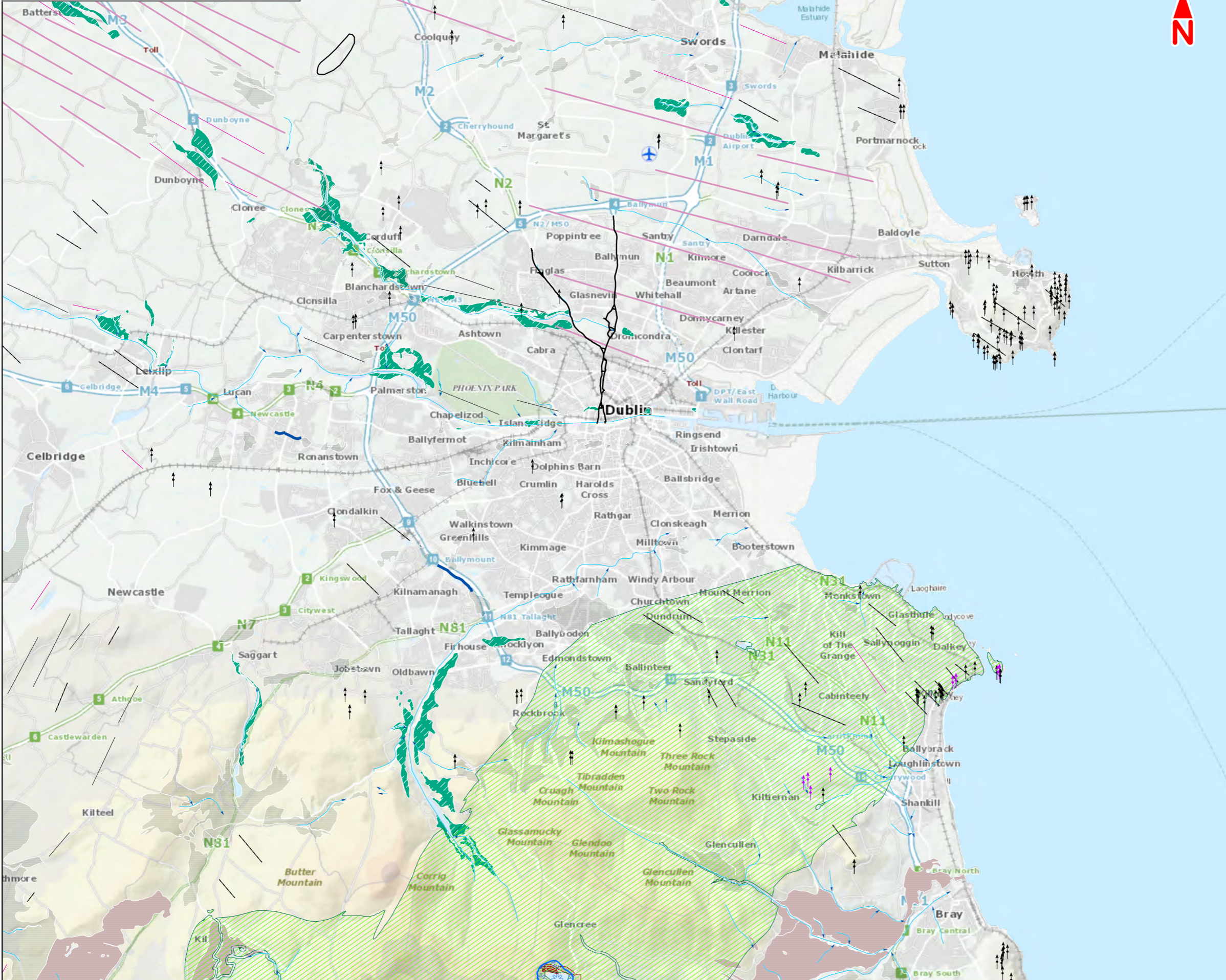




14.1
Regional Geomorphology



- Legend :**
- Ballymun / Finglas to City Centre Core 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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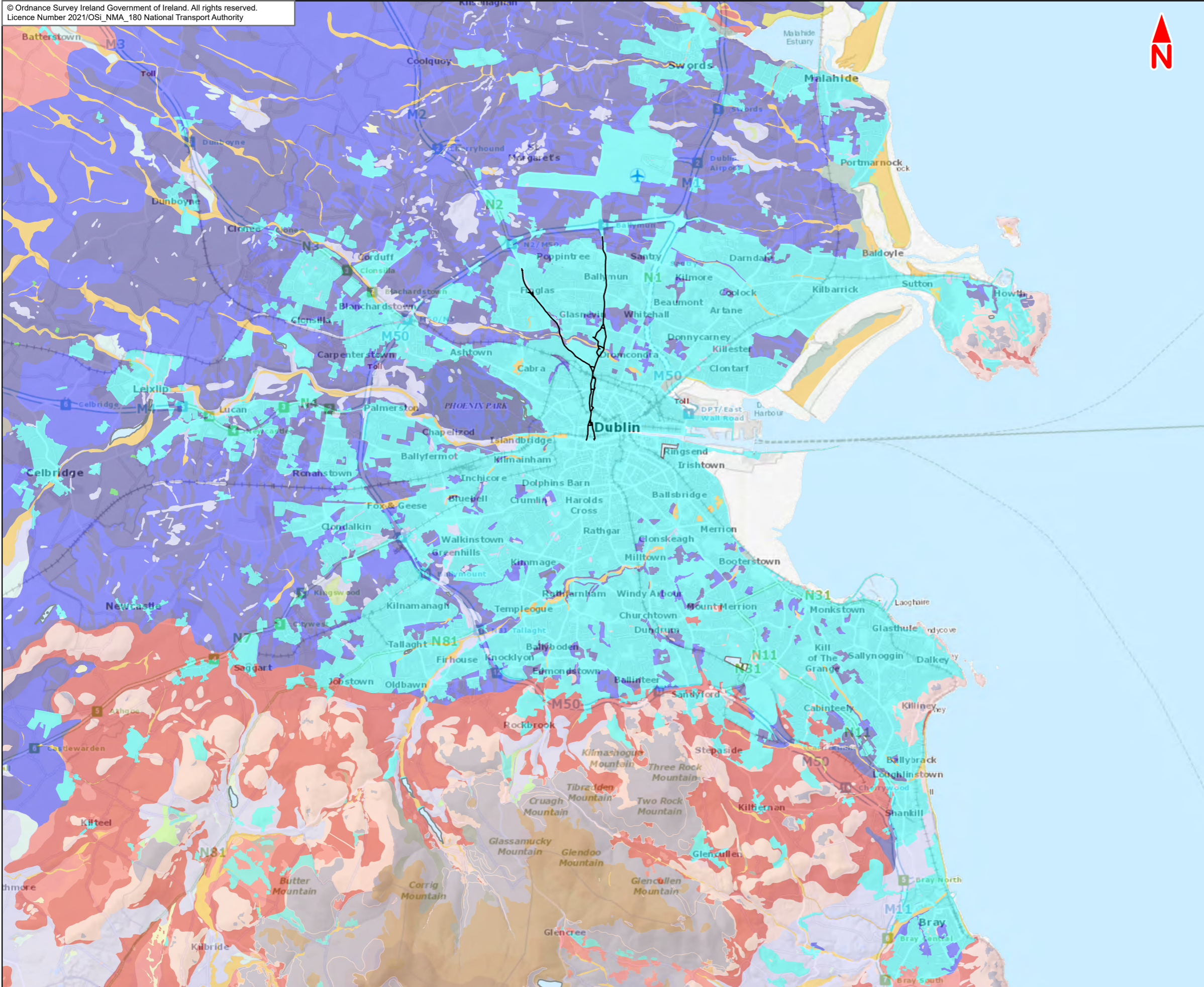
Consultant: **JACOBS ARUP SYSTRA**

Date: 12/07/2022 | Scale @ A3: 1:125 000
 Drawn: FG | Checked: PW | Approved: DK
 Project Code: BCIDE | Originator Code: JAC

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: Ballymun / Finglas to City Centre Core Bus Corridor Scheme Figure 14.1 Regional Geomorphology			
Drawing File Name: BCIDE-JAC-ENV_GT-0304_XX_00-DR-GG-0001	Sheet Number: 1 of 1	Status: A	Rev: M01

14.2 Regional Soils





Legend :

Ballymun / Finglas 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
BktPT - Blanket peat	MarSands
BminDW - Grey Brown Podzolics / Brown Earths Basic	MarSed
	Scree
	Water

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Consultant: **JACOBS ARUP SYSTRA**

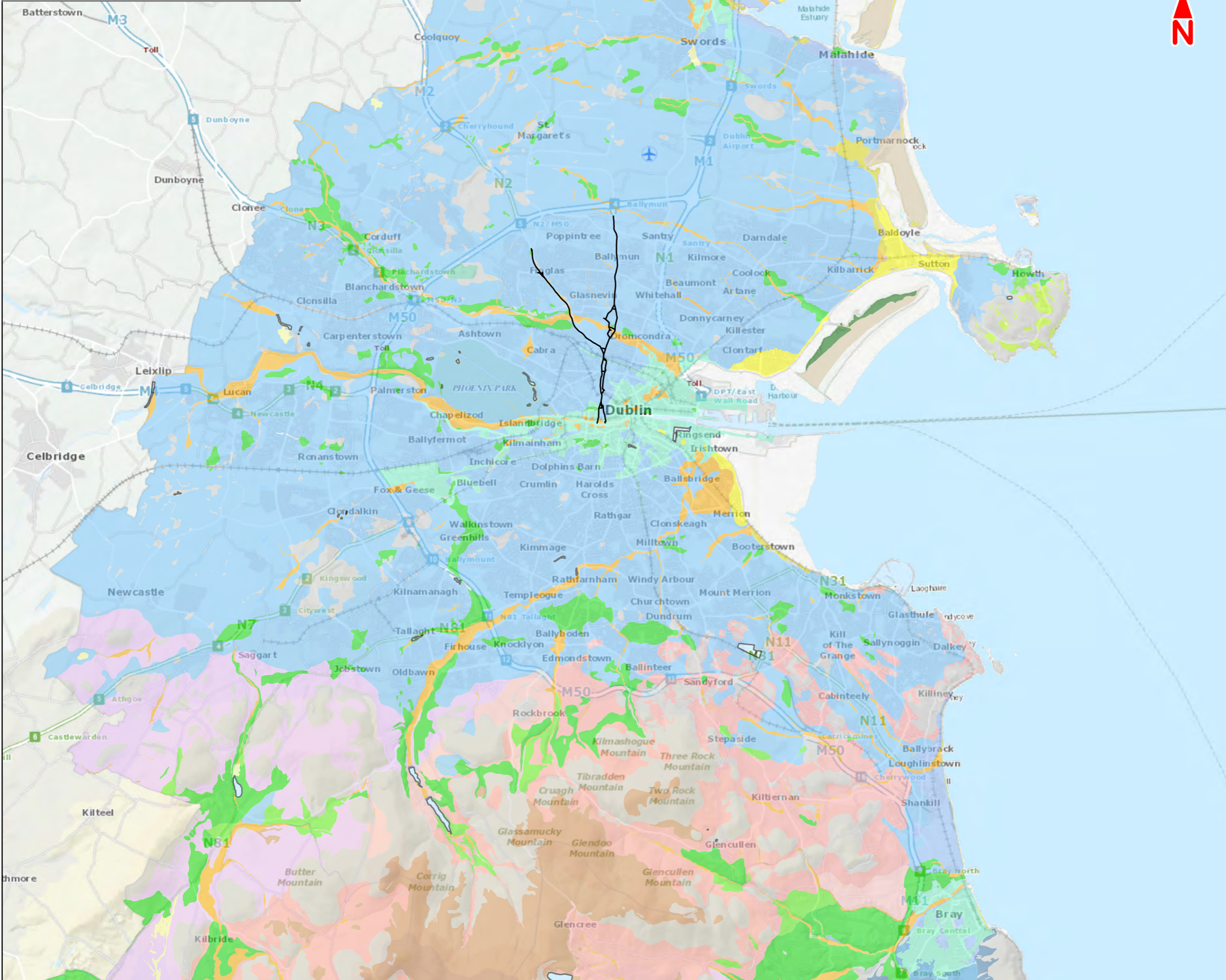
Date: 12/07/2022 | Scale @ A3: 1:125 000
Project Code: BCIDE | Originator Code: JAC

Drawn: FG | Checked: PW | Approved: DK

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: Ballymun / Finglas to City Centre Core Bus Corridor Scheme Figure 14.2 Regional Soils			
Drawing File Name: BCIDE-JAC-ENV_GT-0304_XX_00-DR-GG-0002	Sheet Number: 1 of 1	Status: A	Rev: M01

14.3 Regional Subsoils





- Legend :**
- Ballymun / Finglas 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
 - TLPSSs, 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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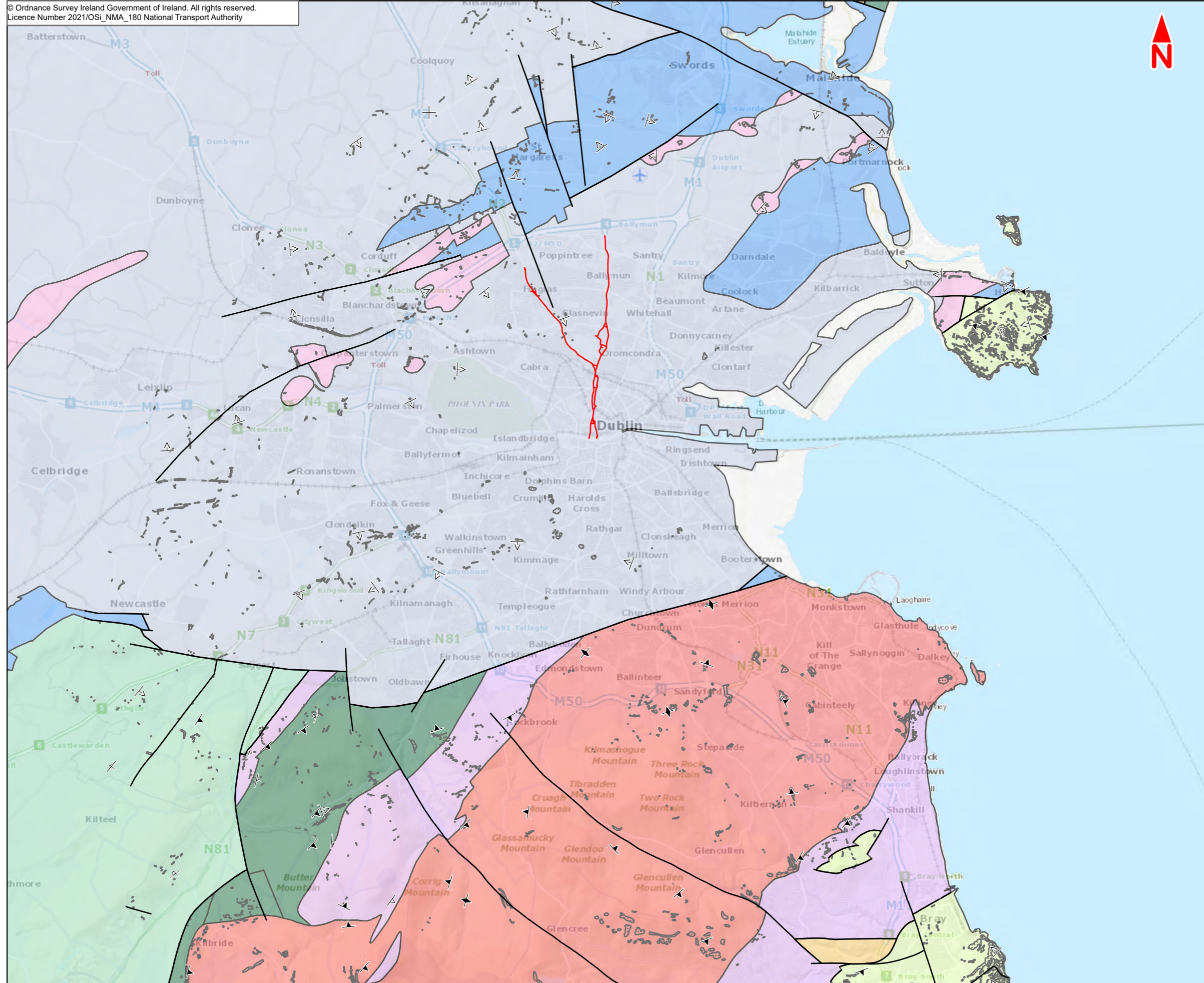
Client
NTA
Udarás Náisiúnta Iompair
National Transport Authority

Consultant
JACOBS
ARUP SYSTRA

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Ballymun / Finglas to City Centre Core Bus Corridor Scheme Figure 14.3 Regional Subsoils				
Date 12/07/2022	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-0304_XX_00-DR-GG-0003
Sheet Number 1 of 1		Status A	Rev M01	

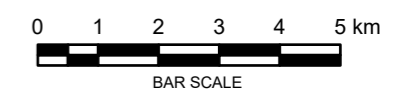
14.4
Regional Bedrock





- Legend :**
- Ballymun / Finglas 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
 - Courcean 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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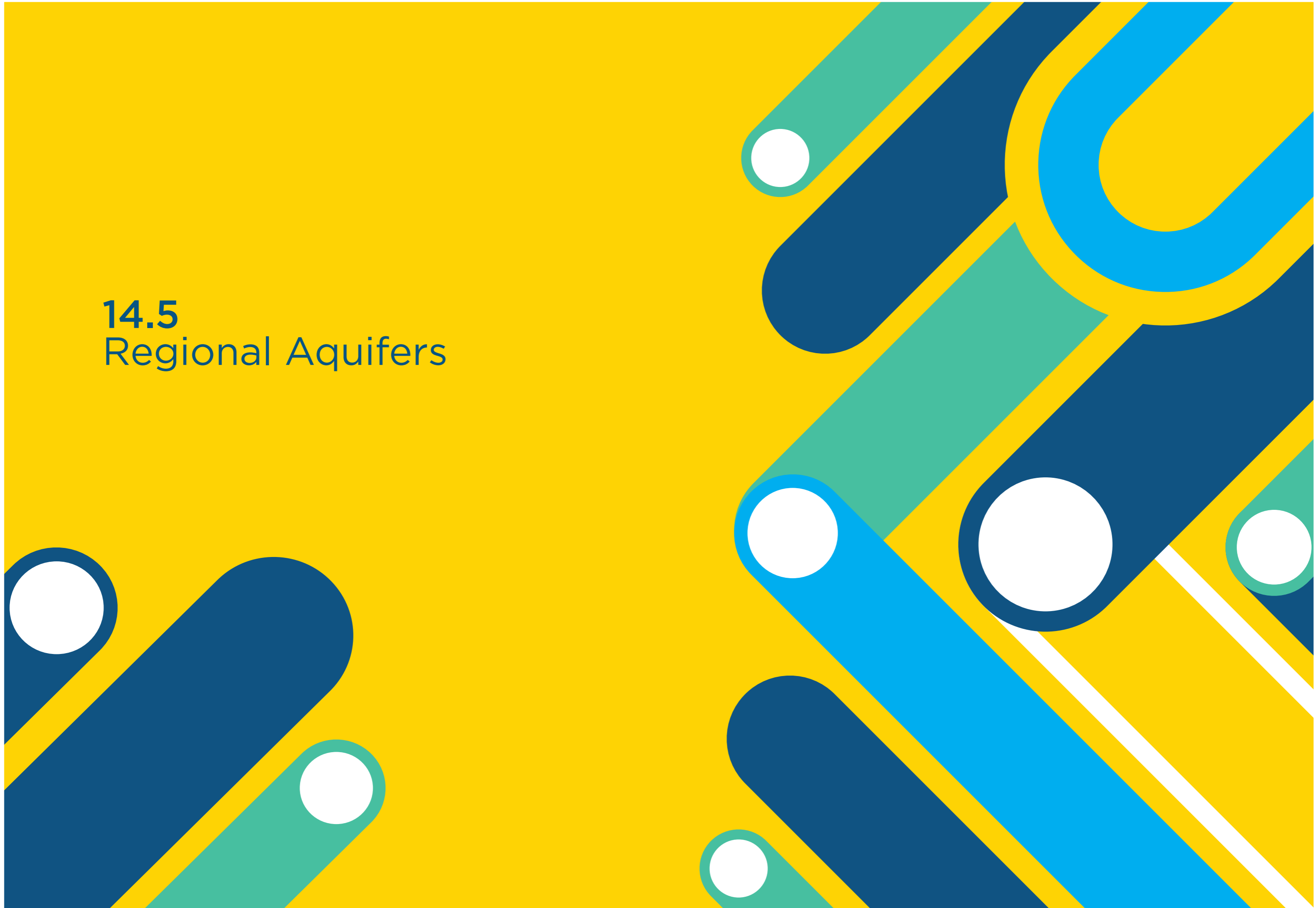
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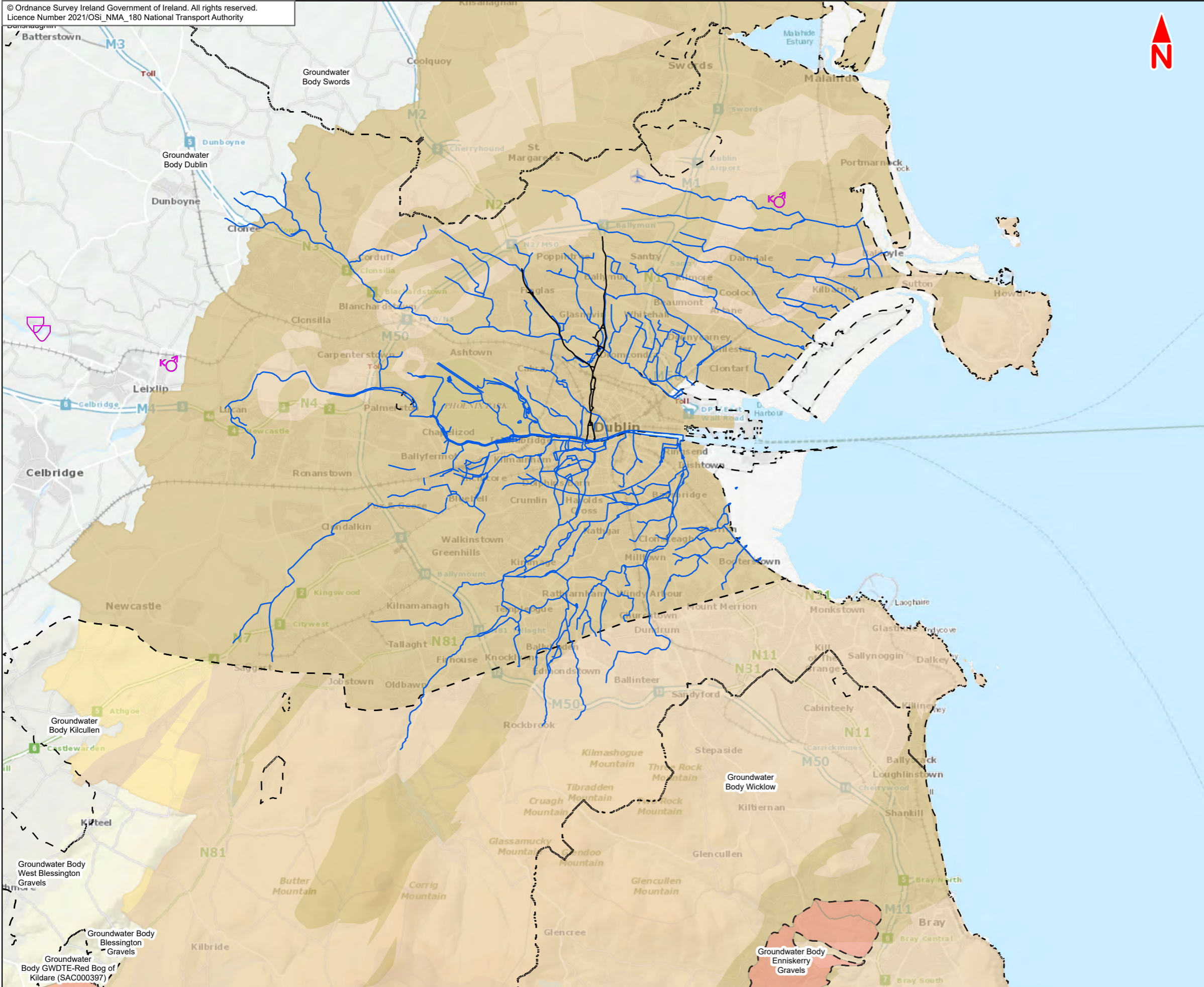
Consultant
JACOBS ARUP SYSTRA

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Ballymun / Finglas to City Centre Core Bus Corridor Scheme Figure 14.4 Regional Bedrock				
Drawing File Name BCIDE-JAC-ENV_GT-0304_XX_00-DR-GG-0004	Sheet Number 1 of 1	Status A	Rev M01	

Date 12/07/2022	Scale @ A3 1:125 000	Drawn FG	Checked PW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		

14.5 Regional Aquifers





- Legend :**
- Ballymun / Finglas 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**

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Project Code: BCIDE | Originator Code: JAC

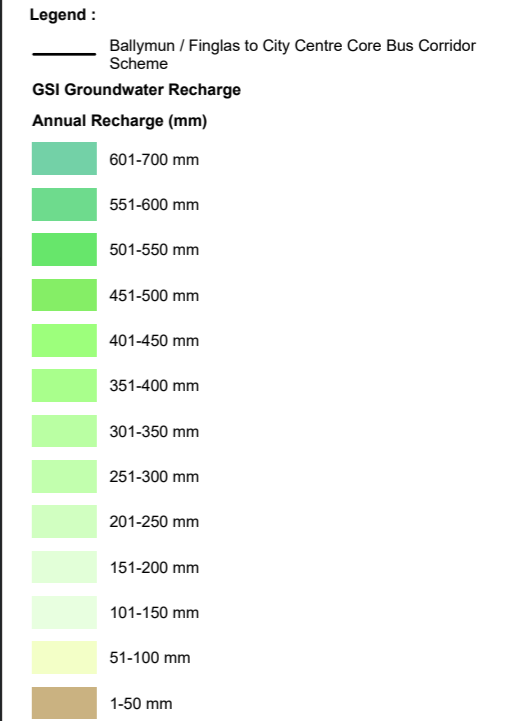
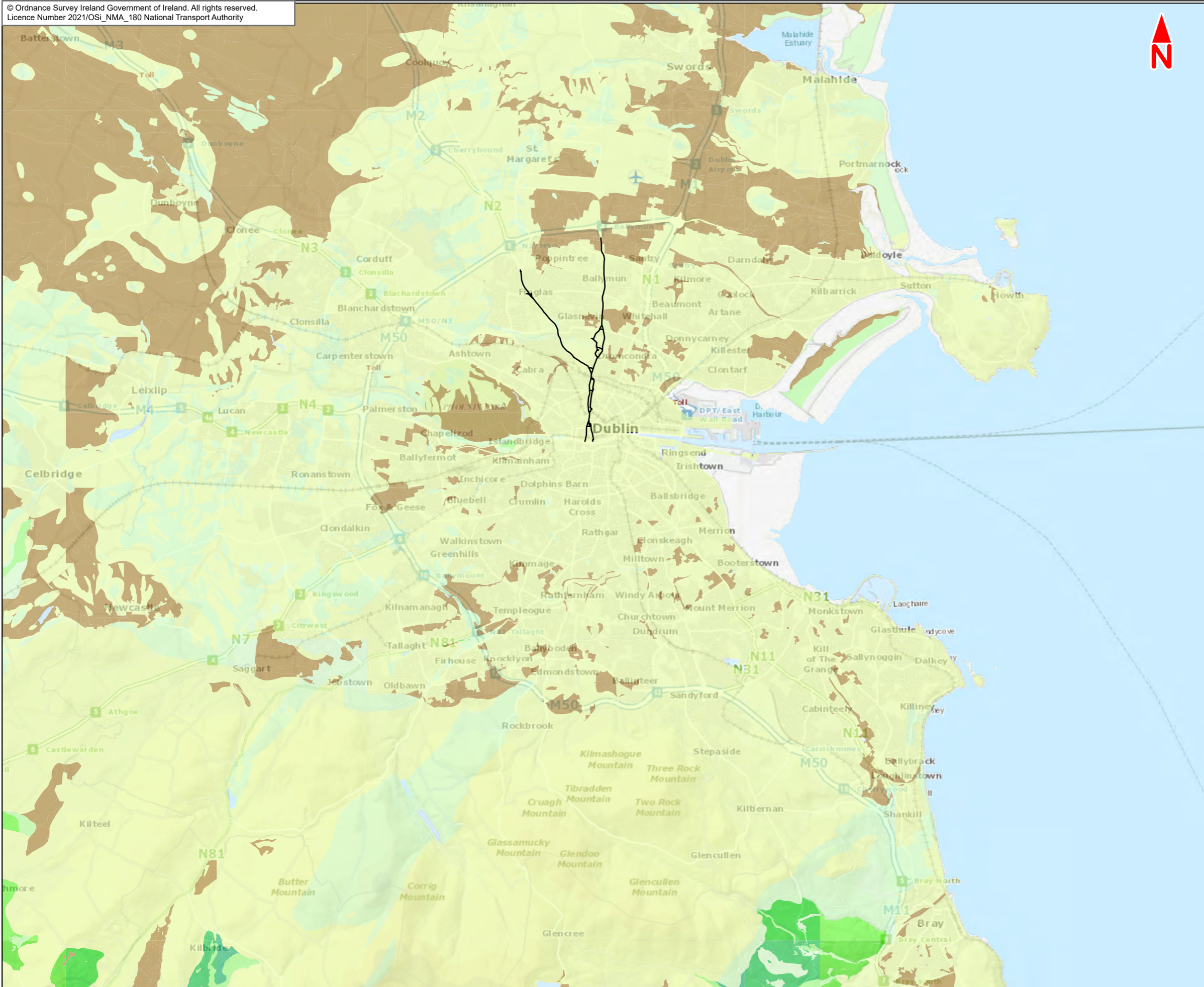
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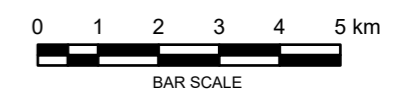
Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title Ballymun / Finglas to City Centre Core Bus Corridor Scheme Figure 14.5 Regional Aquifers			
Drawing File Name BCIDE-JAC-ENV_GT-0304_XX_00-DR-GG-0005	Sheet Number 1 of 1	Status A	Rev M01

14.6
Regional Groundwater
Recharge





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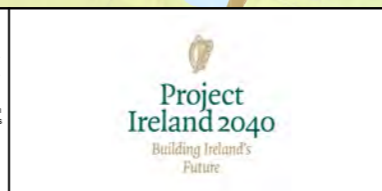
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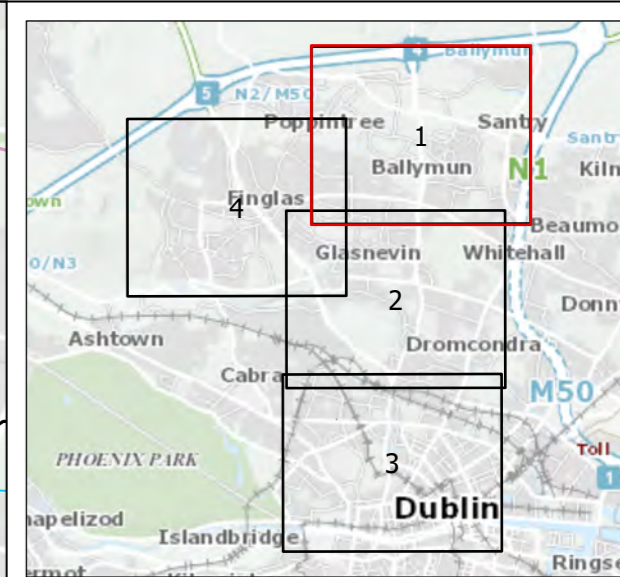
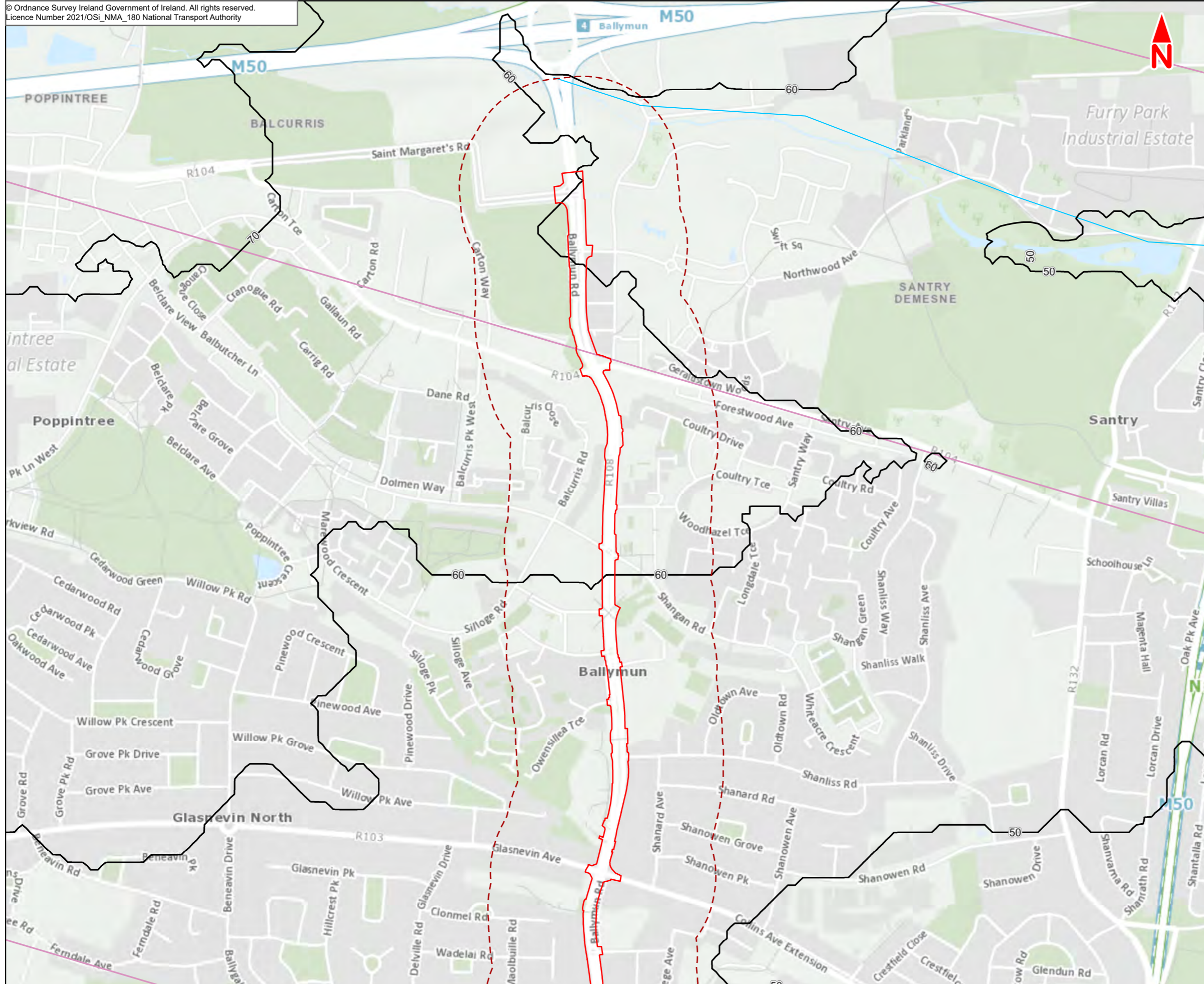
Client

Consultant

Programme Title					BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title					Ballymun / Finglas to City Centre Core Bus Corridor Scheme Figure 14.6 Regional Groundwater Recharge				
Date	12/07/2022	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-0304_XX_00-DR-GG-0006	Sheet Number	1 of 1	Status	A	Rev	M01		

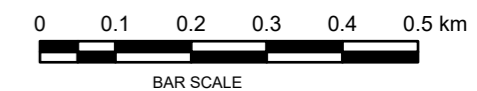
14.7
Topography and
Geomorphology





- Legend :**
- Ballymun / Finglas to City Centre Core Bus Corridor Scheme
 - - - 250m Study Area
 - EPA Contours
 - Subglacial Lination Landforms**
 - LANDFORM
 - Mega scale glacial lination
 - Meltwater Landforms**
 - LANDFORM
 - Meltwater channel

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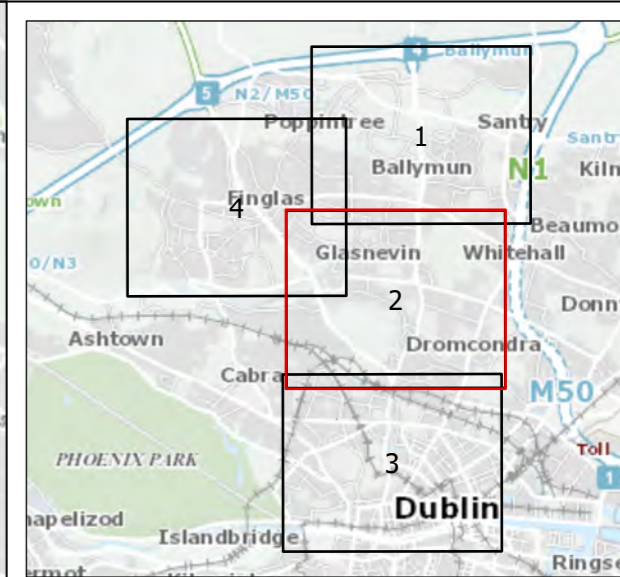
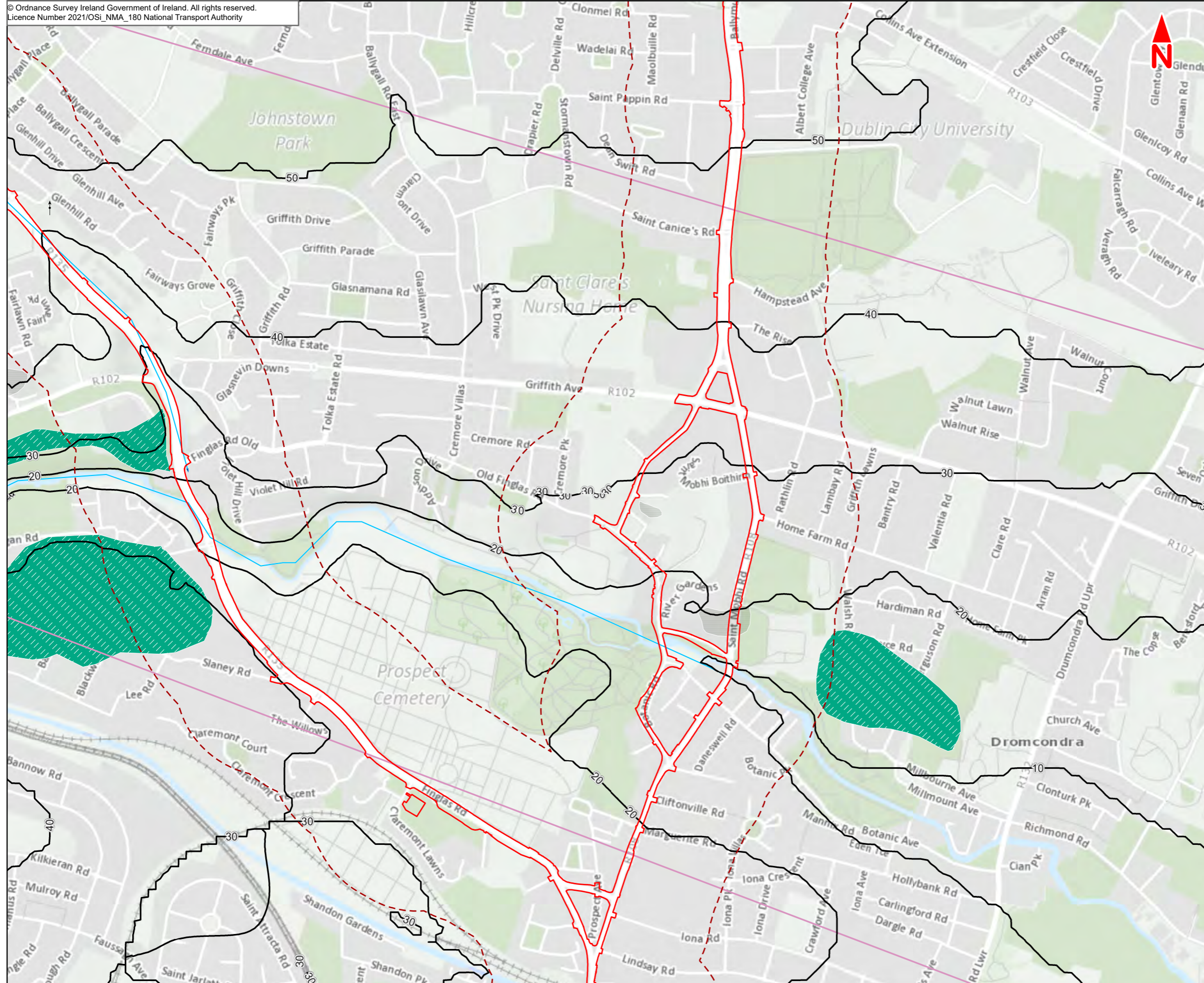
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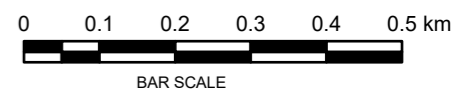
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 Drawn: FG | Checked: PW | Approved: DK
 Project Code: BCIDE | Originator Code: JAC | QMS Code:

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: Ballymun / Finglas to City Centre Core Bus Corridor Scheme Figure 14.7 Topography and Geomorphology			
Drawing File Name: BCIDE-JAC-ENV_GT-0304_XX_00-DR-GG-0101	Sheet Number: 1 of 4	Status: A	Rev: M01



- Legend :**
- Ballymun / Finglas to City Centre Core Bus Corridor Scheme
 - - - 250m Study Area
 - EPA Contours
 - Subglacial Lineation Striae**
 - Landform
 - ↑ Striae
 - Subglacial Lineation Landforms**
 - LANDFORM
 - Mega scale glacial lineation
 - 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	Aug 22	FG	PW	DK	ISSUE FOR PHASE 4 : PLANNING
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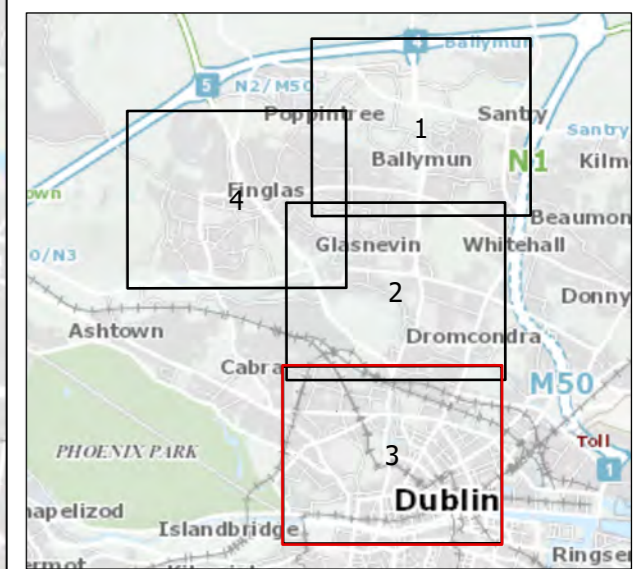
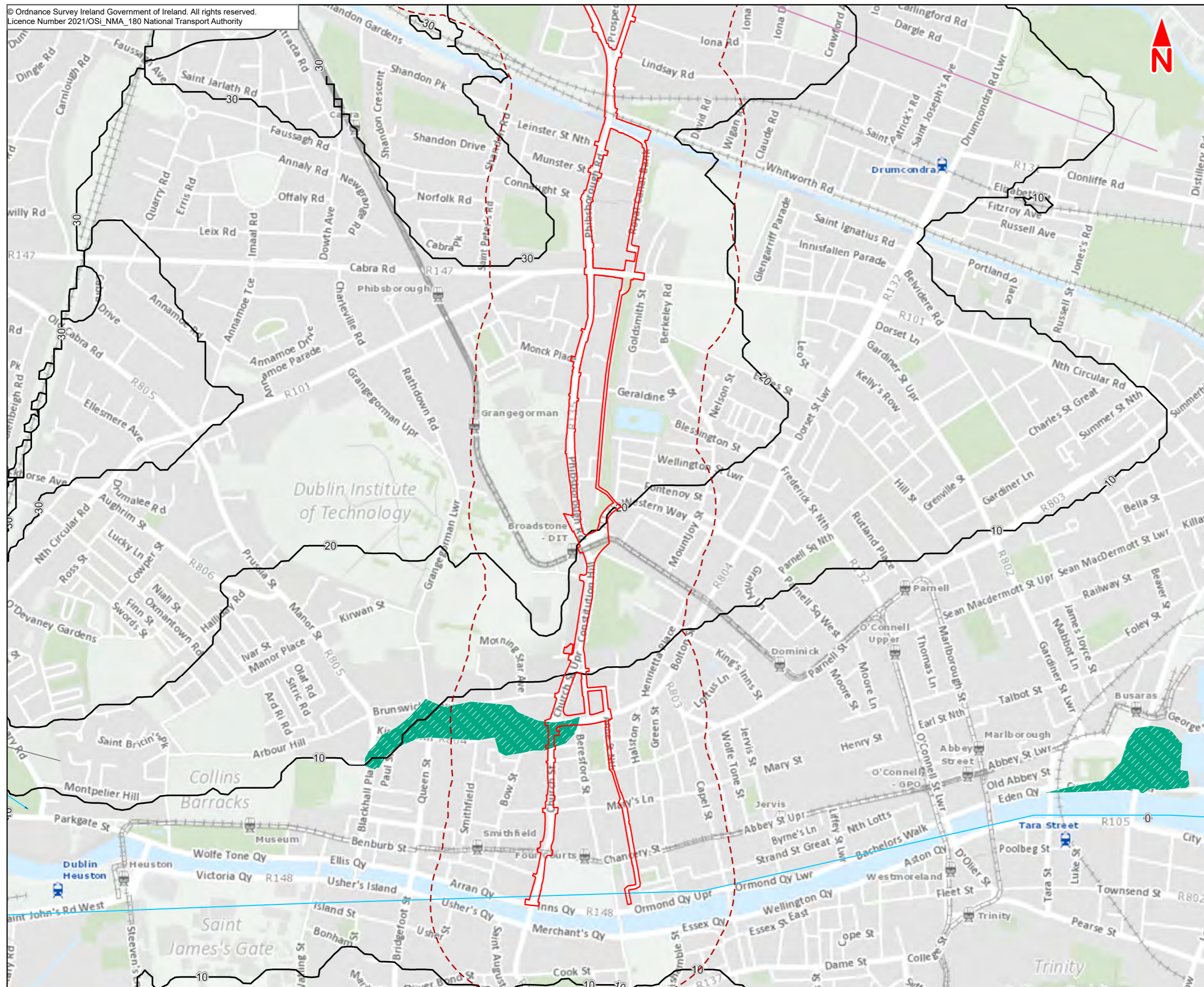
Client
NTA
Udarás Náisiúnta Iompair
National Transport Authority

Consultant
JACOBS
ARUP SYSTRA

Date 24/08/2022 **Scale** @ A3 1:10,000
Project Code BCIDE **Originator Code** JAC

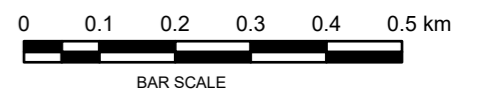
Drawn FG **Checked** PW **Approved** DK
QMS Code

Programme Title BUSCONNECTS DUBLIN
CORE BUS CORRIDORS INFRASTRUCTURE WORKS
Drawing Title Ballymun / Finglas to City Centre Core Bus Corridor Scheme
Figure 14.7
Topography and Geomorphology
Drawing File Name BCIDE-JAC-ENV_GT-0304_XX_00-DR-GG-0102 **Sheet Number** 2 of 4 **Status** A **Rev** M01



- Legend :**
- Ballymun / Finglas to City Centre Core Bus Corridor Scheme
 - - - 250m Study Area
 - EPA Contours
 - Subglacial Liation Landforms**
 - LANDFORM**
 - Crag-and-Tail
 - Mega scale glacial liation
 - Meltwater Landforms**
 - LANDFORM**
 - Meltwater channel
 - Deglacial Landforms**
 - Landform**
 - Glaciofluvial Terrace

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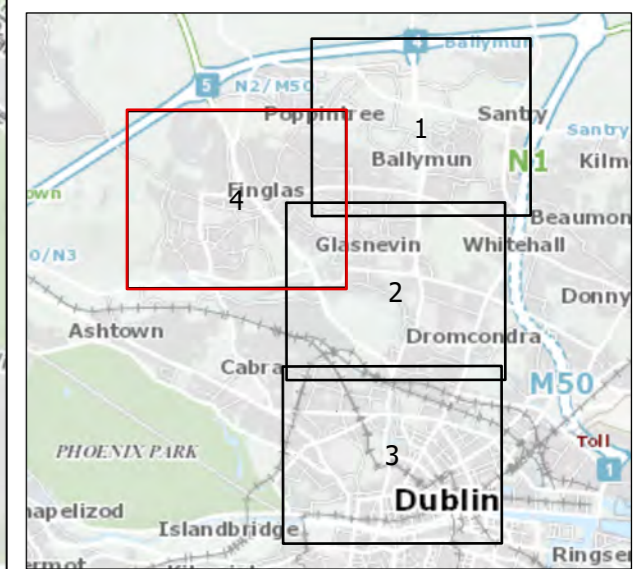
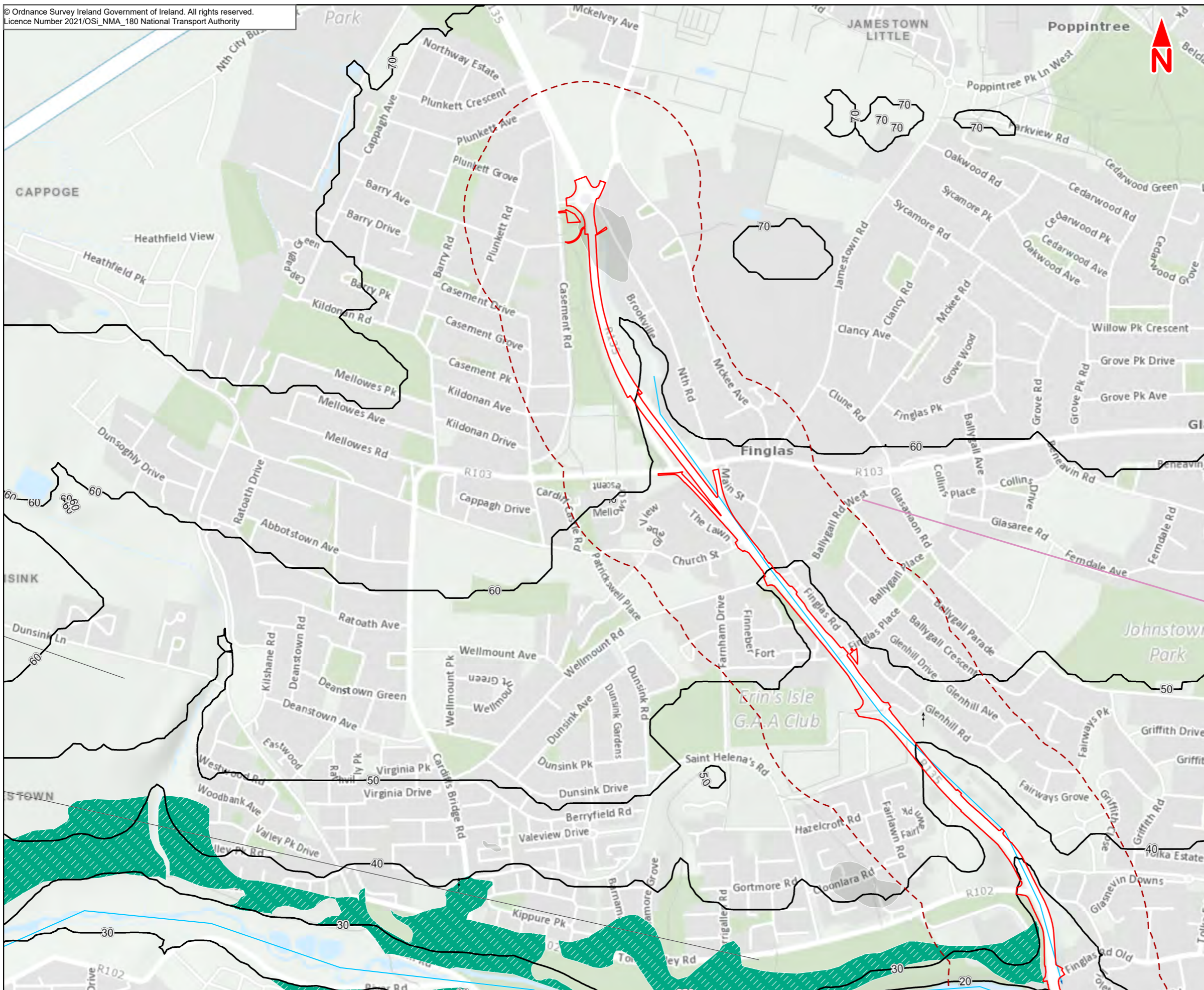
Client: **NTA**
Udarás Náisiúnta Iompair
National Transport Authority

Consultant: **JACOBS ARUP SYSTRA**

Date: 24/08/2022 | Scale @ A3: 1:10,000 | 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: Ballymun / Finglas to City Centre Core Bus Corridor Scheme Figure 14.7 Topography and Geomorphology			
Drawing File Name: BCIDE-JAC-ENV_GT-0304_XX_00-DR-GG-0103	Sheet Number: 3 of 4	Status: A	Rev: M01



- Legend :**
- Ballymun / Finglas to City Centre Core Bus Corridor Scheme
 - - - 250m Study Area
 - EPA Contours
 - Subglacial Lineation Striae**
 - Landform
 - ↑ Striae
 - Subglacial Lineation Landforms**
 - LANDFORM
 - Crag-and-Tail
 - Mega scale glacial lineation
 - Meltwater Landforms**
 - LANDFORM
 - Meltwater channel
 - Deglacial Landforms**
 - Landform
 - Glaciofluvial Terrace
 - Hummocky Sand and Gravel

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

Consultant: **JACOBS ARUP SYSTRA**

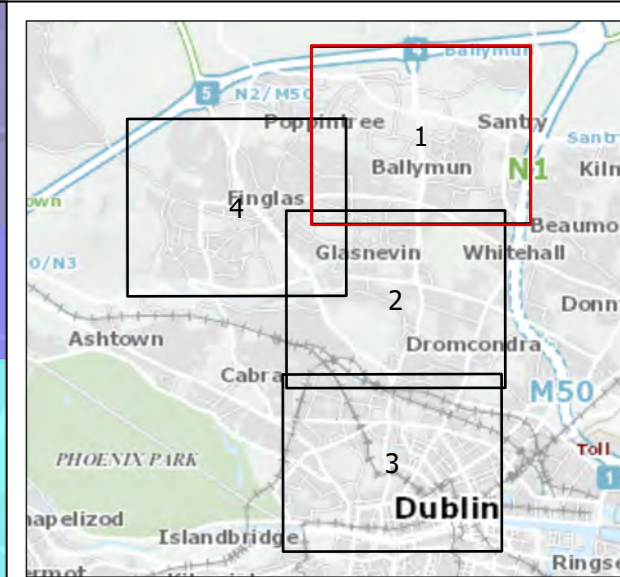
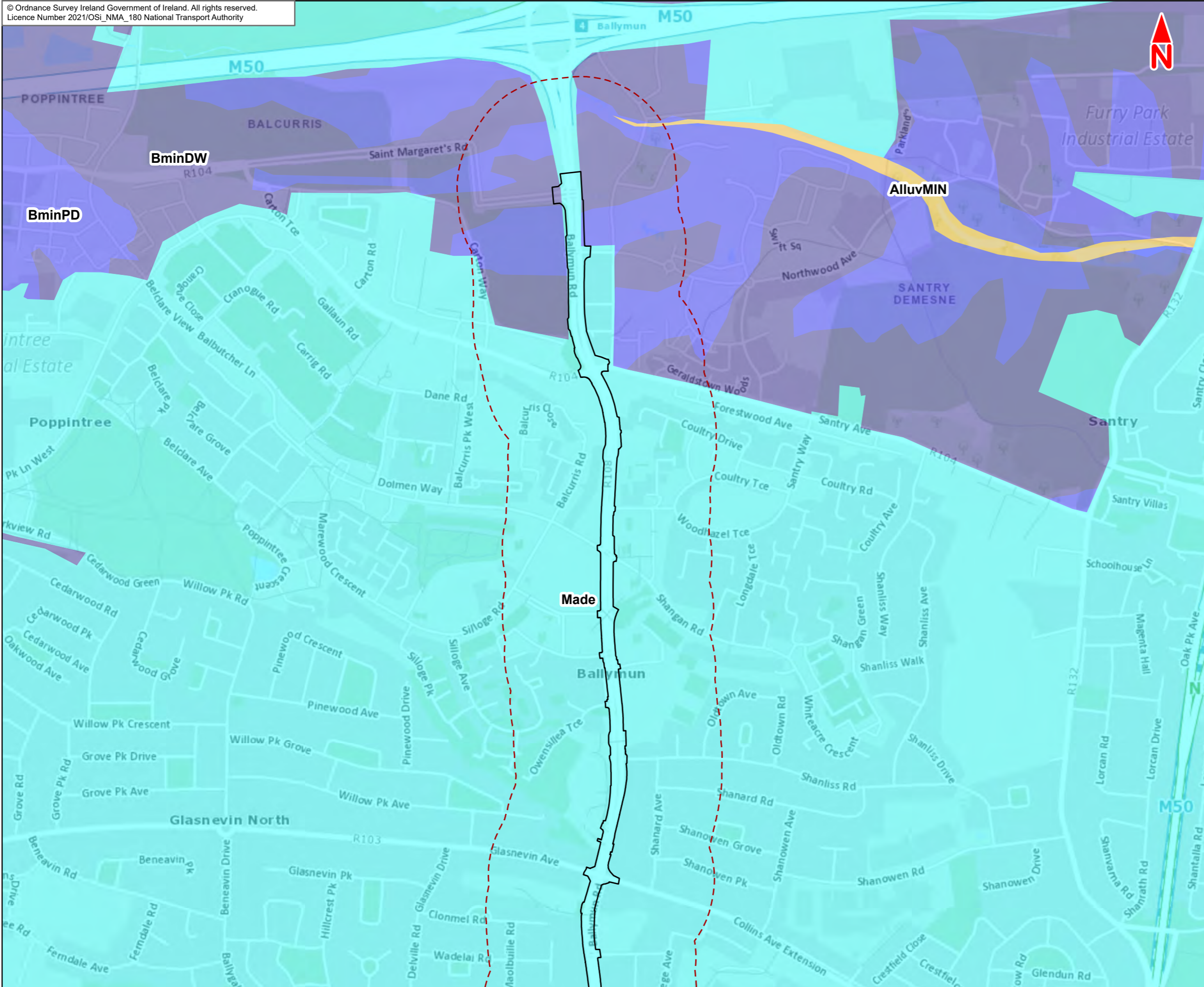
Date: 24/08/2022 | Scale @ A3: 1:10,000
Project Code: BCIDE | Originator Code: JAC

Drawn: FG | Checked: PW | Approved: DK

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: Ballymun / Finglas to City Centre Core Bus Corridor Scheme Figure 14.7 Topography and Geomorphology			
Drawing File Name: BCIDE-JAC-ENV_GT-0304_XX_00-DR-GG-0104	Sheet Number: 4 of 4	Status: A	Rev: M01

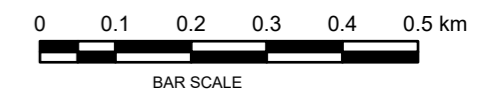
14.8 Soil Deposits





- Legend :**
- Ballymun / Finglas to City Centre Core Bus Corridor 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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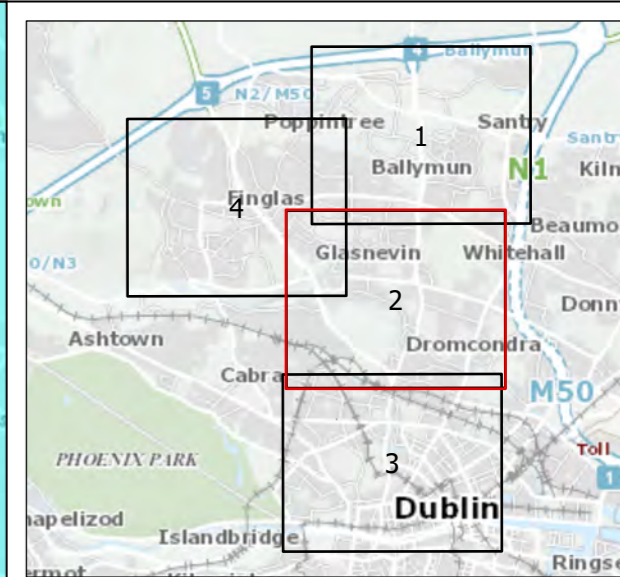
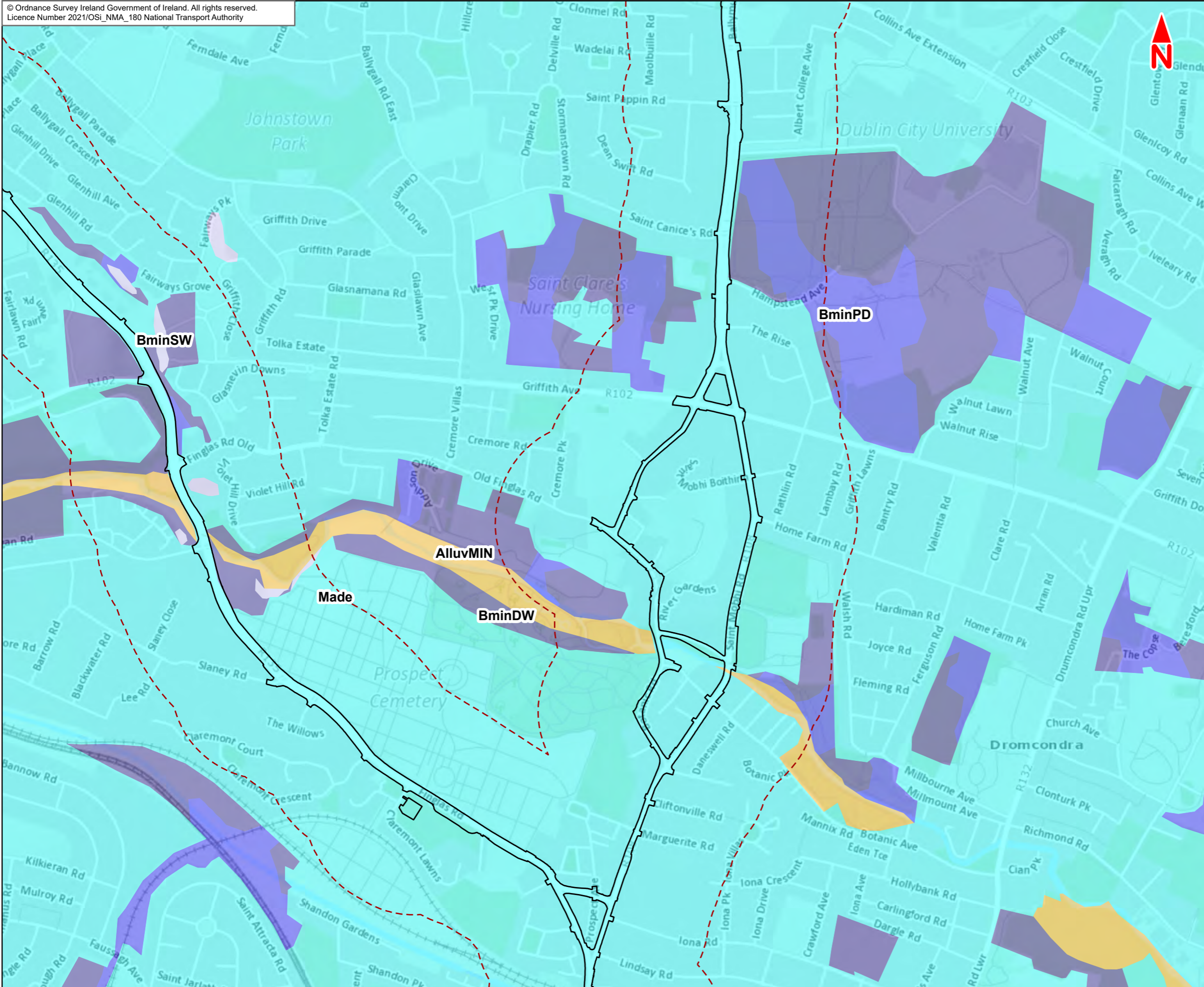
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M01	Aug 22	FG	PW	DK	ISSUE FOR PHASE 4 : PLANNING

Date	Scale @ A3	Drawn	Checked	Approved
24/08/2022	1:10,000	FG	PW	DK
Project Code	Originator Code	QMS Code		
BCIDE	JAC			

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Ballymun / Finglas to City Centre Core Bus Corridor Scheme Figure 14.8 Soil Deposits				
Drawing File Name	Sheet Number	Status	Rev	
BCIDE-JAC-ENV_GT-0304_XX_00-DR-GG-0201	1 of 4	A	M01	



- Legend :**
- Ballymun / Finglas to City Centre Core Bus Corridor 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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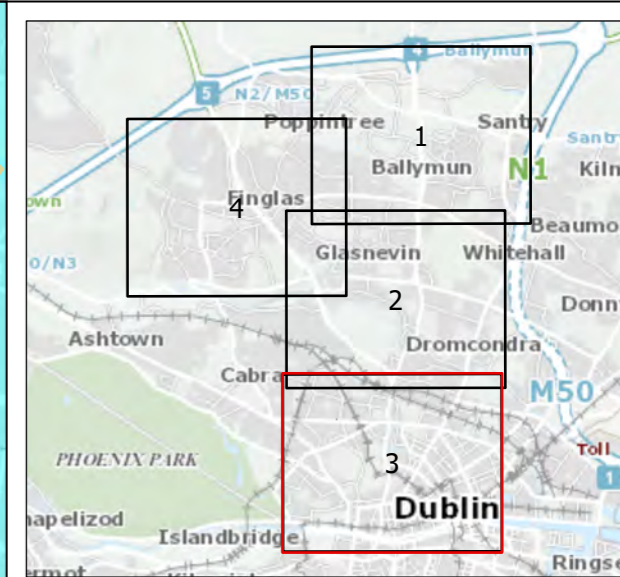
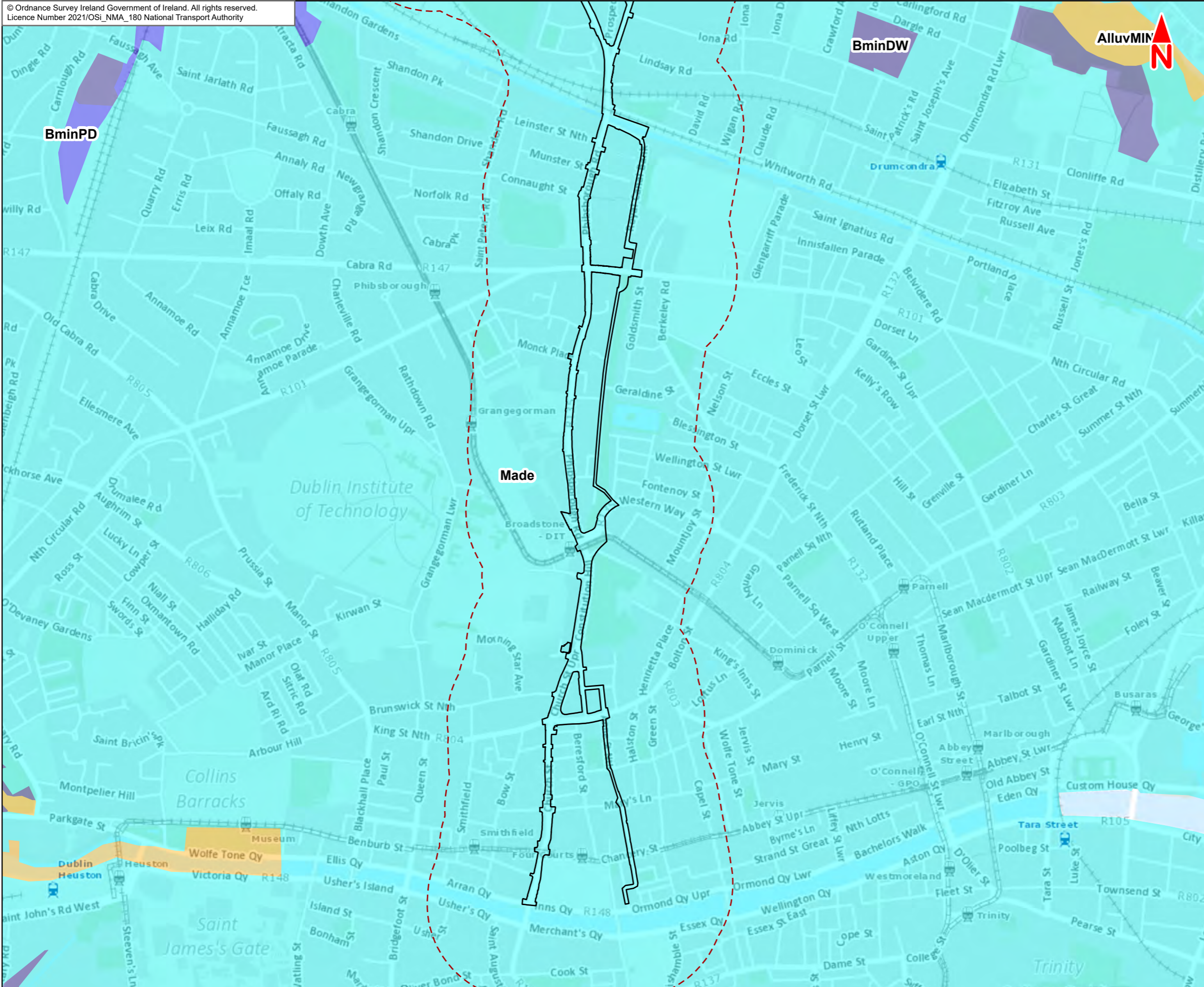
Rev	Date	Drn	Chk'd	App'd	Description
M01	Aug 22	FG	PW	DK	ISSUE FOR PHASE 4 : PLANNING

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

Consultant: **JACOBS**
ARUP SYSTRA

Date: 24/08/2022 Scale @ A3: 1:10,000
Project Code: BCIDE Originator Code: JAC
Drawn: FG Checked: PW Approved: DK

Programme Title: BUSCONNECTS DUBLIN			
CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: Ballymun / Finglas to City Centre Core Bus Corridor Scheme			
Figure 14.8 Soil Deposits			
Drawing File Name: BCIDE-JAC-ENV_GT-0304_XX_00-DR-GG-0202	Sheet Number: 2 of 4	Status: A	Rev: M01



- Legend :**
- Ballymun / Finglas to City Centre Core Bus Corridor 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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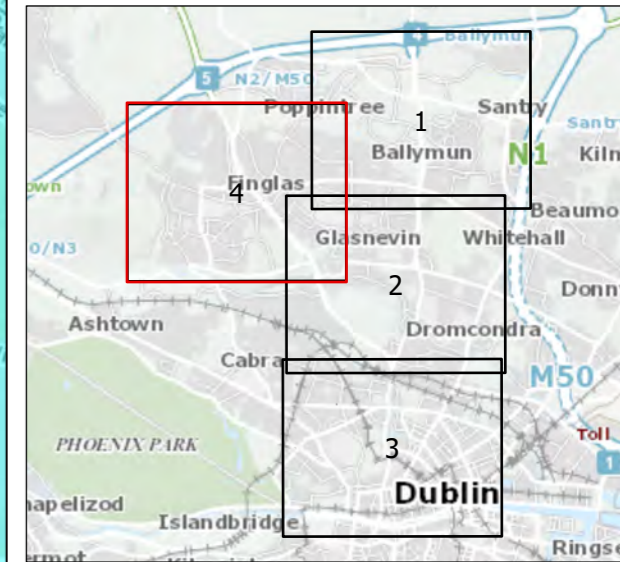
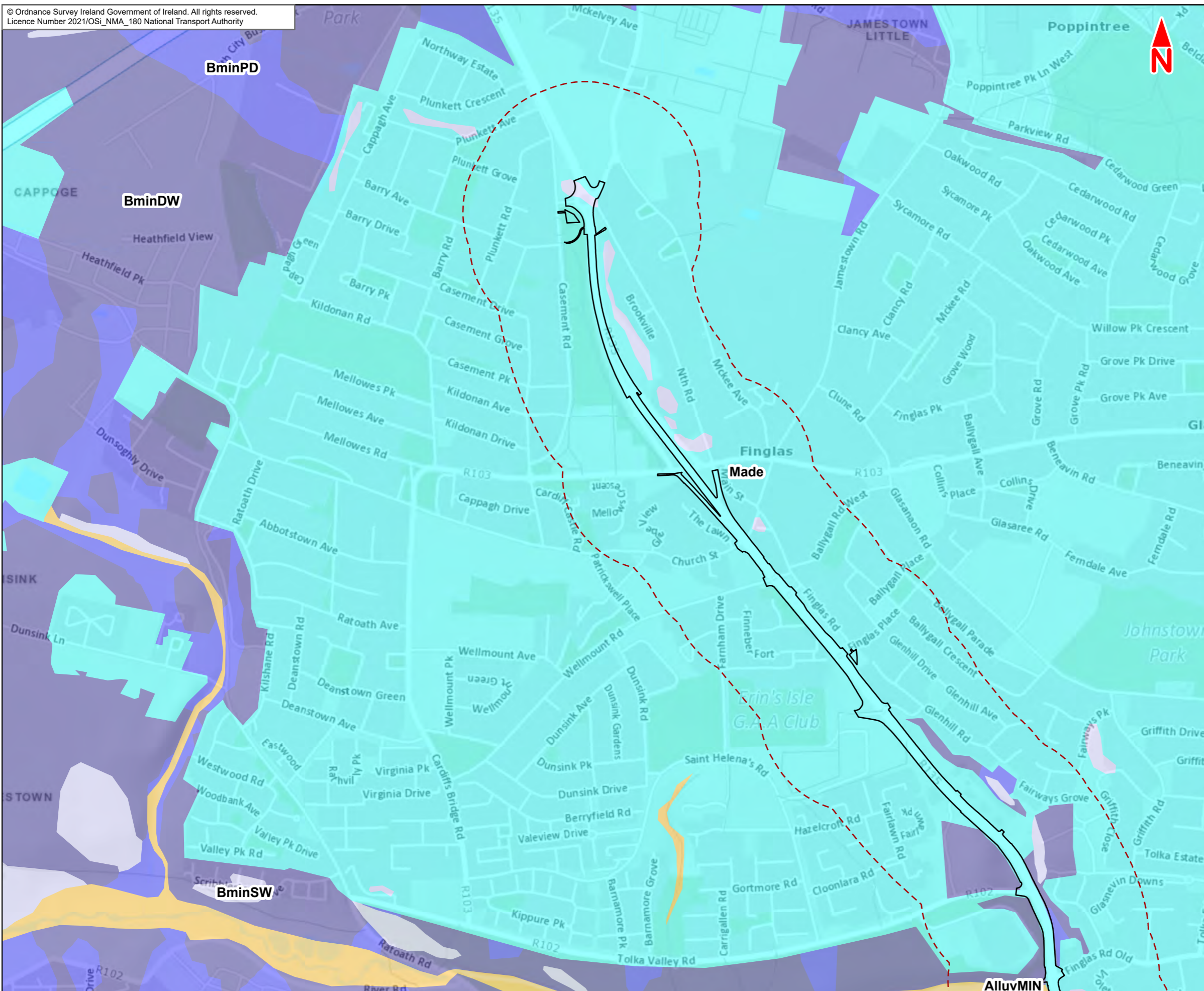
Rev	Date	Drn	Chk'd	App'd	Description
M01	Aug 22	FG	PW	DK	ISSUE FOR PHASE 4 : PLANNING

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

Consultant: **JACOBS ARUP SYSTRA**

Date: 24/08/2022 | Scale @ A3: 1:10,000
 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: Ballymun / Finglas to City Centre Core Bus Corridor Scheme Figure 14.8 Soil Deposits			
Drawing File Name: BCIDE-JAC-ENV_GT-0304_XX_00-DR-GG-0203	Sheet Number: 3 of 4	Status: A	Rev: M01



Legend :

- Ballymun / Finglas to City Centre Core Bus Corridor 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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Consultant: **JACOBS ARUP SYSTRA**

Date: 24/08/2022 | Scale @ A3: 1:10,000
Project Code: BCIDE | Originator Code: JAC

Drawn: FG | Checked: PW | Approved: DK

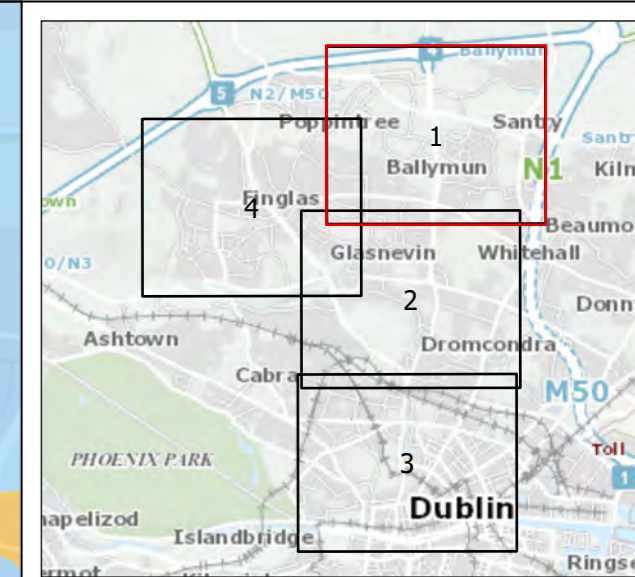
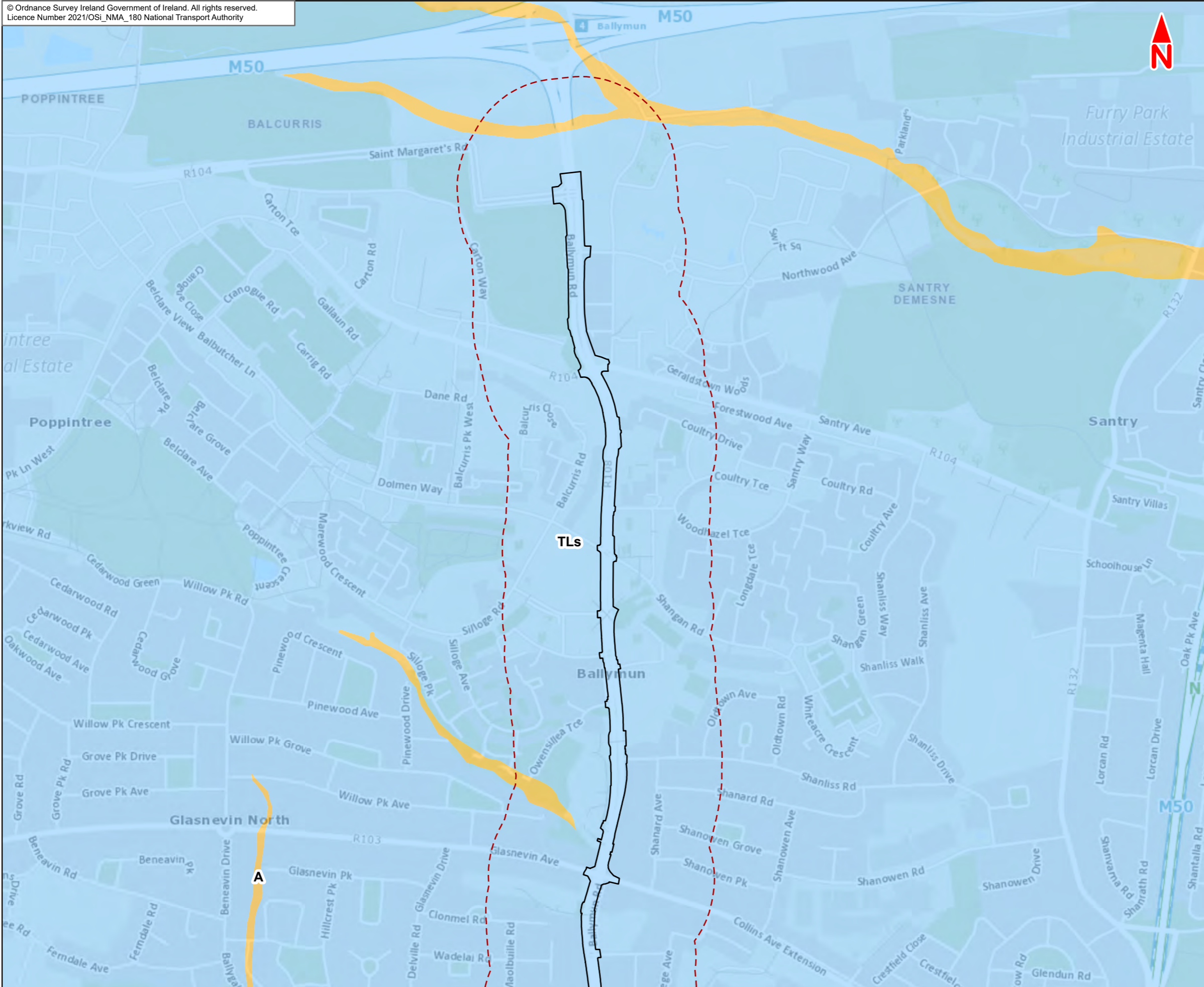
Programme Title: **BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS**

Drawing Title: **Ballymun / Finglas to City Centre Core Bus Corridor Scheme Figure 14.8 Soil Deposits**

Drawing File Name: BCIDE-JAC-ENV_GT-0304_XX_00-DR-GG-0204 | Sheet Number: 4 of 4 | Status: A | Rev: M01

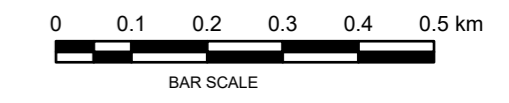
14.9 Subsoil Deposits





- Legend :**
- Ballymun / Finglas to City Centre Core Bus Corridor Scheme
 - 250m Study Area
 - 250m Study Area
 - Quaternary Sediments - 1:50,000
 - A, Alluvium
 - TLs, Till derived from limestones

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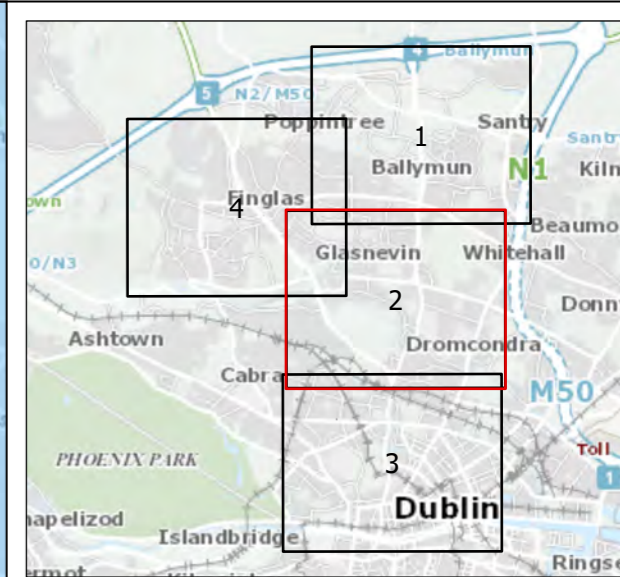
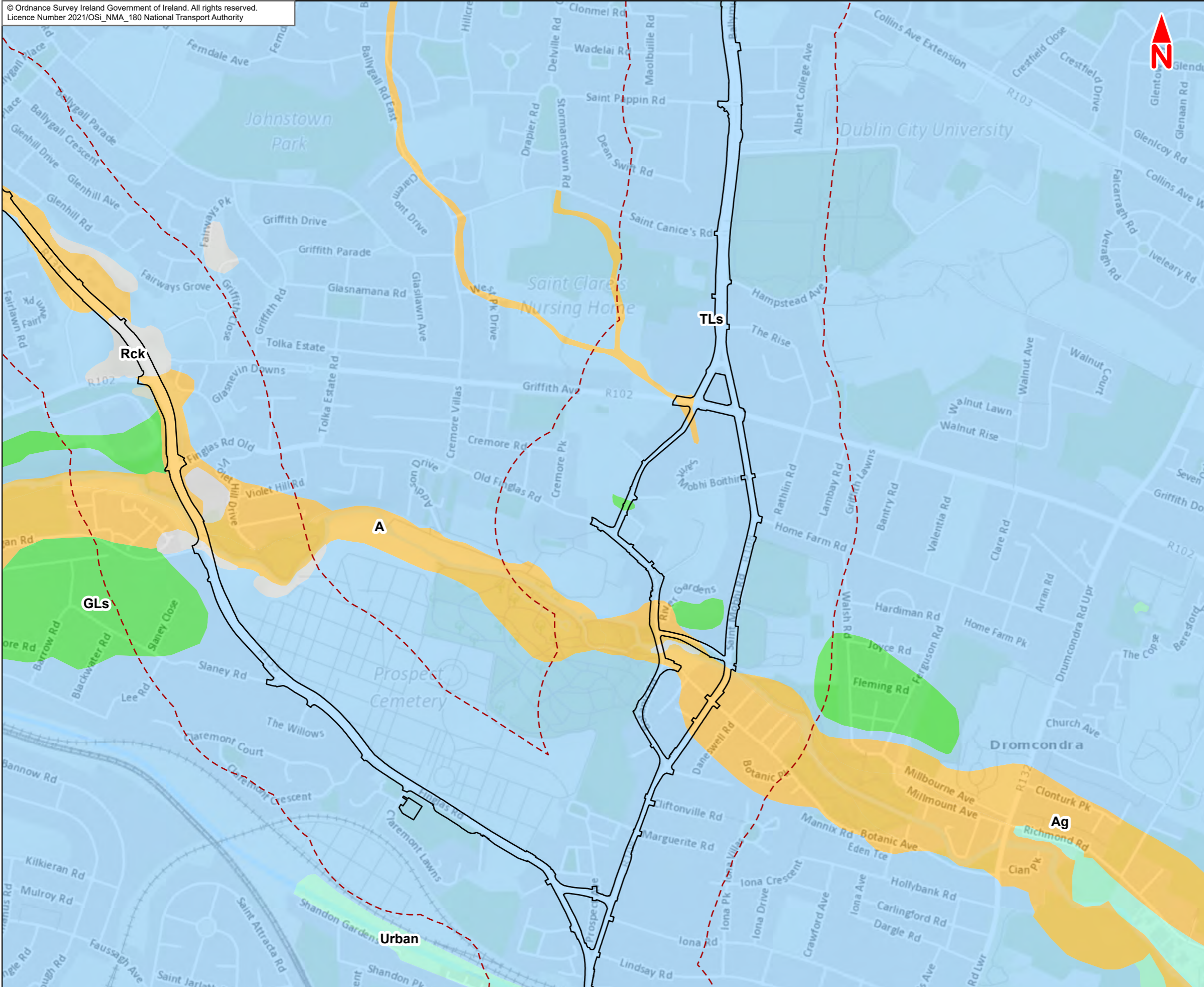
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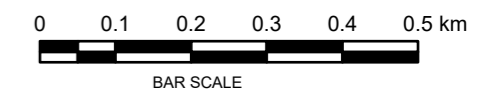
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Project Code	BCIDE	Originator Code	JAC	Checked	PW
				Approved	DK
				QMS Code	

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title Ballymun / Finglas to City Centre Core Bus Corridor Scheme Figure 14.9 Subsoil Deposits			
Drawing File Name	BCIDE-JAC-ENV_GT-0304_XX_00-DR-GG-0301	Sheet Number	1 of 4
Status	A	Rev	M01



- Legend :**
- Ballymun / Finglas to City Centre Core Bus Corridor Scheme
 - 250m Study Area
 - A, Alluvium
 - Ag, Alluvium (gravelly)
 - GLs, Gravels derived from Limestones
 - Rck, Bedrock outcrop or subcrop
 - TLs, Till derived from limestones
 - Urban

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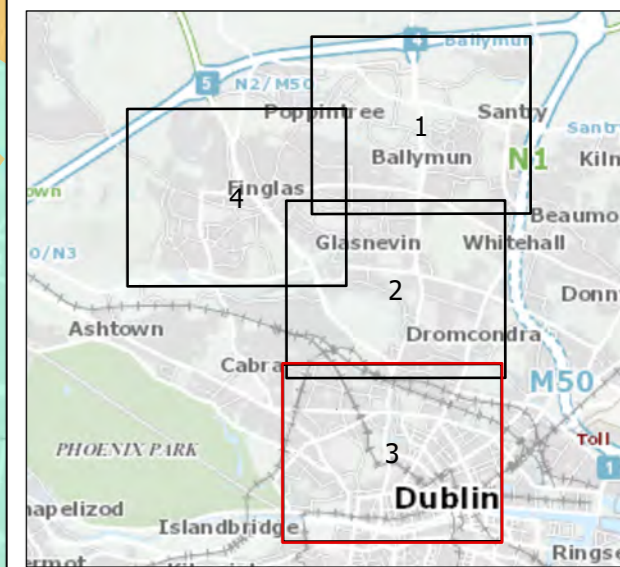
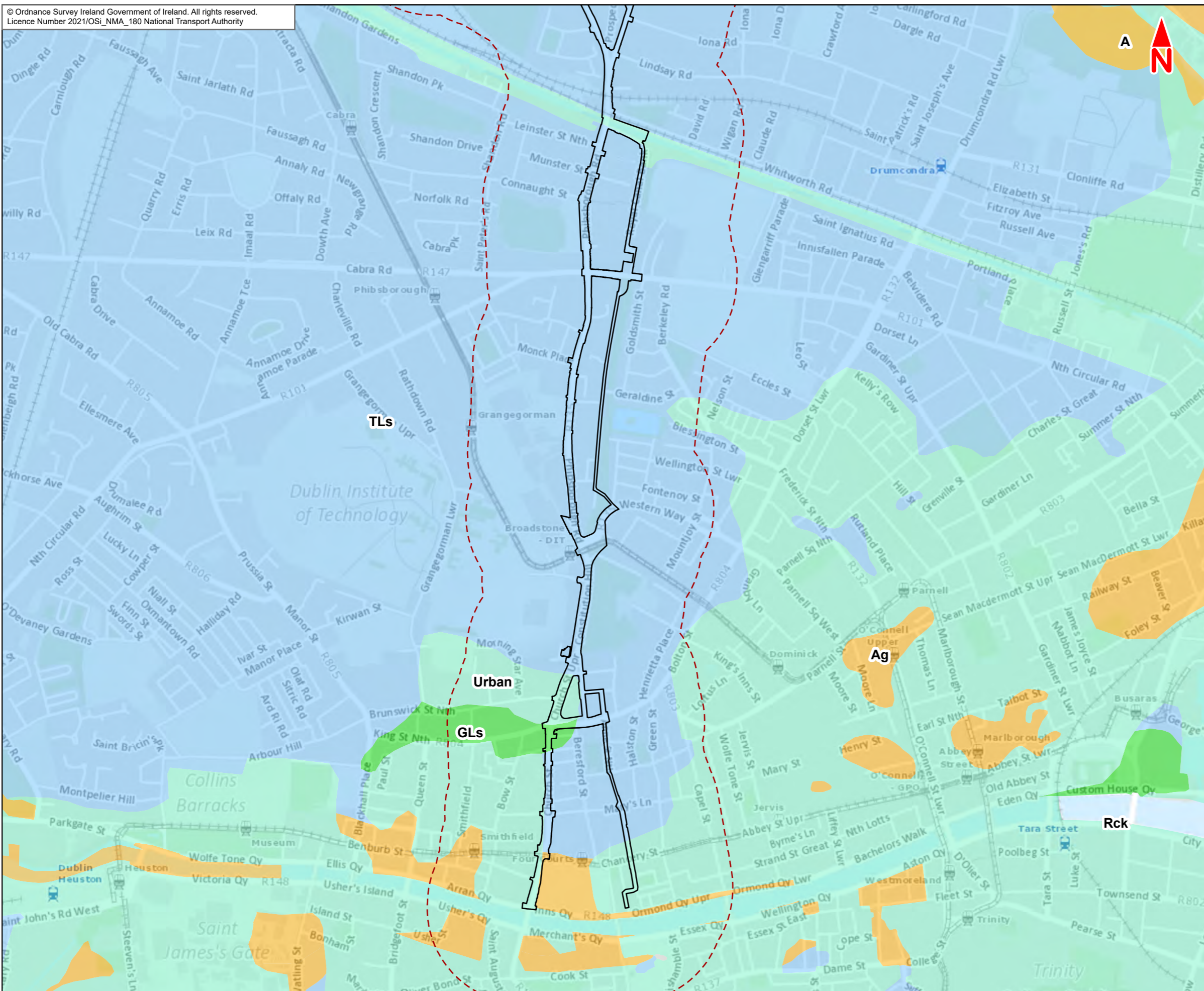
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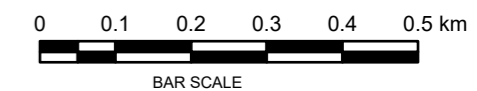
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24/08/2022	1:10,000	FG	PW	DK
Project Code	Originator Code	QMS Code		
BCIDE	JAC			

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Ballymun / Finglas to City Centre Core Bus Corridor Scheme Figure 14.9 Subsoil Deposits				
Drawing File Name	Sheet Number	Status	Rev	
BCIDE-JAC-ENV_GT-0304_XX_00-DR-GG-0302	2 of 4	A	M01	



- Legend :**
- Ballymun / Finglas to City Centre Core Bus Corridor Scheme
 - 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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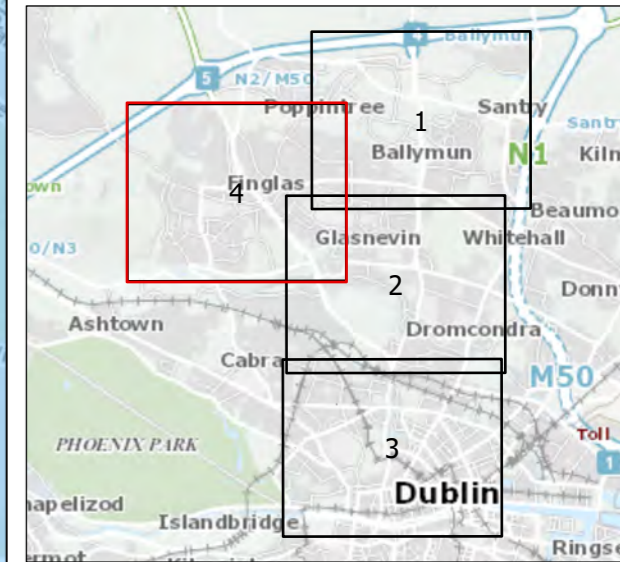
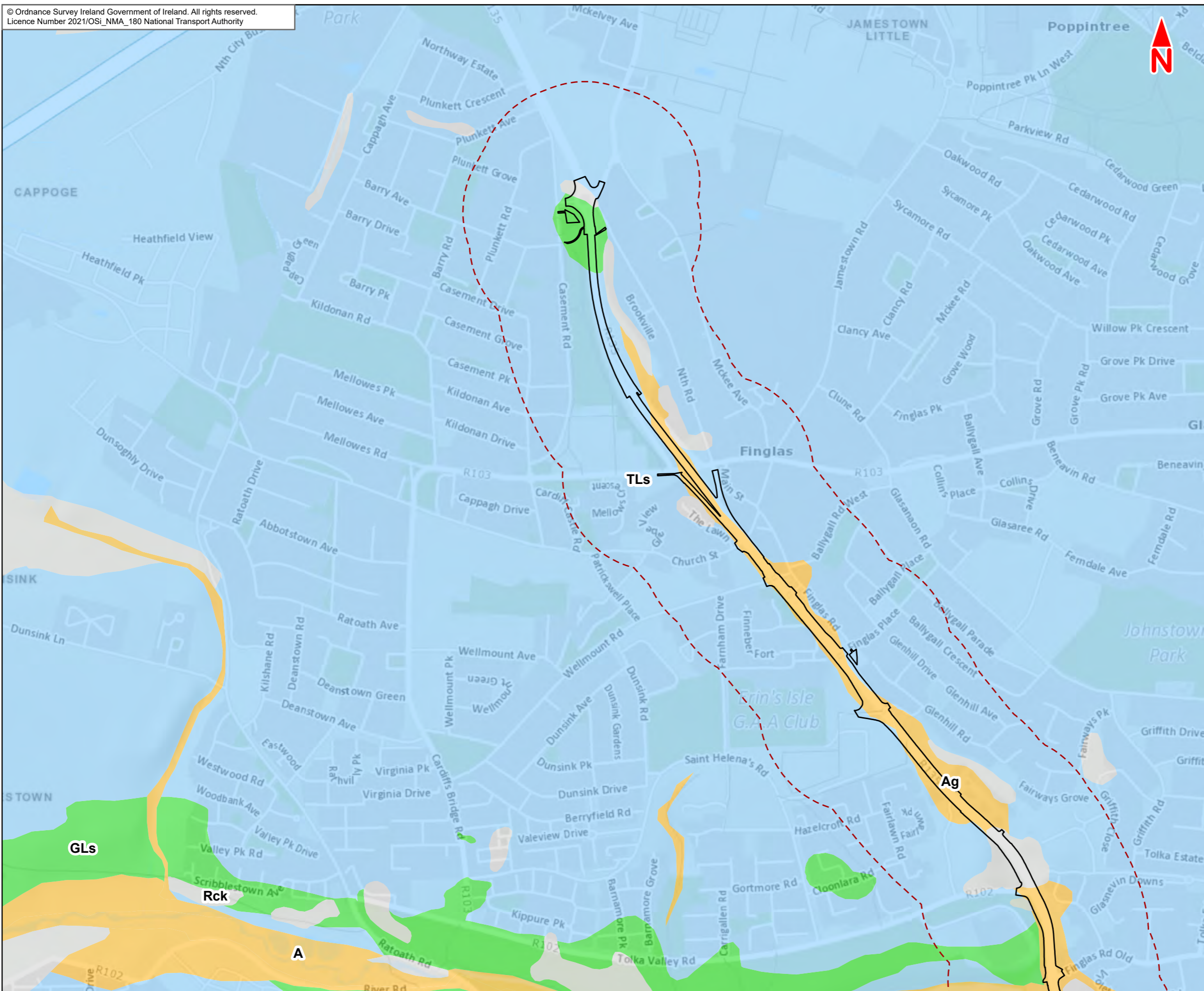
Rev	Date	Drn	Chk'd	App'd	Description
M01	Aug 22	FG	PW	DK	ISSUE FOR PHASE 4 : PLANNING

Client
NTA
Udarás Náisiúnta Iompair
National Transport Authority

Consultant
JACOBS
ARUP SYSTRA

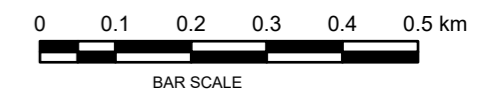
Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Ballymun / Finglas to City Centre Core Bus Corridor Scheme Figure 14.9 Subsoil Deposits				
Drawing File Name BCIDE-JAC-ENV_GT-0304_XX_00-DR-GG-0303	Sheet Number 3 of 4	Status A	Rev M01	

Date 24/08/2022	Scale @ A3 1:10,000	Drawn FG	Checked PW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		



- Legend :**
- Ballymun / Finglas to City Centre Core Bus Corridor 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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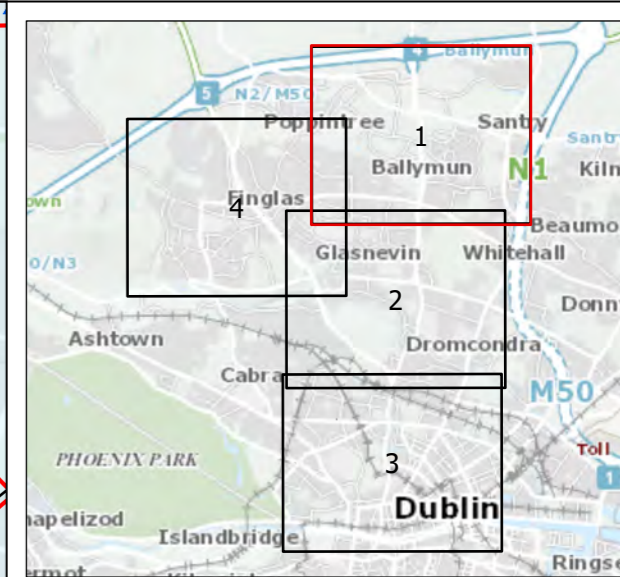
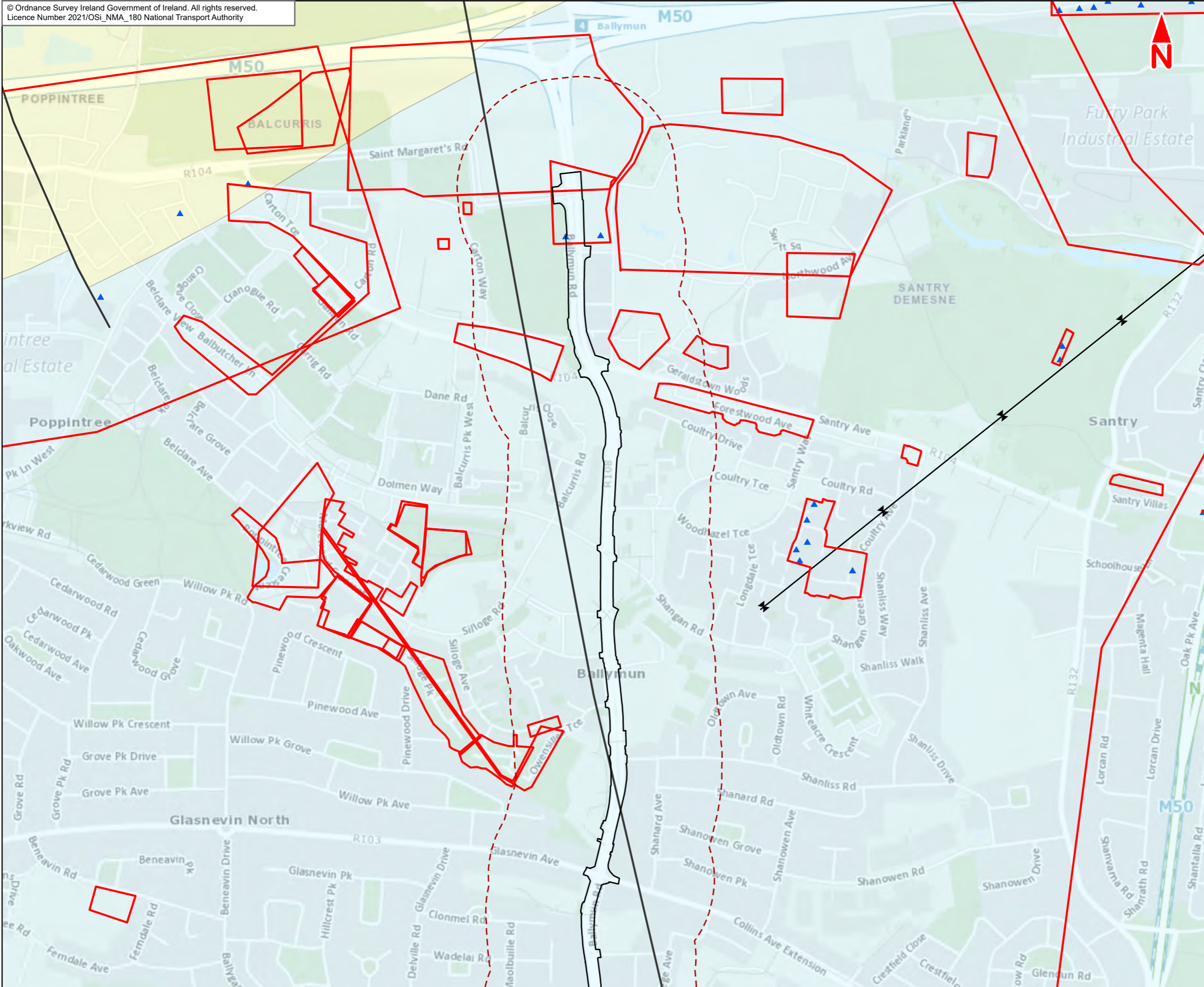
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Date	Scale @ A3	Drawn	Checked	Approved
24/08/2022	1:10,000	FG	PW	DK
Project Code	Originator Code	QMS Code		
BCIDE	JAC			

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Ballymun / Finglas to City Centre Core Bus Corridor Scheme Figure 14.9 Subsoil Deposits				
Drawing File Name	Sheet Number	Status	Rev	
BCIDE-JAC-ENV_GT-0304_XX_00-DR-GG-0304	4 of 4	A	M01	

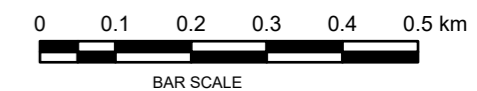
14.10
Bedrock Geology





- Legend :**
- Ballymun / Finglas to City Centre Core Bus Corridor Scheme
 - 250m Study Area
 - GSI Geotechnical Sites
 - GSI Geotechnical Boreholes
 - Fault
 - Synclinal Axis
- GSI Bedrock Geology - 1:100,000**
- Lucan Formation
 - Tober Colleen Formation

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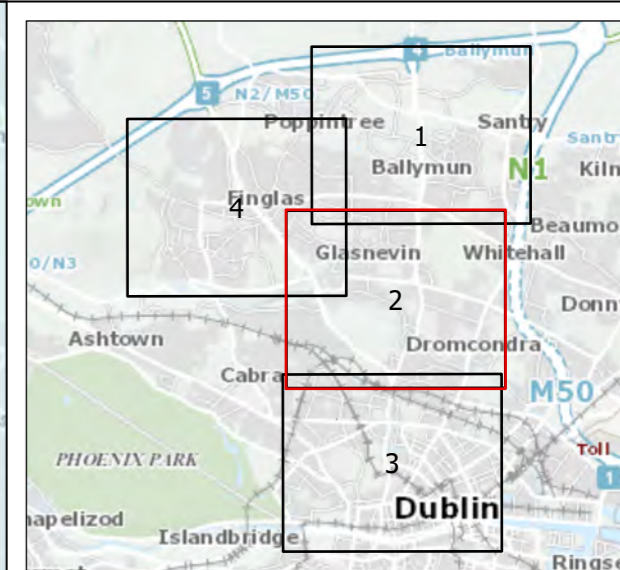
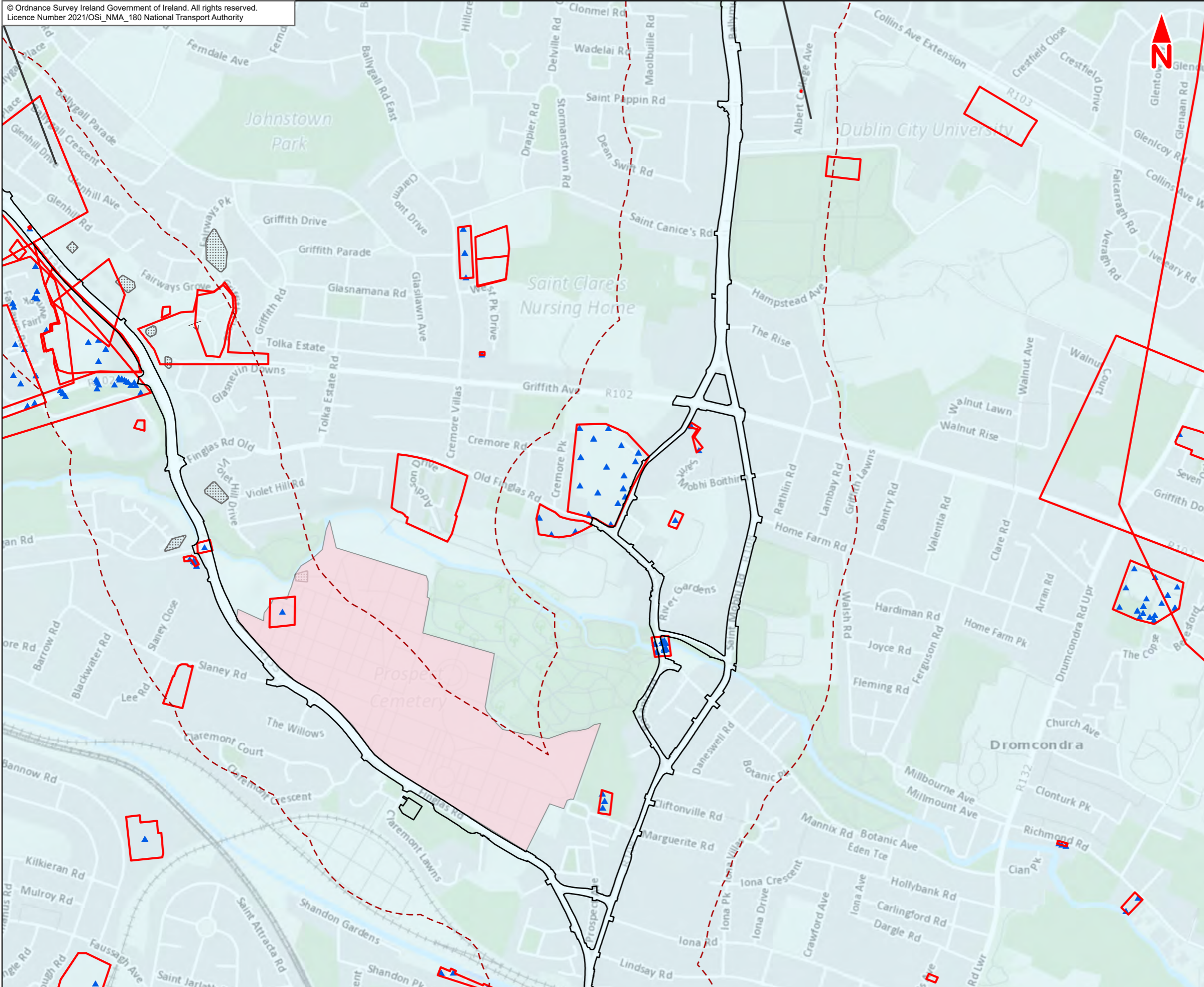
Rev	Date	Drn	Chk'd	App'd	Description
M01	Aug 22	FG	PW	DK	ISSUE FOR PHASE 4 : PLANNING

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

Consultant: **JACOBS ARUP SYSTRA**

Date: 24/08/2022 | Scale @ A3: 1:10,000
 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: Ballymun / Finglas to City Centre Core Bus Corridor Scheme Figure 14.10 Bedrock Geology			
Drawing File Name: BCIDE-JAC-ENV_GT-0304_XX_00-DR-GG-0401	Sheet Number: 1 of 4	Status: A	Rev: M01



Legend :

- Ballymun / Finglas to City Centre Core Bus Corridor Scheme
- 250m Study Area
- GSI Geotechnical Sites
- Geological Heritage Site
- GSI Geotechnical Boreholes

GSI Bedrock Structural Symbols - 1:100,000

- Strike and dip of bedding, right way up
- Fault

GSI Bedrock Outcrop - 1:100,000

- GSI Bedrock Outcrop - 1:100,000

GSI Bedrock Geology - 1:100,000

- Lucan Formation

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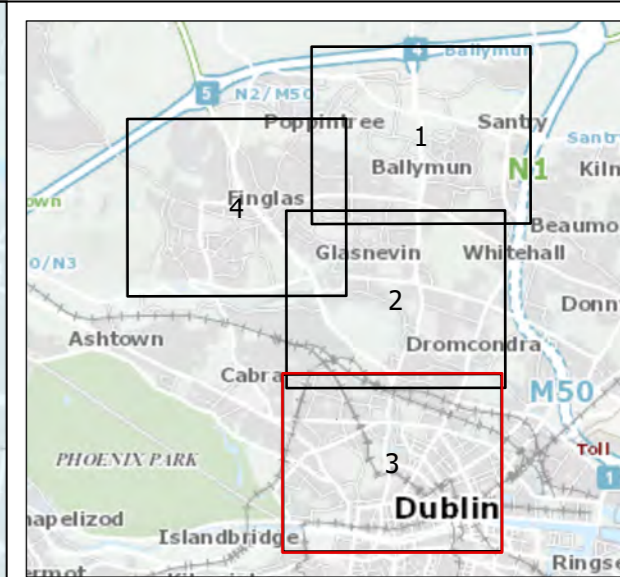
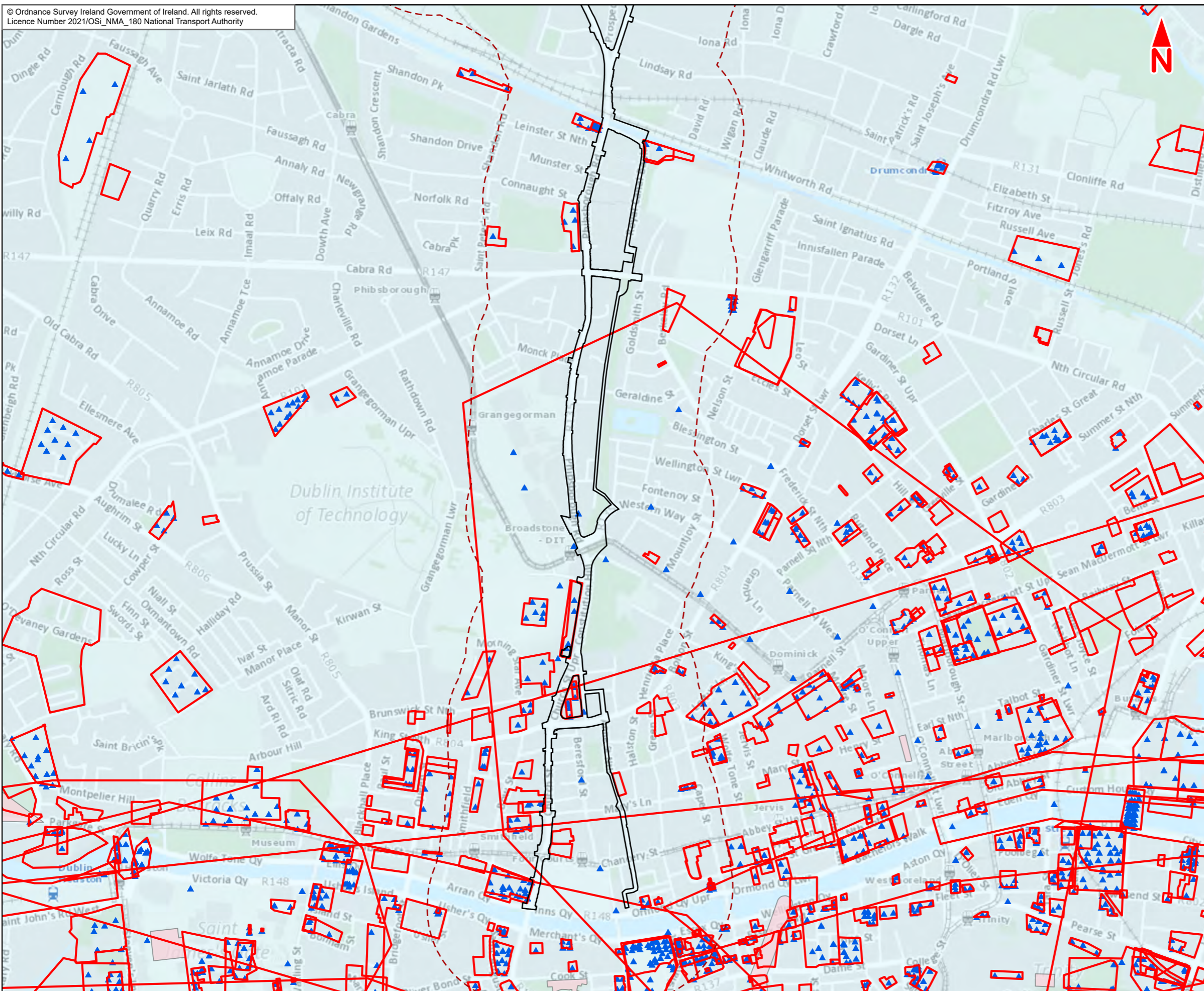
Consultant: **JACOBS ARUP SYSTRA**

Date: 24/08/2022 | Scale @ A3: 1:10,000
 Drawn: FG | Checked: PW | Approved: DK
 Project Code: BCIDE | Originator Code: JAC | QMS Code:

Programme Title: **BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS**

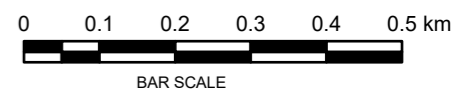
Drawing Title: **Ballymun / Finglas to City Centre Core Bus Corridor Scheme Figure 14.10 Bedrock Geology**

Drawing File Name: BCIDE-JAC-ENV_GT-0304_XX_00-DR-GG-0402 | Sheet Number: 2 of 4 | Status: A | Rev: M01



- Legend :**
- Ballymun / Finglas 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

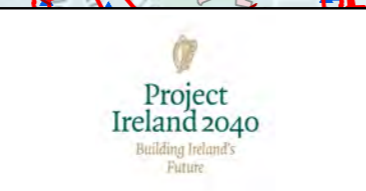
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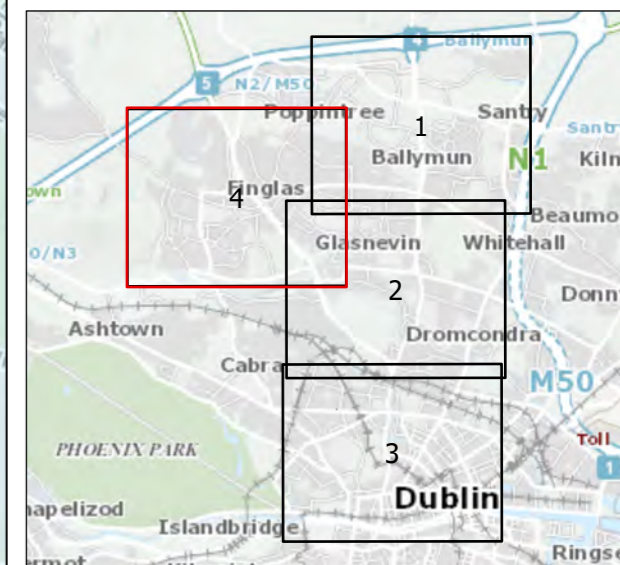
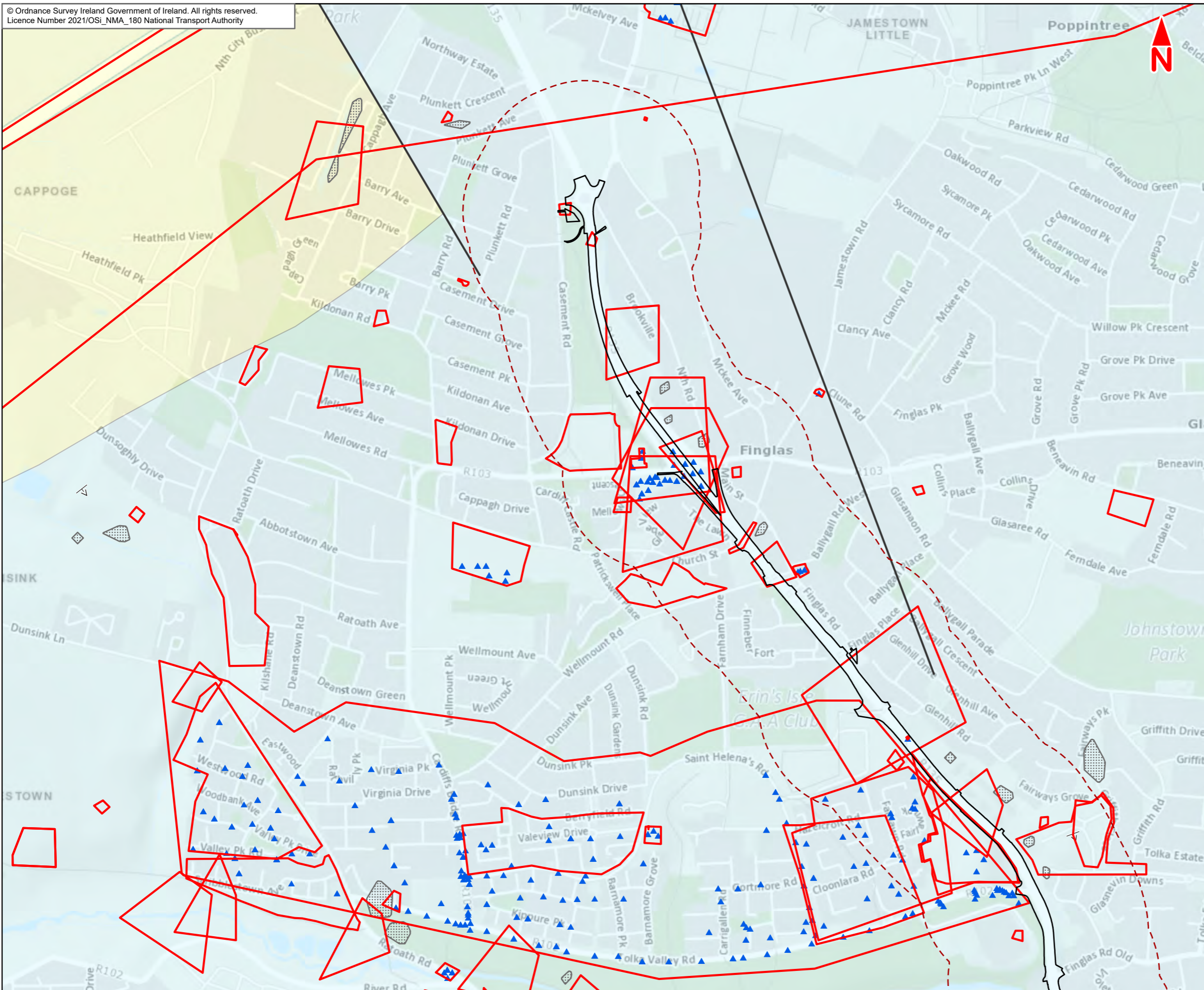
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National Transport Authority

Consultant: **JACOBS ARUP SYSTRA**

Date: 24/08/2022 | Scale @ A3: 1:10,000
Project Code: BCIDE | Originator Code: JAC

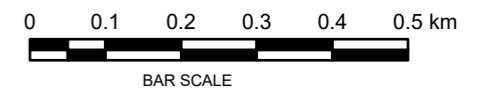
Drawn: FG | Checked: PW | Approved: DK

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: Ballymun / Finglas to City Centre Core Bus Corridor Scheme Figure 14.10 Bedrock Geology			
Drawing File Name: BCIDE-JAC-ENV_GT-0304_XX_00-DR-GG-0403	Sheet Number: 3 of 4	Status: A	Rev: M01



- Legend :**
- Ballymun / Finglas to City Centre Core Bus Corridor Scheme
 - 250m Study Area
 - GSI Geotechnical Sites
 - GSI Geotechnical Boreholes
 - GSI Bedrock Structural Symbols - 1:100,000**
 - Strike and dip of bedding, right way up
 - Fault
 - GSI Bedrock Outcrop - 1:100,000**
 - GSI Bedrock Outcrop - 1:100,000
 - GSI Bedrock Geology - 1:100,000**
 - Lucan Formation
 - Tober Colleen Formation

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

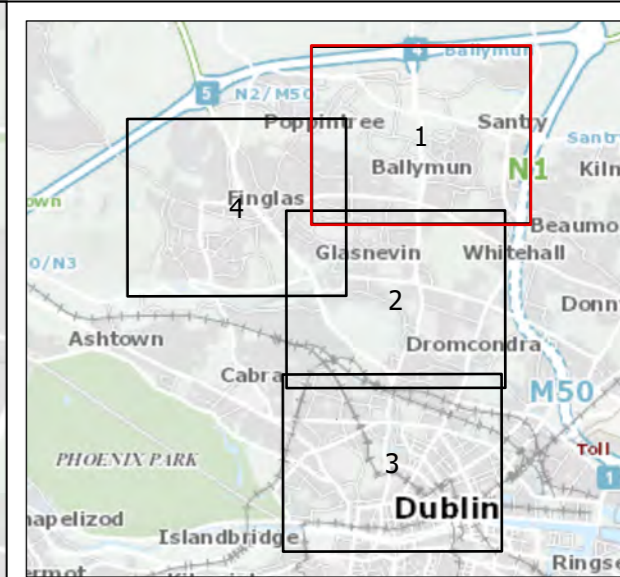
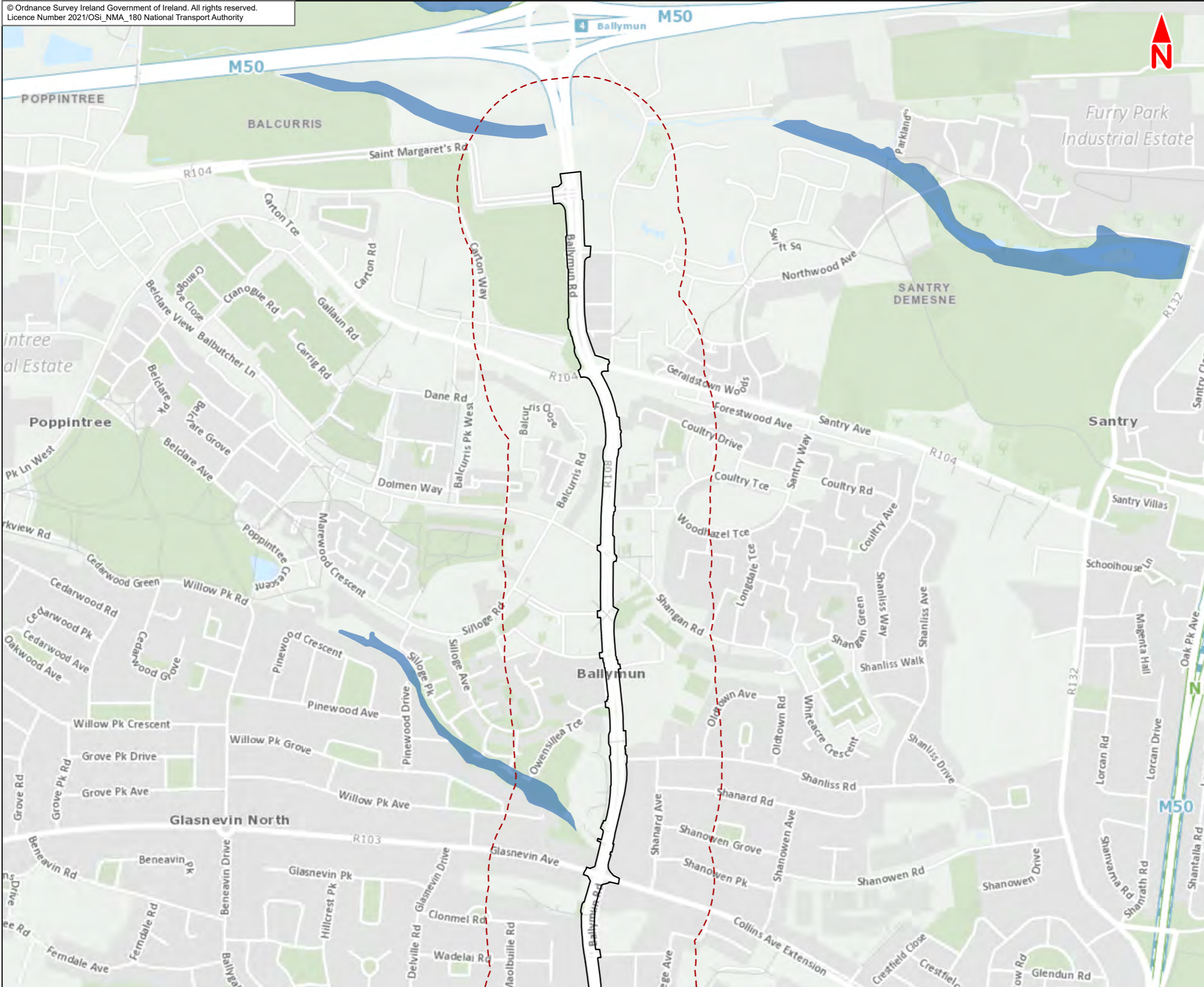
Client NTA Udarás Náisiúnta Iompair National Transport Authority		Consultant JACOBS ARUP SYSTRA		
Date 24/08/2022	Scale @ A3 1:10,000	Drawn FG	Checked PW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Ballymun / Finglas to City Centre Core Bus Corridor Scheme Figure 14.10 Bedrock Geology				
Drawing File Name BCIDE-JAC-ENV_GT-0304_XX_00-DR-GG-0404	Sheet Number 4 of 4	Status A	Rev M01	

14.11

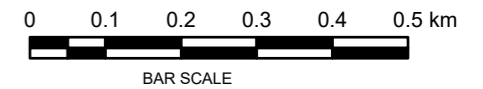
Granular Aggregate Potential





- Legend :**
- Ballymun / Finglas to City Centre Core Bus Corridor Scheme
 - 250m Study Area
 - GSI Aggregate Potential Mapping - Granular Aggregate Potential**
 - Very low potential

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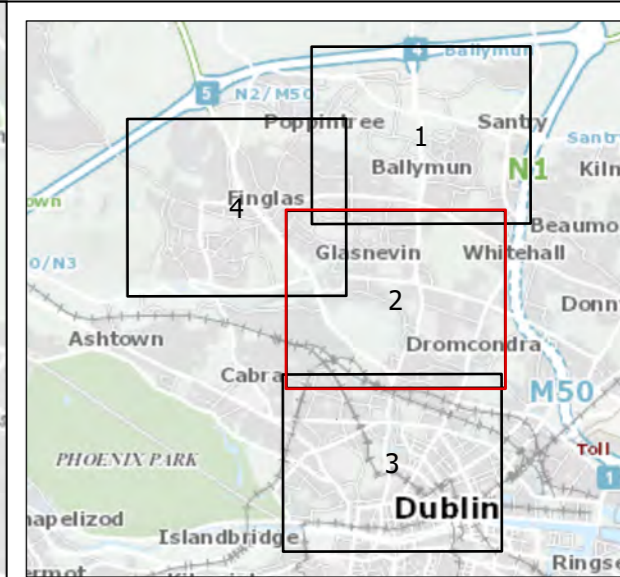
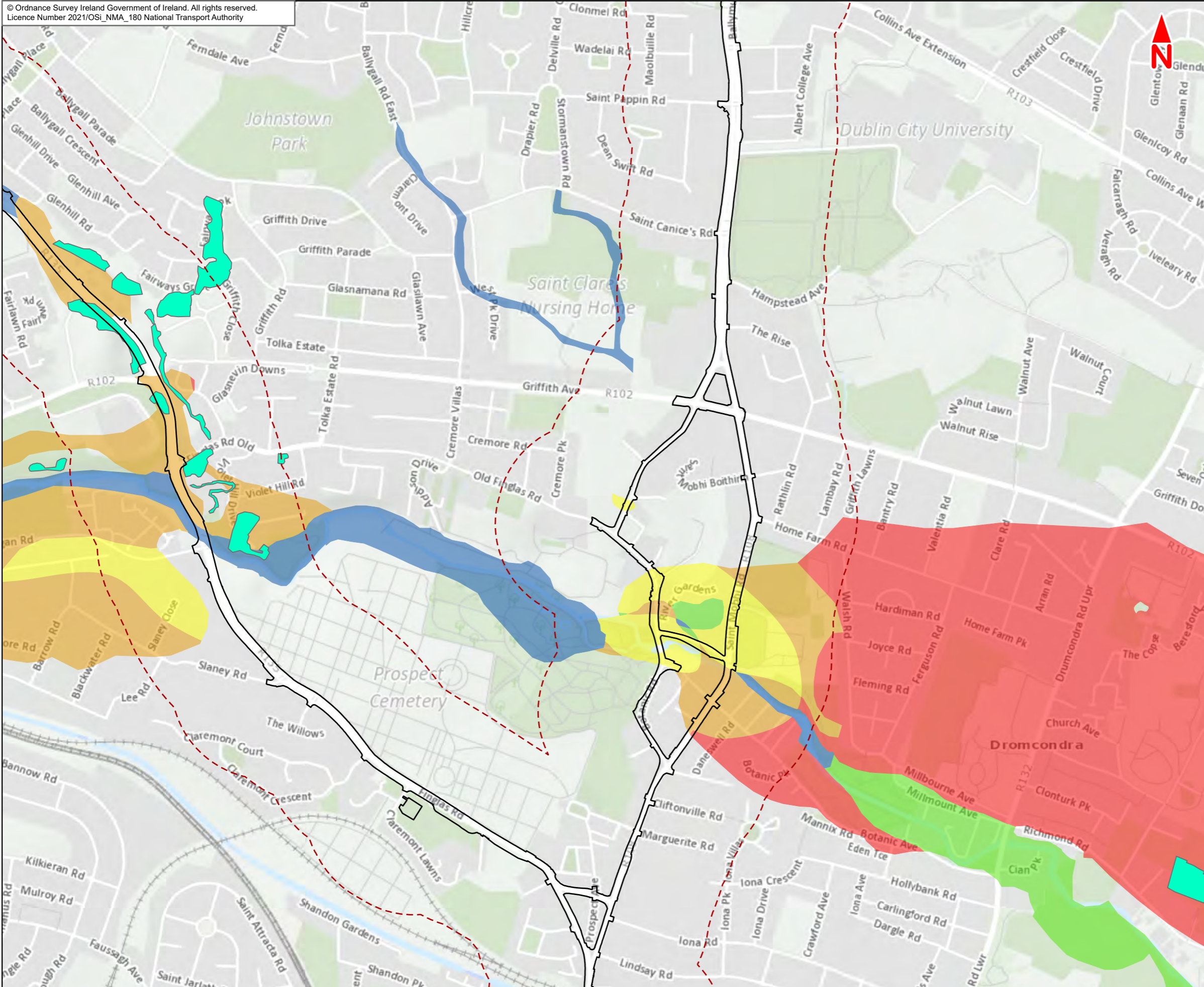
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Client NTA Udarás Náisiúnta Iompair National Transport Authority		Consultant JACOBS ARUP SYSTRA		
Date 24/08/2022	Scale @ A3 1:10,000	Drawn FG	Checked PW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Ballymun / Finglas to City Centre Core Bus Corridor Scheme Figure 14.11 Granular Aggregate Potential				
Drawing File Name BCIDE-JAC-ENV_GT-0304_XX_00-DR-GG-0501	Sheet Number 1 of 4	Status A	Rev M01	



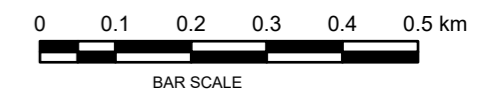
Legend :

- Ballymun / Finglas to City Centre Core Bus Corridor 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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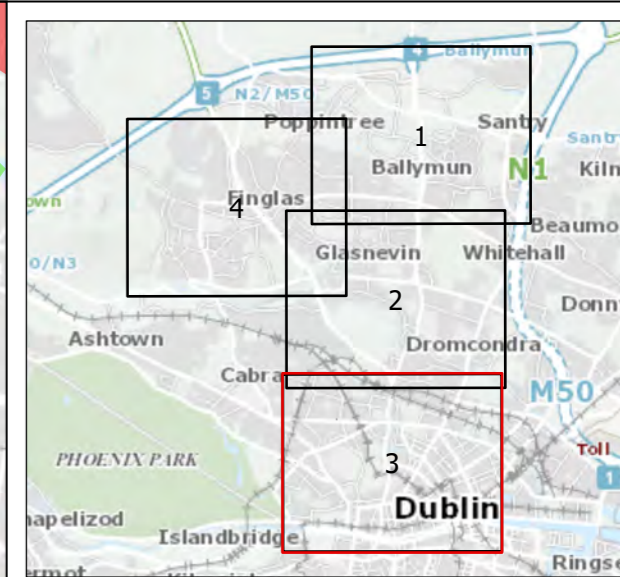
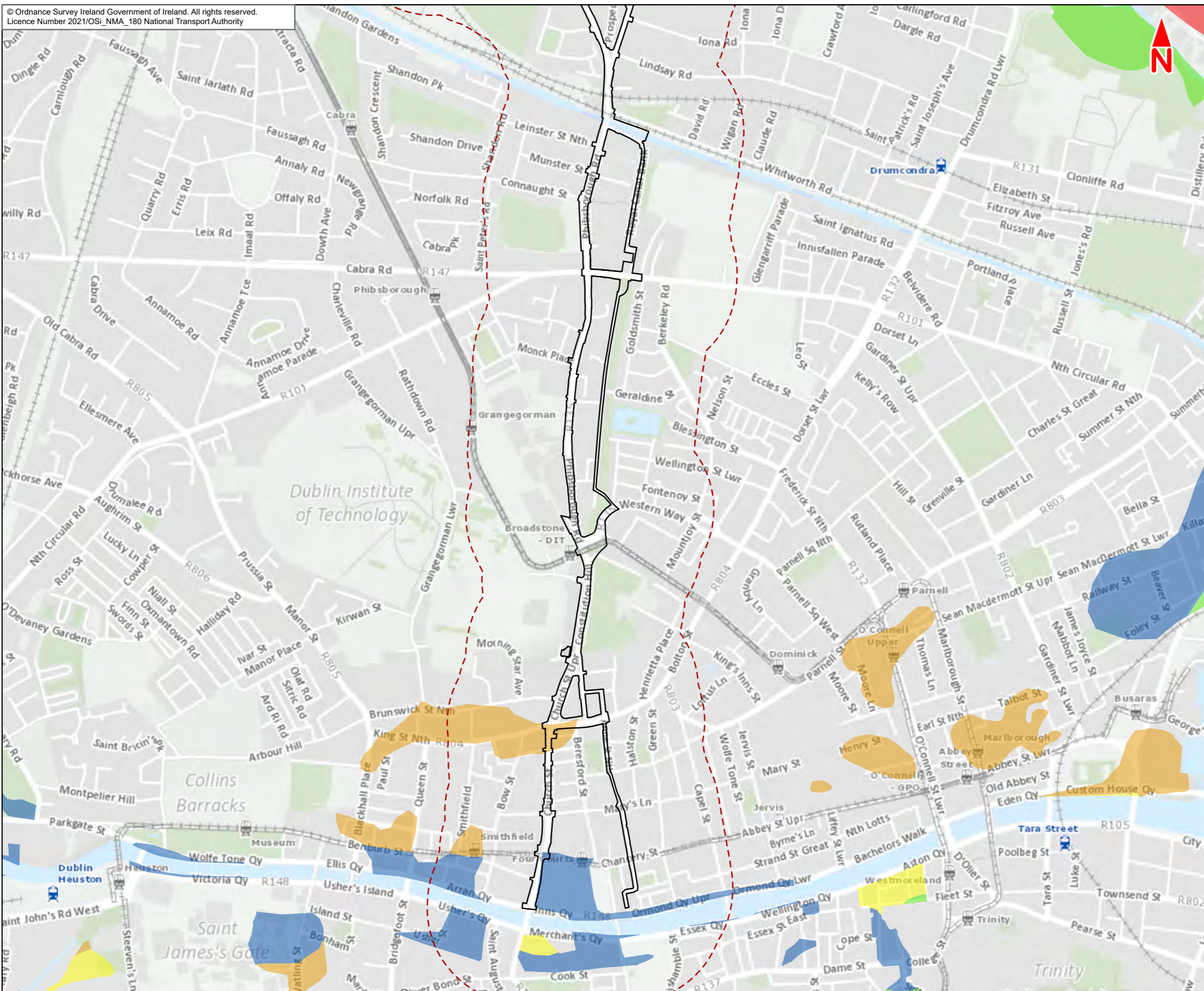
Rev	Date	Drn	Chk'd	App'd	Description
M01	Aug 22	FG	PW	DK	ISSUE FOR PHASE 4 : PLANNING

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

Consultant: **JACOBS ARUP SYSTRA**

Date: 24/08/2022 | Scale @ A3: 1:10,000
 Drawn: FG | Checked: PW | Approved: DK
 Project Code: BCIDE | Originator Code: JAC

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: Ballymun / Finglas to City Centre Core Bus Corridor Scheme Figure 14.11 Granular Aggregate Potential			
Drawing File Name: BCIDE-JAC-ENV_GT-0304_XX_00-DR-GG-0502	Sheet Number: 2 of 4	Status: A	Rev: M01



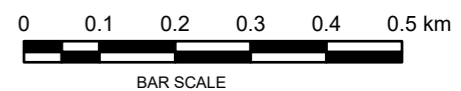
Legend :

- Ballymun / Finglas to City Centre Core Bus Corridor Scheme
- 250m Study Area

GSI Aggregate Potential Mapping - Granular Aggregate Potential

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

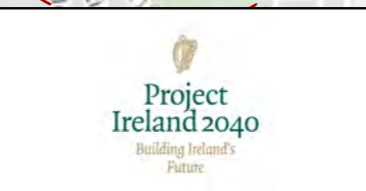
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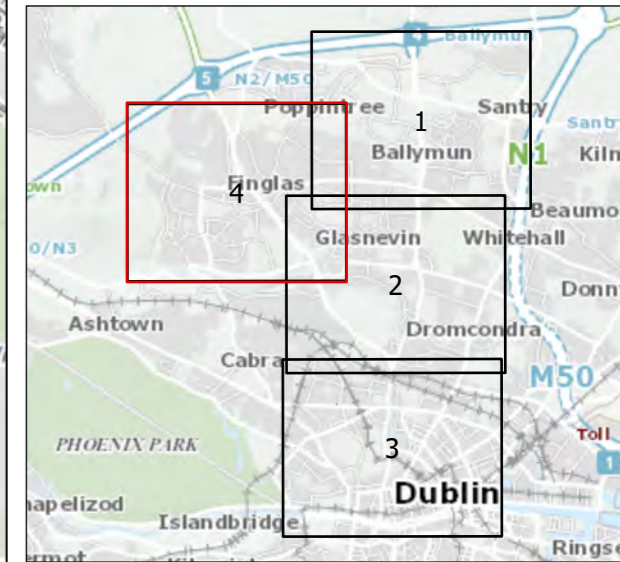
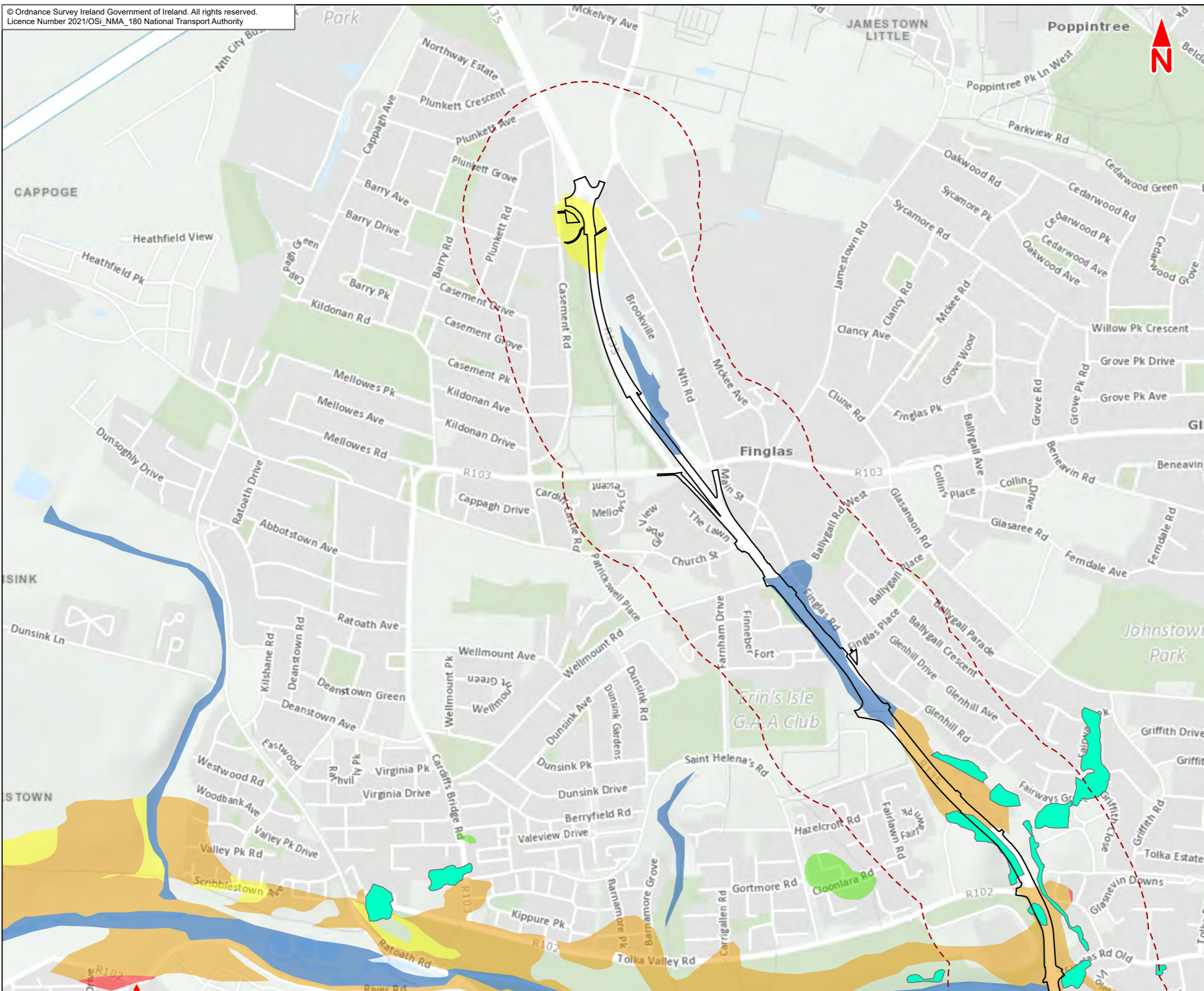
Client: **NTA**
Udarás Náisiúnta Iompair
National Transport Authority

Consultant: **JACOBS ARUP SYSTRA**

Date: 24/08/2022 | Scale @ A3: 1:10,000
Project Code: BCIDE | Originator Code: JAC

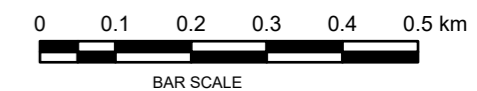
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Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: Ballymun / Finglas to City Centre Core Bus Corridor Scheme Figure 14.11 Granular Aggregate Potential			
Drawing File Name: BCIDE-JAC-ENV_GT-0304_XX_00-DR-GG-0503	Sheet Number: 3 of 4	Status: A	Rev: M01



- Legend :**
- Ballymun / Finglas to City Centre Core Bus Corridor 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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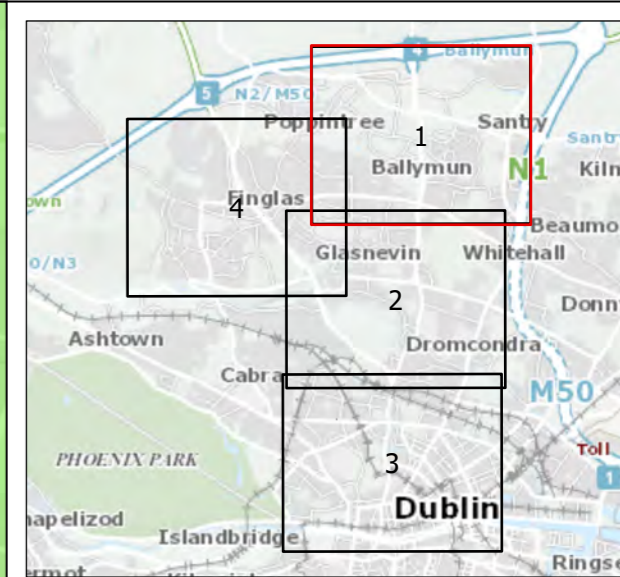
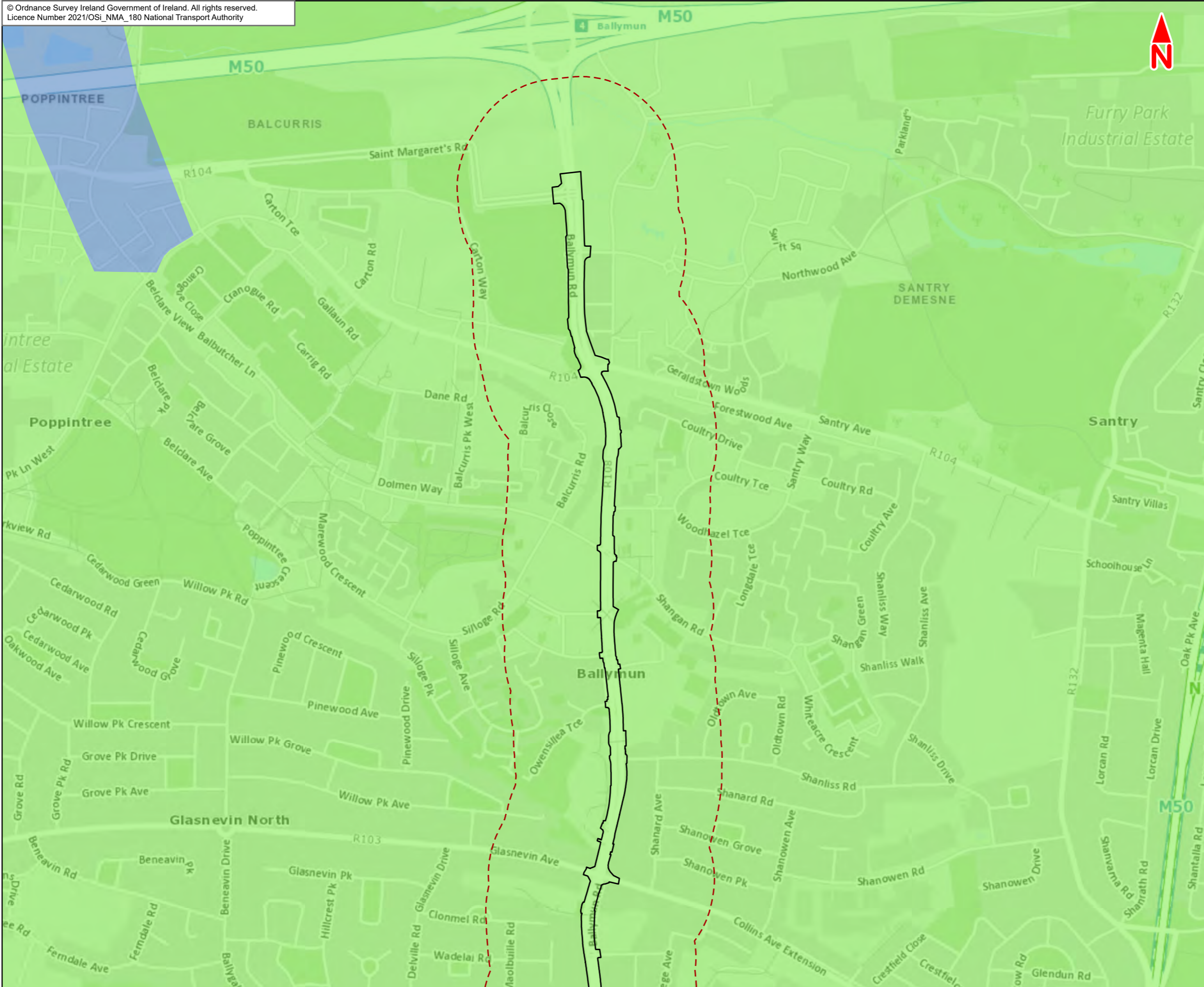
Rev	Date	Drn	Chk'd	App'd	Description
M01	Aug 22	FG	PW	DK	ISSUE FOR PHASE 4 : PLANNING

Date	Scale @ A3	Drawn	Checked	Approved
24/08/2022	1:10,000	FG	PW	DK
Project Code	Originator Code	QMS Code		
BCIDE	JAC			

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Ballymun / Finglas to City Centre Core Bus Corridor Scheme Figure 14.11 Granular Aggregate Potential				
Drawing File Name	Sheet Number	Status	Rev	
BCIDE-JAC-ENV_GT-0304_XX_00-DR-GG-0504	4 of 4	A	M01	

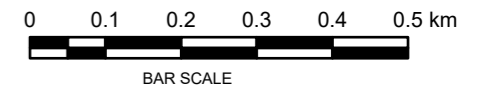
14.12
Crushed Rock
Aggregate Potential





- Legend :**
- Ballymun / Finglas to City Centre Core Bus Corridor Scheme
 - 250m Study Area
- GSI Aggregate Potential Mapping - Crushed Rock Aggregate Potential**
- High potential
 - Low potential
 - Very low potential

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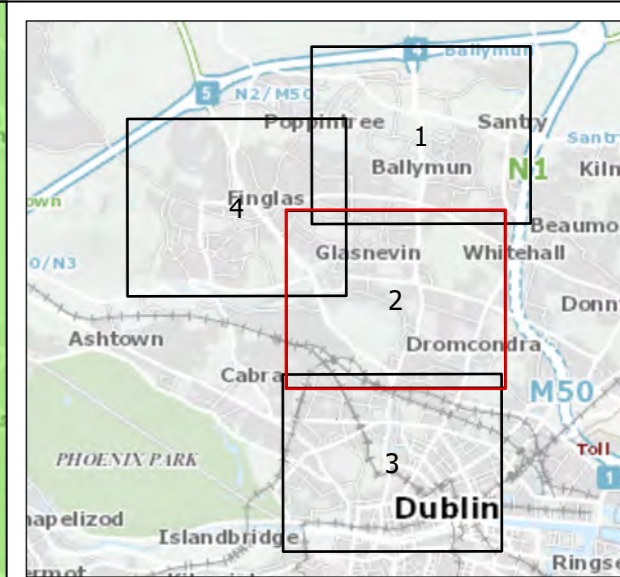
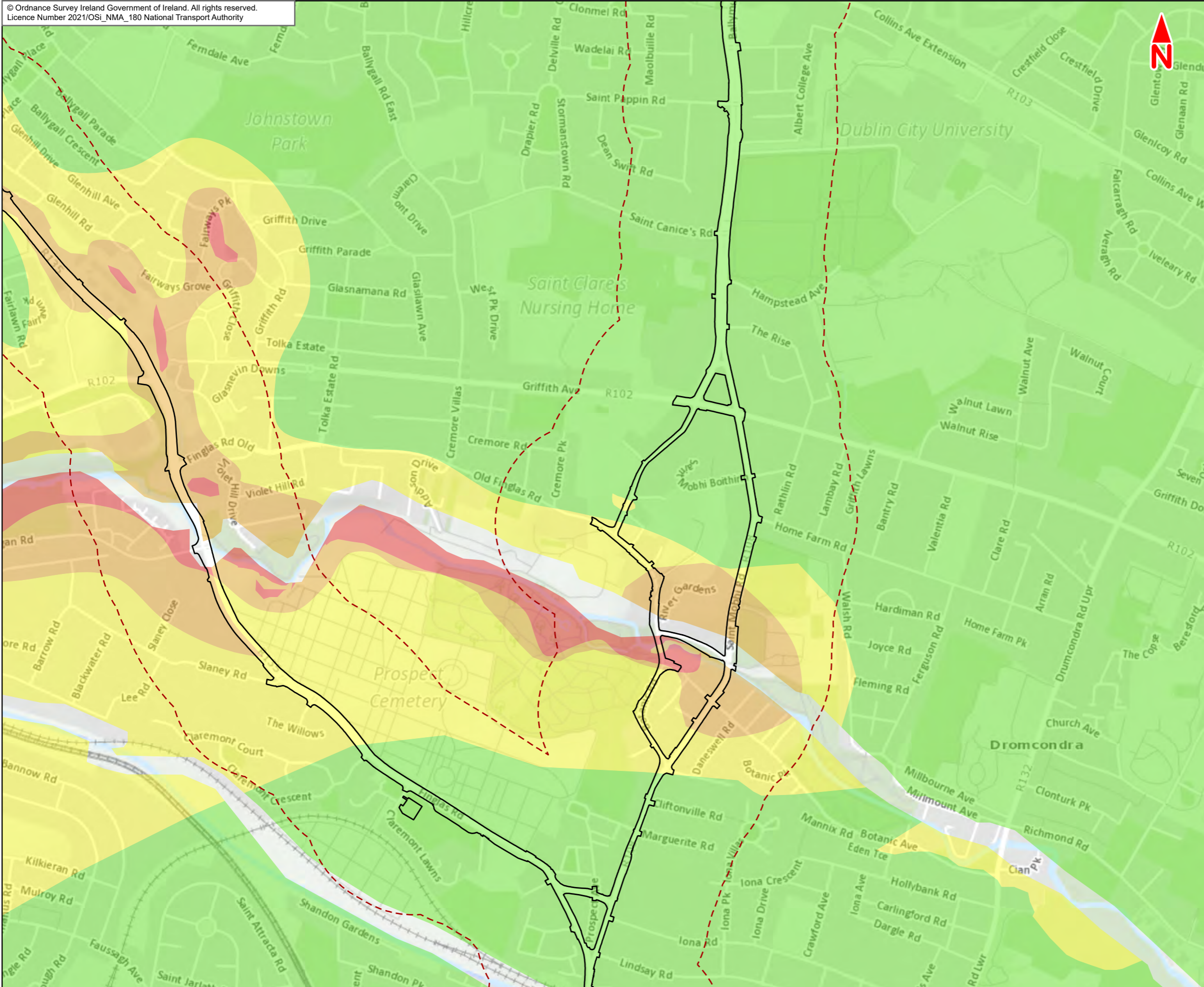
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Date	24/08/2022	Scale @ A3	1:10,000	Drawn	FG
Project Code	BCIDE	Originator Code	JAC	Checked	PW
				Approved	DK
				QMS Code	

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title Ballymun / Finglas to City Centre Core Bus Corridor Scheme Figure 14.12 Crushed Rock Aggregate Potential			
Drawing File Name	BCIDE-JAC-ENV_GT-0304_XX_00-DR-GG-0601	Sheet Number	1 of 4
Status	A	Rev	M01



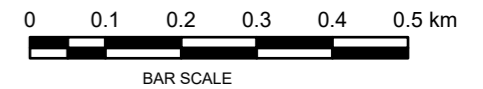
Legend :

- Ballymun / Finglas to City Centre Core Bus Corridor Scheme
- 250m Study Area

GSI Aggregate Potential Mapping - Crushed Rock Aggregate Potential

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

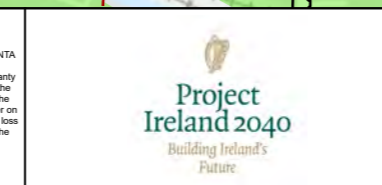
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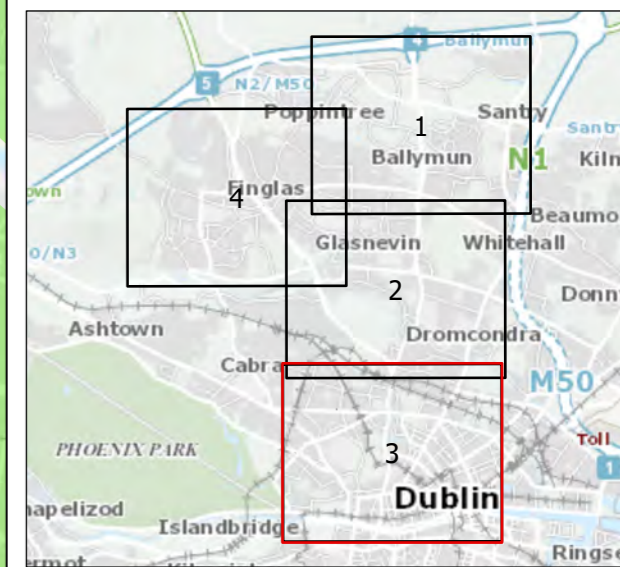
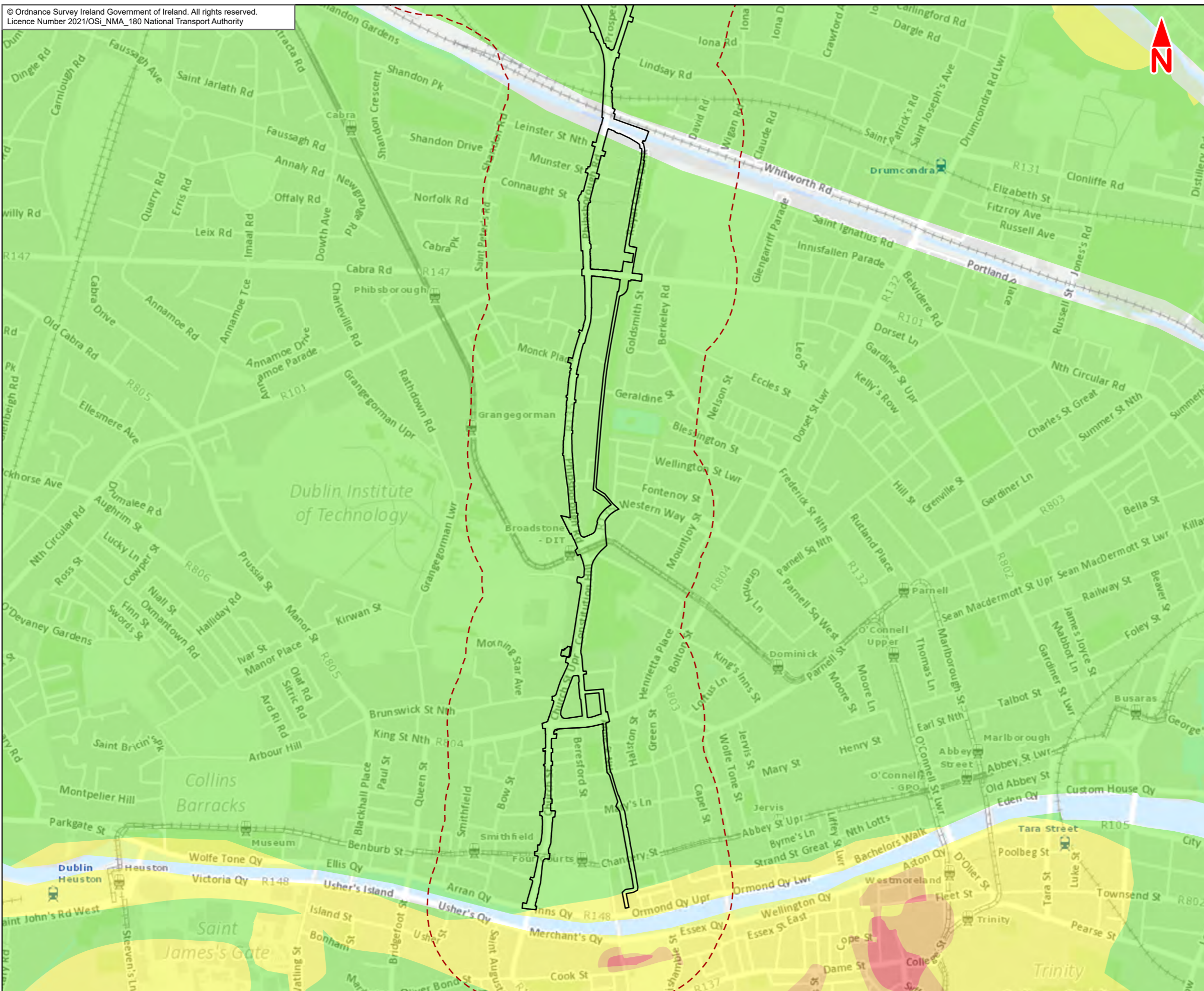
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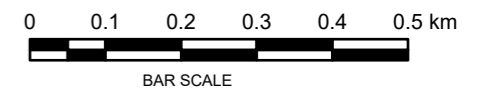
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Project Code	BCIDE	Originator Code	JAC	Checked	PW
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Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS					
Drawing Title Ballymun / Finglas to City Centre Core Bus Corridor Scheme Figure 14.12 Crushed Rock Aggregate Potential					
Drawing File Name	BCIDE-JAC-ENV_GT-0304_XX_00-DR-GG-0602	Sheet Number	2 of 4	Status	A
Rev	M01				



- Legend :**
- Ballymun / Finglas to City Centre Core Bus Corridor 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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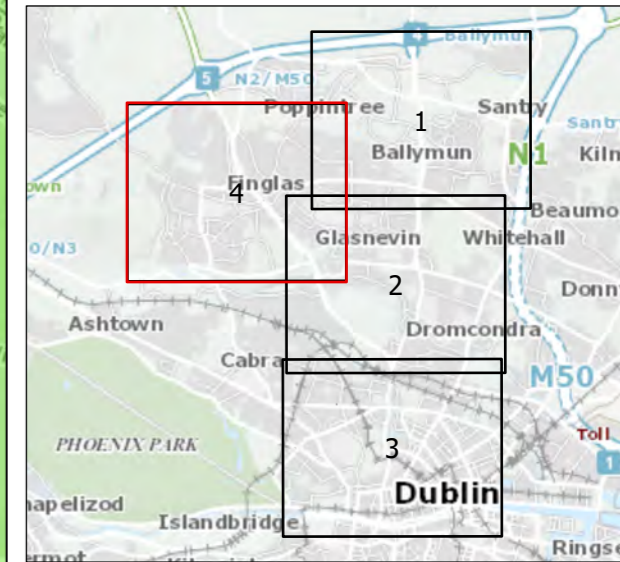
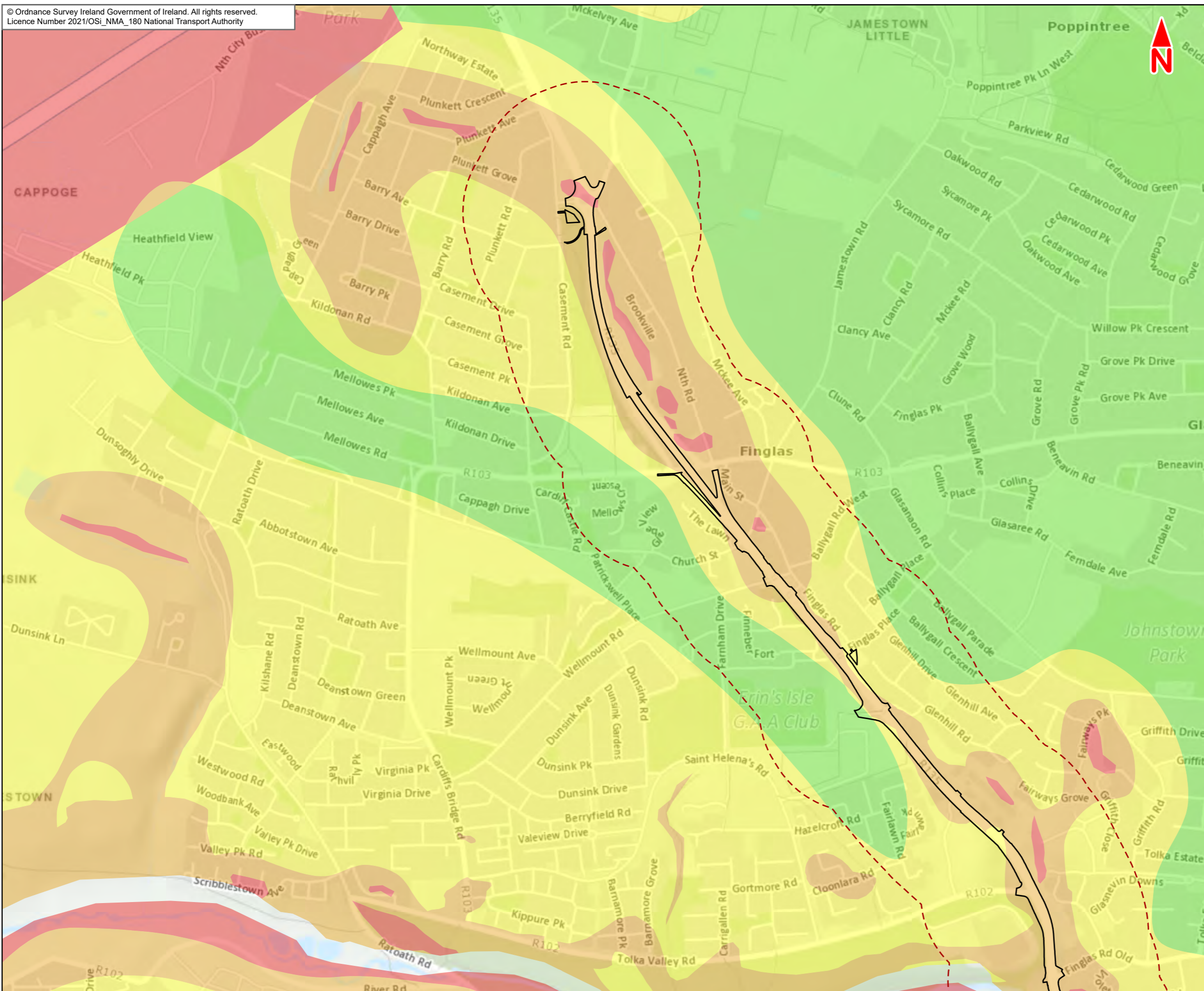


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Client
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Udarás Náisiúnta Iompair
National Transport Authority

Consultant
JACOBS
ARUP SYSTRA

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Ballymun / Finglas to City Centre Core Bus Corridor Scheme Figure 14.12 Crushed Rock Aggregate Potential				
Date 24/08/2022	Scale @ A3 1:10,000	Drawn FG	Checked PW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		Drawing File Name BCIDE-JAC-ENV_GT-0304_XX_00-DR-GG-0603
		Sheet Number 3 of 4	Status A	Rev M01



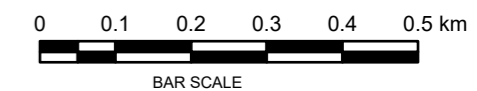
Legend :

- Ballymun / Finglas to City Centre Core Bus Corridor 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
M01	Aug 22	FG	PW	DK	ISSUE FOR PHASE 4 : PLANNING

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

Consultant: **JACOBS ARUP SYSTRA**

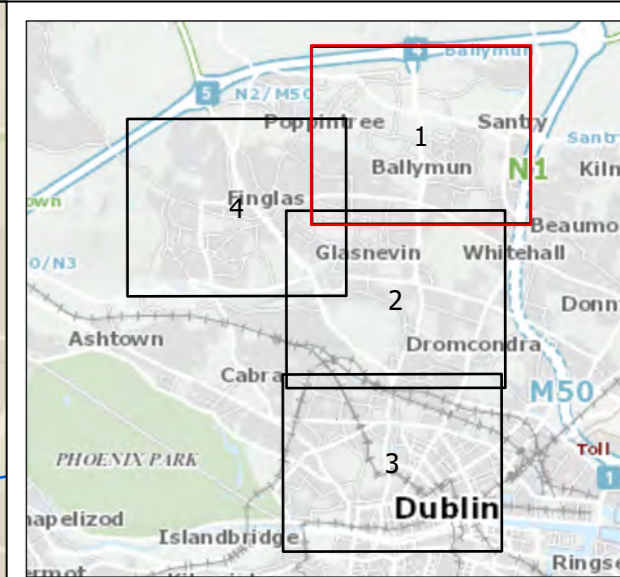
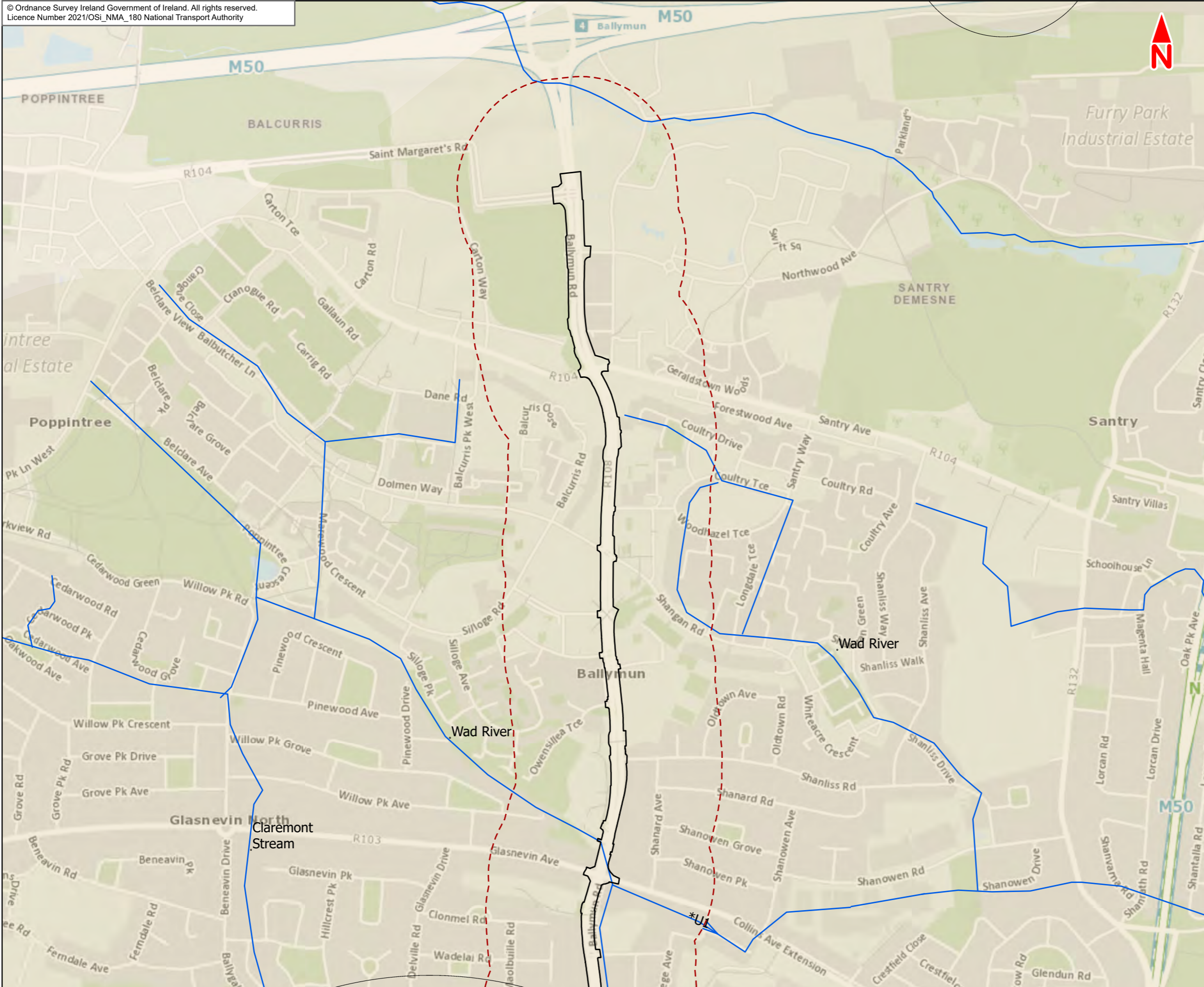
Date: 24/08/2022 Scale @ A3: 1:10,000
Project Code: BCIDE Originator Code: JAC

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

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: Ballymun / Finglas to City Centre Core Bus Corridor Scheme Figure 14.12 Crushed Rock Aggregate Potential			
Drawing File Name: BCIDE-JAC-ENV_GT-0304_XX_00-DR-GG-0604	Sheet Number: 4 of 4	Status: A	Rev: M01

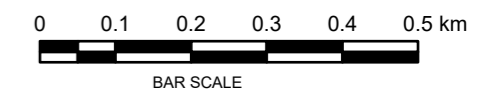
14.13
Aquifers





- Legend :**
- Ballymun / Finglas to City Centre Core Bus Corridor 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)
 - Poor Aquifer - Bedrock which is Generally Unproductive except for Local Zones (PI)

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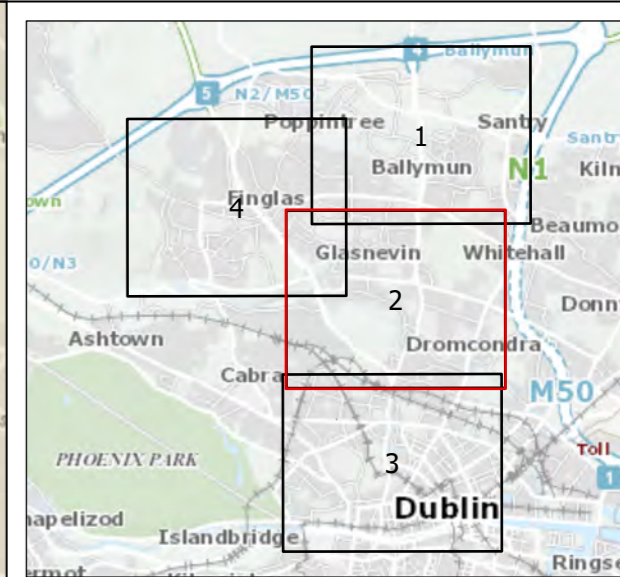
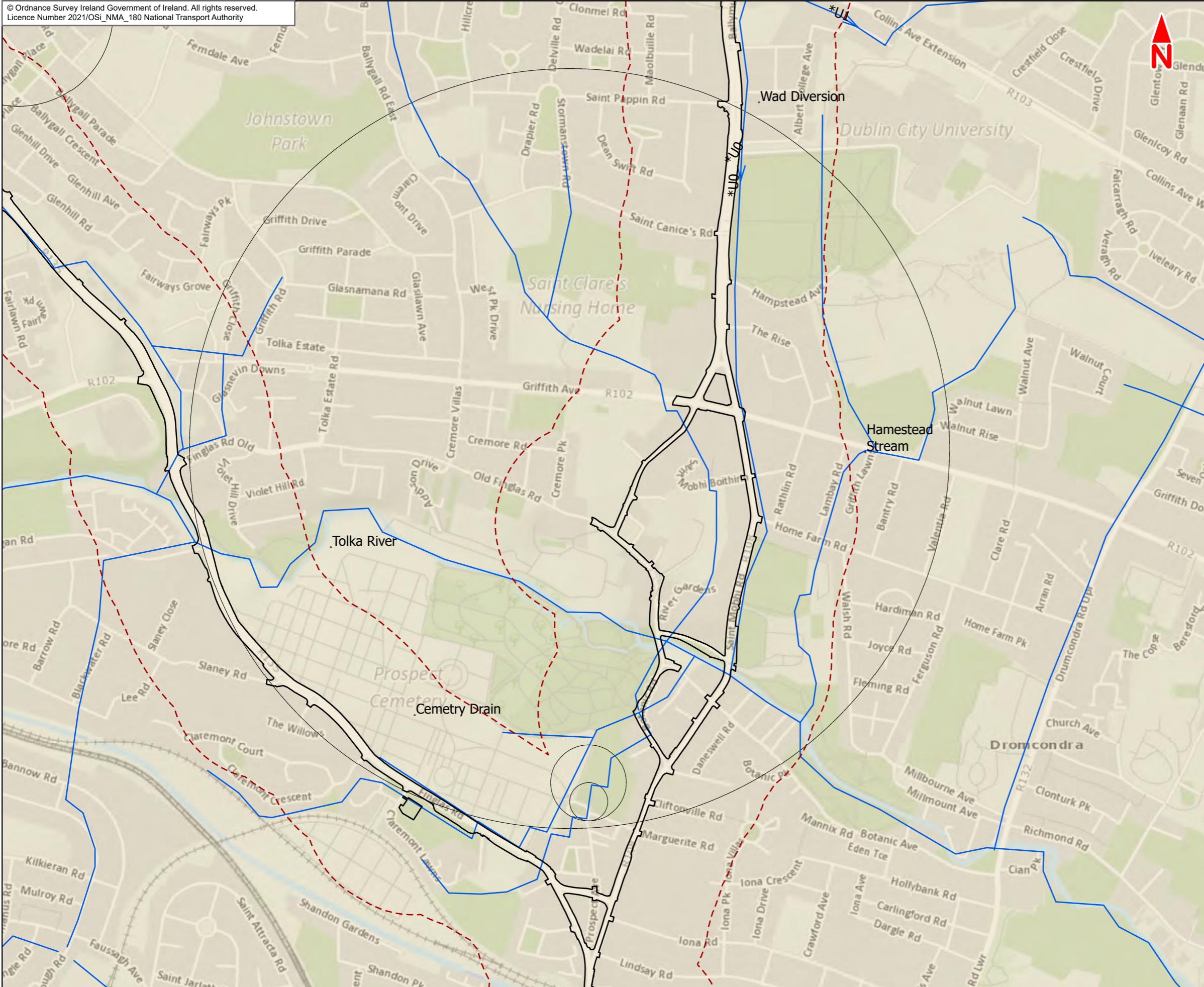
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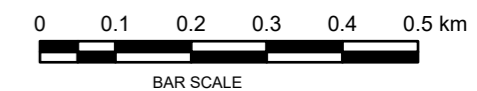
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24/08/2022	1:10,000	FG	PW	DK
Project Code	Originator Code	QMS Code		
BCIDE	JAC			

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Ballymun / Finglas to City Centre Core Bus Corridor Scheme Figure 14.13 Aquifers				
Drawing File Name	Sheet Number	Status	Rev	
BCIDE-JAC-ENV_GT-0304_XX_00-DR-GG-0701	1 of 4	A	M01	



- Legend :**
- Ballymun / Finglas to City Centre Core Bus Corridor 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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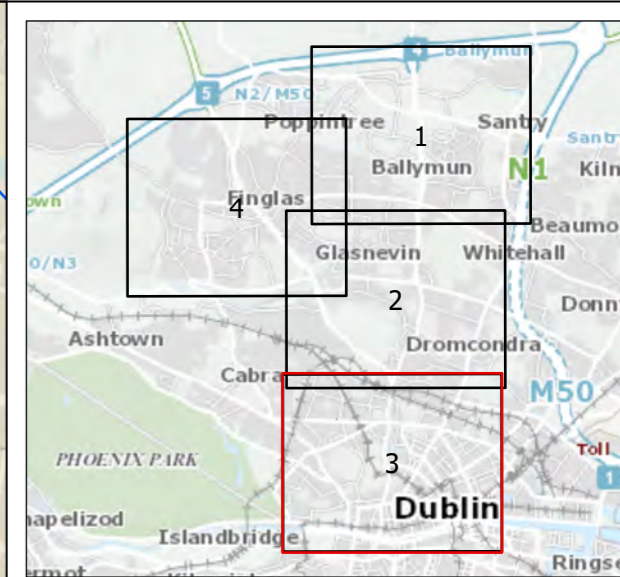
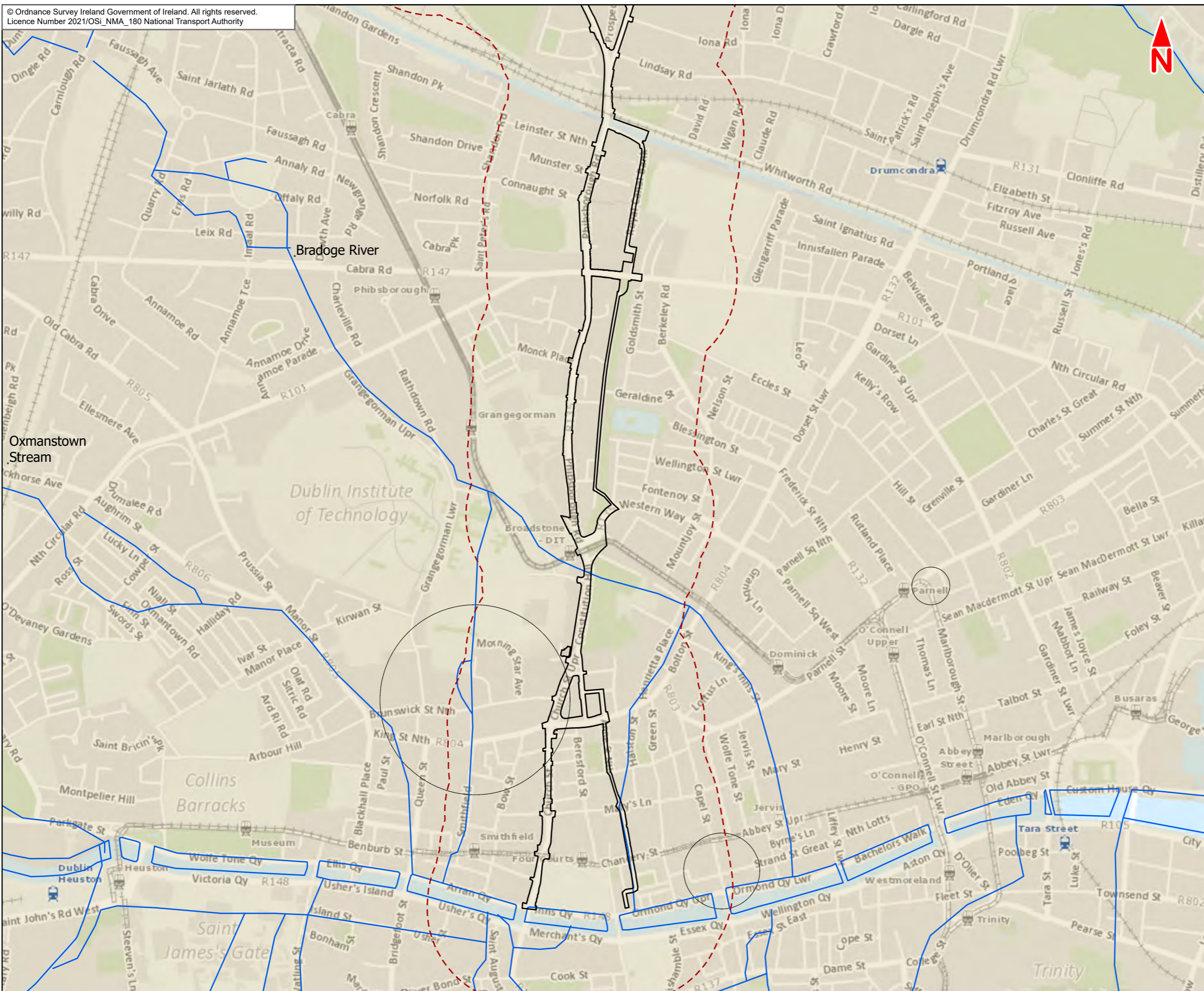


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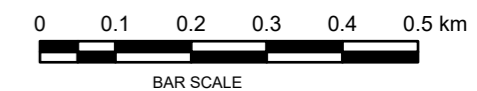
Consultant
JACOBS ARUP SYSTRA

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Ballymun / Finglas to City Centre Core Bus Corridor Scheme Figure 14.13 Aquifers				
Date 24/08/2022	Scale @ A3 1:10,000	Drawn FG	Checked PW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code	Sheet Number 2 of 4	Status A
Drawing File Name BCIDE-JAC-ENV_GT-0304_XX_00-DR-GG-0702	Rev M01			



- Legend :**
- Ballymun / Finglas to City Centre Core Bus Corridor 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)

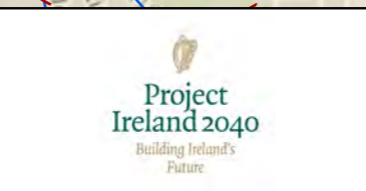
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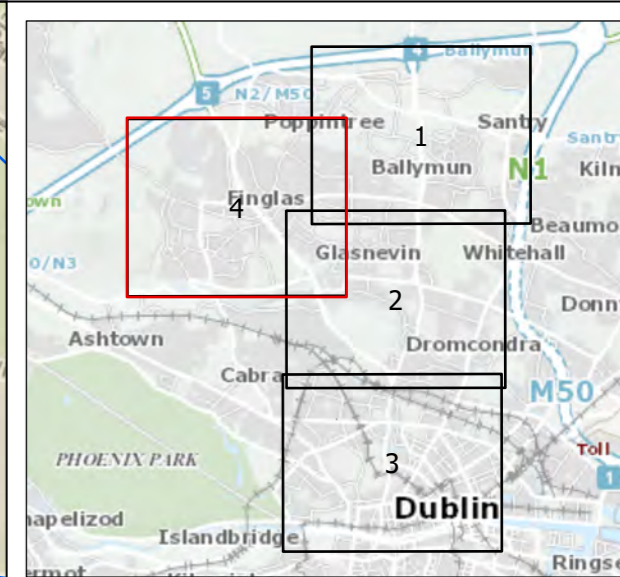
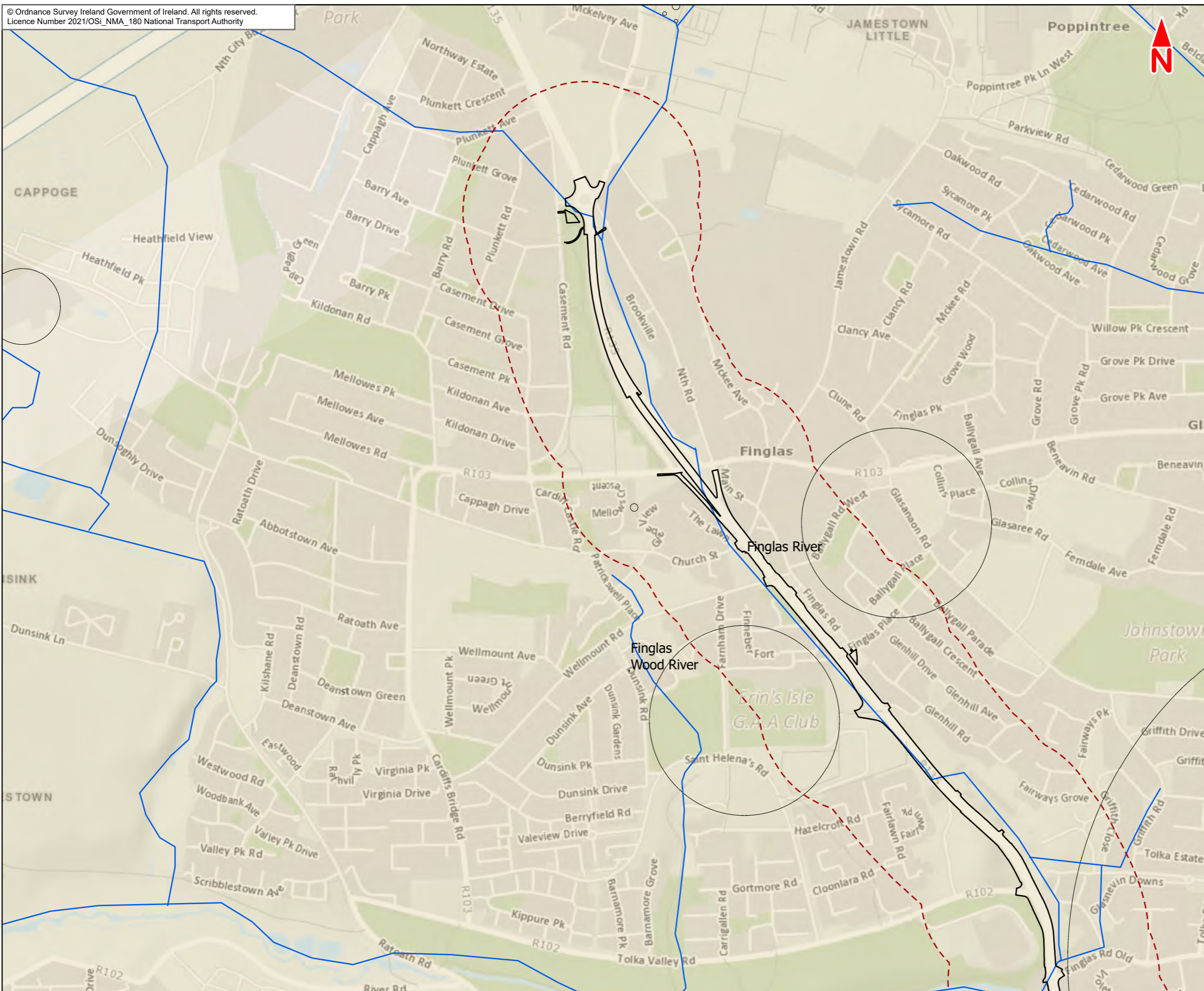


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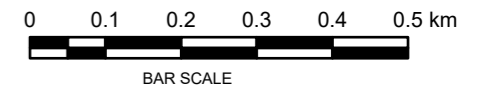
Consultant
JACOBS ARUP SYSTRA

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Ballymun / Finglas to City Centre Core Bus Corridor Scheme Figure 14.13 Aquifers				
Date 24/08/2022	Scale @ A3 1:10,000	Drawn FG	Checked PW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code	Sheet Number 3 of 4	Status A
Drawing File Name BCIDE-JAC-ENV_GT-0304_XX_00-DR-GG-0703	Rev M01			



- Legend :**
- Ballymun / Finglas to City Centre Core Bus Corridor 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)
 - Poor Aquifer - Bedrock which is Generally Unproductive except for Local Zones (PI)

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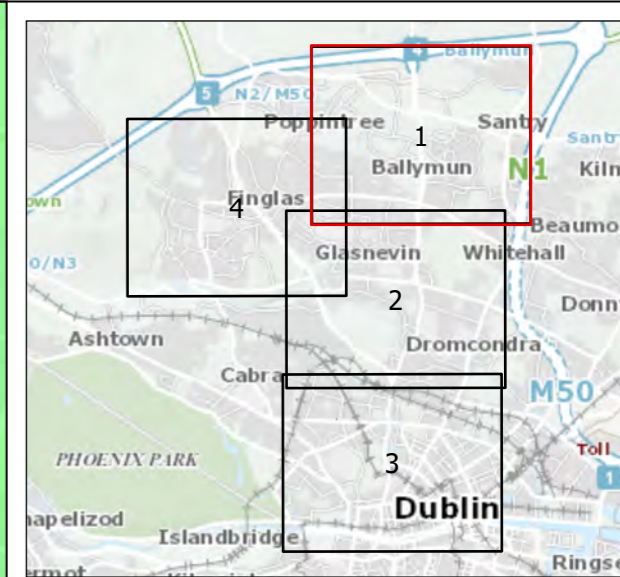
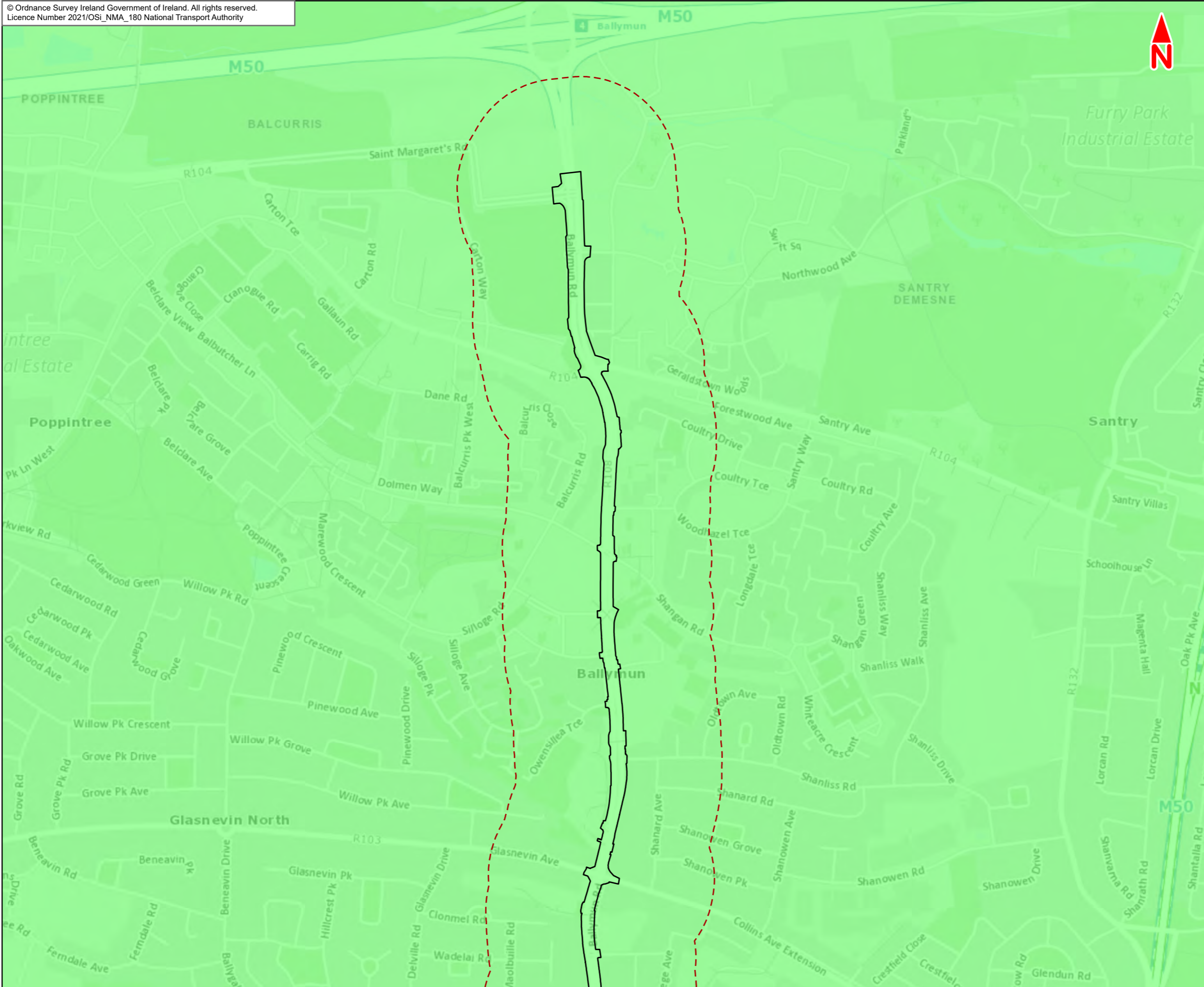
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M01	Aug 22	FG	PW	DK	ISSUE FOR PHASE 4 : PLANNING

Date	Scale @ A3	Drawn	Checked	Approved
24/08/2022	1:10,000	FG	PW	DK
Project Code	Originator Code	QMS Code		
BCIDE	JAC			

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Ballymun / Finglas to City Centre Core Bus Corridor Scheme Figure 14.13 Aquifers				
Drawing File Name	Sheet Number	Status	Rev	
BCIDE-JAC-ENV_GT-0304_XX_00-DR-GG-0704	4 of 4	A	M01	

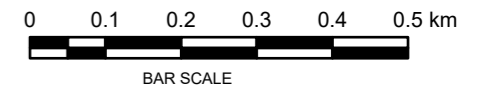
14.14
Groundwater Vulnerability





- Legend :**
- Ballymun / Finglas to City Centre Core Bus Corridor Scheme
 - 250m Study Area
 - GS1 National Groundwater Vulnerability**
 - Low

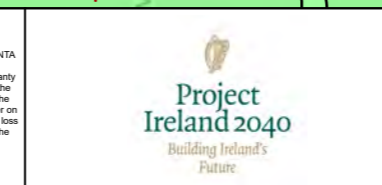
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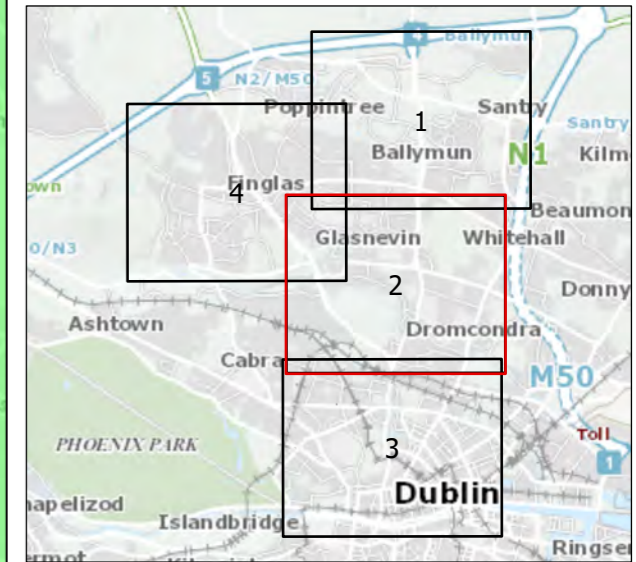
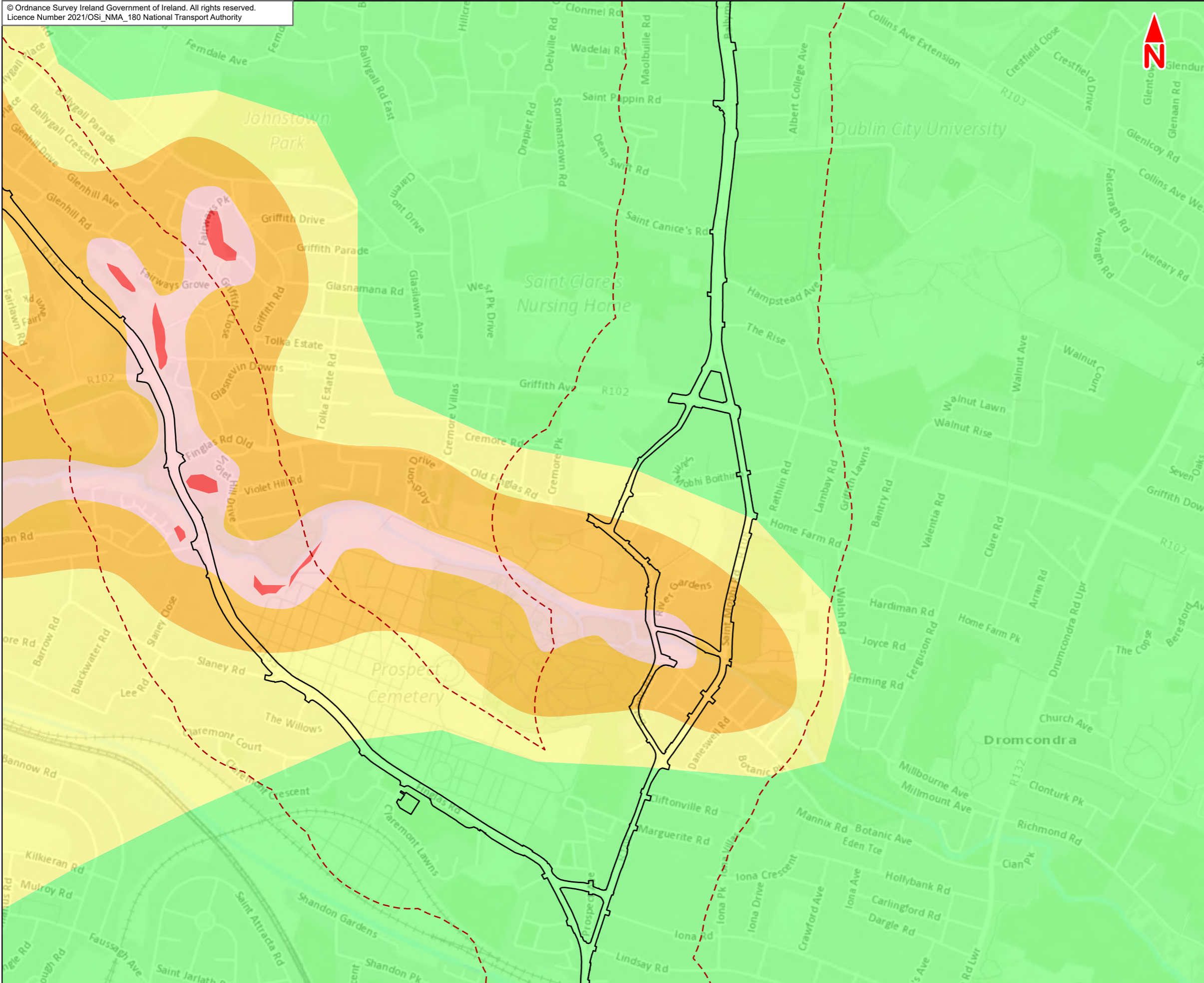
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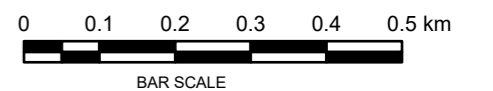
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Project Code	BCIDE	Originator Code	JAC	Checked	PW
				Approved	DK
				QMS Code	

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS					
Drawing Title Ballymun / Finglas to City Centre Core Bus Corridor Scheme Figure 14.14 Groundwater Vulnerability					
Drawing File Name	BCIDE-JAC-ENV_GT-0304_XX_00-DR-GG-0801	Sheet Number	1 of 4	Status	A
Rev	M01				



- Legend :**
- Ballymun / Finglas to City Centre Core Bus Corridor Scheme
 - 250m Study Area
 - GSI National Groundwater Vulnerability**
 - Extreme (X) Rock at/close to surface or Karst
 - Extreme
 - High
 - Moderate
 - Low

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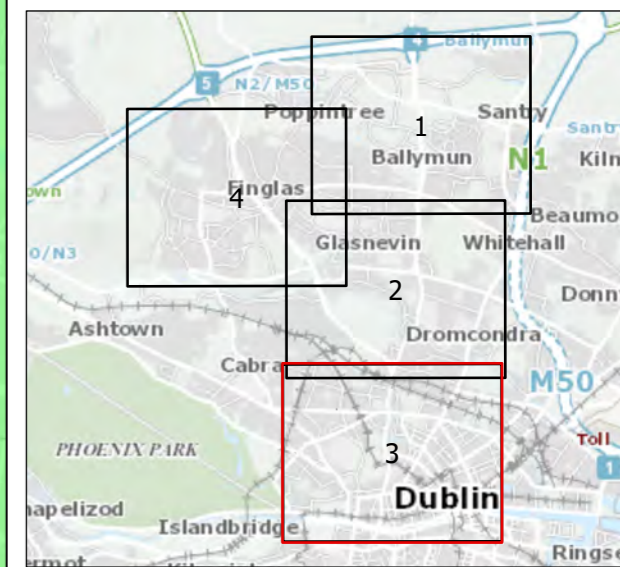
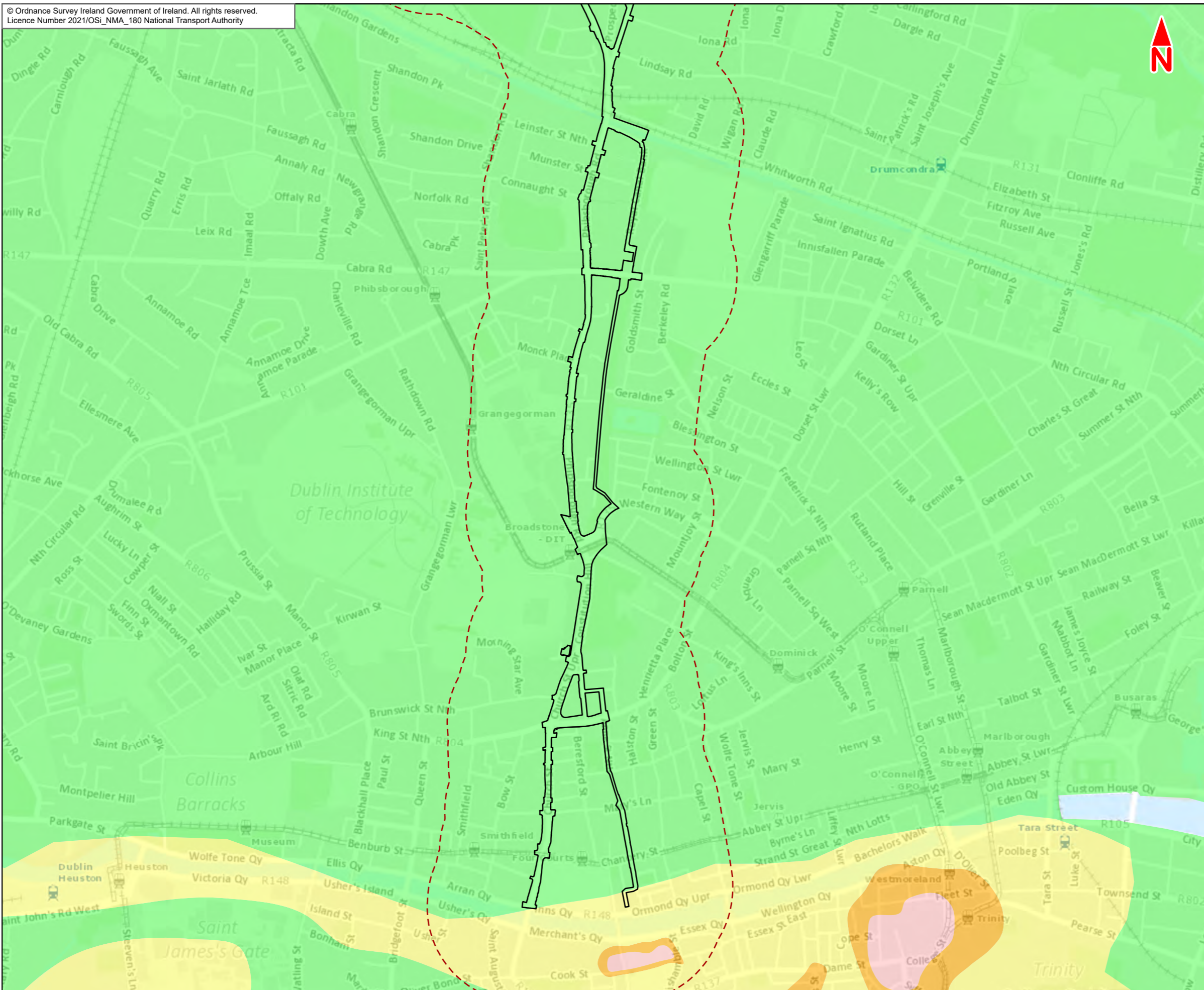
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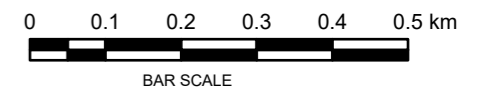
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				Approved	DK
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Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS					
Drawing Title Ballymun / Finglas to City Centre Core Bus Corridor Scheme Figure 14.14 Groundwater Vulnerability					
Drawing File Name	BCIDE-JAC-ENV_GT-0304_XX_00-DR-GG-0802	Sheet Number	2 of 4	Status	A
Rev	M01				



- Legend :**
- Ballymun / Finglas to City Centre Core Bus Corridor Scheme
 - 250m Study Area
 - GSI National Groundwater Vulnerability**
 - Extreme
 - High
 - Moderate
 - Low

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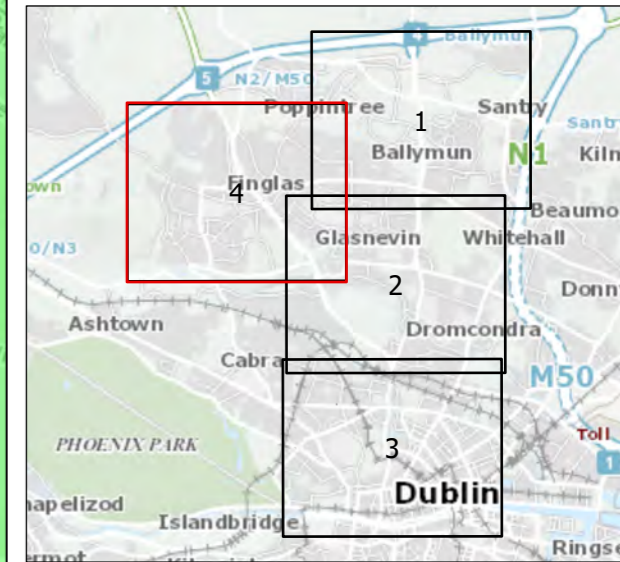
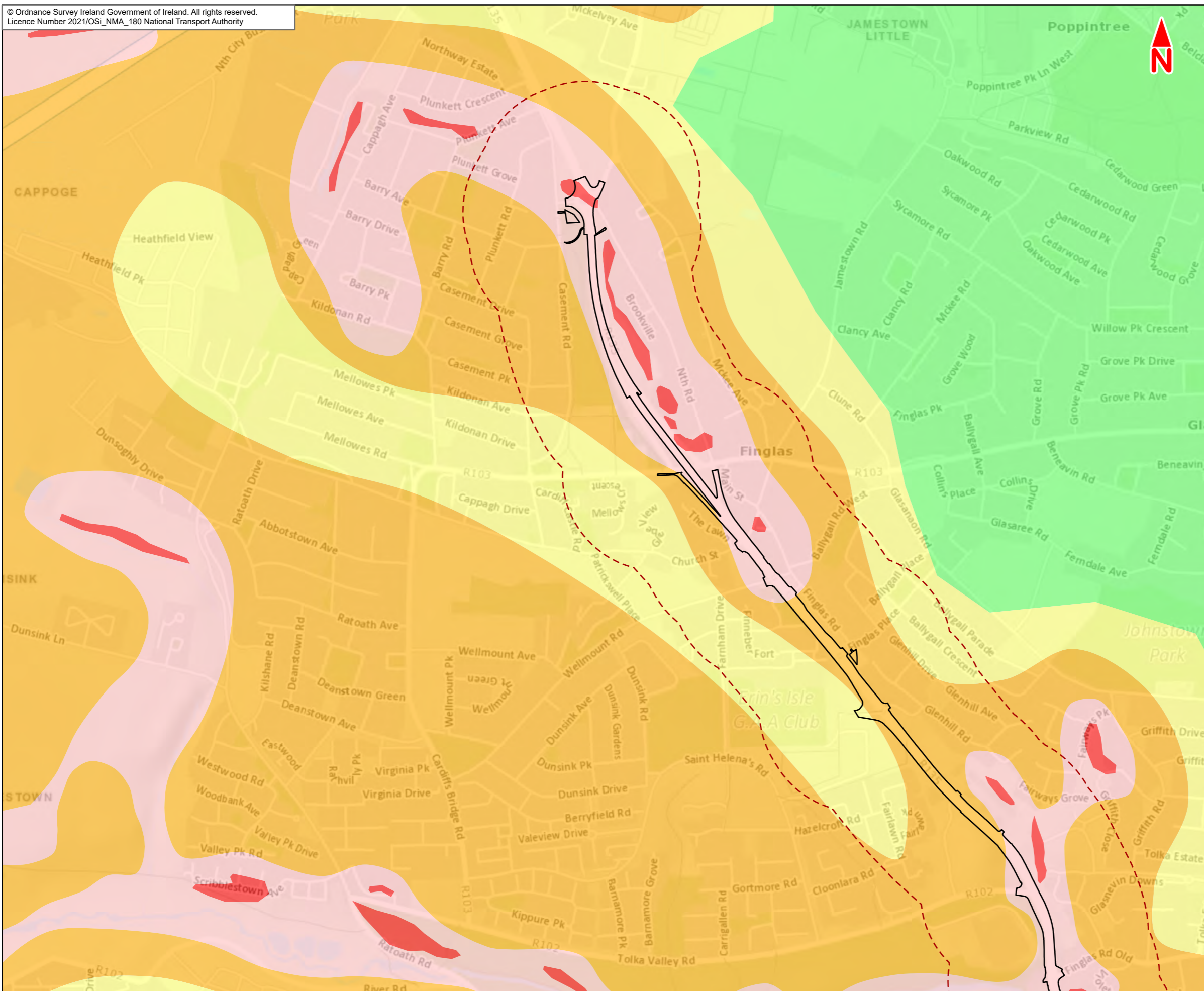
Rev	Date	Drn	Chk'd	App'd	Description
M01	Aug 22	FG	PW	DK	ISSUE FOR PHASE 4 : PLANNING

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

Consultant: **JACOBS ARUP SYSTRA**

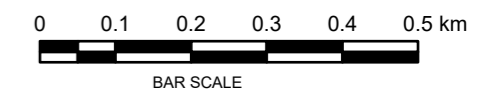
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 Project Code: BCIDE | Originator Code: JAC | QMS Code:

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: Ballymun / Finglas to City Centre Core Bus Corridor Scheme Figure 14.14 Groundwater Vulnerability			
Drawing File Name: BCIDE-JAC-ENV_GT-0304_XX_00-DR-GG-0803	Sheet Number: 3 of 4	Status: A	Rev: M01



- Legend :**
- Ballymun / Finglas to City Centre Core Bus Corridor Scheme
 - 250m Study Area
 - GSI National Groundwater Vulnerability**
 - Extreme (X) Rock at/close to surface or Karst
 - Extreme
 - High
 - Moderate
 - Low

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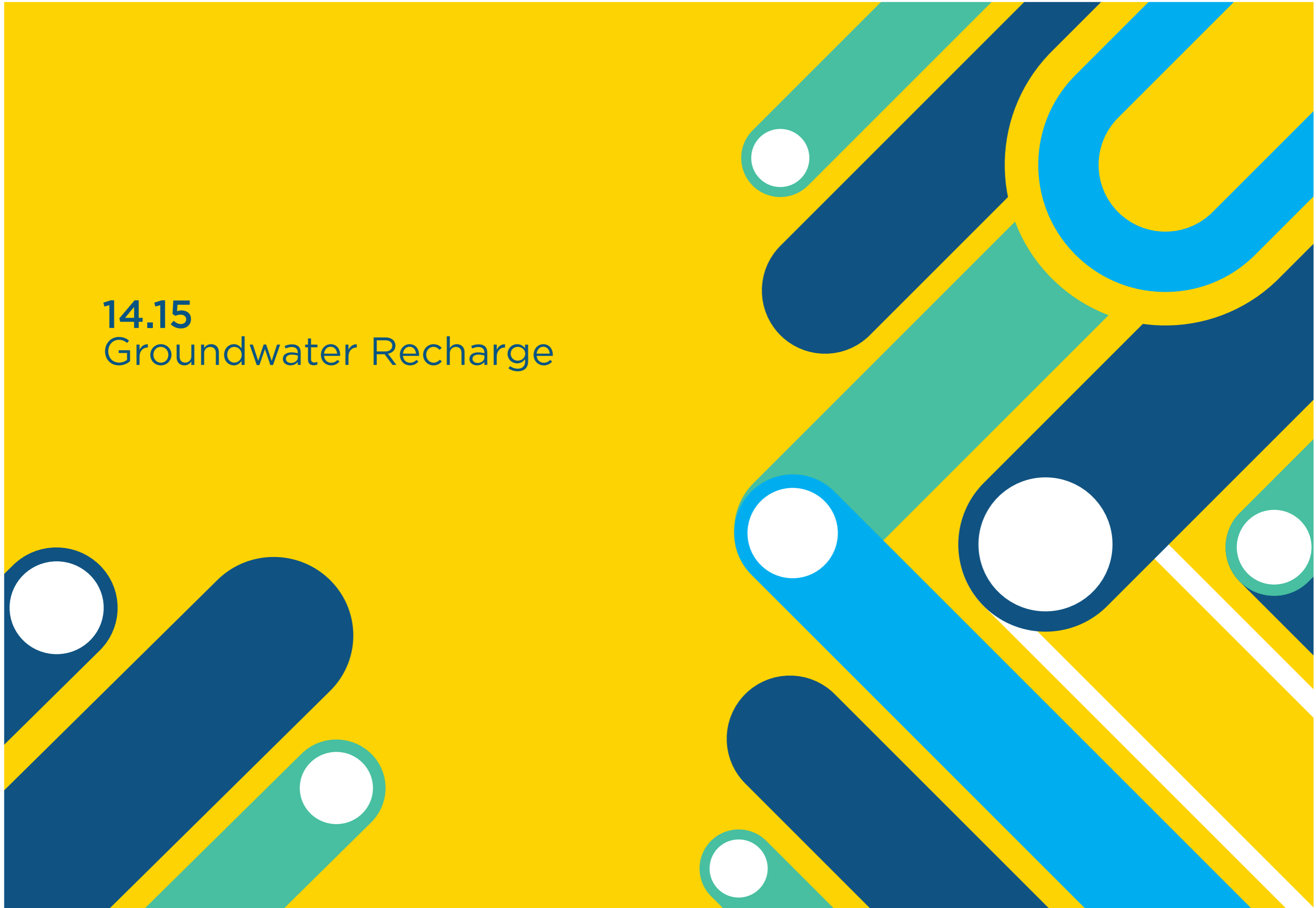


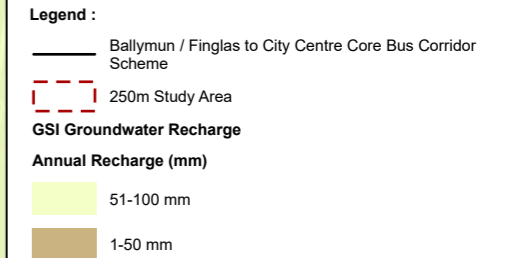
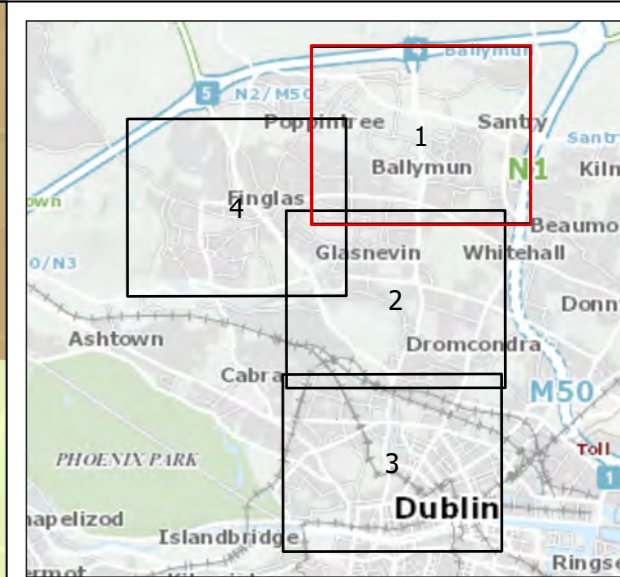
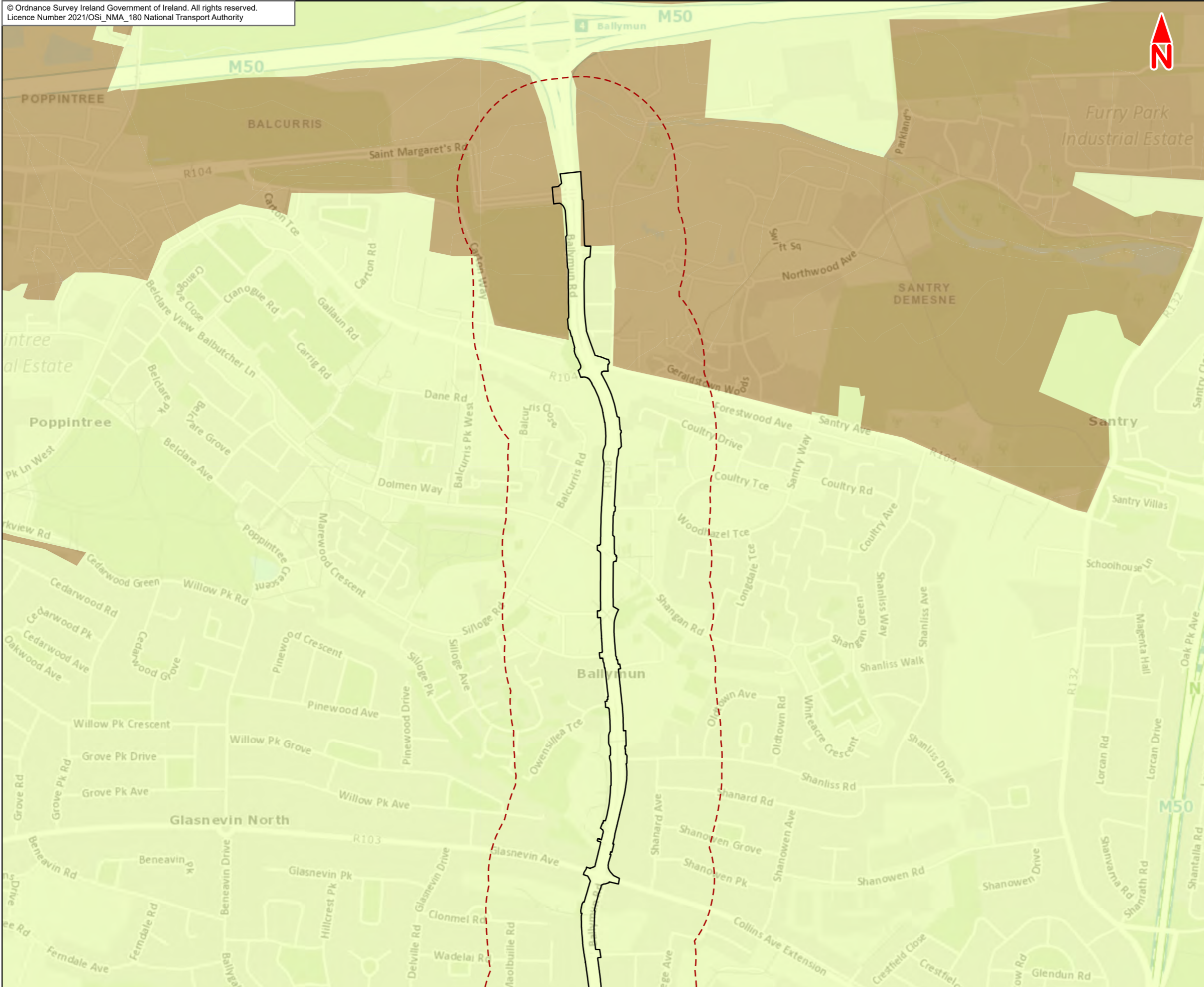
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Date	24/08/2022	Scale @ A3	1:10,000	Drawn	FG
Project Code	BCIDE	Originator Code	JAC	Checked	PW
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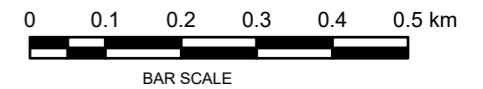
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Drawing Title Ballymun / Finglas to City Centre Core Bus Corridor Scheme Figure 14.14 Groundwater Vulnerability					
Drawing File Name	BCIDE-JAC-ENV_GT-0304_XX_00-DR-GG-0804	Sheet Number	4 of 4	Status	A
Rev	M01				

14.15
Groundwater Recharge





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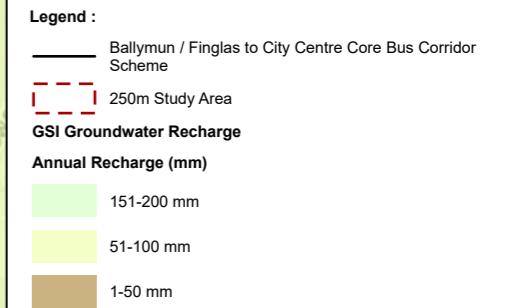
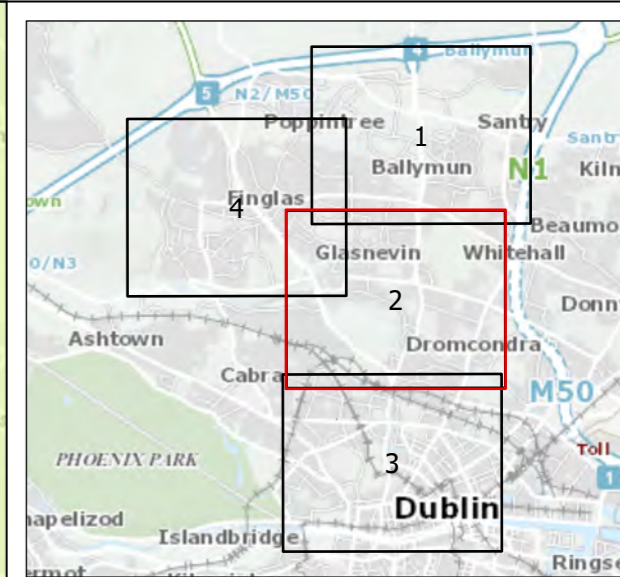
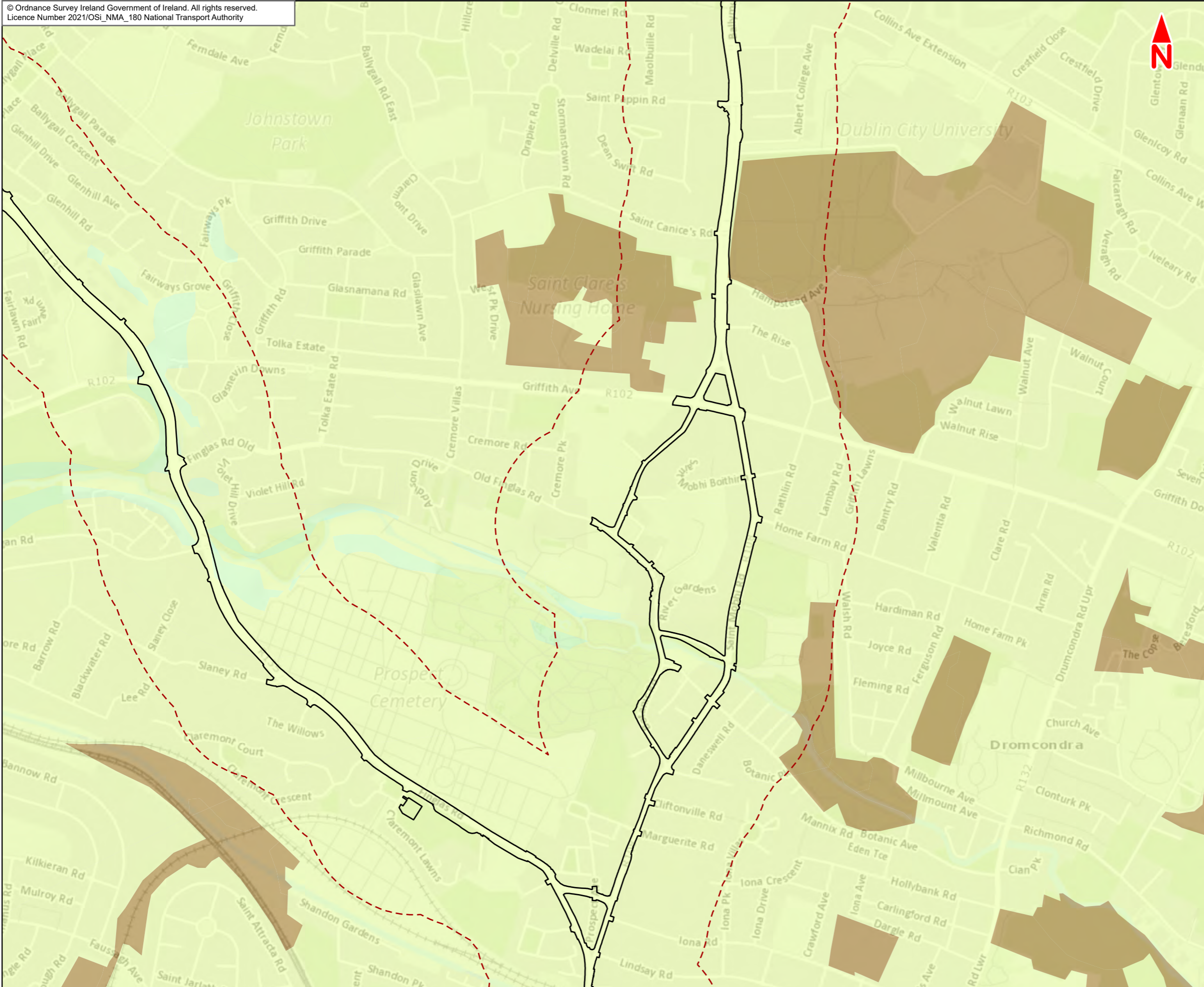
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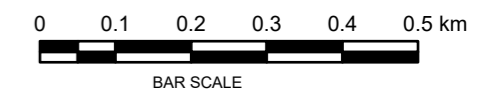
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Date	24/08/2022	Scale @ A3	1:10,000	Drawn	FG	Checked	PW	Approved	DK
Project Code	BCIDE	Originator Code	JAC	QMS Code					

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS							
Drawing Title Ballymun / Finglas to City Centre Core Bus Corridor Scheme Figure 14.15 Groundwater Recharge							
Drawing File Name	BCIDE-JAC-ENV_GT-0304_XX_00-DR-GG-0901	Sheet Number	1 of 4	Status	A	Rev	M01



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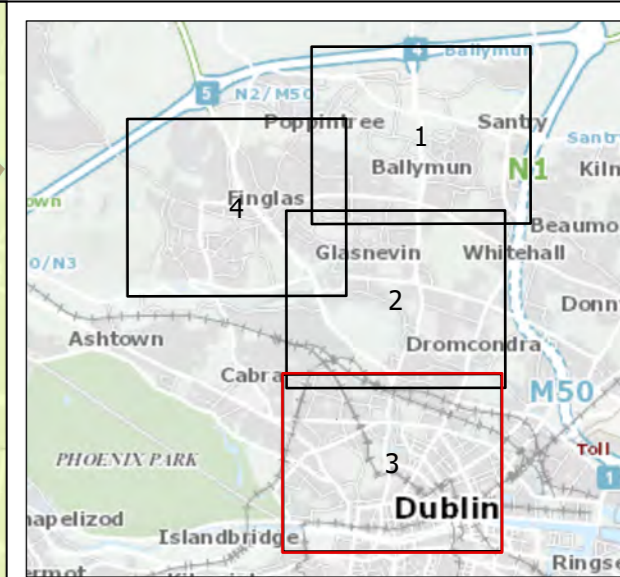
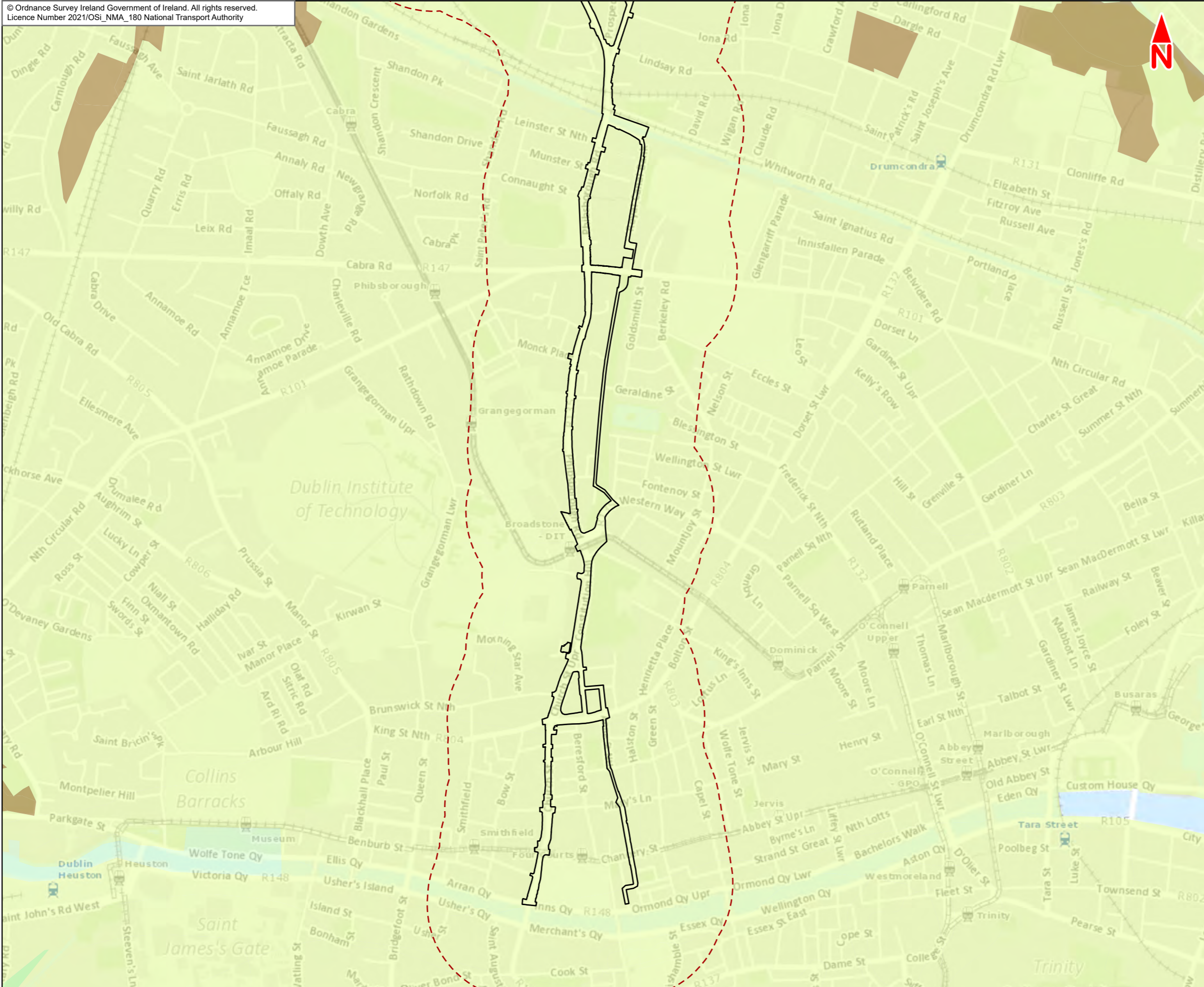
Client: **NTA**
Udarás Náisiúnta Iompair
National Transport Authority

Consultant: **JACOBS ARUP SYSTRA**

Date: 24/08/2022 | Scale @ A3: 1:10,000
Project Code: BCIDE | Originator Code: JAC

Drawn: FG | Checked: PW | Approved: DK
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Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: Ballymun / Finglas to City Centre Core Bus Corridor Scheme Figure 14.15 Groundwater Recharge			
Drawing File Name: BCIDE-JAC-ENV_GT-0304_XX_00-DR-GG-0902	Sheet Number: 2 of 4	Status: A	Rev: M01



Legend :

- Ballymun / Finglas to City Centre Core Bus Corridor 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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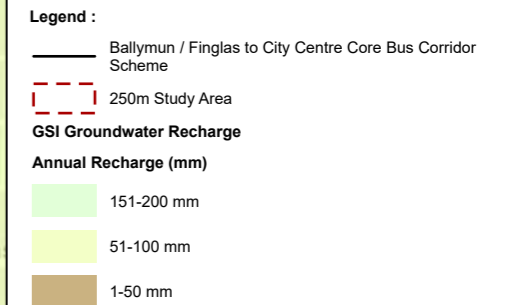
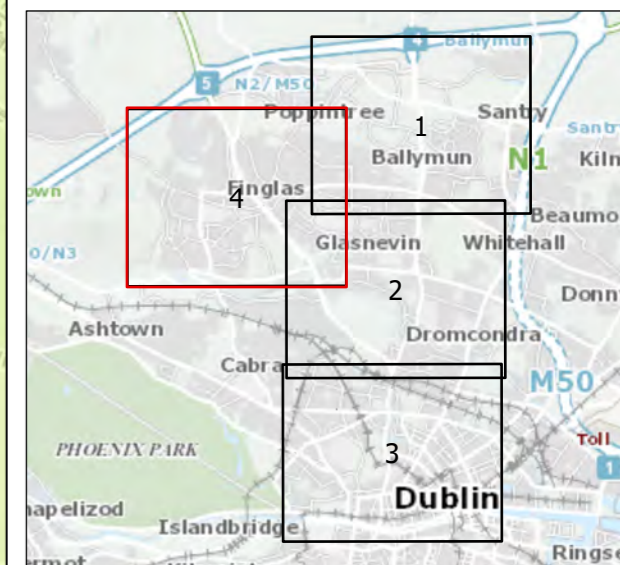
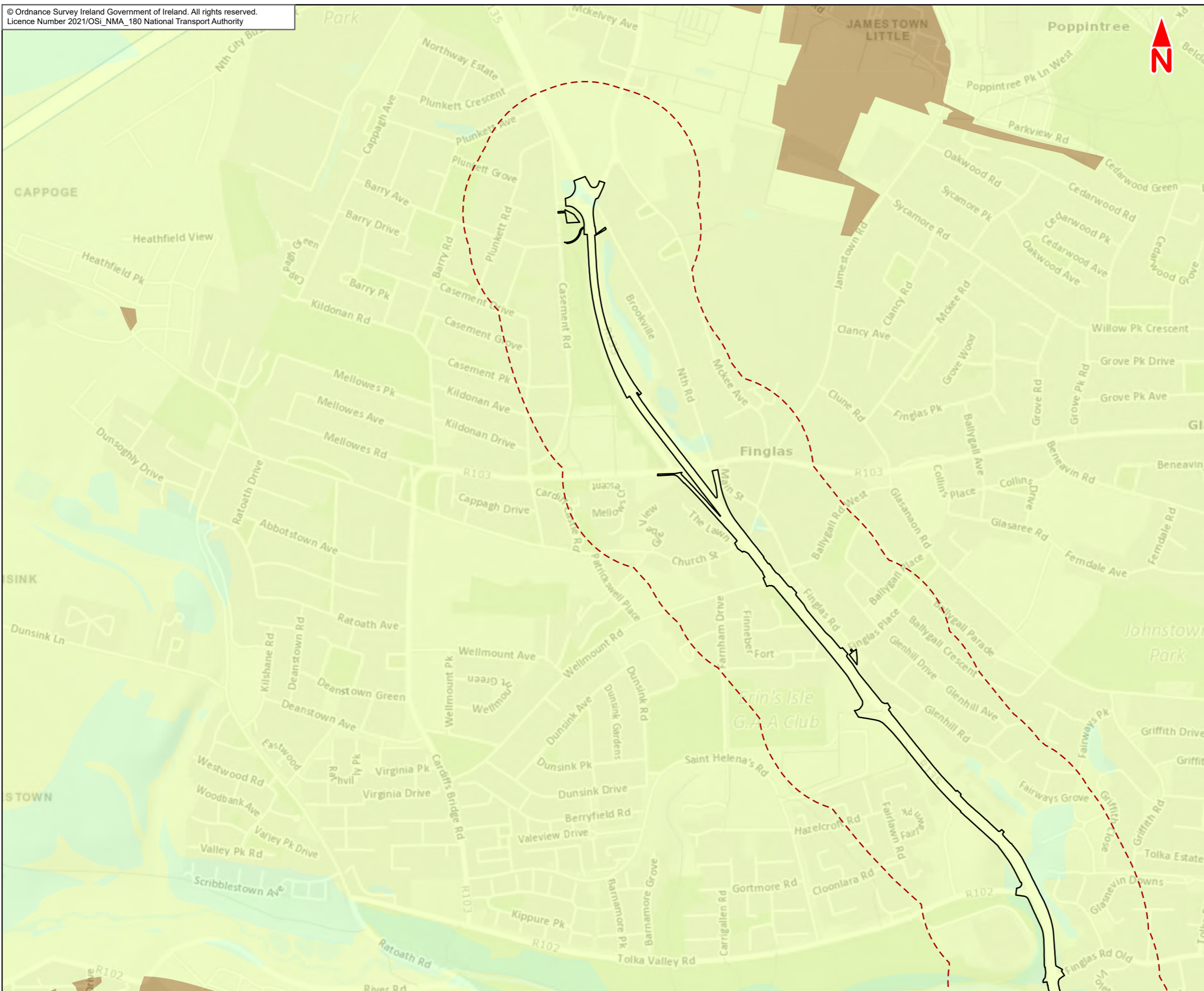


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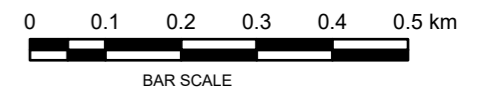
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Udarás Náisiúnta Iompair
National Transport Authority

Consultant
JACOBS
ARUP SYSTRA

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Ballymun / Finglas to City Centre Core Bus Corridor Scheme Figure 14.15 Groundwater Recharge				
Date 24/08/2022	Scale @ A3 1:10,000	Drawn FG	Checked PW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code	Sheet Number 3 of 4	Status A
Drawing File Name BCIDE-JAC-ENV_GT-0304_XX_00-DR-GG-0903	Rev M01			



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				Approved	DK

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
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Drawing File Name	BCIDE-JAC-ENV_GT-0304_XX_00-DR-GG-0904	Sheet Number	4 of 4
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