW	DK
Project Code	Originator Code	QMS Code		
BCIDE	JAC			

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Liffey Valley to City Centre Core Bus Corridor Scheme Figure 14.12 Crushed Rock Aggregate Potential				
Drawing File Name	Sheet Number	Status	Rev	
BCIDE-JAC-ENV_GT-0007_XX_00-DR-GG-0604	4 of 4	A	M01	

14.13
Aquifers





- Legend :**
- Liffey Valley to City Centre Scheme
 - 250m Study Area
 - Groundwater Wells and Springs
- GSI Bedrock Aquifer**
- Locally Important Aquifer - Bedrock which is Moderately Productive only in Local Zones (LI)
 - Poor Aquifer - Bedrock which is Generally Unproductive except for Local Zones (PI)

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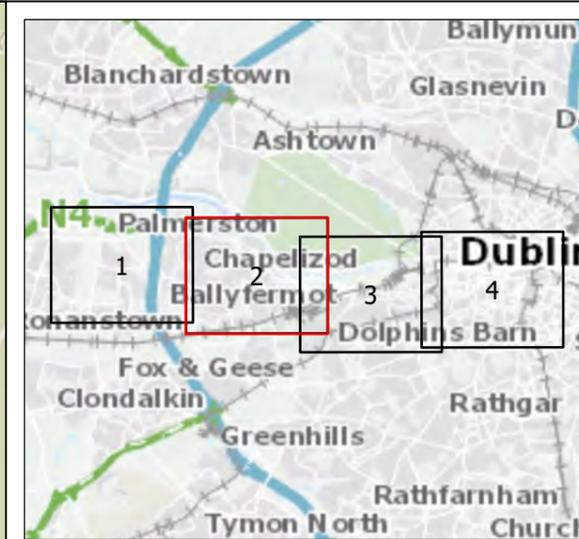
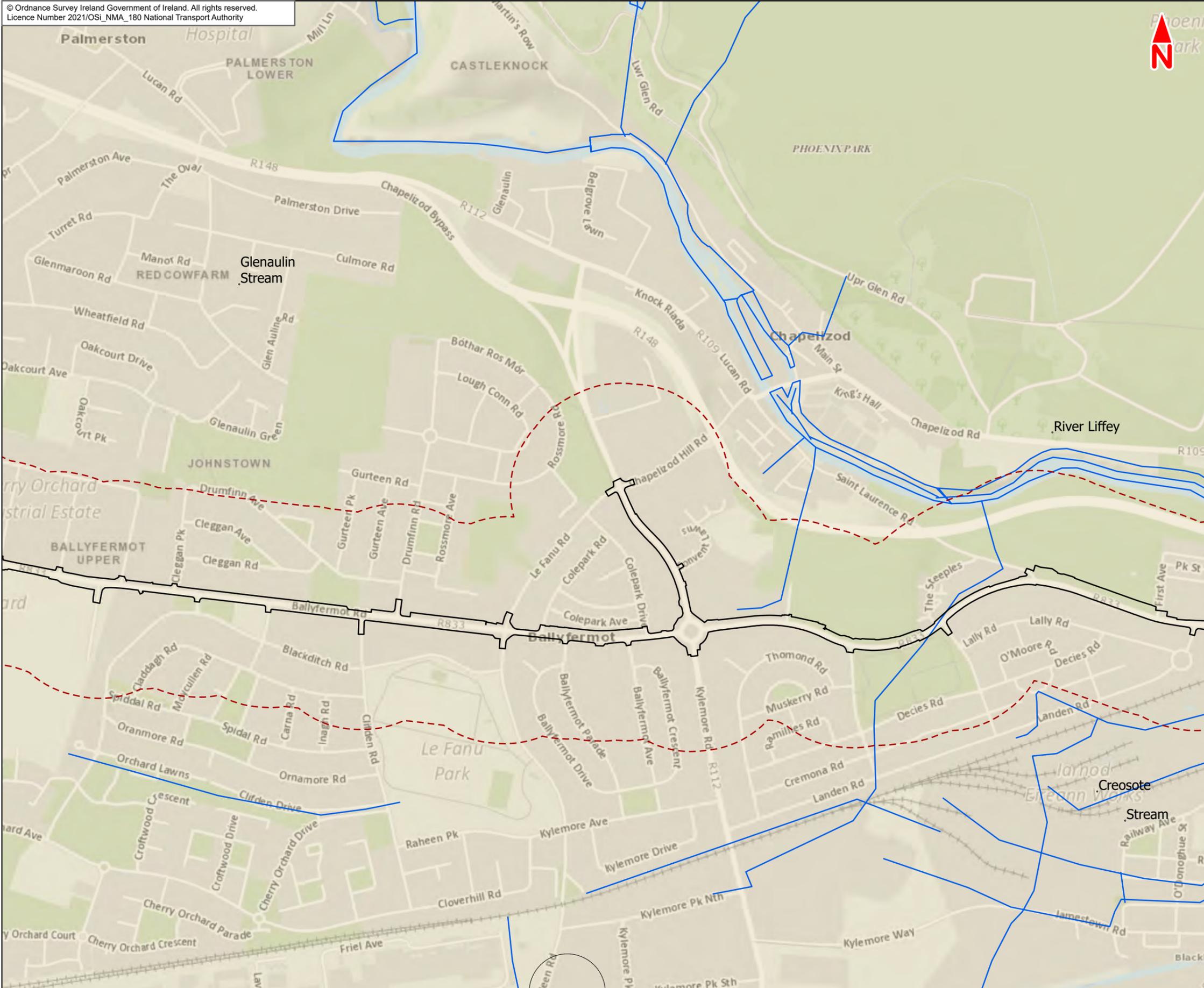
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Rev	Date	Drn	Chk'd	App'd	Description
M01	May 22	FG	PW	DK	ISSUE FOR PHASE 4 : PLANNING

Client NTA Udarás Náisiúnta Iompair National Transport Authority		Consultant JACOBS ARUP SYSTRA		
Date 27/05/2022	Scale @ A3 1:10000	Drawn FG	Checked PW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Liffey Valley to City Centre Core Bus Corridor Scheme Figure 14.13 Aquifers				
Drawing File Name BCIDE-JAC-ENV_GT-0007_XX_00-DR-GG-0701	Sheet Number 1 of 4	Status A	Rev M01	



- Legend :**
- Liffey Valley to City Centre Scheme
 - 250m Study Area
 - Rivers Of Dublin
 - Groundwater Wells and Springs
- GSI Bedrock Aquifer**
- Locally Important Aquifer - Bedrock which is Moderately Productive only in Local Zones (LI)

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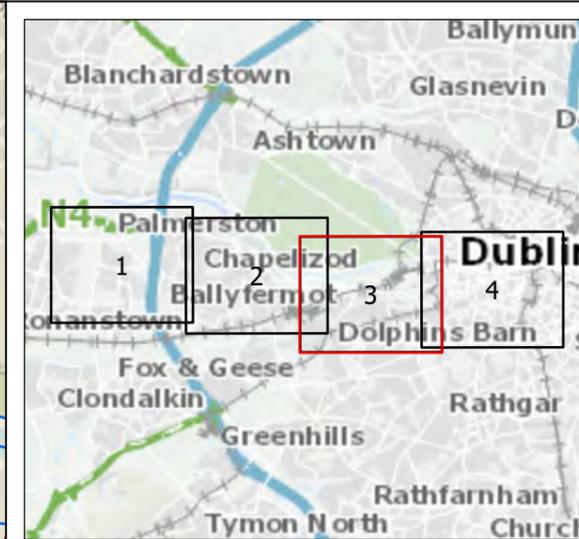
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Client NTA Udarás Náisiúnta Iompair National Transport Authority		Consultant JACOBS ARUP SYSTRA		
Date 27/05/2022	Scale @ A3 1:10000	Drawn FG	Checked PW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Liffey Valley to City Centre Core Bus Corridor Scheme Figure 14.13 Aquifers				
Drawing File Name BCIDE-JAC-ENV_GT-0007_XX_00-DR-GG-0702	Sheet Number 2 of 4	Status A	Rev M01	



- Legend :**
- Liffey Valley to City Centre Scheme
 - 250m Study Area
 - Rivers Of Dublin
 - Groundwater Wells and Springs
- GSI Bedrock Aquifer**
- Locally Important Aquifer - Bedrock which is Moderately Productive only in Local Zones (LI)

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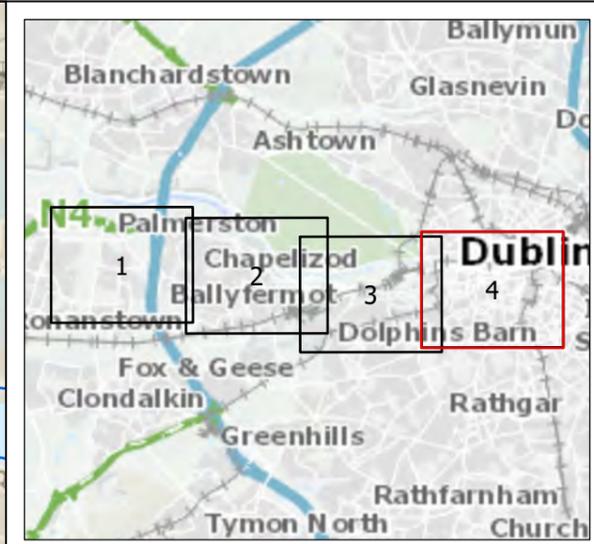
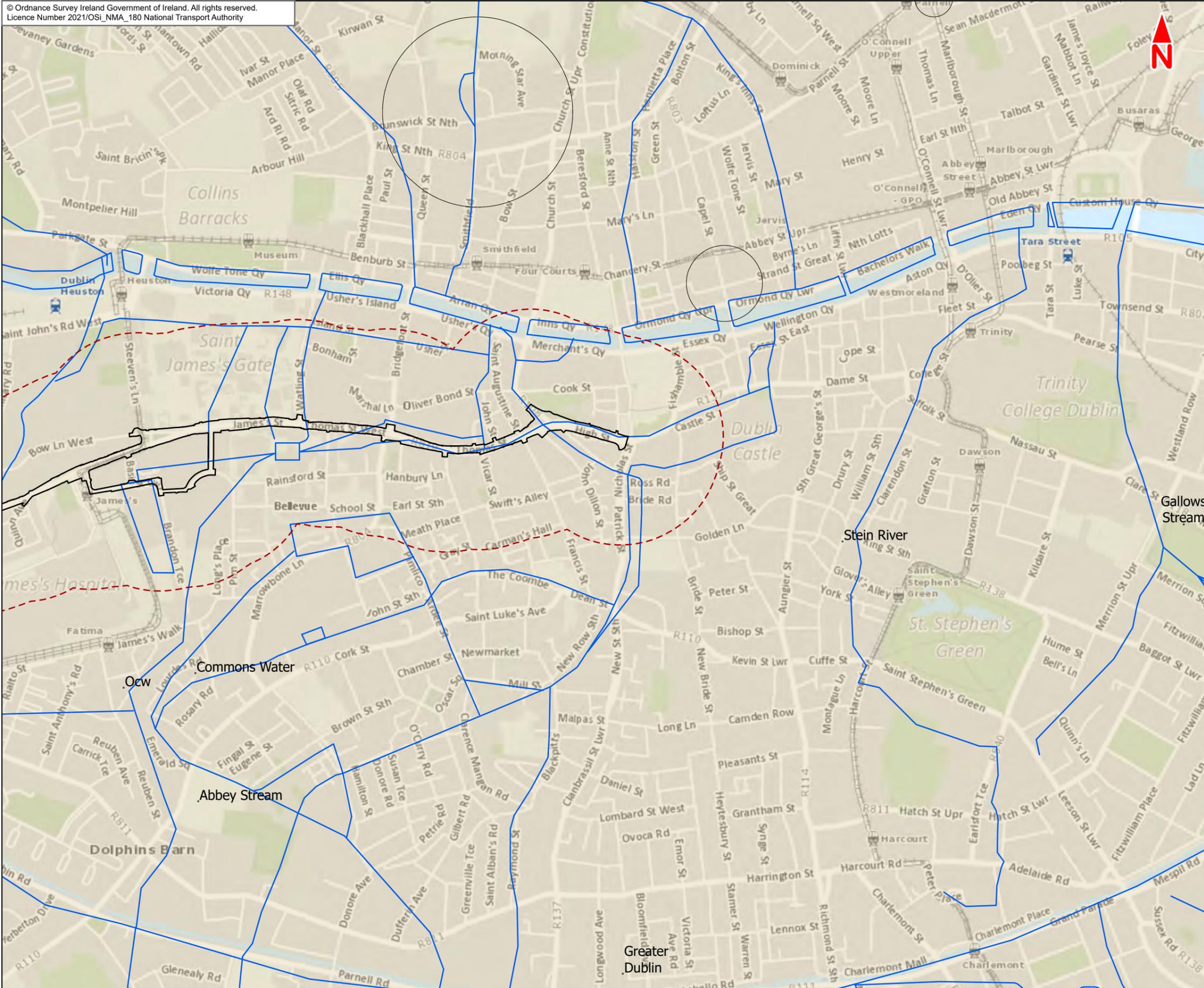
Client: **NTA**
Udarás Náisiúnta Iompair
National Transport Authority

Consultant: **JACOBS ARUP SYSTRA**

Date: 27/05/2022 | Scale @ A3: 1:10000
Project Code: BCIDE | Originator Code: JAC

Drawn: FG | Checked: PW | Approved: DK

Programme Title: BUSCONNECTS DUBLIN			
CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: Liffey Valley to City Centre Core Bus Corridor Scheme Aquifers			
Drawing File Name: BCIDE-JAC-ENV_GT-0007_XX_00-DR-GG-0703	Sheet Number: 3 of 4	Status: A	Rev: M01



Legend :

- Liffey Valley to City Centre Scheme
- - - 250m Study Area
- Rivers Of Dublin
- Groundwater Wells and Springs

GSI Bedrock Aquifer

- Locally Important Aquifer - Bedrock which is Moderately Productive only in Local Zones (LI)

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M01	May 22	FG	PW	DK	ISSUE FOR PHASE 4 : PLANNING

Client: **NTA**
Udarás Náisiúnta Iompair
National Transport Authority

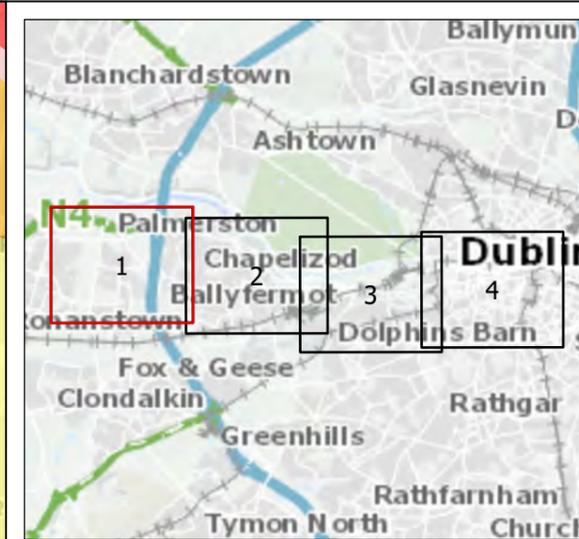
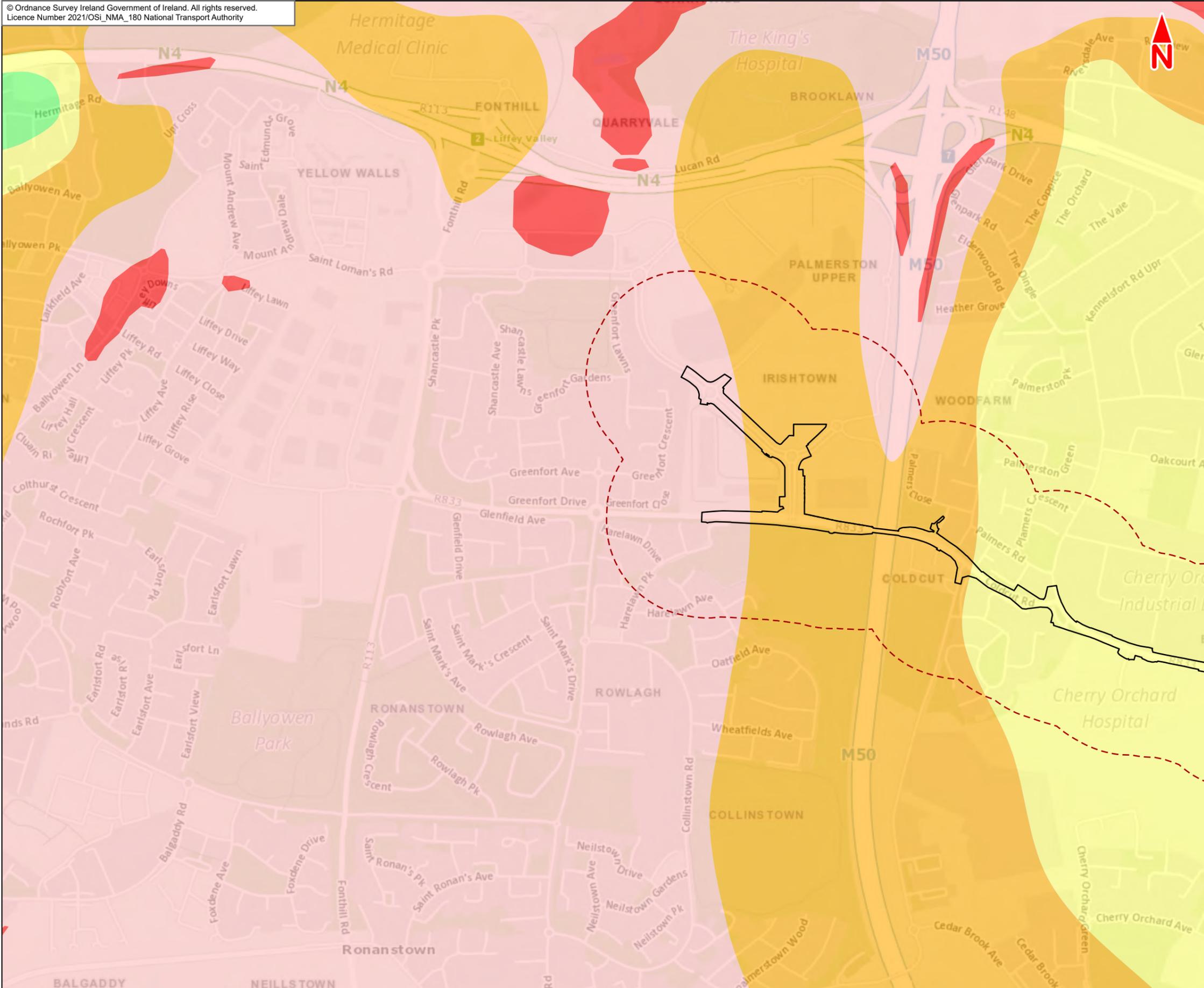
Consultant: **JACOBS ARUP SYSTRA**

Date: 27/05/2022 | Scale @ A3: 1:10000
 Drawn: FG | Checked: PW | Approved: DK
 Project Code: BCIDE | Originator Code: JAC | QMS Code:

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title: Liffey Valley to City Centre Core Bus Corridor Scheme Aquifers Figure 14.13				
Drawing File Name: BCIDE-JAC-ENV_GT-0007_XX_00-DR-GG-0704	Sheet Number: 4 of 4	Status: A	Rev: M01	

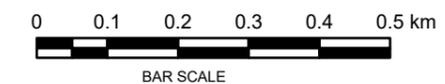
14.14
Groundwater Vulnerability





- Legend :**
- Liffey Valley to City Centre Scheme
 - 250m Study Area
 - GSI National Groundwater Vulnerability**
 - Extreme (X) Rock at/close to surface or Karst
 - Extreme
 - High
 - Moderate
 - Low
 - Water

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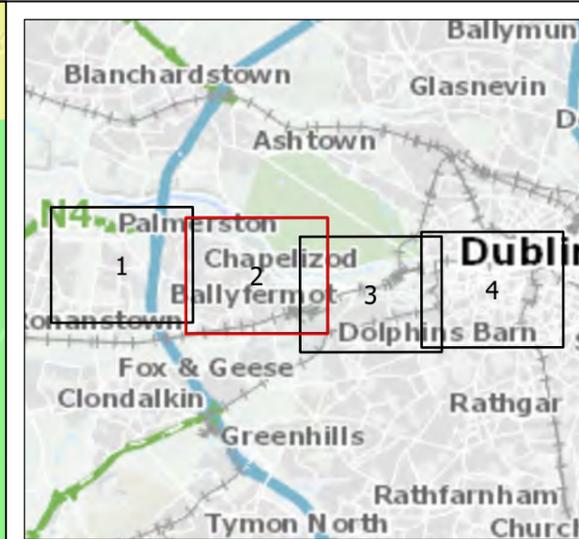
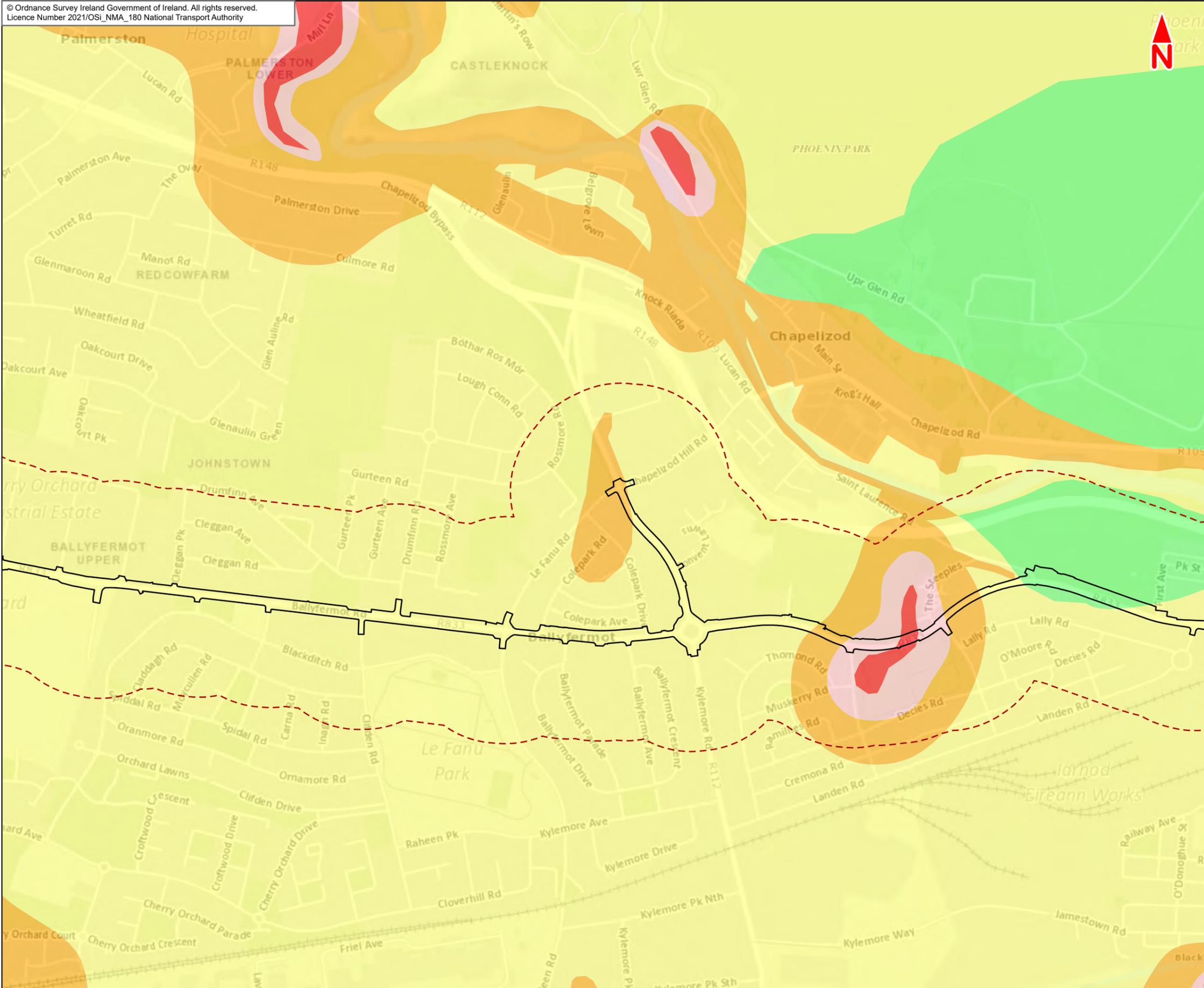
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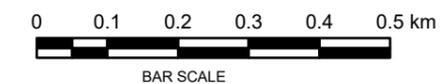
Client NTA Udarás Náisiúnta Iompair National Transport Authority		Consultant JACOBS ARUP SYSTRA		
Date 27/05/2022	Scale @ A3 1:10000	Drawn FG	Checked PW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Liffey Valley to City Centre Core Bus Corridor Scheme Figure 14.14 Groundwater Vulnerability				
Drawing File Name BCIDE-JAC-ENV_GT-0007_XX_00-DR-GG-0801	Sheet Number 1 of 4	Status A	Rev M01	



- Legend :**
- Liffey Valley to City Centre Scheme
 - - - 250m Study Area
 - GSI National Groundwater Vulnerability**
 - Extreme (X) Rock at/close to surface or Karst
 - Extreme
 - High
 - Moderate
 - Low
 - Water

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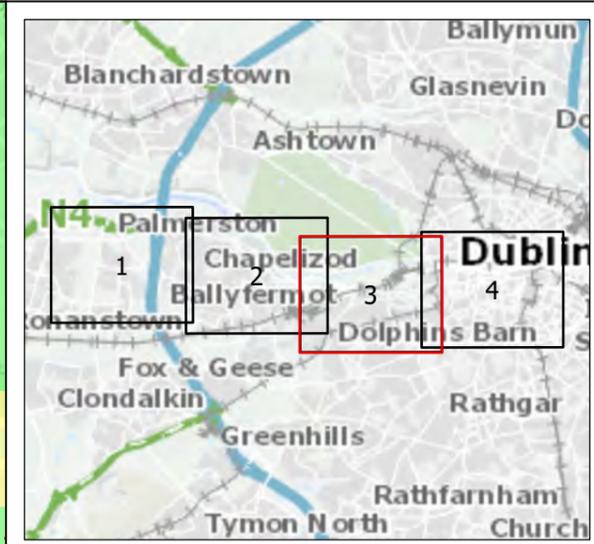
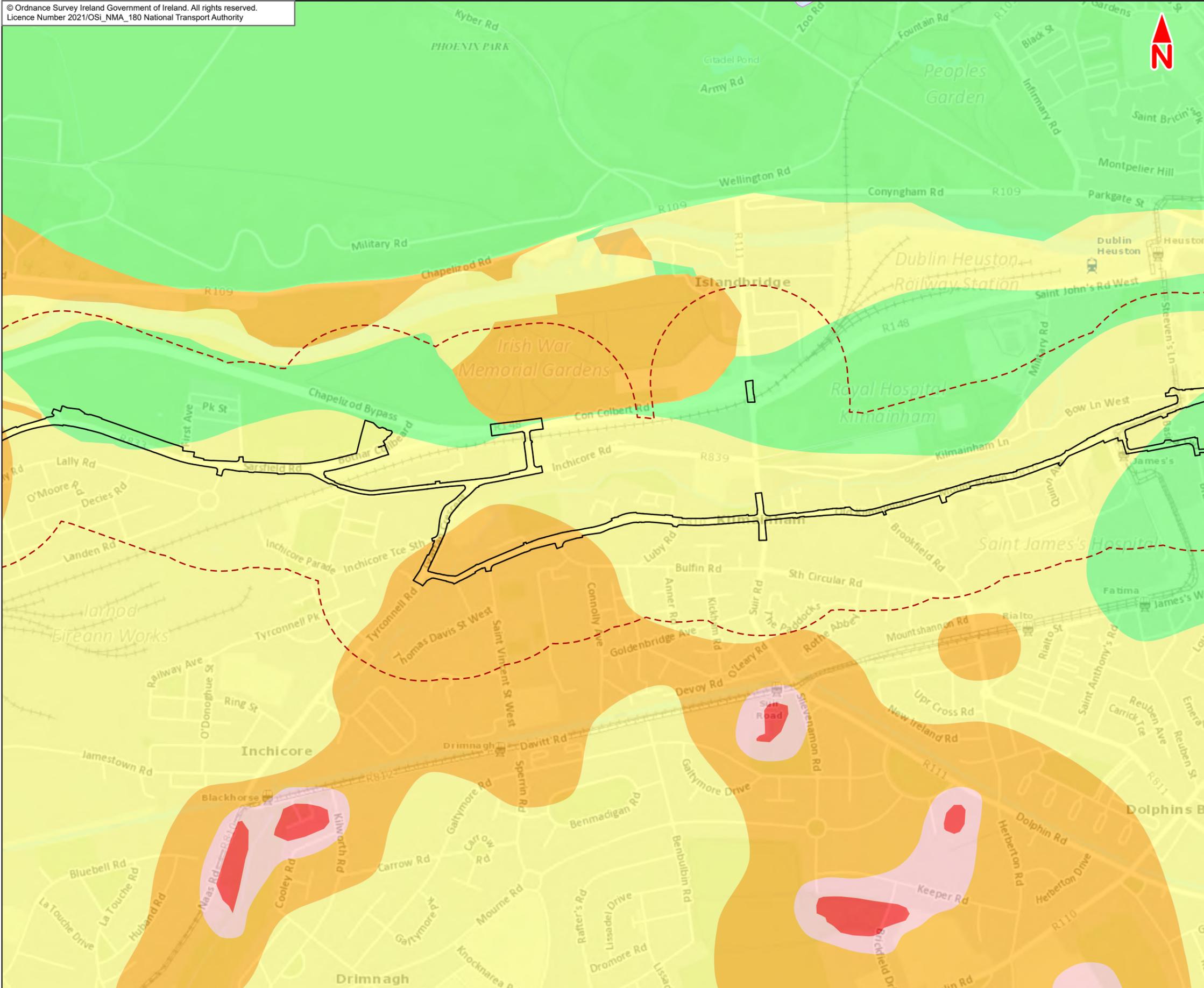
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Date	27/05/2022	Scale @ A3	1:10000	Drawn	FG
Project Code	BCIDE	Originator Code	JAC	Checked	PW
				Approved	DK
				QMS Code	

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS					
Drawing Title Liffey Valley to City Centre Core Bus Corridor Scheme Figure 14.14 Groundwater Vulnerability					
Drawing File Name	BCIDE-JAC-ENV_GT-0007_XX_00-DR-GG-0802	Sheet Number	2 of 4	Status	A
Rev	M01				



Legend :

- Liffey Valley to City Centre Scheme
- - - 250m Study Area

GSI National Groundwater Vulnerability

- Extreme (X) Rock at/close to surface or Karst
- Extreme
- High
- Moderate
- Low
- Water

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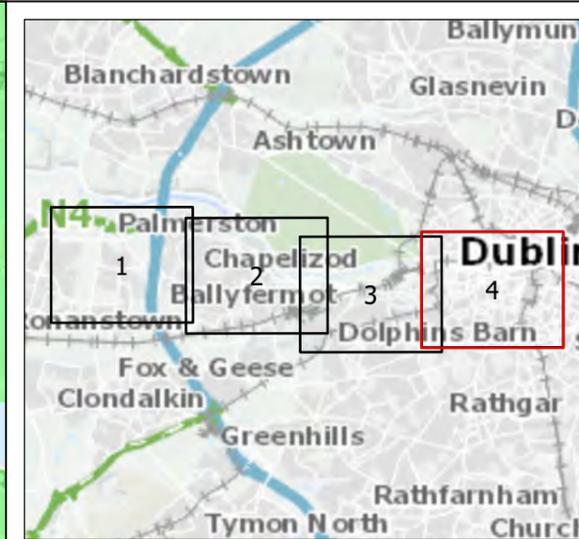
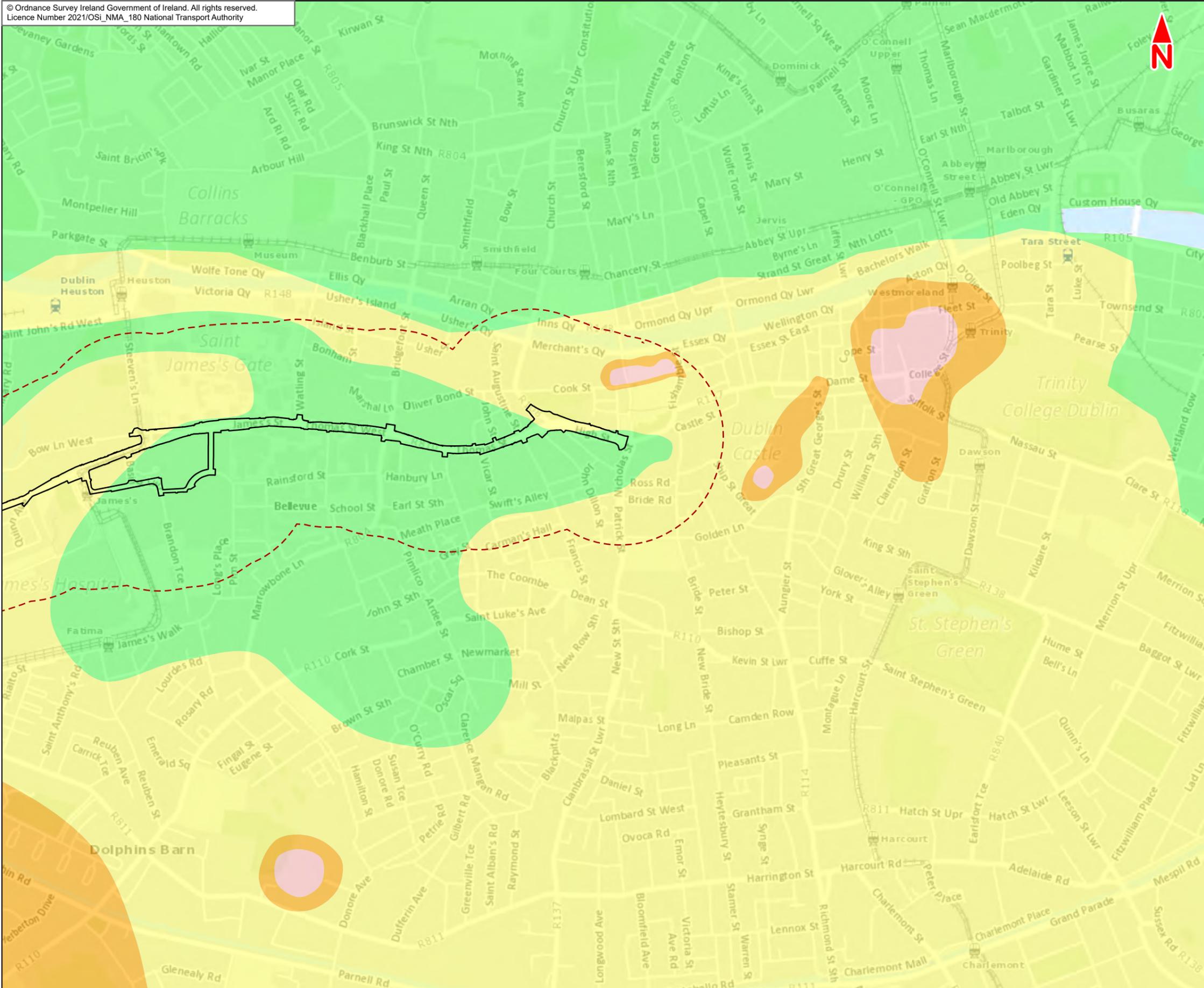
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NTA Udarás Náisiúnta Iompair National Transport Authority		JACOBS ARUP SYSTRA		
Date	Scale @ A3	Drawn	Checked	Approved
27/05/2022	1:10000	FG	PW	DK
Project Code	Originator Code	QMS Code		
BCIDE	JAC			

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Liffey Valley to City Centre Core Bus Corridor Scheme Figure 14.14 Groundwater Vulnerability				
Drawing File Name	Sheet Number	Status	Rev	
BCIDE-JAC-ENV_GT-0007_XX_00-DR-GG-0803	3 of 4	A	M01	



Legend :

- Liffey Valley to City Centre Scheme
- 250m Study Area
- GSI National Groundwater Vulnerability**
- Extreme (X) Rock at/close to surface or Karst
- Extreme
- High
- Moderate
- Low
- Water

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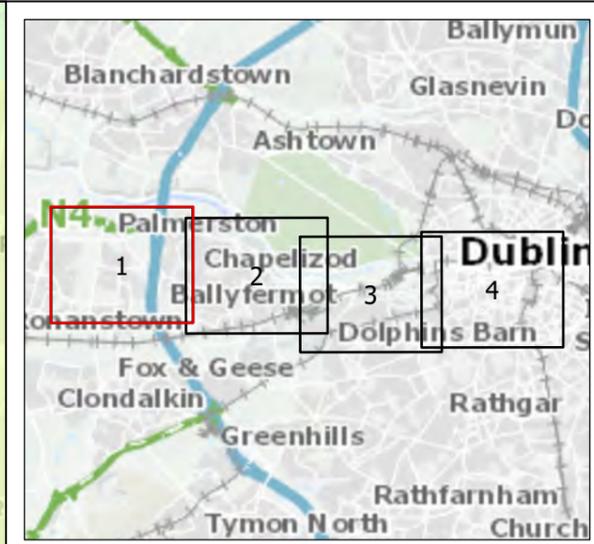
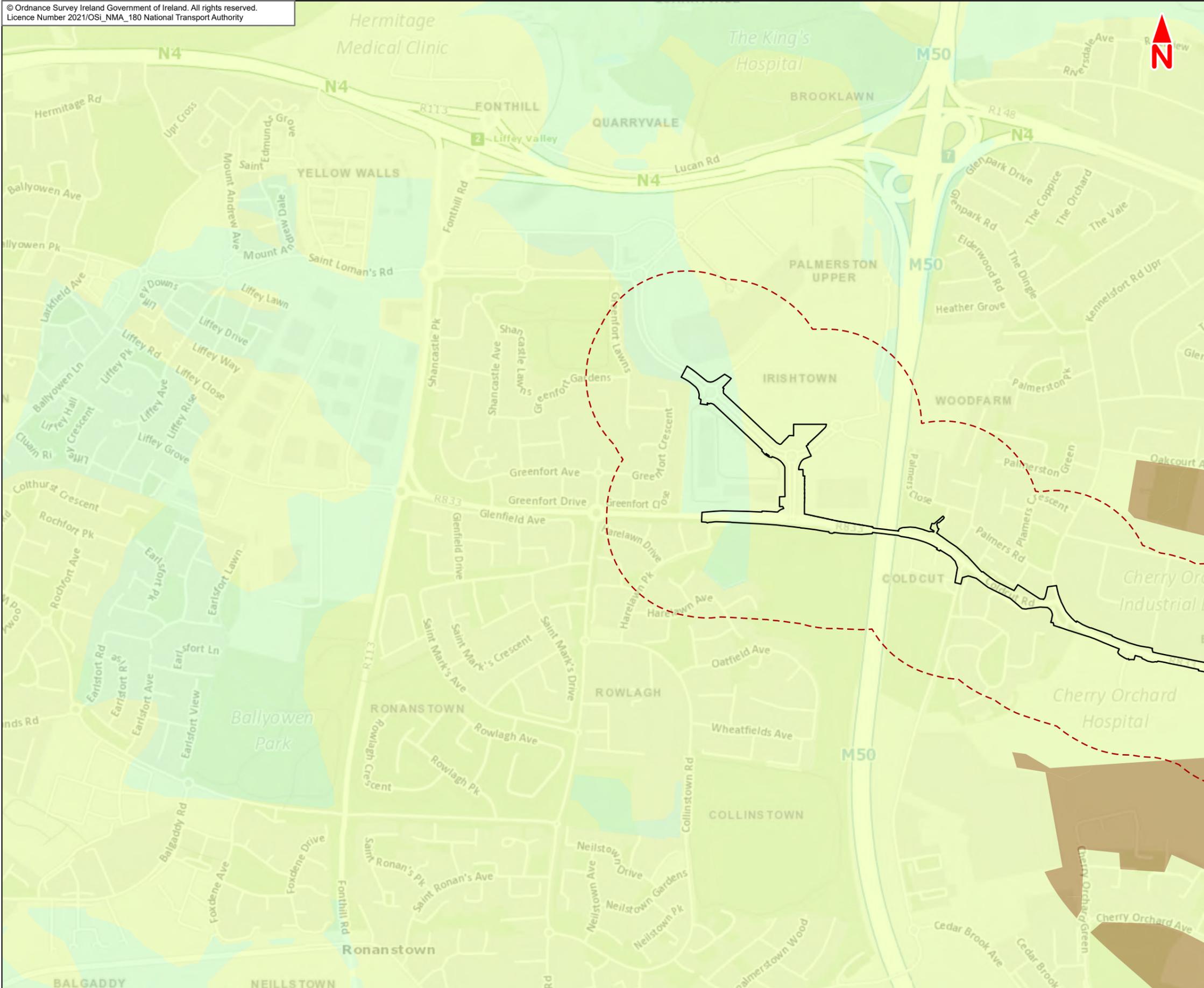
Rev	Date	Drn	Chk'd	App'd	Description
M01	May 22	FG	PW	DK	ISSUE FOR PHASE 4 : PLANNING

Client Udarás Náisiúnta Iompair National Transport Authority		Consultant 		
Date	Scale @ A3	Drawn	Checked	Approved
27/05/2022	1:10000	FG	PW	DK
Project Code	Originator Code	QMS Code		
BCIDE	JAC			

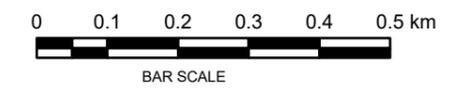
Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Liffey Valley to City Centre Core Bus Corridor Scheme Figure 14.14 Groundwater Vulnerability				
Drawing File Name	Sheet Number	Status	Rev	
BCIDE-JAC-ENV_GT-0007_XX_00-DR-GG-0804	4 of 4	A	M01	

14.15
Groundwater Recharge





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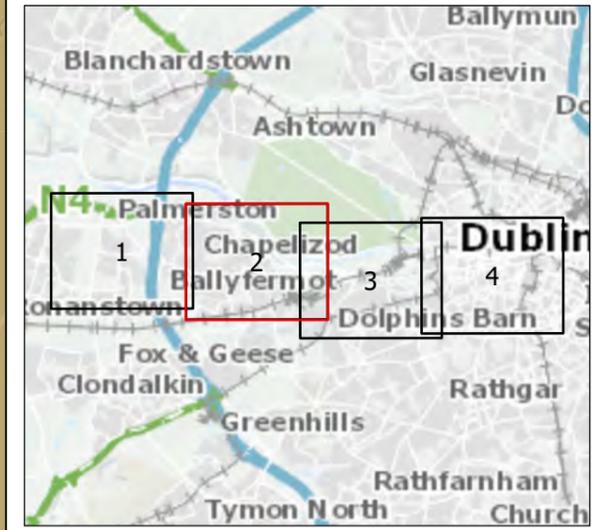
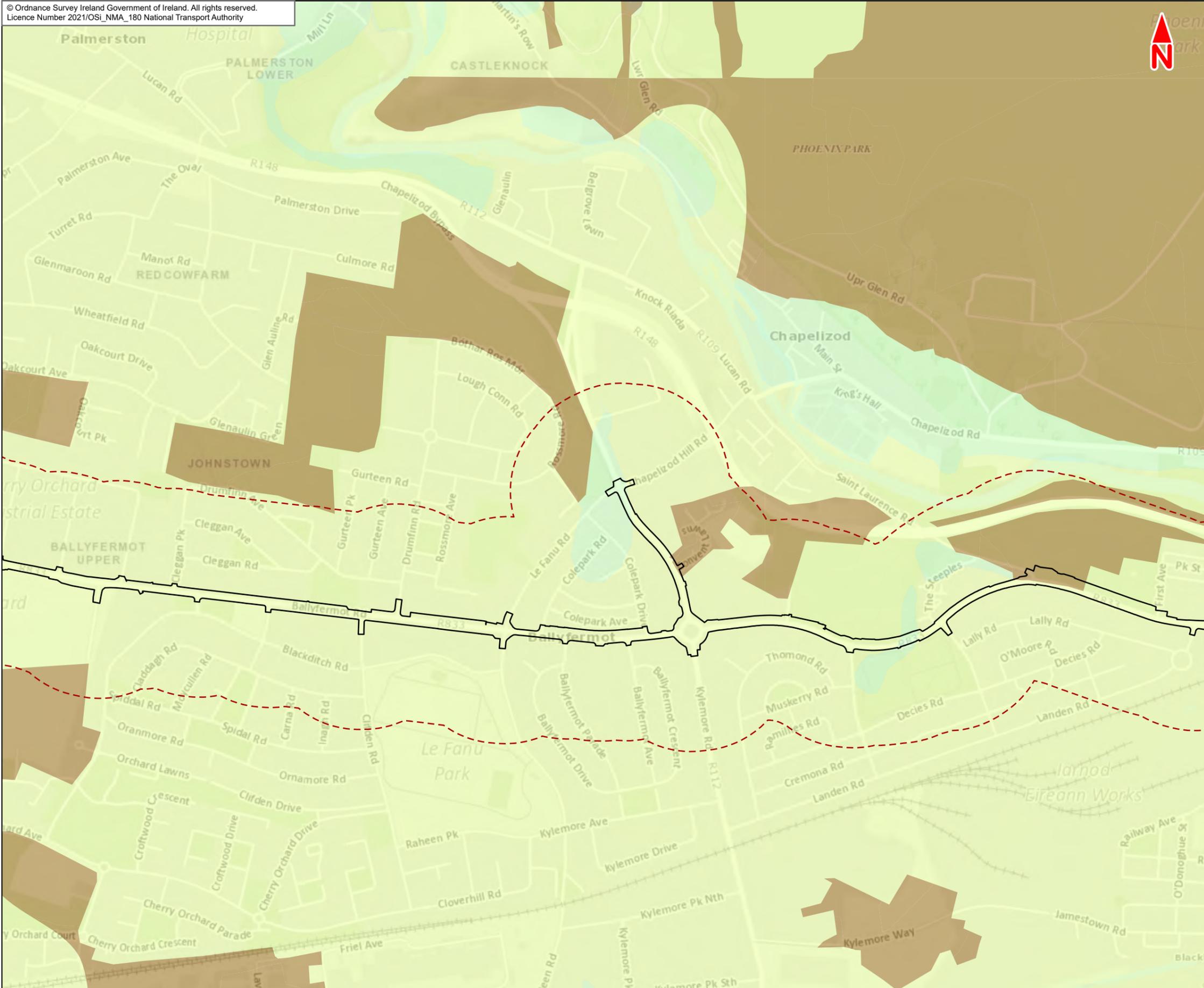
Rev	Date	Drn	Chk'd	App'd	Description
M01	May 22	FG	PW	DK	ISSUE FOR PHASE 4 : PLANNING

Client
NTA
Udarás Náisiúnta Iompair
National Transport Authority

Consultant
JACOBS
ARUP SYSTRA

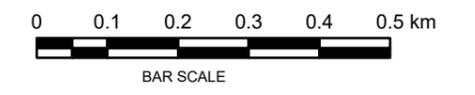
Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Liffey Valley to City Centre Core Bus Corridor Scheme Figure 14.15 Groundwater Recharge				
Drawing File Name BCIDE-JAC-ENV_GT-0007_XX_00-DR-GG-0901	Sheet Number 1 of 4	Status A	Rev M01	

Date 27/05/2022	Scale @ A3 1:10000	Drawn FG	Checked PW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		



- Legend :**
- Liffey Valley to City Centre Scheme
 - - - 250m Study Area
 - GSI Groundwater Recharge**
 - Annual Recharge (mm)**
 - 151-200 mm
 - 51-100 mm
 - 1-50 mm

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d. Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.
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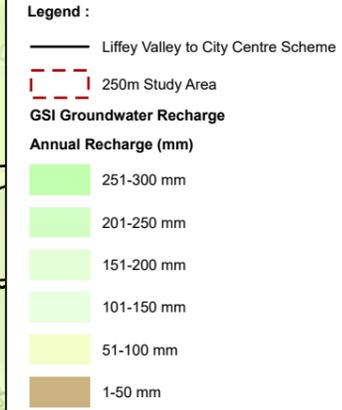
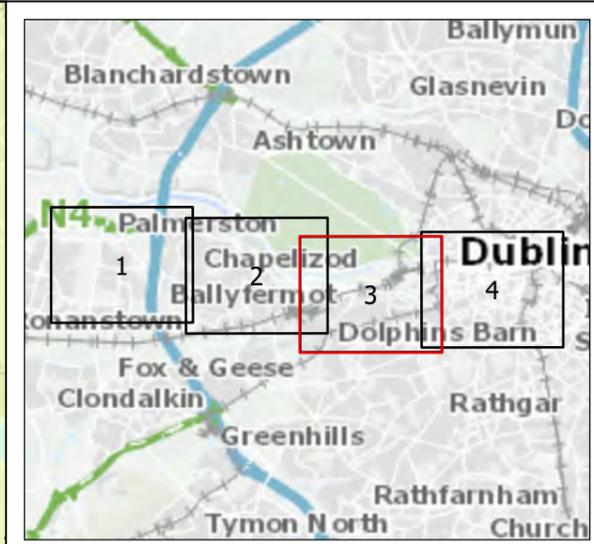
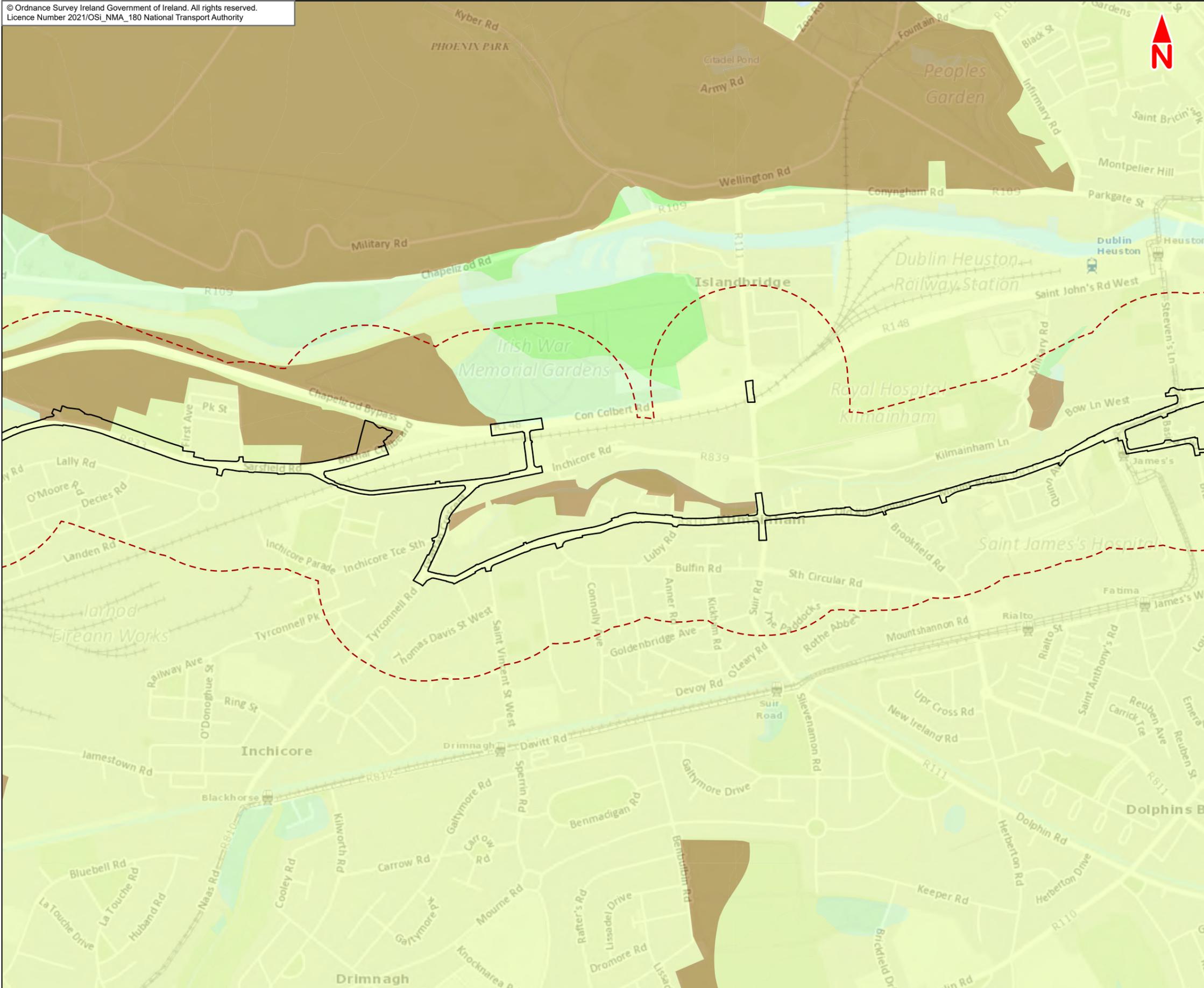
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Client NTA Udarás Náisiúnta Iompair National Transport Authority		Consultant JACOBS ARUP SYSTRA		
Date 27/05/2022	Scale @ A3 1:10000	Drawn FG	Checked PW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Liffey Valley to City Centre Core Bus Corridor Scheme Figure 14.15 Groundwater Recharge				
Drawing File Name BCIDE-JAC-ENV_GT-0007_XX_00-DR-GG-0902	Sheet Number 2 of 4	Status A	Rev M01	



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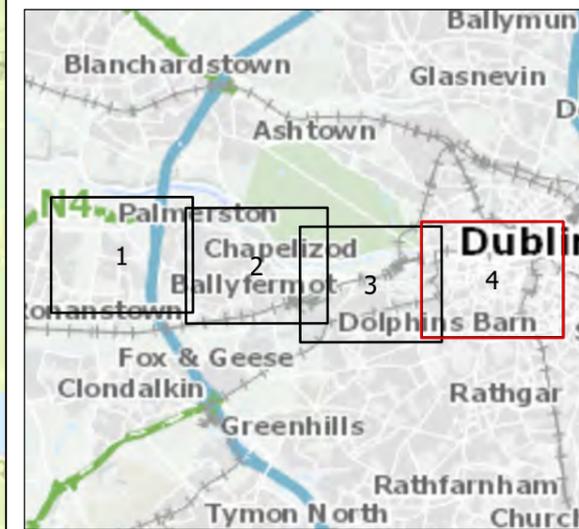
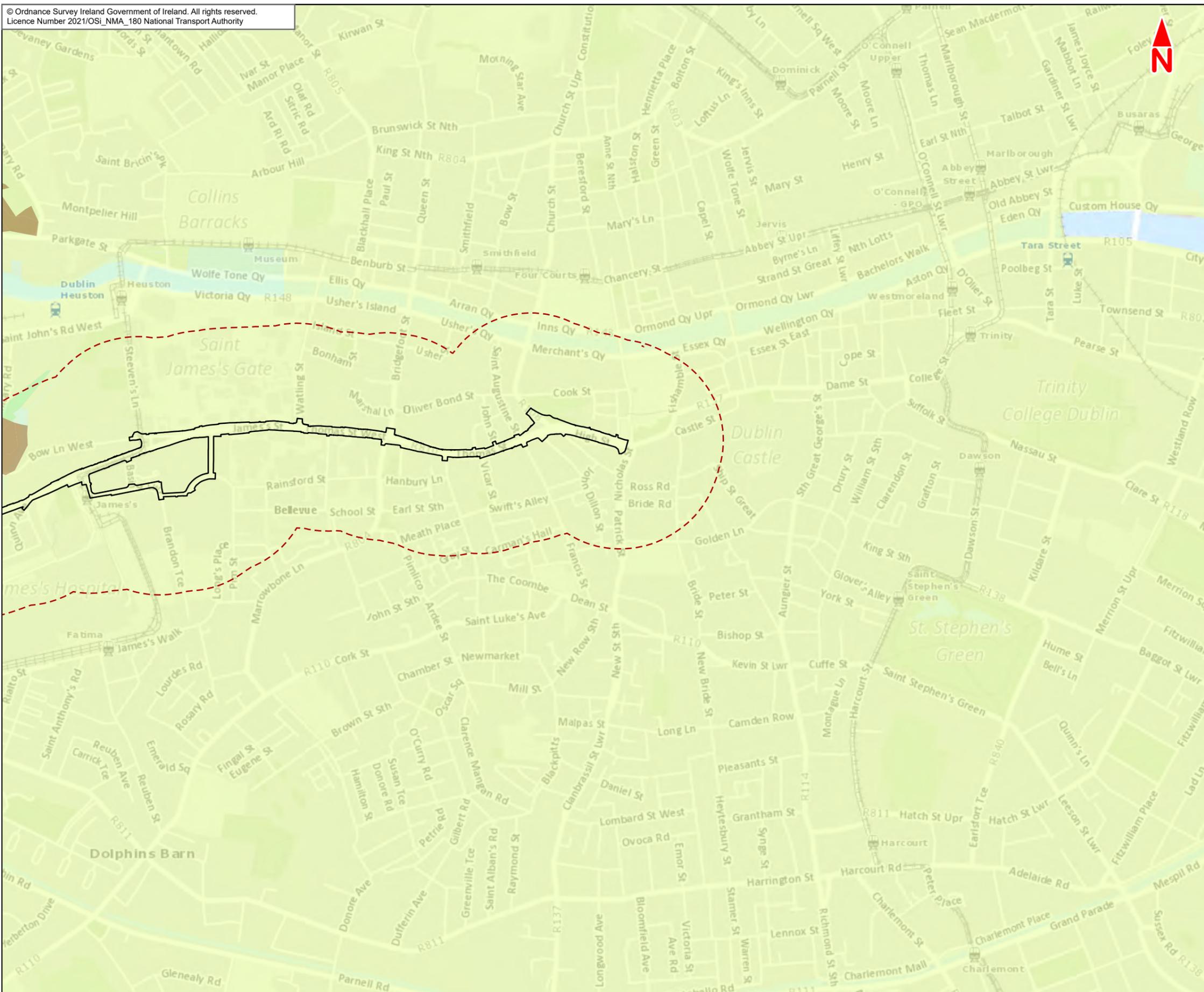
Consultant: **JACOBS ARUP SYSTRA**

Date: 27/05/2022 | Scale @ A3: 1:10000
Project Code: BCIDE | Originator Code: JAC

Drawn: FG | Checked: PW | Approved: DK

QMS Code: _____

Programme Title: BUSCONNECTS DUBLIN			
CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: Liffey Valley to City Centre Core Bus Corridor Scheme Figure 14.15 Groundwater Recharge			
Drawing File Name: BCIDE-JAC-ENV_GT-0007_XX_00-DR-GG-0903	Sheet Number: 3 of 4	Status: A	Rev: M01



Legend :

- Liffey Valley to City Centre Scheme
- 250m Study Area
- GSI Groundwater Recharge**
- Annual Recharge (mm)**
- 201-250 mm
- 101-150 mm
- 51-100 mm
- 1-50 mm

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27/05/2022	1:10000	FG	PW	DK
Project Code	Originator Code	QMS Code		
BCIDE	JAC			

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Liffey Valley to City Centre Core Bus Corridor Scheme Figure 14.15 Groundwater Recharge				
Drawing File Name	Sheet Number	Status	Rev	
BCIDE-JAC-ENV_GT-0007_XX_00-DR-GG-0904	4 of 4	A	M01	