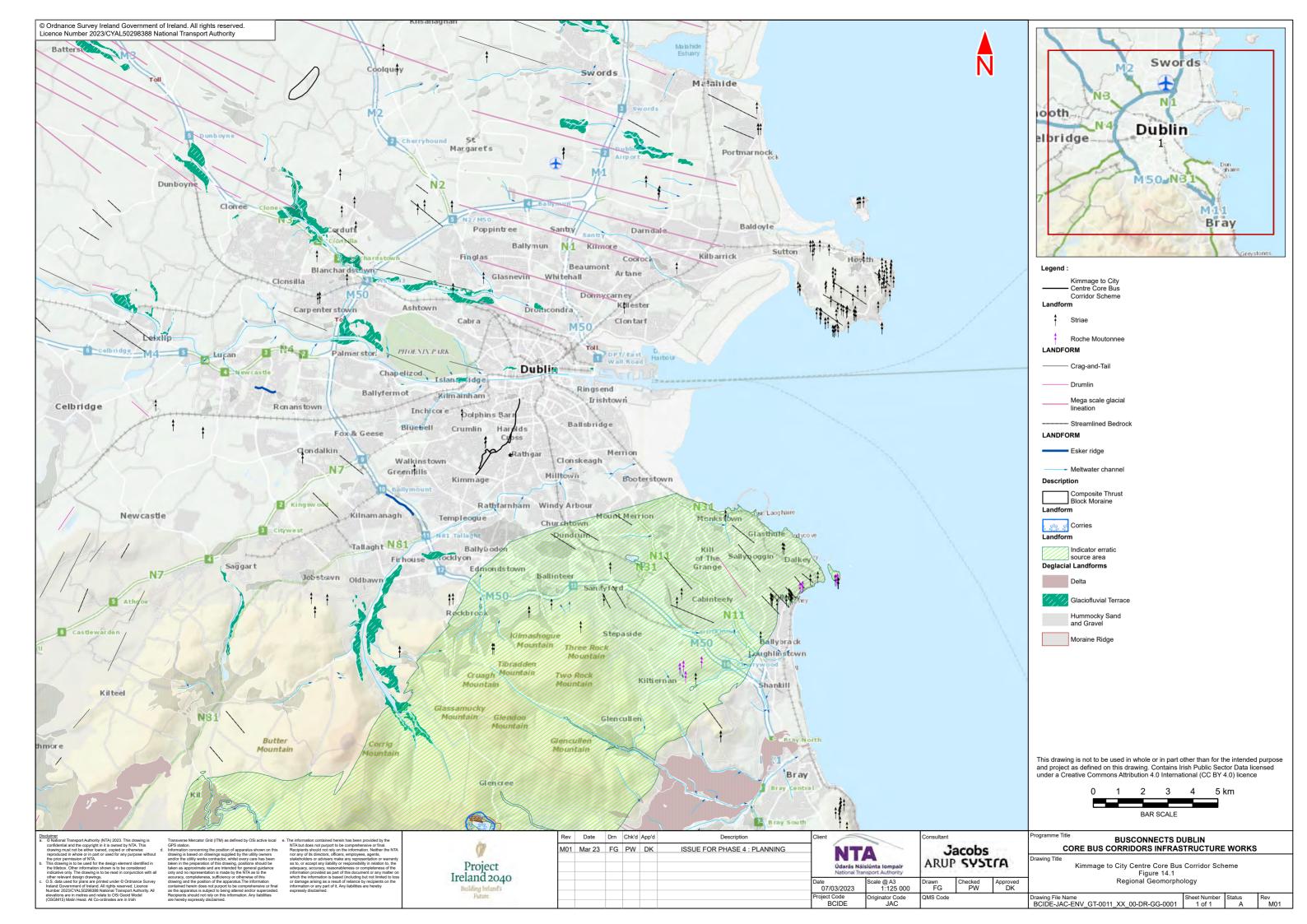
### **14.1** Regional Geomorphology



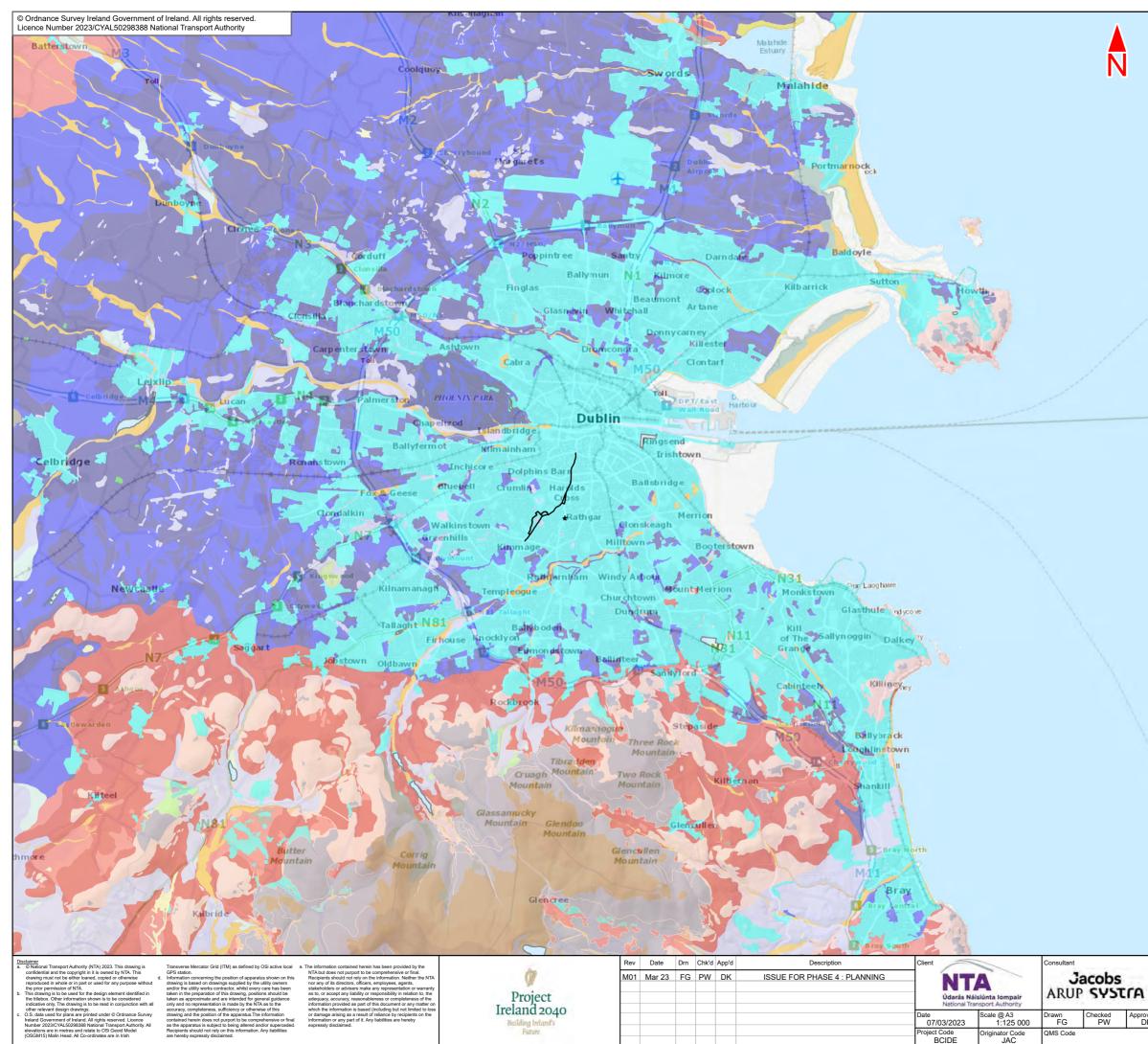




## **14.2** Regional Soils











#### Legend :

Kimmage to City Centre Core Bus Corridor Scheme

#### Teagasc Soils

AeoUND - Aeolian Undifferentiated AlluvMIN - Mineral

alluvium AminDW - Acid Brown Earths / Brown

Podzolics

AminPD - Surface water Gleys / Ground water Gleys Acidic

AminPDPT - Peaty Gleys Acidic

AminSP - Surface water Gleys / Ground water Gleys Shallow

AminSRPT - Podzols Peaty

AminSW - Lithosols / Regosols

BktPt - Blanket peat

BminDW - Grey Brown Podzolics Brown Earths Basic



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#### Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS

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Programme Title

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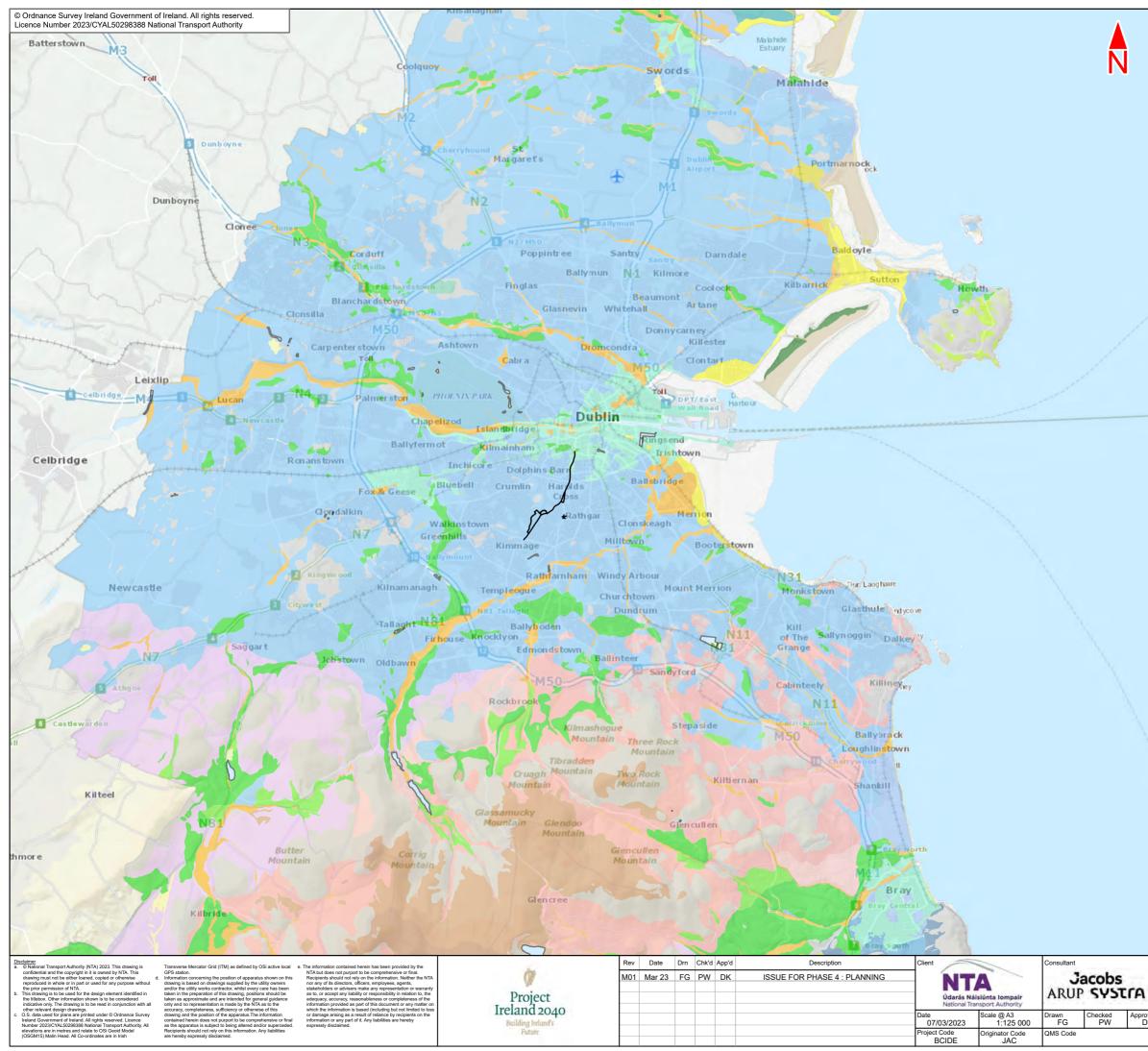
Kimmage to City Centre Core Bus Corridor Scheme Figure 14.2 Regional Soils

Drawing File Name	Sheet Number	Status	Rev
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## **14.3** Regional Subsoils













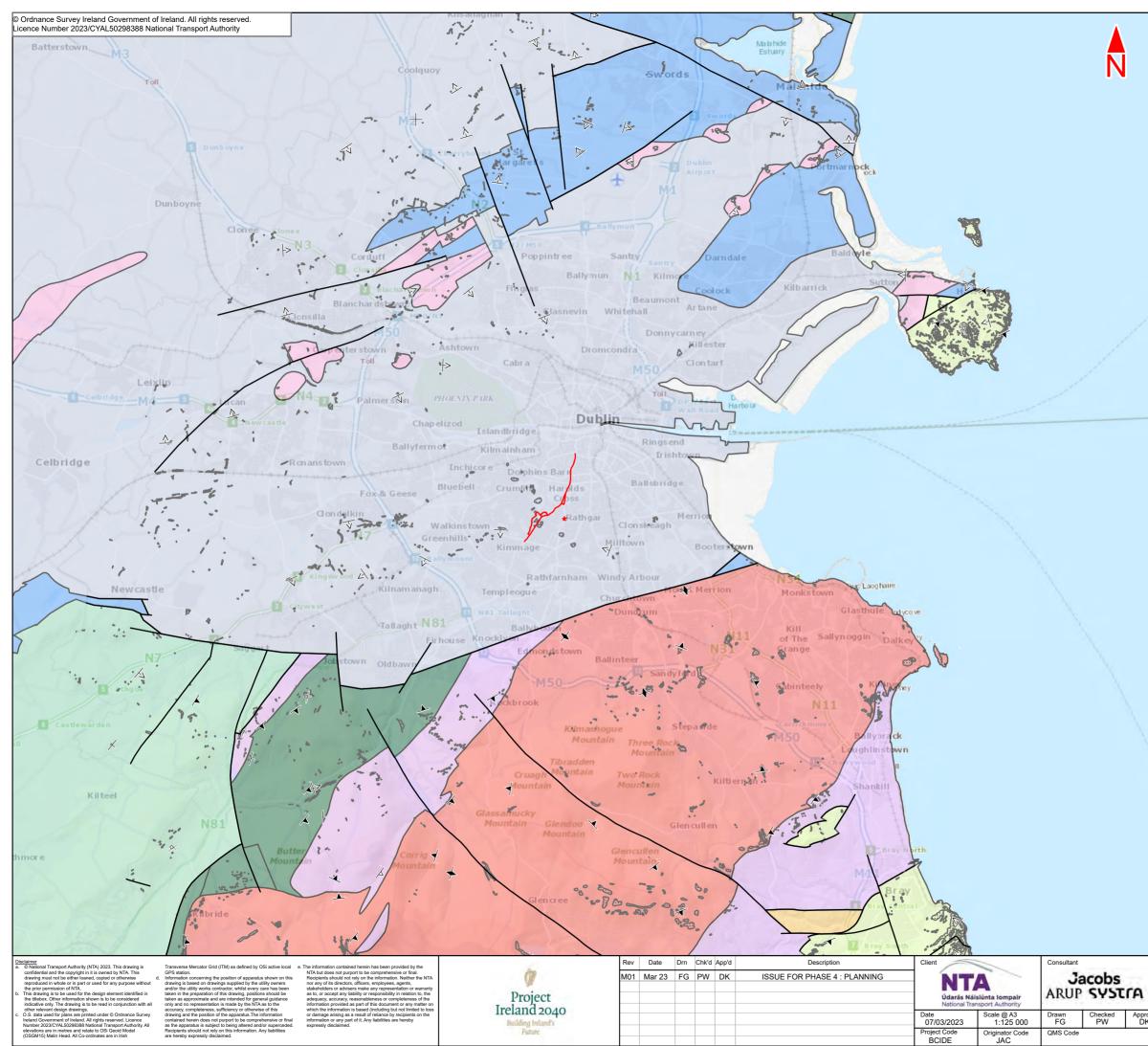
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Approved DK

## **14.4** Regional Bedrock







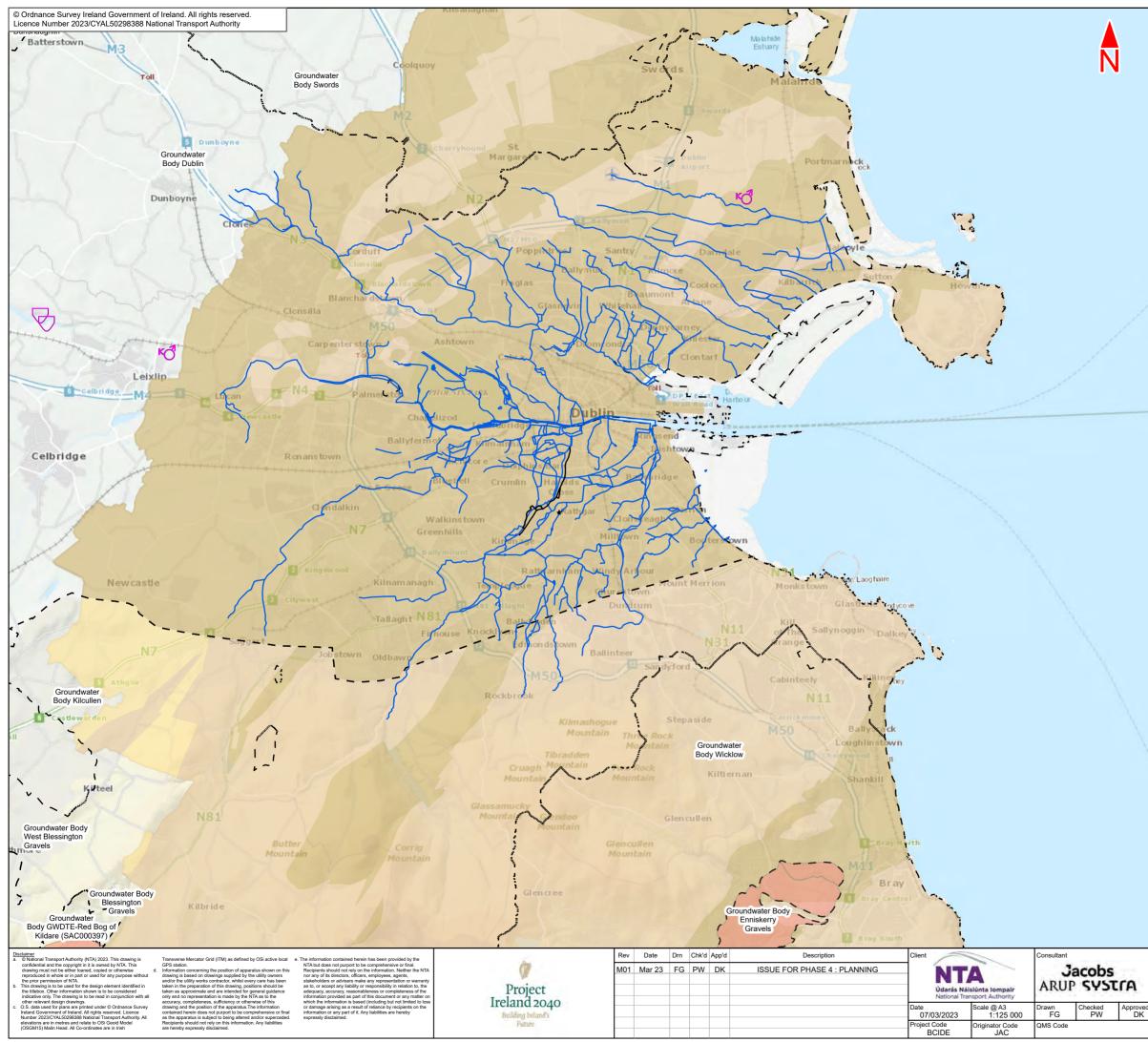
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	NB Swords NI m nooth N4 Dublin I Dublin M50 NB1 Du mare M11 Bray
1	Legend :
1	Kimmage to City Centre Core Bus Corridor Scheme
1	GSI Bedrock Geological Faults - 1:500,000
	GSI Bedrock Structural Symbols - 1:100,000
	First foliation parallel to bedding
	Horizontal Bedding
	Strike and dip of bedding, right way up
	- Strike and dip of bedding, way up unknown
	<ul> <li>Strike and dip of first foliation</li> </ul>
	Strike and dip of overturned bedding
	<ul> <li>Strike and dip of second foliation</li> </ul>
	Strike of vertical first foliation      SSI Redrock Outcrop 1:100 000
	GSI Bedrock Outcrop - 1:100,000
	GSI Bedrock Outcrop - 1:100,000 GSI Bedrock Geology - 1:500,000
	Visean basinal limestone "Calp"
	Waulsortian mudbank
	Courceyan limestone
	Up Dev-Lr Carb ORS
	Caledonian granite
	Silurian sandstone, g'wacke, shale
	Mid-Up Ordovician basic volcanics
1	Lr-Mid Ordovician slate
1	Lr-Mid Ordovocian acid volcanics
7	
	Lr-Mid Ordovician basic volcanics
	Cambrian greywacke, sandst, qtzite
	This drawing is not to be used in whole or in part other than for the intended purpose
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H	Kimmage to City Centre Core Bus Corridor Scheme Figure 14.4
Approved DK	Regional Bedrock
	Drawing File Name         Sheet Number         Status         Rev           BCIDE-JAC-ENV_GT-0011_XX_00-DR-GG-0004         1 of 1         A         M01

## **14.5** Regional Aquifers







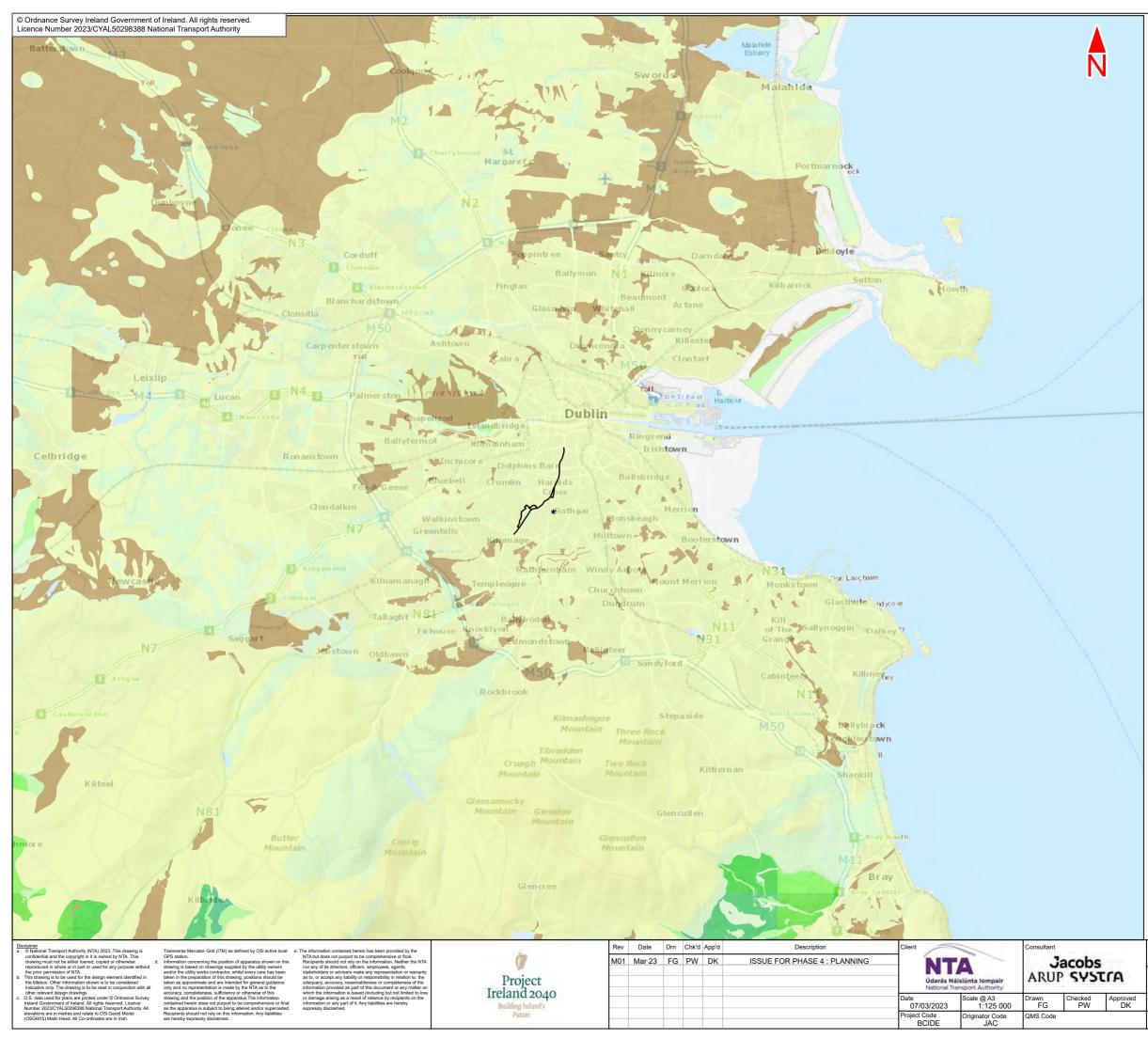


_	
	Swords N Swords N N N M N Dublin Bray Crystores
1	Legend :
	Kimmage to City Centre Core Bus Corridor Scheme
	Rivers Of Dublin
	GSI Sand And Gravel Aquifers
	Groundwater Bodies - Water Framework Directive
	GSI Karst
	CAVE
	GSI Bedrock Aquifer
	Locally Important Aquifer - Bedrock which is
	Moderately 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)
	This drawing is not to be used in whole or in part other than for the intended purpose and project as defined on this drawing. Contains Irish Public Sector Data licensed under a Creative Commons Attribution 4.0 International (CC BY 4.0) licence 0 1 2 3 4 5  km $BAR SCALE$
	Programme Title BUSCONNECTS DUBLIN
	CORE BUS CORRIDORS INFRASTRUCTURE WORKS
	Drawing Title Kimmage to City Centre Core Bus Corridor Scheme
i	Figure 14.5 Regional Aquifers
_	Drawing File Name Sheet Number Status Rev

## **14.6** Regional Groundwater Recharge

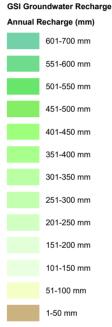












- Kimmage to City Centre Core Bus Corridor Scheme

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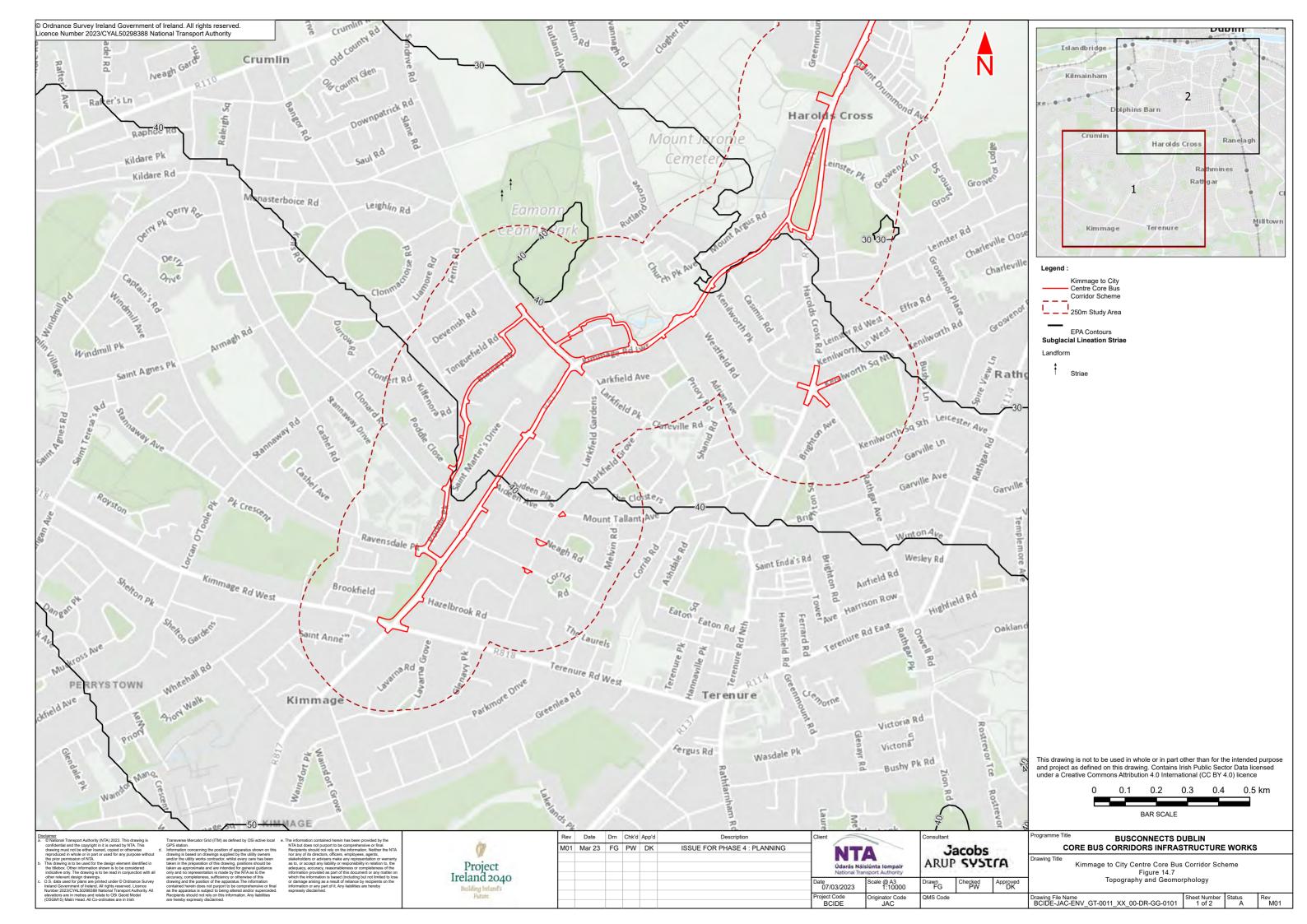
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TA	Drawing Title	Kimmage to City Centre Core Bus Corridor Scheme Figure 14.6
Approved	1	Regional Groundwater Recharge

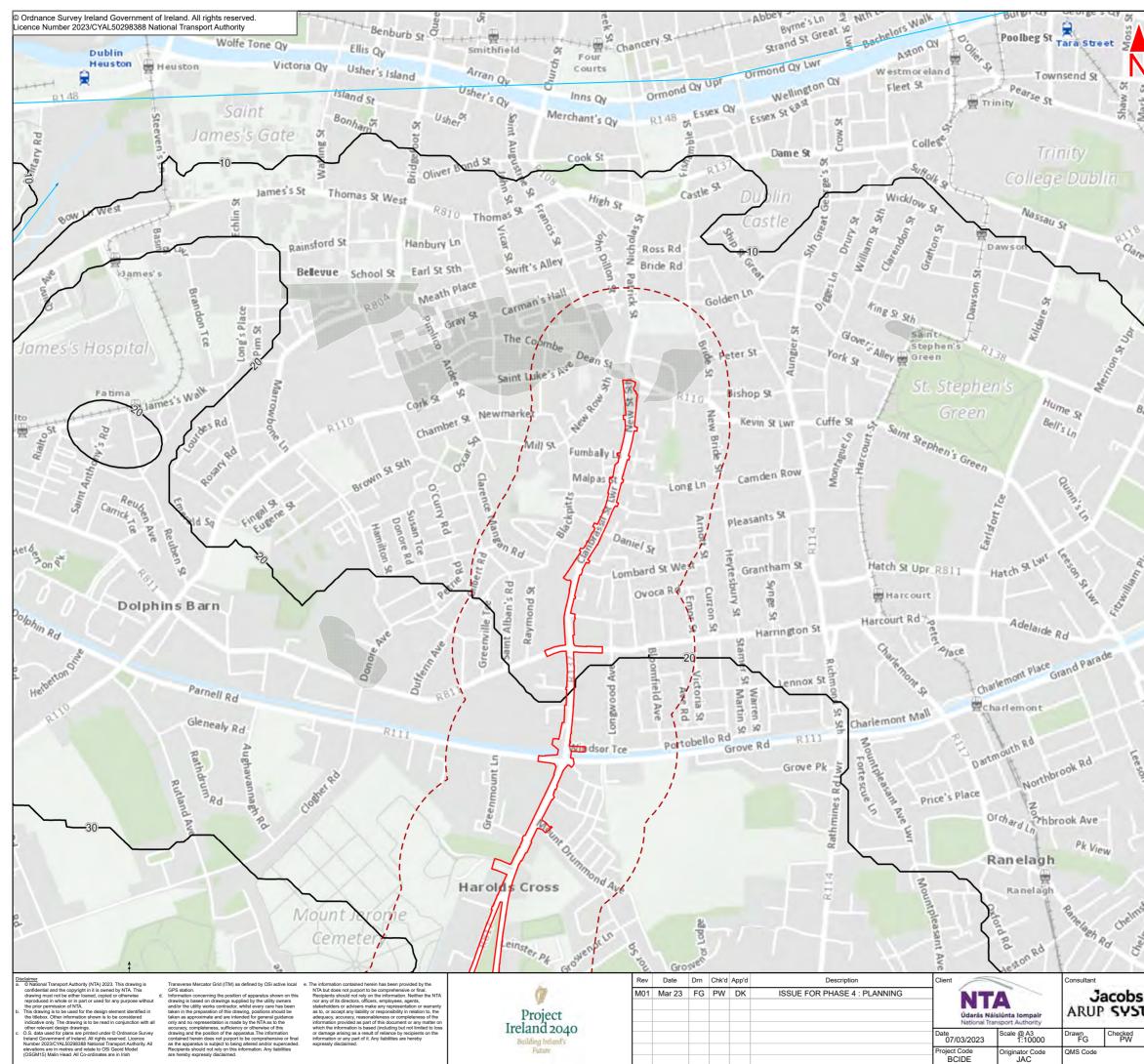
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### **14.7** Topography and Geomorphology







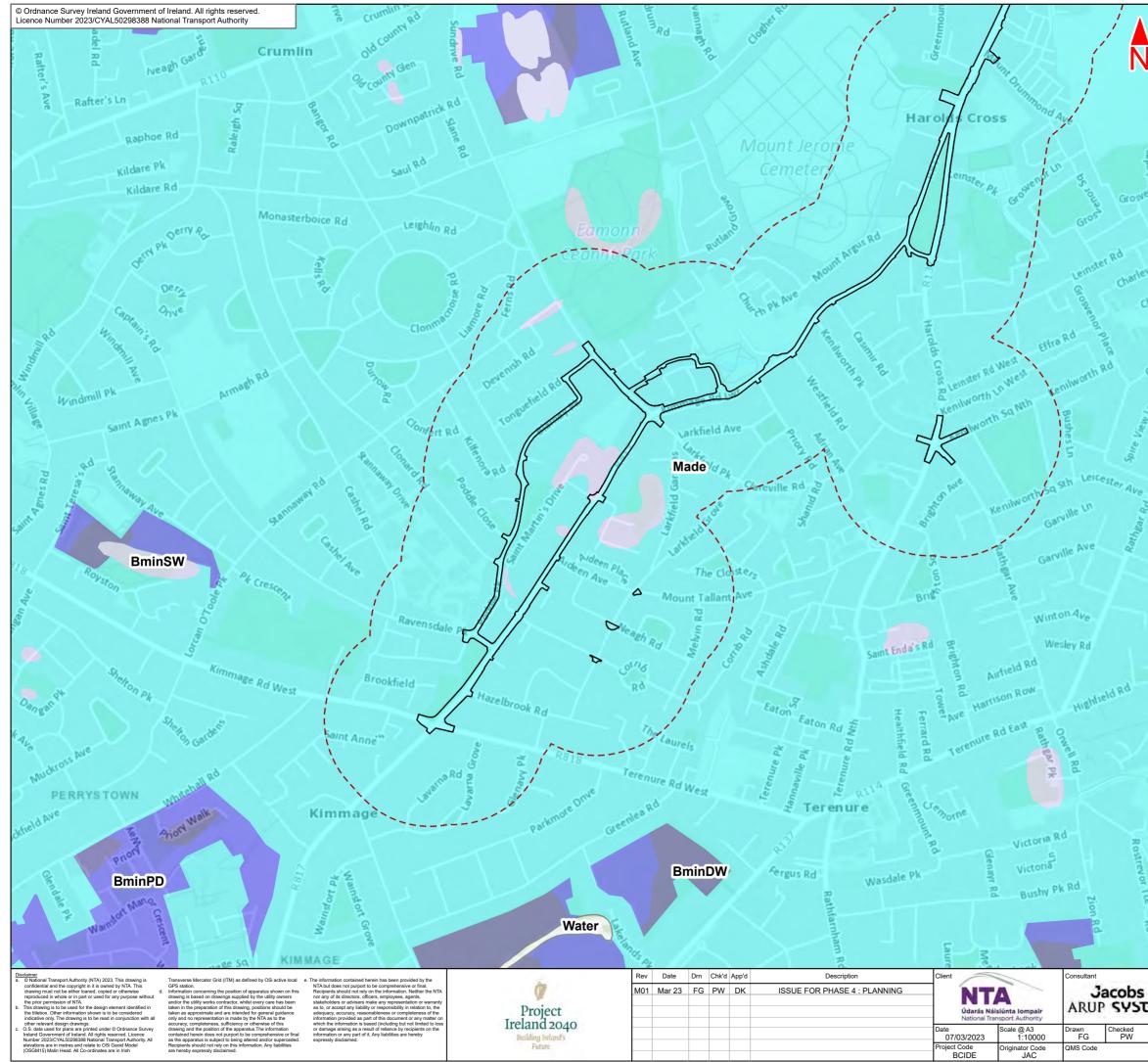


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<b>LLU</b>	Drawing Title Kimmage to City Centre Core Bus Corridor Scheme Figure 14.7
Approved DK	Topography and Geomorphology
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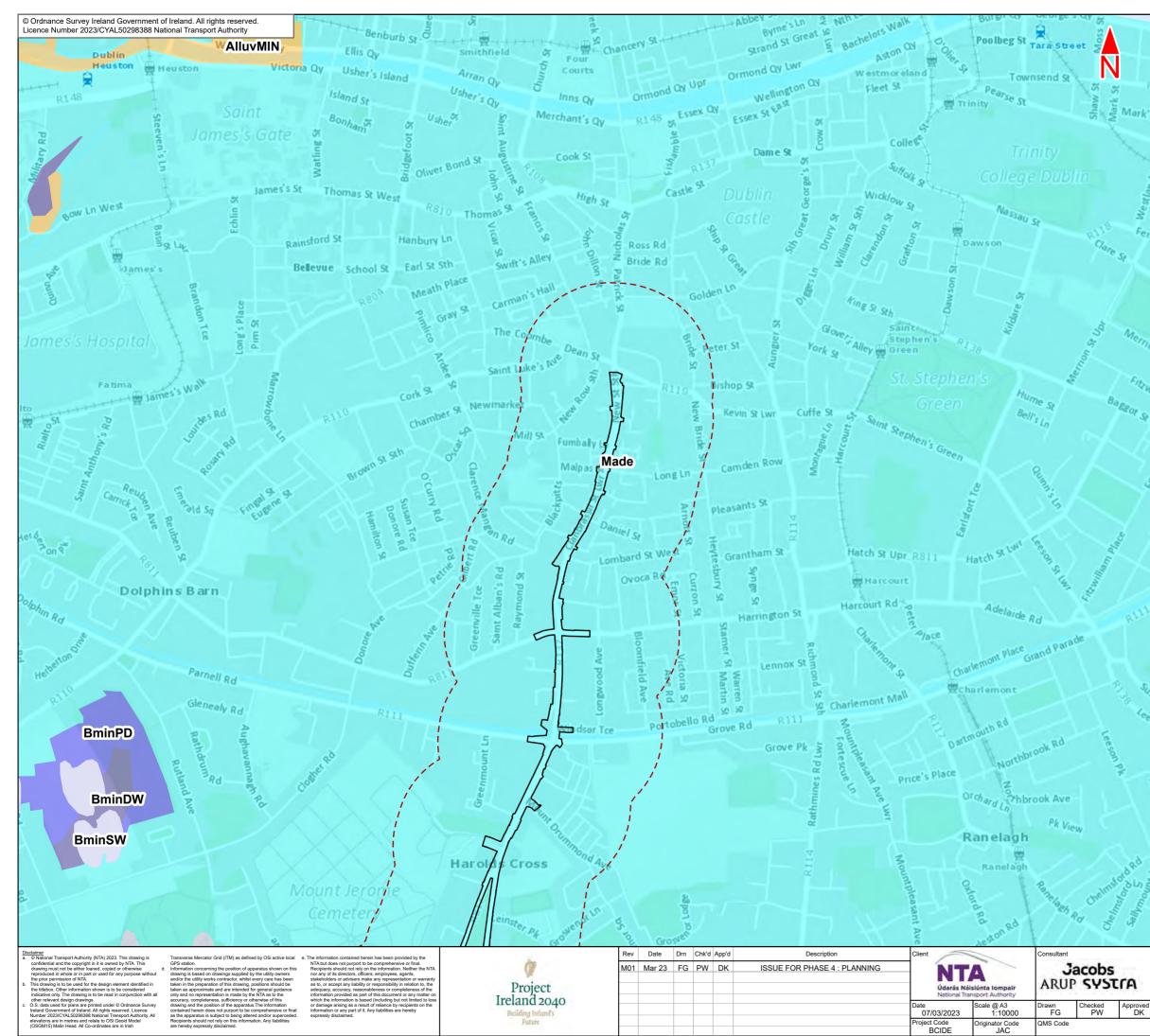
## **14.8** Soil Deposits







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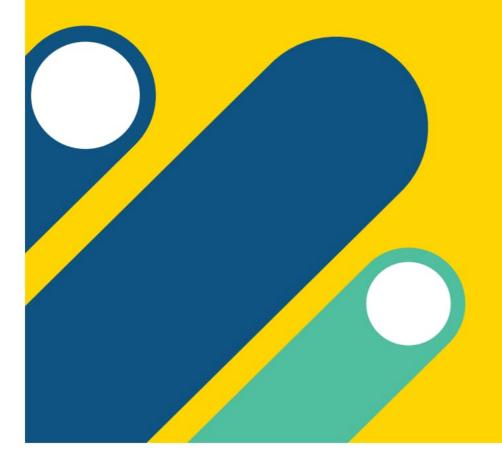


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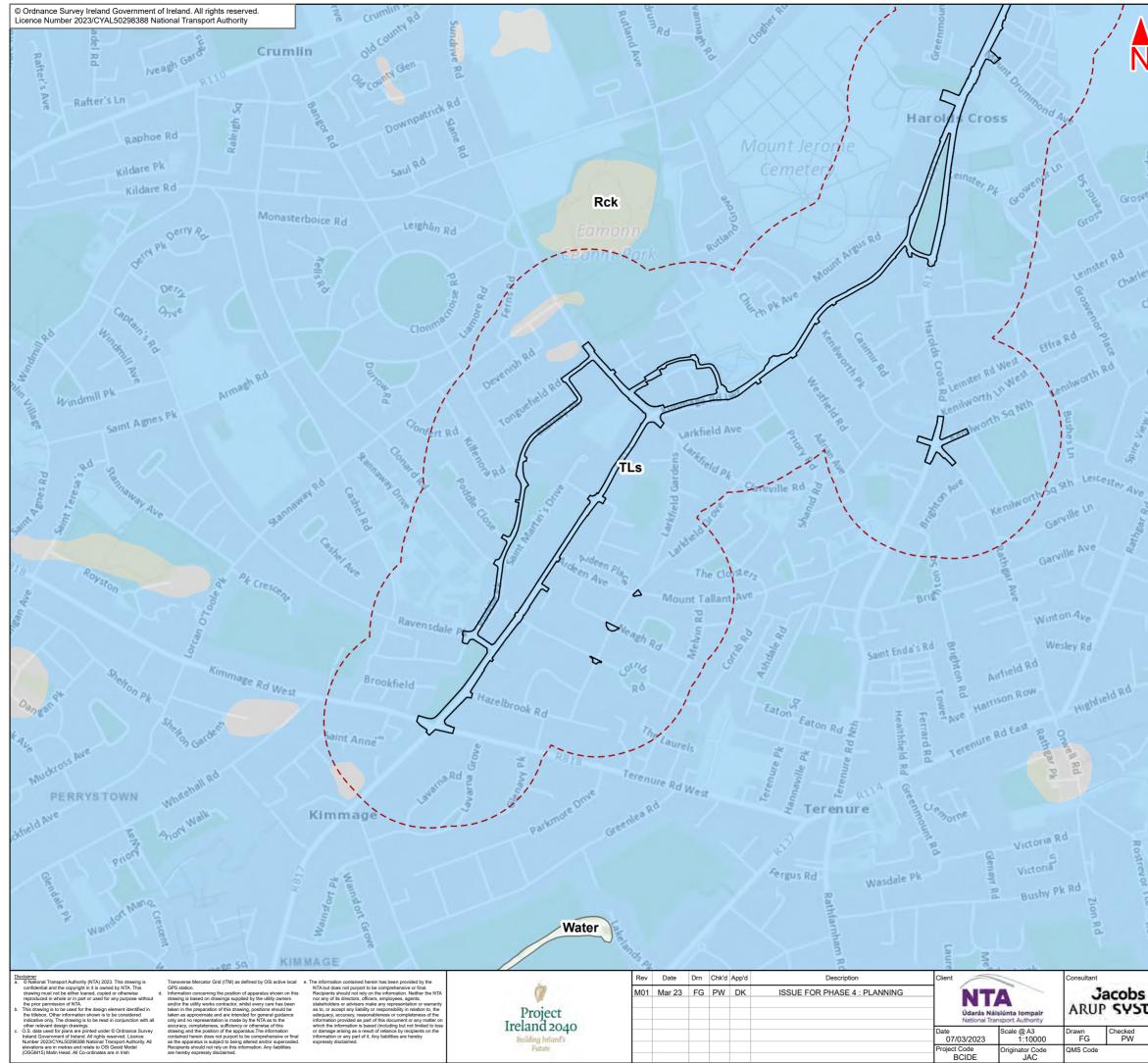
Kimmage to City Centre Core Bus Corridor Scheme Figure 14.8 Soil Deposits

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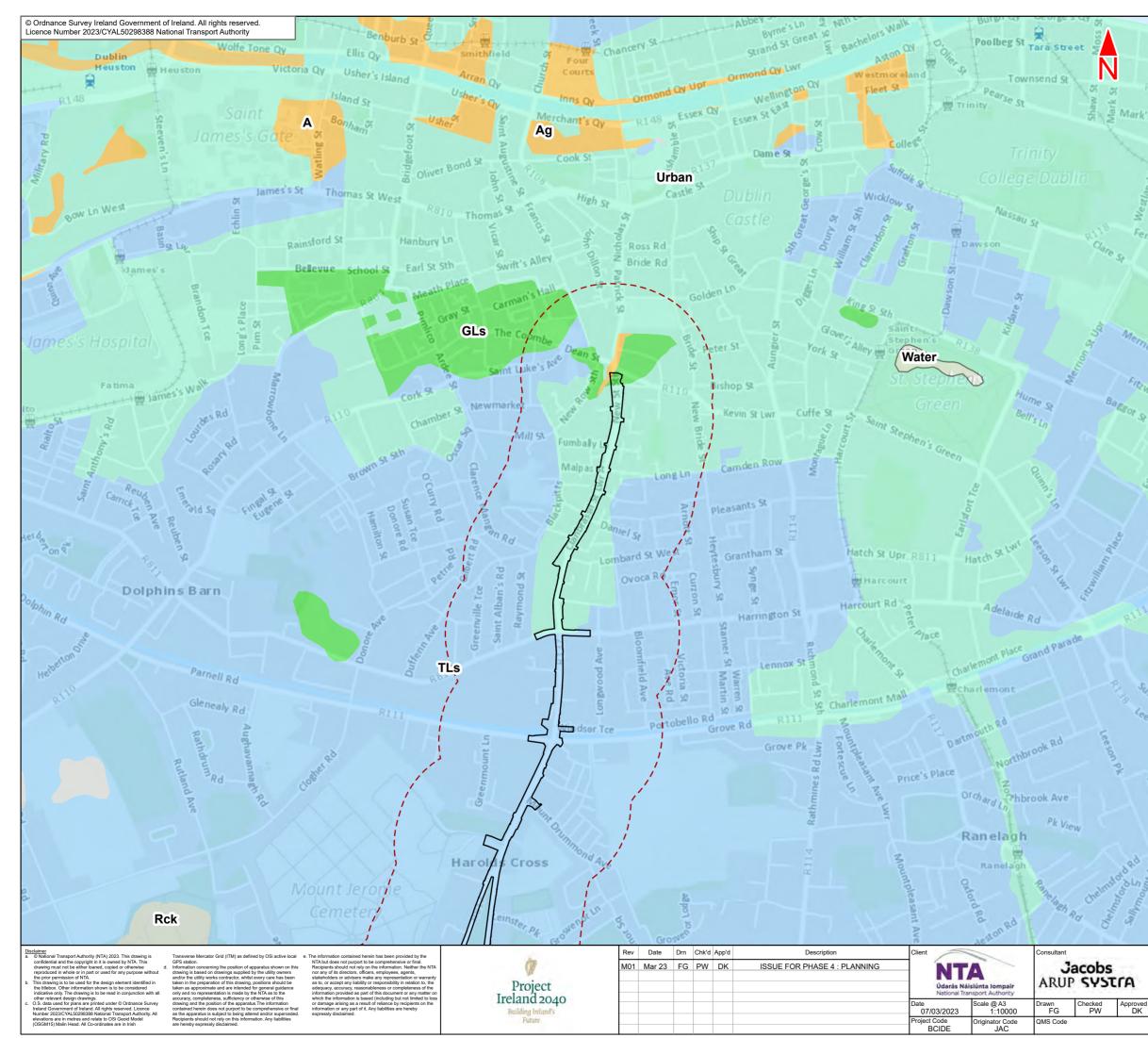
# **14.9** Subsoil Deposits







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	Programme Title BUSCONNECTS DUBLIN
6	CORE BUS CORRIDORS INFRASTRUCTURE WORKS
Tra	Drawing Title Kimmage to City Centre Core Bus Corridor Scheme
Approved	Figure 14.9 Subsoil Deposits
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R8 Mark's I	Kilmainham greetette Dolphins Barn
Harris	Crumlin Harolds Cross Ranelagh
an Westland	Rathmines Rattigar
R A	Kimmage Terenure
Merrion	Legend : Kimmage to City Centre Core Bus Corridor Scheme 250m Study Area
Fitzwill Bot St Lu	250m Study Area
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FILEN	Limestones Rck, Bedrock outcrop or subcrop TLs, Till derived
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ount Ave	This drawing is not to be used in whole or in part other than for the intended purpose and project as defined on this drawing. Contains Irish Public Sector Data licensed under a Creative Commons Attribution 4.0 International (CC BY 4.0) licence         0       0.1       0.2       0.3       0.4       0.5 km
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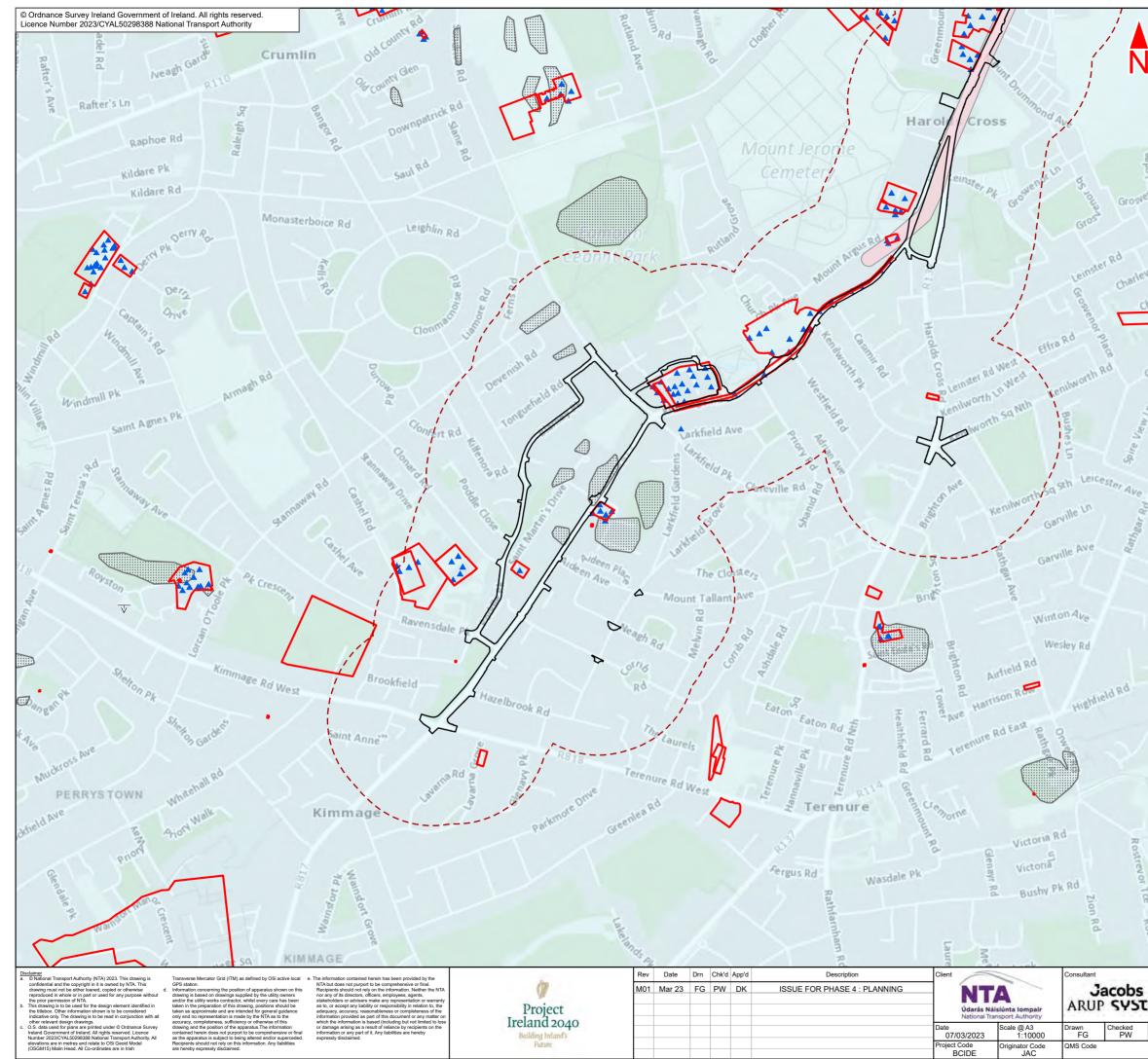
C	CORE BUS CORRIDORS INFRASTRUCTURE WORKS
Drawing Title	
0	Kimmage to City Centre Core Bus Corridor Scheme
	Figure 14.9
	Subsoil Deposits

Drawing File Name	Sheet Number	Status	Rev
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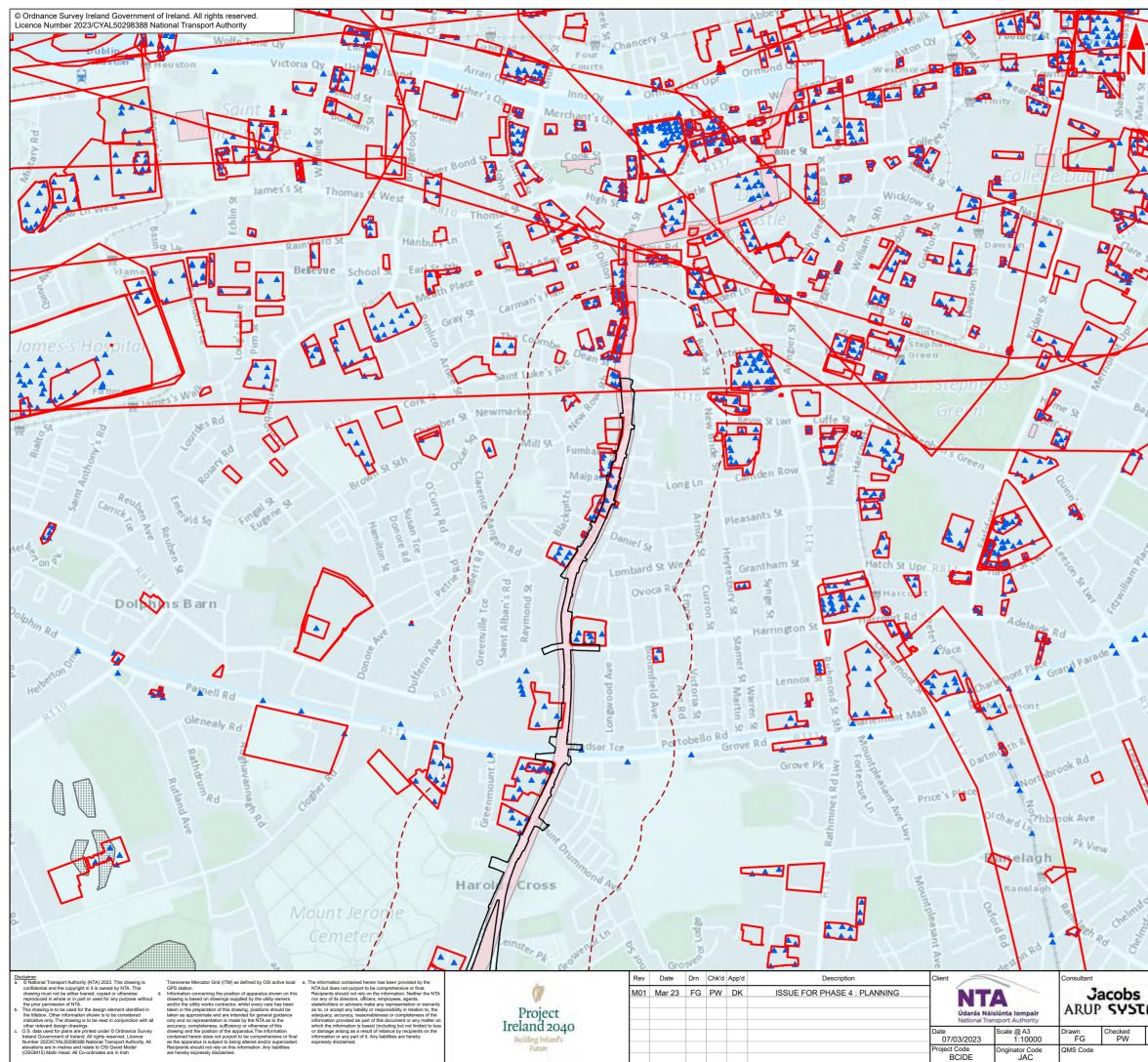
## **14.10** Bedrock Geology







Ì	Islandbridge Kilmainham Re
alloc rodge	Crumlin Harolds Cross Ranelagh Rathmines Rathgar Crumlin Kimmage Terenure
Grossenor B	Legend :         Kimmage 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         GSI Bedrock Outcrop - 1:100,000         GSI Bedrock Geology - 1:100,000         Lucan Formation
Garville V V Templemore Ave Oakland	
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	Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS
Approved DK	Kimmage to City Centre Core Bus Corridor Scheme Figure 14.10 Bedrock Geology

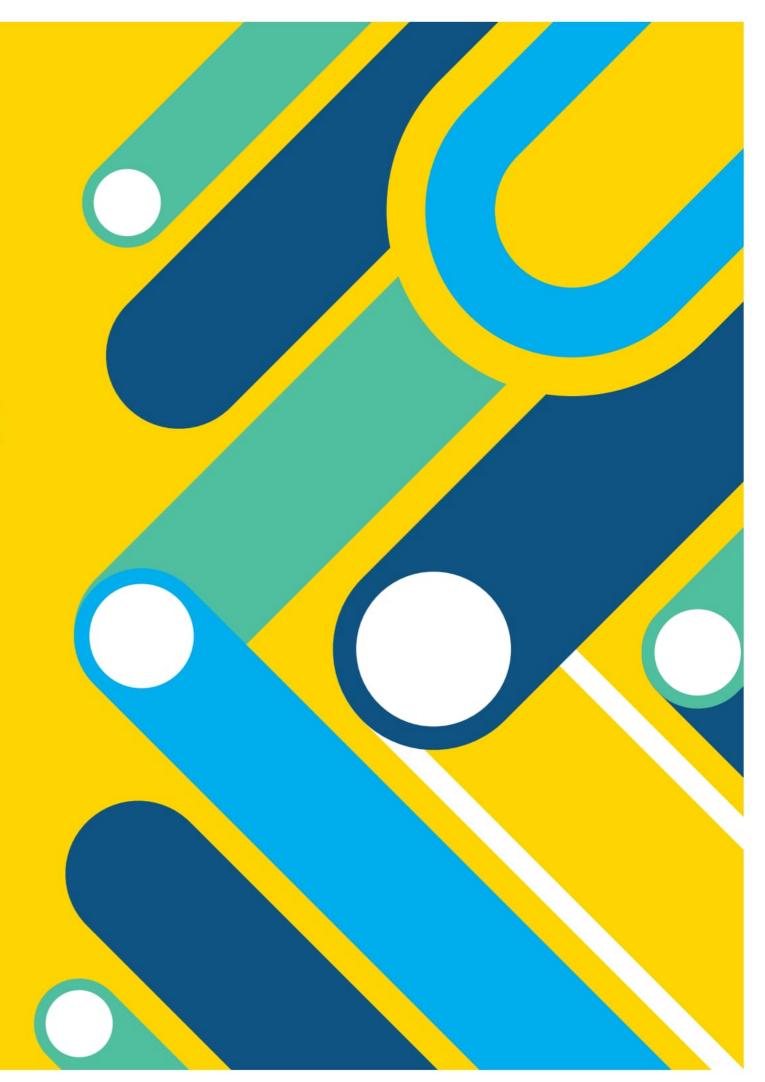


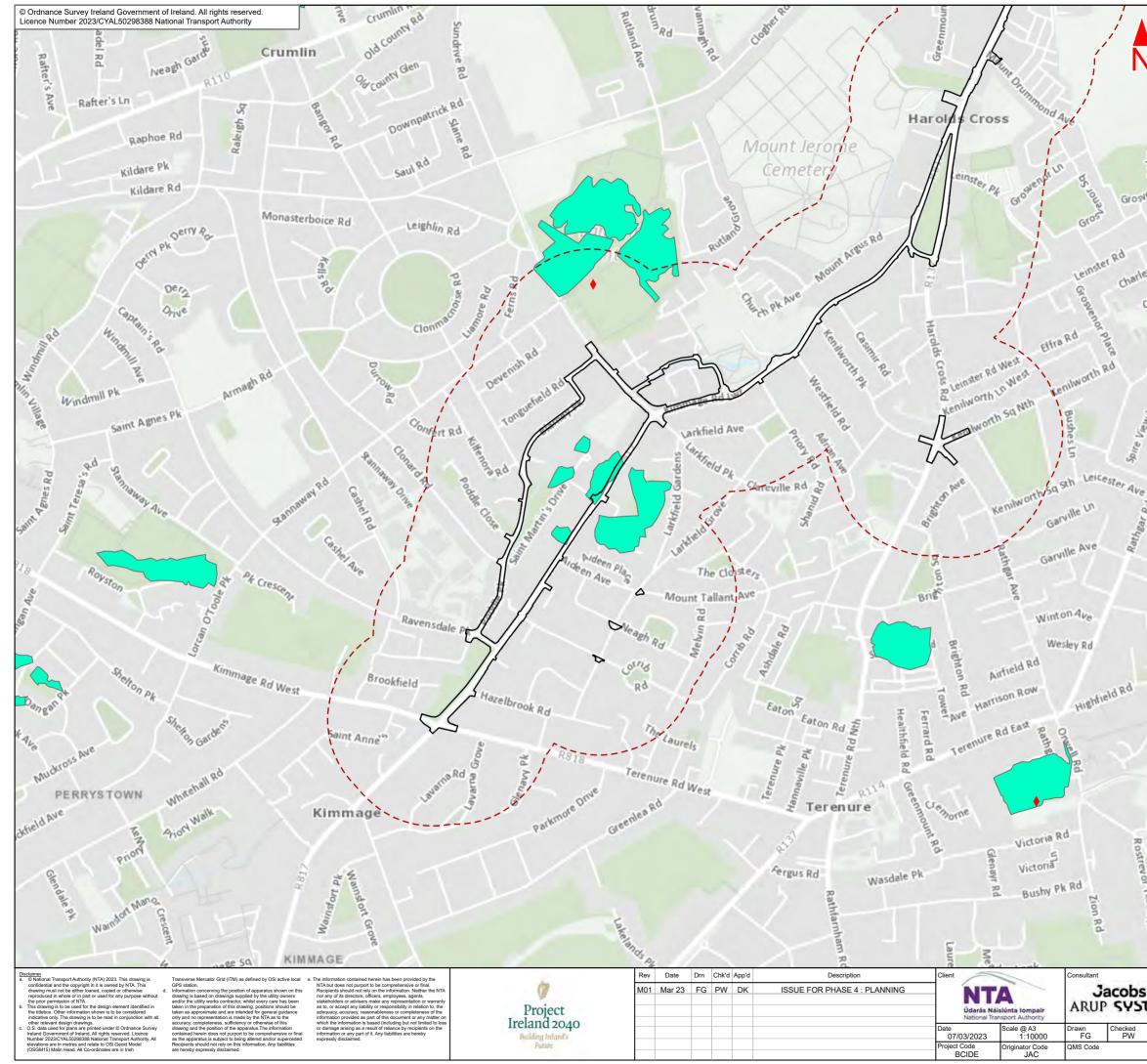
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	Legend :
	Kimmage to City Centre Core Bus Corridor Scheme
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	GSI Bedrock Geology - 1:100,000
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	Kimmage to City Centre Core Bus Corridor Scheme Figure 14.10
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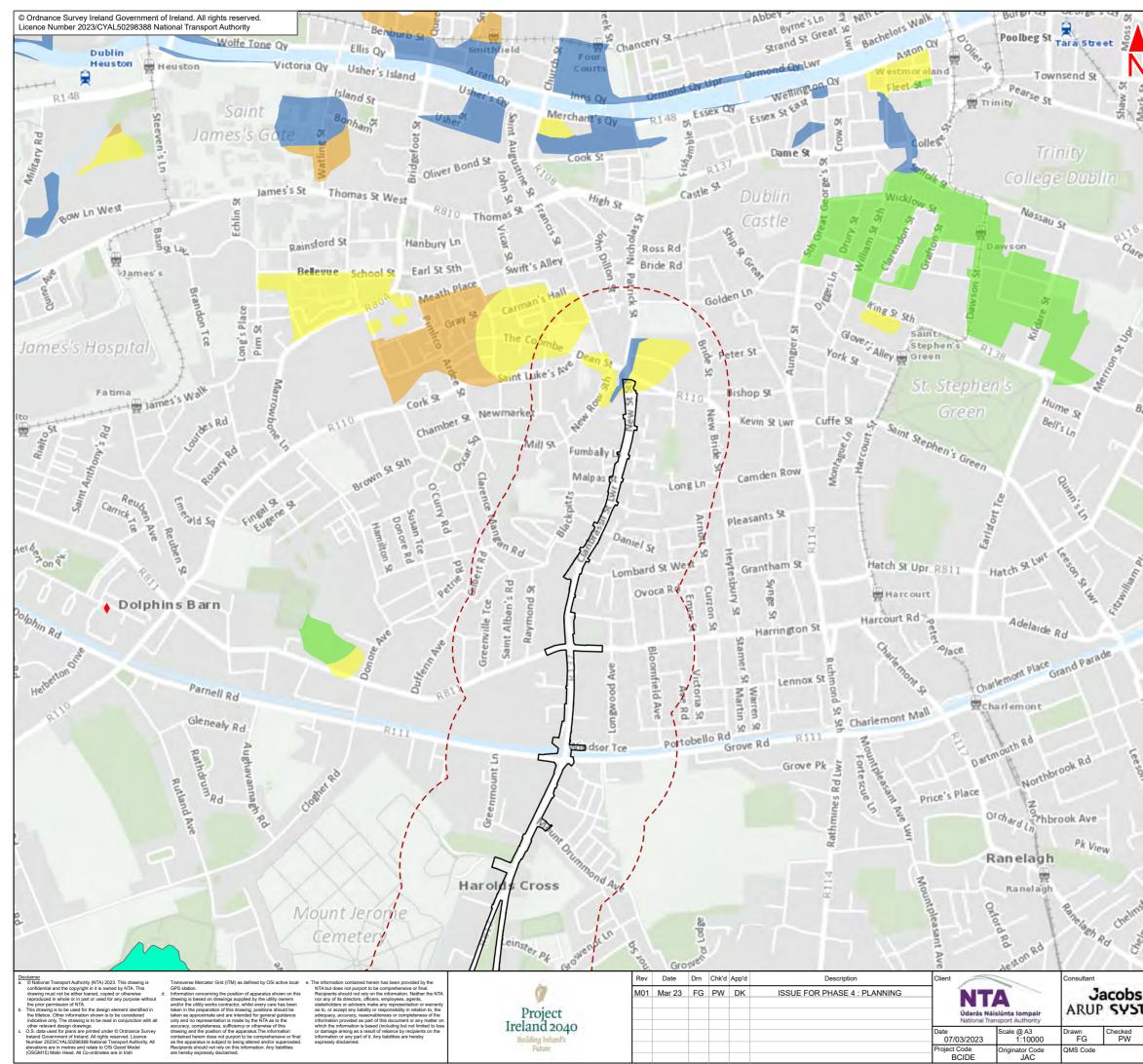
### **14.11** Granular Aggregate Potential







J	Islandbridge Kilmainham Diphins Barn 2
all port rodge	Crumlin Harolds Cross Ranelagh Rathmines Rattigar Cl Kimmage Terenure Militown
charleville Grosienor	Legend : Kimmage to City Centre Core Bus Corridor Scheme 250m Study Area Mineral Locations Non-metallic
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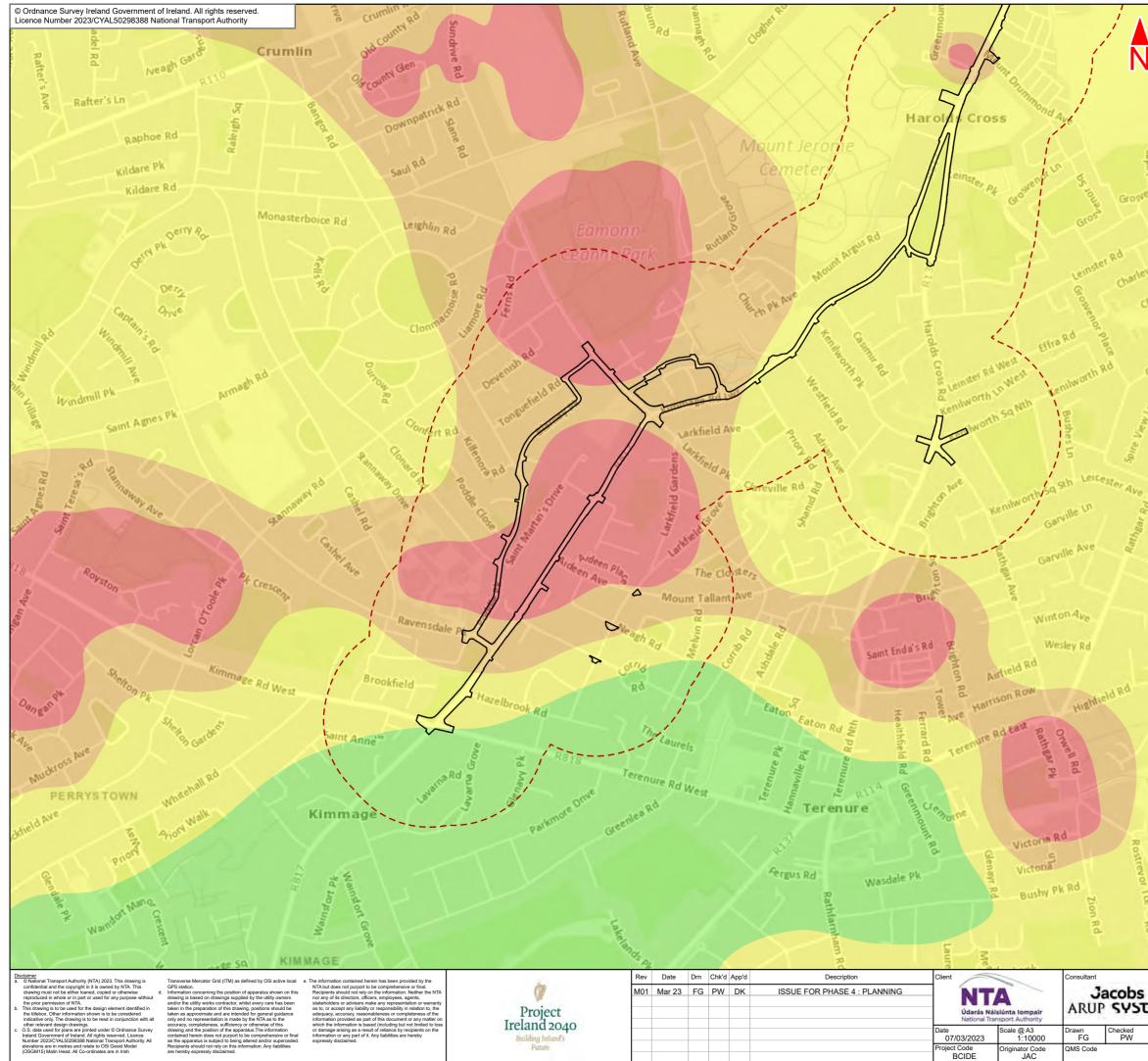


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1	Legend :
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Approved DK	Granular Aggregate Potential
	Drawing File Name         Sheet Number         Status         Rev           BCIDE-JAC-ENV_GT-0011_XX_00-DR-GG-0502         2 of 2         A         M01

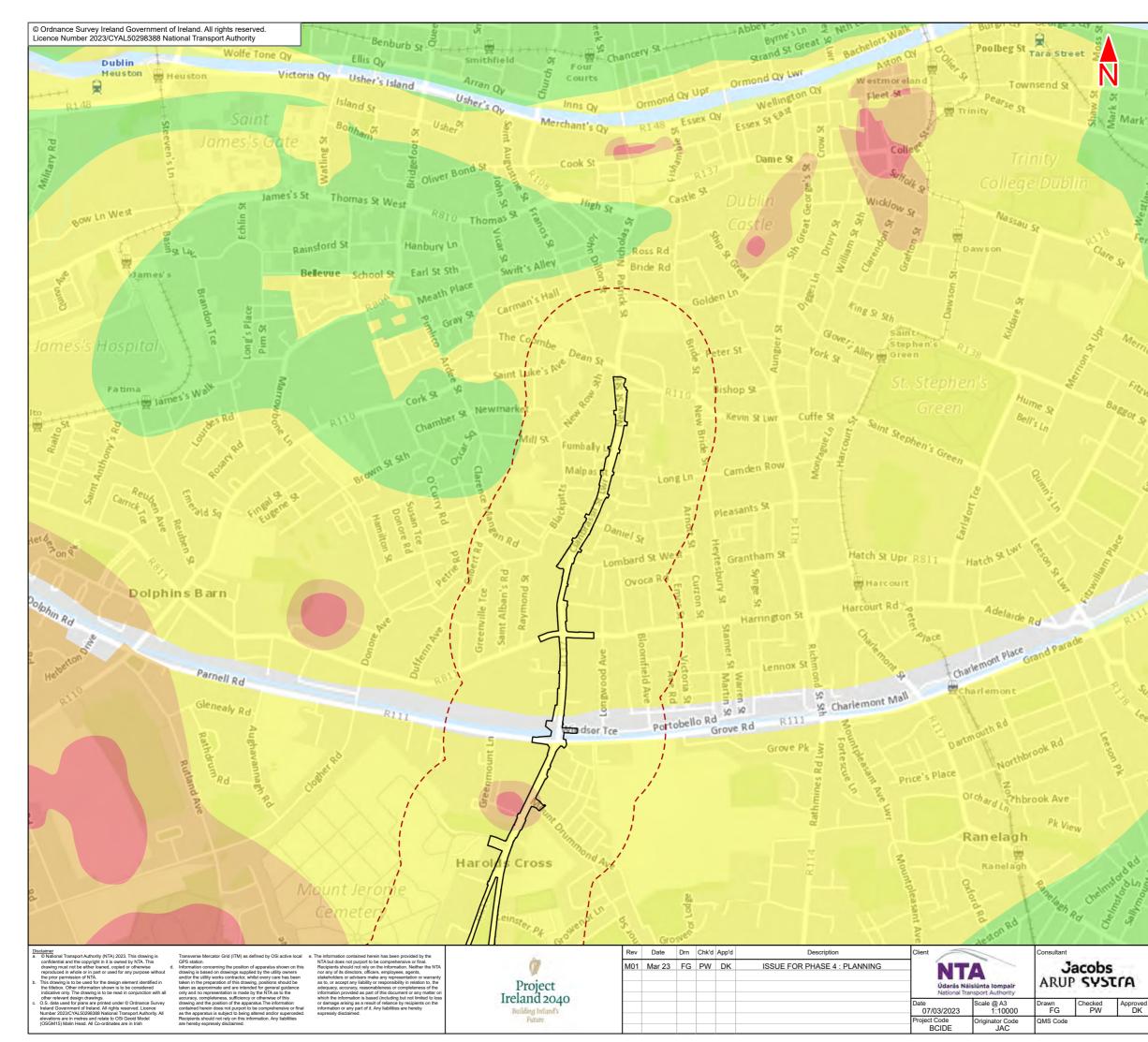
### **14.12** Crushed Rock Aggregate Potential







j	Islandbridge Kilmainham
2 or Lodge	Delphins Barn Crumlin Harolds Cross Ranelagh Rathmines Rathgar Crumlin Kimmage Terenure
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Grostenot	Legend : Kimmage to City Centre Core Bus Corridor Scheme 250m Study Area GSI Aggregate Potential Mapping - Crushed Rock Aggregate Potential Very high potential
11	High potential
Rathe	Moderate potential
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<sup>7</sup> Templemore Ave	
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	Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS
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DK	Drawing File Name BCIDF-JAC-FNV GT-0011 XX 00-DR-GG-0601 1 of 2 A M01



Ci	Dubin
RS	Islandbridge Kilmainham
irk's (	pre-etterte 2 Dolphins Barn
10	Crumlin Harolds Cross Ranelagh
a Westland Roi	Rathmines Rathgar
Fenia	Kimmage Terenure Milltown
	Legend :  Kimmage to City Centre Core Bus Corridor Scheme

-	٦.	250m Study Area
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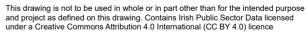
GSI Aggregate Potential Mapping - Crushed Rock Aggregate Potential

Very high potential

High potential

Moderate potential

Low potential



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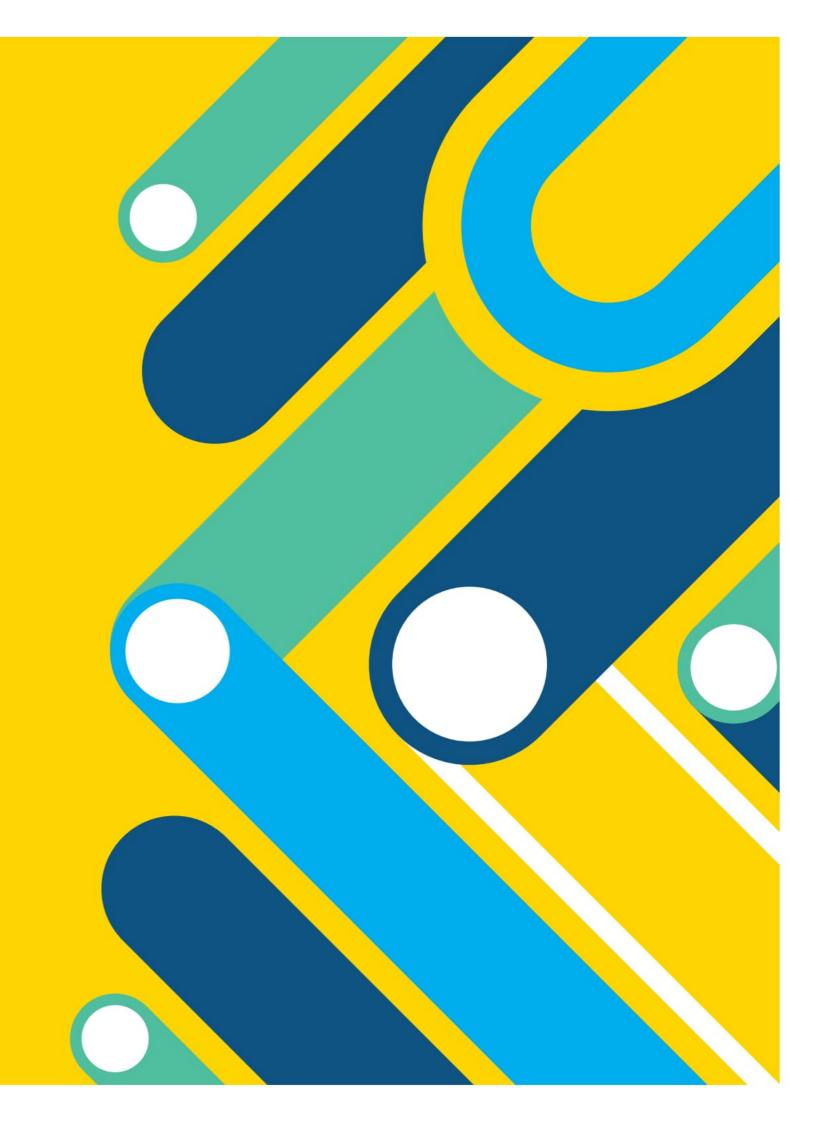
#### Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS Drawing Title

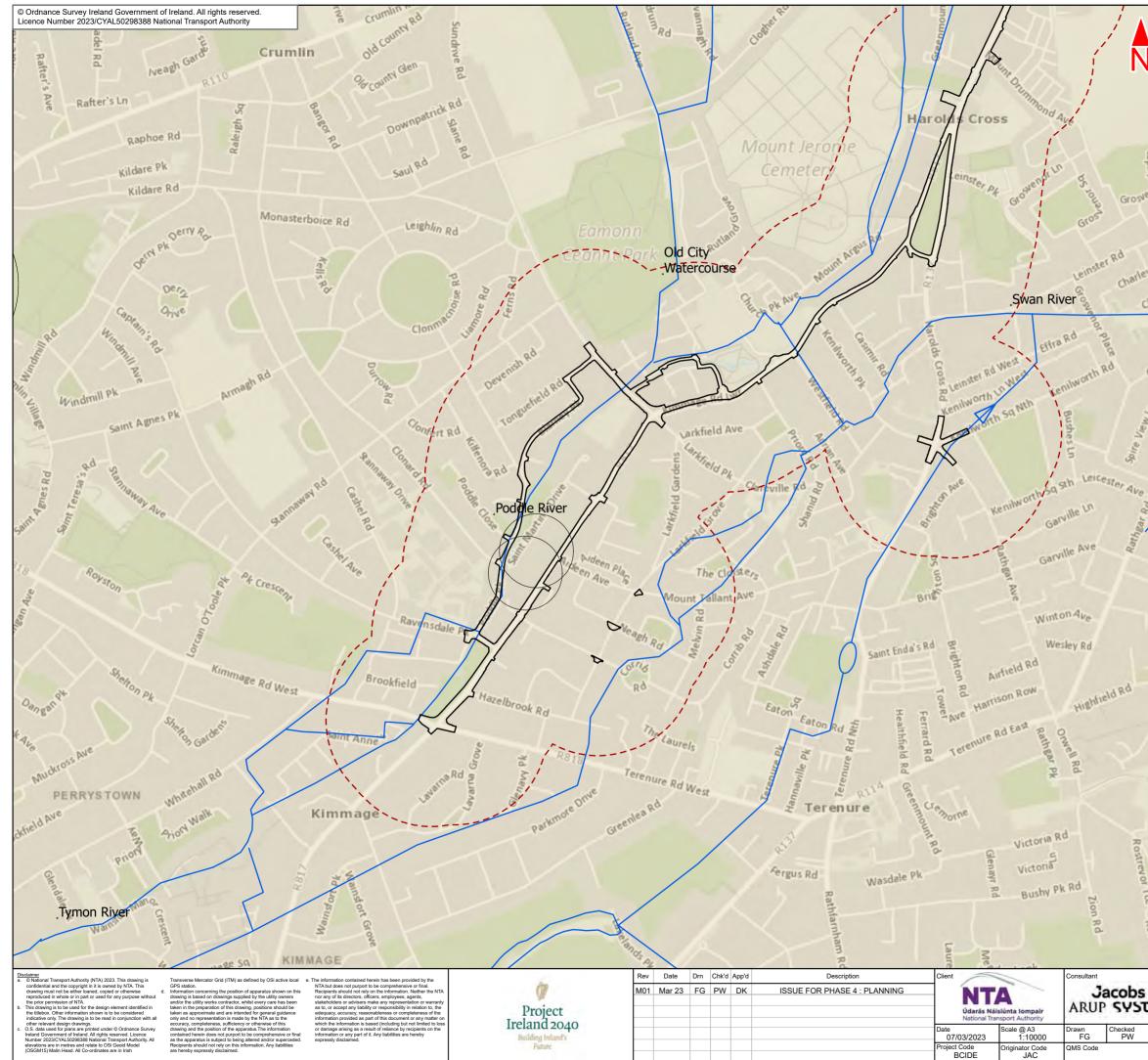
Kimmage to City Centre Core Bus Corridor Scheme Figure 14.12 Crushed Rock Aggregate Potential

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## **14.13** Aquifers







J	Islandbridge Kilmainham Re- •+• + • Dalphins Barn
allor rode	Crumlin Harolds Cross Ranelagh Rathmines 1 Kimmage Terenure
Charleville	Legend : Kimmage to City Centre Core Bus Corridor Scheme 250m Study Area Rivers Of Dublin Groundwater Wells and Springs
un Raths	GSI Bedrock Aquifer Locally Important Aquifer - Bedrock which is Moderately Productive only in Local Zones (LI)
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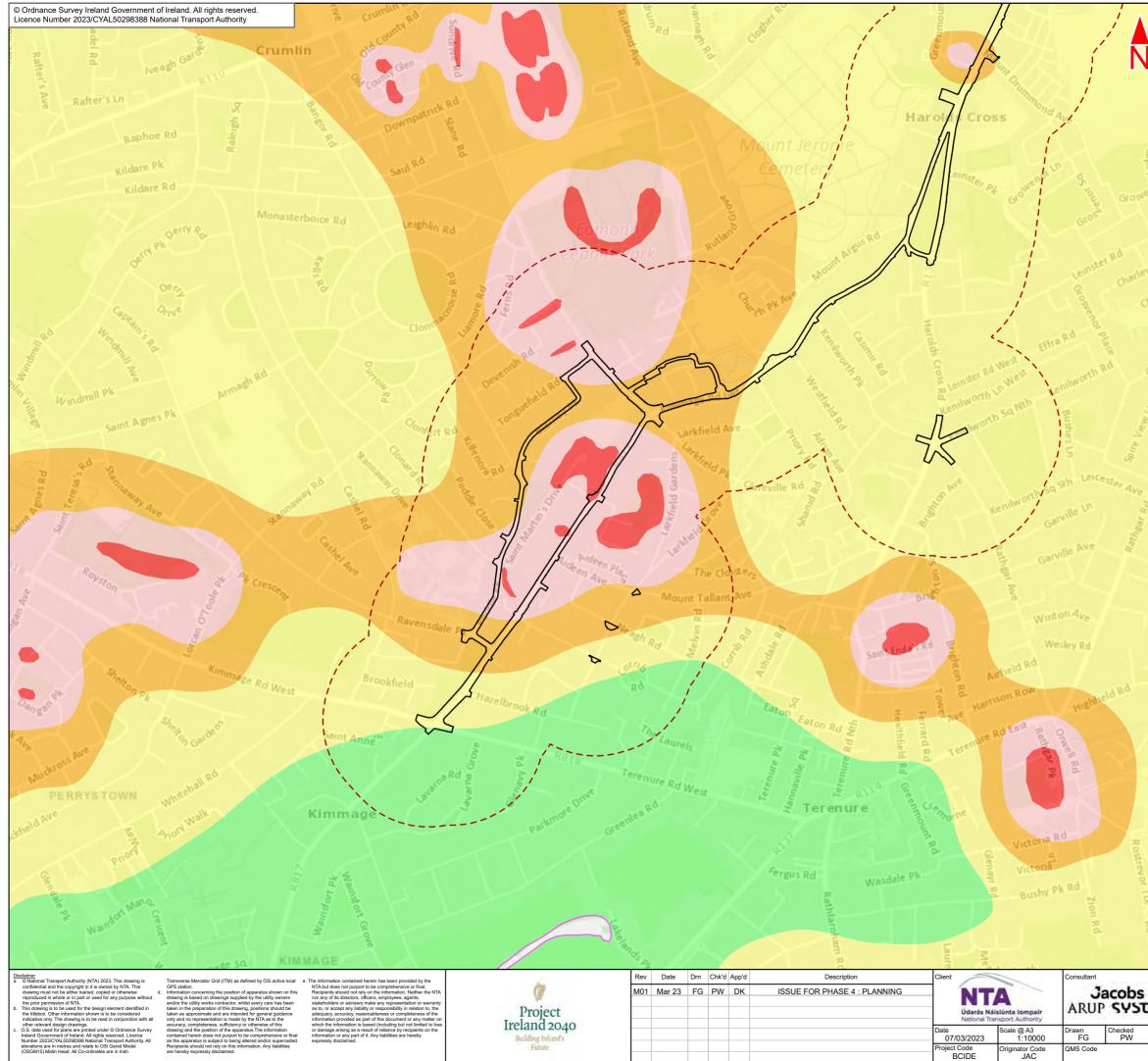
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2 mark 51	Dolphins Barn
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Fenia	Milltown
allows	Kimmage Terenure
Stream. 4	
$\Delta$	Legend :
$\square$	Kimmage to City Centre Core Bus Corridor Scheme
Merrion	I 250m Study Area
	Rivers Of Dublin
Fitzwill	Groundwater Wells and Springs
apo	GSI Bedrock Aquifer
sof St Lu	Locally Important Aquifer - Bedrock which is Moderately Productive only in Local Zones (LI)
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1	BAR SCALE
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TrA	Drawing Title Kimmage to City Centre Core Bus Corridor Scheme
Approved	Kimmage to City Centre Core bus Corridor Scheme Figure 14.13 Aquifers
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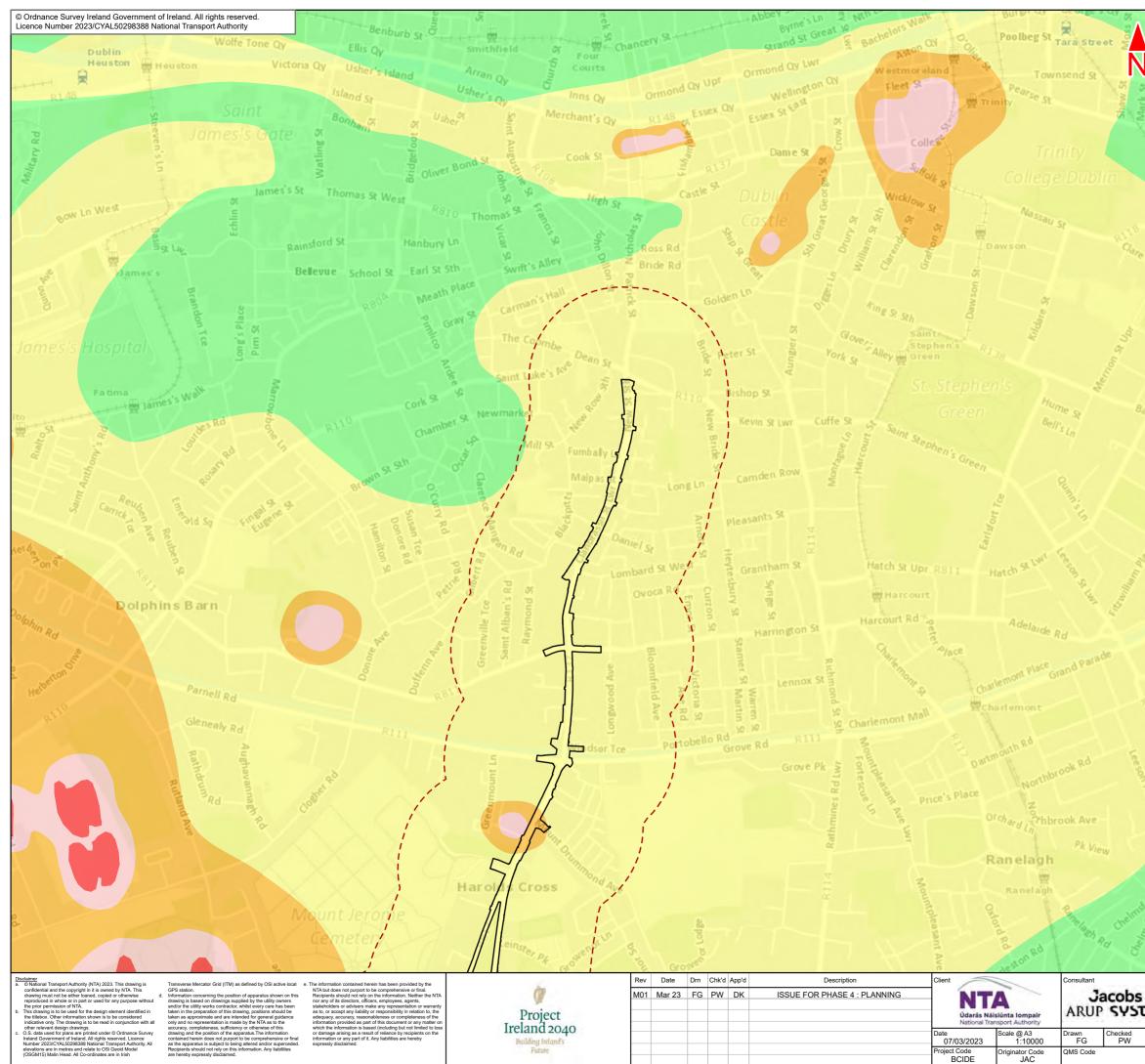
### **14.14** Groundwater Vulnerability







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	Dolphins Barn
	Crumlin
82	Harolds Cross Ranelagh
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er -	Rattigar
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	Milltown
dase	Kimmage Terenure
ville Close	
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charleville	Legend :
	Kimmage to City Centre Core Bus Corridor Scheme
	250m Study Area
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avert	GSI National Groundwater Vulnerability
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1016 P	Figure 14.14
Approved	Groundwater Vulnerability
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Kimmage       Terenure         Legend :	Kinninnam       2         Diphins Barn       2         Crumin       Harois Cross         Rathinnes       Rathinnes         Rathinnes       Rathinnes         Kinnage       Rathinnes         Som Study Area       Rathinnes         Kinnes       Rathines         Kinnes	+ >		2	Danin	
Harolds Cross       Ranela yn         Rathmines       Rathmines         Signational Groundwater Vulnerability       Extreme         High       Koderate	Harolds Cross       Ranesagn         Rathunines       Rathunines         Sion Study Area       Sion Study Area         Sion Study Area       Extreme         High       Koderate	Kilmainham	olphins Bar			
Image       Ratigar         Kimmage       Terenure         Legend :	Image       Ratigar         Kimmage       Terenure         Legend :	Crumlin	н	arolds Cross	Ranelagh	
Kimmage       Terenure         Legend :	Kimmage       Terenure         Legend :		1		T	
Kimmage 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	Kimmage 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	Kimmag	e Ter	enure	R	illtow
250m Study Area         GSI National Groundwater Vulnerability         Extreme (X) Rock at/close to surface or Karst         Extreme         High         Moderate	250m Study Area         GSI National Groundwater Vulnerability         Extreme (X) Rock at/close to surface or Karst         Extreme         High         Moderate	:				
Extreme (X) Rock at/close to surface or Karst Extreme High Moderate	Extreme (X) Rock at/close to surface or Karst Extreme High Moderate	250m Study Are	ea		cheme	
High Moderate	High Moderate				t	
Moderate	Moderate	Extreme				
		High				
Low	Low	Moderate				
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			Kiimainham Crumlin Kiimmag Kiimmag : Kiimmage to Cit 250m Study Are ional Groundwate Extreme (X) Re Extreme High Moderate	Kiimainham Dephins Bar Crumlin H 1 Kimmage to Sound Groundwater Vulnerabilit Extreme (X) Rock at/close to Extreme High Moderate	Kilmainham       2         Daphins Barn       2         Crumlin       Harolds Cross         Rati       1         Kimmage       Terenure         Kimmage to City Centre Core Bus Corridor Sc       2         250m Study Area       3         ional Groundwater Vulnerability       Extreme (X) Rock at/close to surface or Karst         Extreme       High         Moderate       1	Islandbridge       2         Kimainham       2         Ophins Barn       2         Crumlin       Harods Cross         Rathmines       Rathmines         Rathmines       Rathmines         Image to City Centre Core Bus Corridor Scheme       2         Storm Study Area       Streme (X) Rock at/close to surface or Karst         Extreme       High         Moderate       Marce Area

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#### Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS

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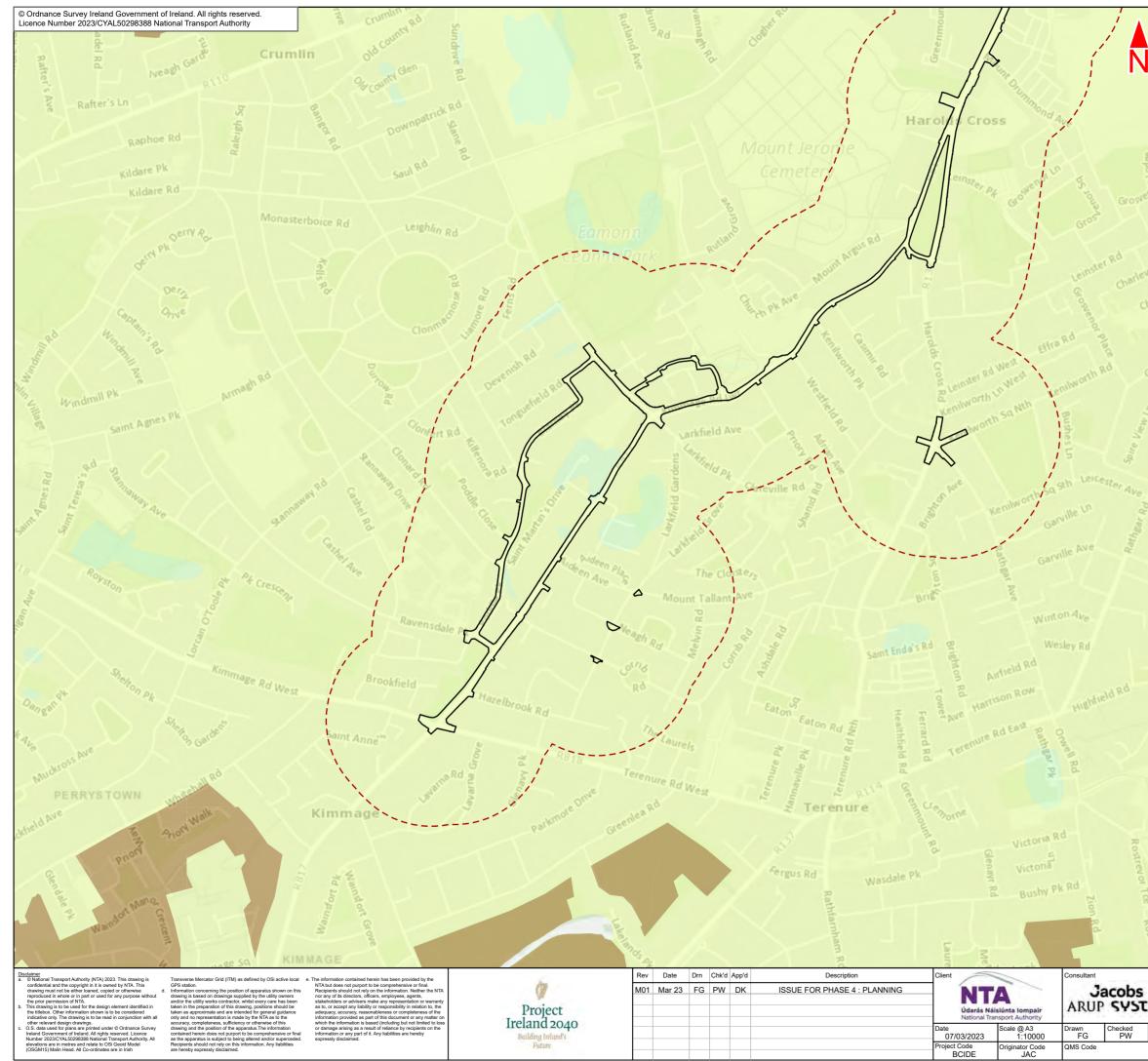
Kimmage to City Centre Core Bus Corridor Scheme
Figure 14.14
Groundwater Vulnerability

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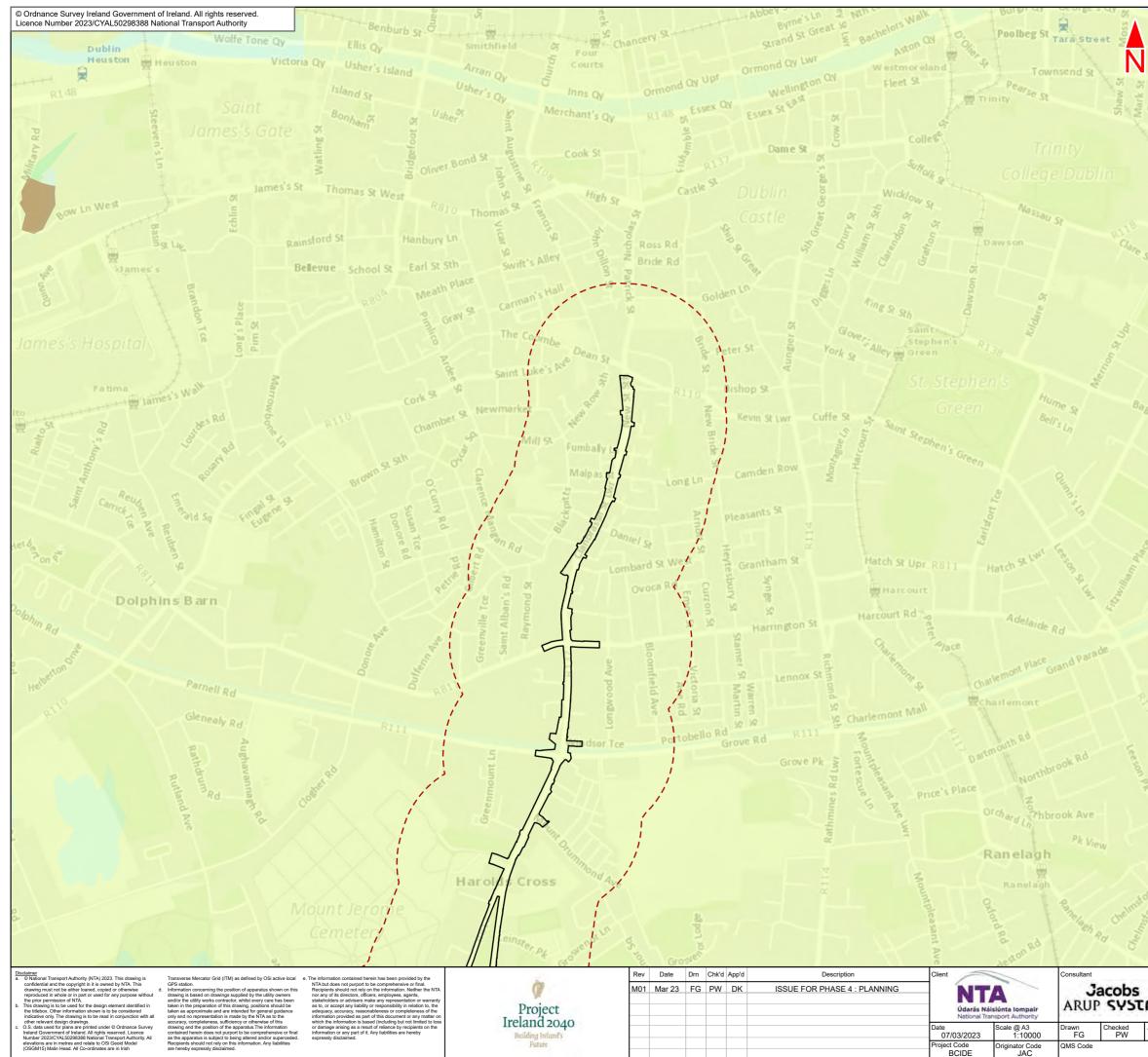
### **14.15** Groundwater Recharge







	Dubini
	Islan dbridge
-	Kilmainham
	2
	Dblphins Barn
	Crumlin
ee ee	Harolds Cross Ranelagh
107	Rathmines
e <sup>6</sup>	Rathgar
	LA CENT
dase	Kimmage Terenure Milltown
ville Close	
harleville	Legend :
hanes	Kimmage to City Centre Core Bus Corridor Scheme
enor	GSI Groundwater Recharge
Grosvenor	Annual Recharge (mm)
	151-200 mm
5	51-100 mm
Rath	1-50 mm
4	
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7	
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Garville	
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Templemore Ave	
e Av	
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	under a Creative Commons Attribution 4.0 International (CC BY 4.0) licence 0 0.1 0.2 0.3 0.4 0.5 km
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11	CORE BUS CORRIDORS INFRASTRUCTURE WORKS
ITA	Drawing Title Kimmage to City Centre Core Bus Corridor Scheme
Approved DK	Figure 14.15 Groundwater Recharge
	Drawing File Name         Sheet Number         Status         Rev           BCIDE-JAC-ENV_GT-0011_XX_00-DR-GG-0901         1 of 2         A         M01



Ci	Dubiiii	
RE	Islandbridge Kilmainham	THE C
s ( pre-	Crumlin Harolds Cross Ranelagh	
wand R.	Rathmines Rathgar	
nia	Kimmage Terenure Millto	owi

#### Legend :

- Kimmage to City Centre Core Bus Corridor Scheme

250m Study Area				
GSI Groundwater Recharge				
Annual Recharge (mm)				
	201-250 mm			

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

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0	0.1	0.2	0.3	0.4	0.5 km

BAR SCALE

#### Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS

Drawing Title

Kimmage to City Centre Core Bus Corridor Scheme				
Figure 14.15				
Groundwater Recharge				

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