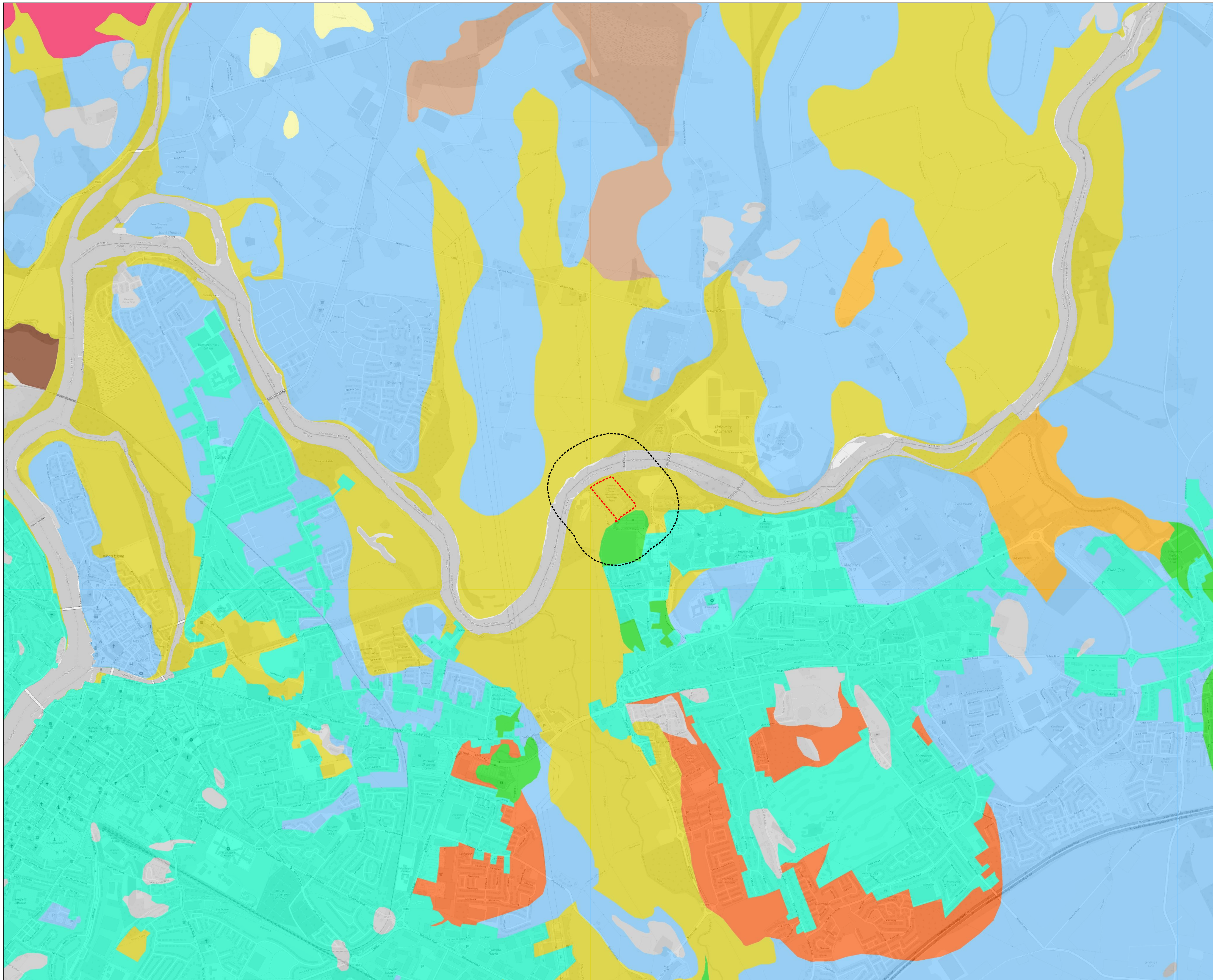


Appendix 13A: Land and Soils
Mapping



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LEGEND

- Site Layout**
 Site Boundary
 Study Area [250m]
- Quaternary Geology Units**
- Urban Urban
 - Mesc Estuarine silts and clays
 - GLs Gravels derived from Limestones
 - Tls Till derived from limestones
 - TBI Till derived from basic igneous rocks
 - Cut Cut over raised peat
 - Rck Bedrock outcrop or subcrop

Rev.	Suit.	Description	Drawn	Chkd	Date

Client:



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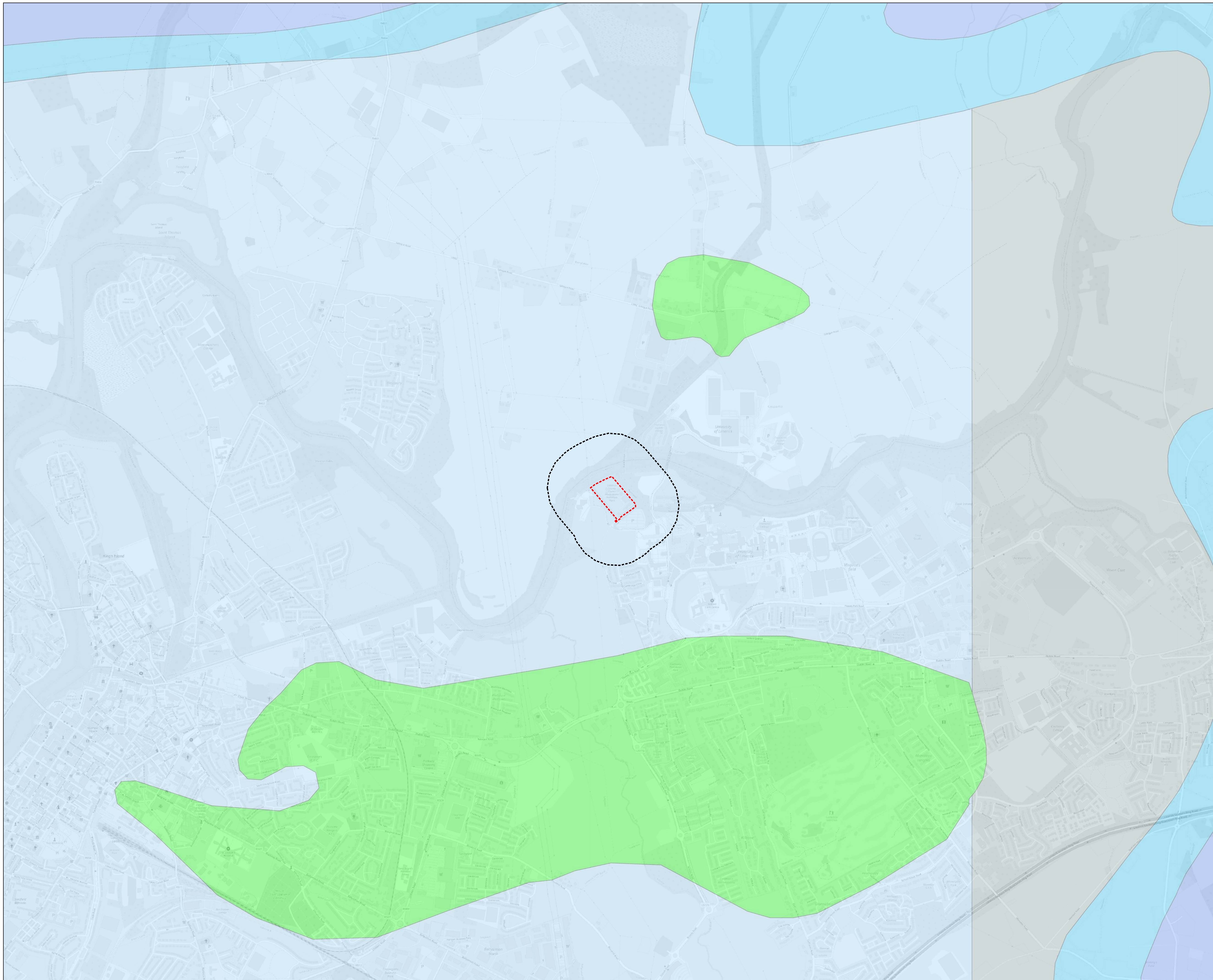


Project: CASTLETROY WASTEWATER TREATMENT PLANT

Drawing Title: EIAR - LAND & SOILS
 FIGURE 13-1 QUATERNARY GEOLOGY

Drawn by: DW Date: MAY 2022
 Checked by: MC Date: MAY 2022
 Approved by: DOH Date: MAY 2022
 Internal Project Ref: 20701
 Scale: 1:10,000 @ A1

Stage: PLANNING
 Drawing No.: 20701-JBB-00-XX-DR-Z-00101
 Revision: P01
 Suitability Code: S3



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LEGEND

- Site Layout**
 Site Boundary
 Study Area [250m]
- Bedrock Geology Units**
- VIS Visean Limestones (undifferentiated)
 - V Volcaniclastic Rocks
 - RK Rathkeale Formation
 - LR Lough Gur Formation
 - WA Waulsortian Limestones

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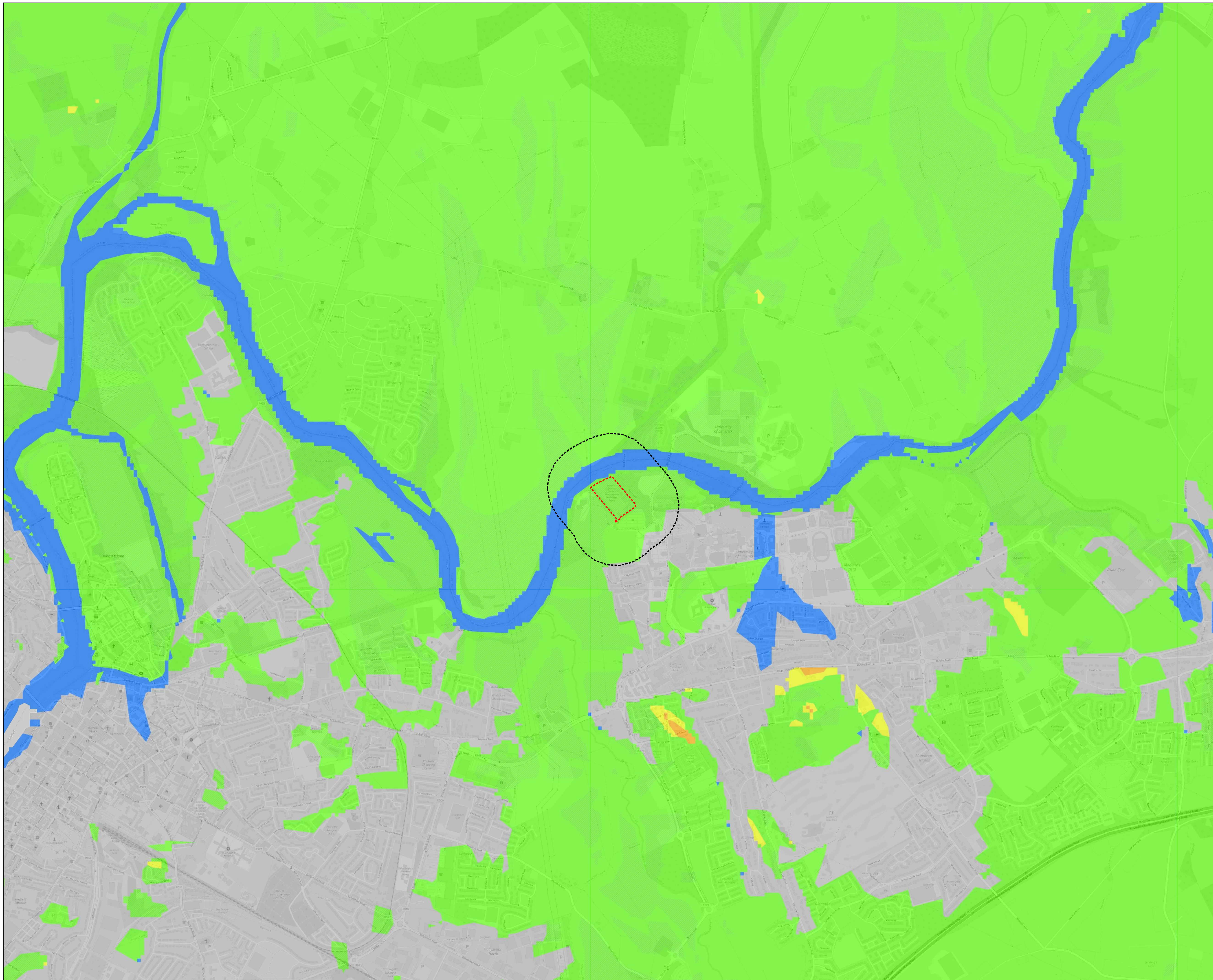
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Project
**CASTLETROY WASTEWATER
 TREATMENT PLANT**

Drawing Title
**EIAR - LAND & SOILS
 FIGURE 13-2 BEDROCK GEOLOGY**

Drawn by: DW Date: MAY 2022
 Checked by: MC Date: MAY 2022
 Approved by: DOH Date: MAY 2022
 Internal Project Ref: 20701
 Scale: 1:10,000 @ A1

Stage: PLANNING
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 Revision: P01
 Suitability Code: S3



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LEGEND

- Site Layout**
 Site Boundary
 Study Area [250m]
- Landslides Susceptibility Classification**
- Unclassified
 - Low
 - Low (inferred)
 - Moderately Low
 - Moderately Low (inferred)
 - Moderately High
 - Moderately High (inferred)
 - High
 - High (inferred)
 - Made
 - Water

Rev.	Suit.	Description	Drawn	Chkd	Date

Client:



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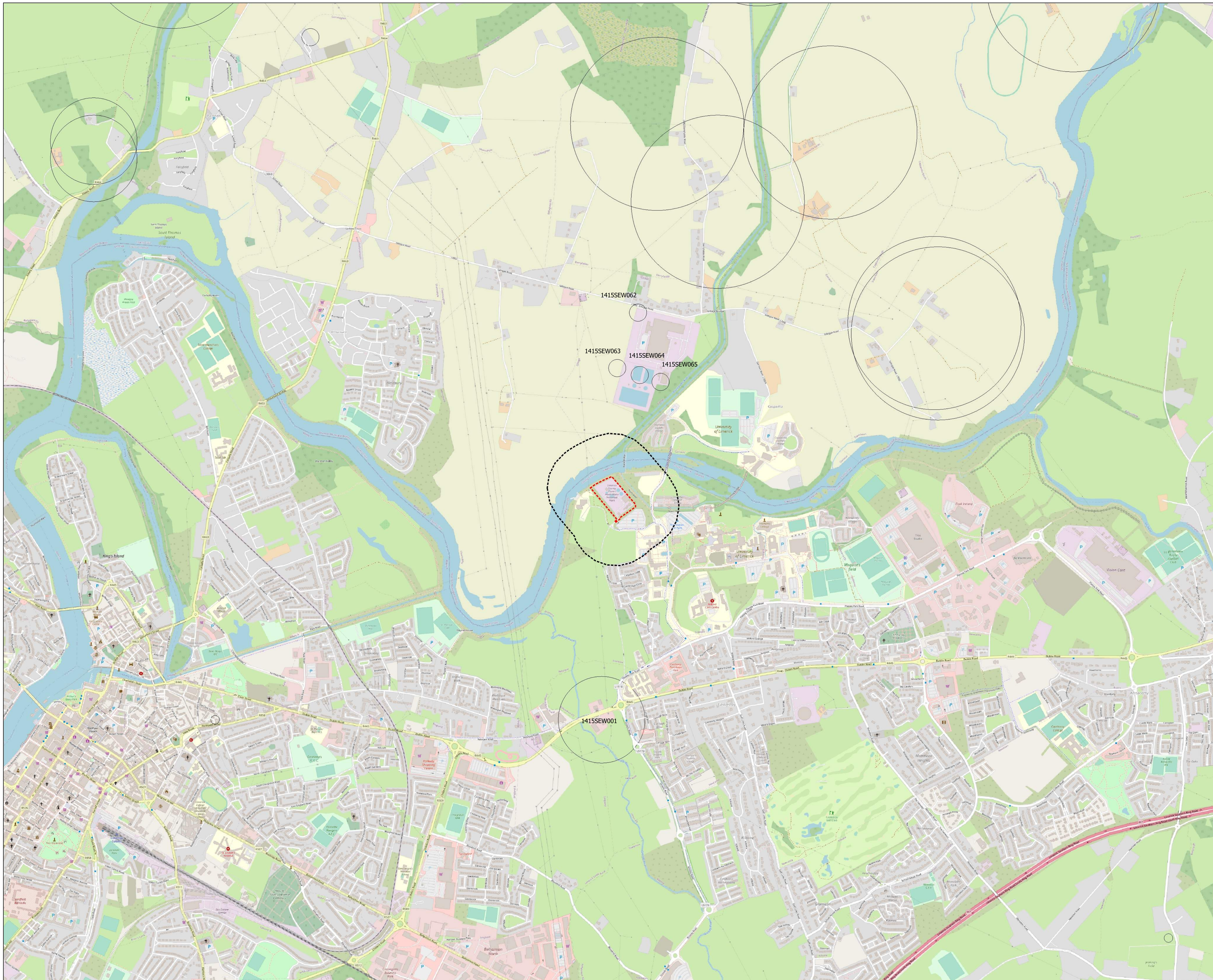


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Project
**CASTLETROY WASTEWATER
 TREATMENT PLANT**

Drawing Title
**EIAR - LAND & SOILS
 FIGURE 13-3 LANDSLIDE SUSCEPTIBILITY**

Drawn by:	DW	Date:	MAY 2022
Checked by:	MC	Date:	MAY 2022
Approved by:	DOH	Date:	MAY 2022
Internal Project Ref:	20701		
Scale:	1:10,000 @ A1		
Stage:	PLANNING		
Drawing No.:	20701-JBB-00-XX-DR-Z-00103	Revision:	P01
Suitability Code:	S3		



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LEGEND

- Site Layout**
- Site Boundary
 - Study Area [250m]
 - Groundwater Wells and Springs

Rev.	Suit.	Description	Drawn	Chkd	Date

Client:

UISCE
EIREANN - IRISH
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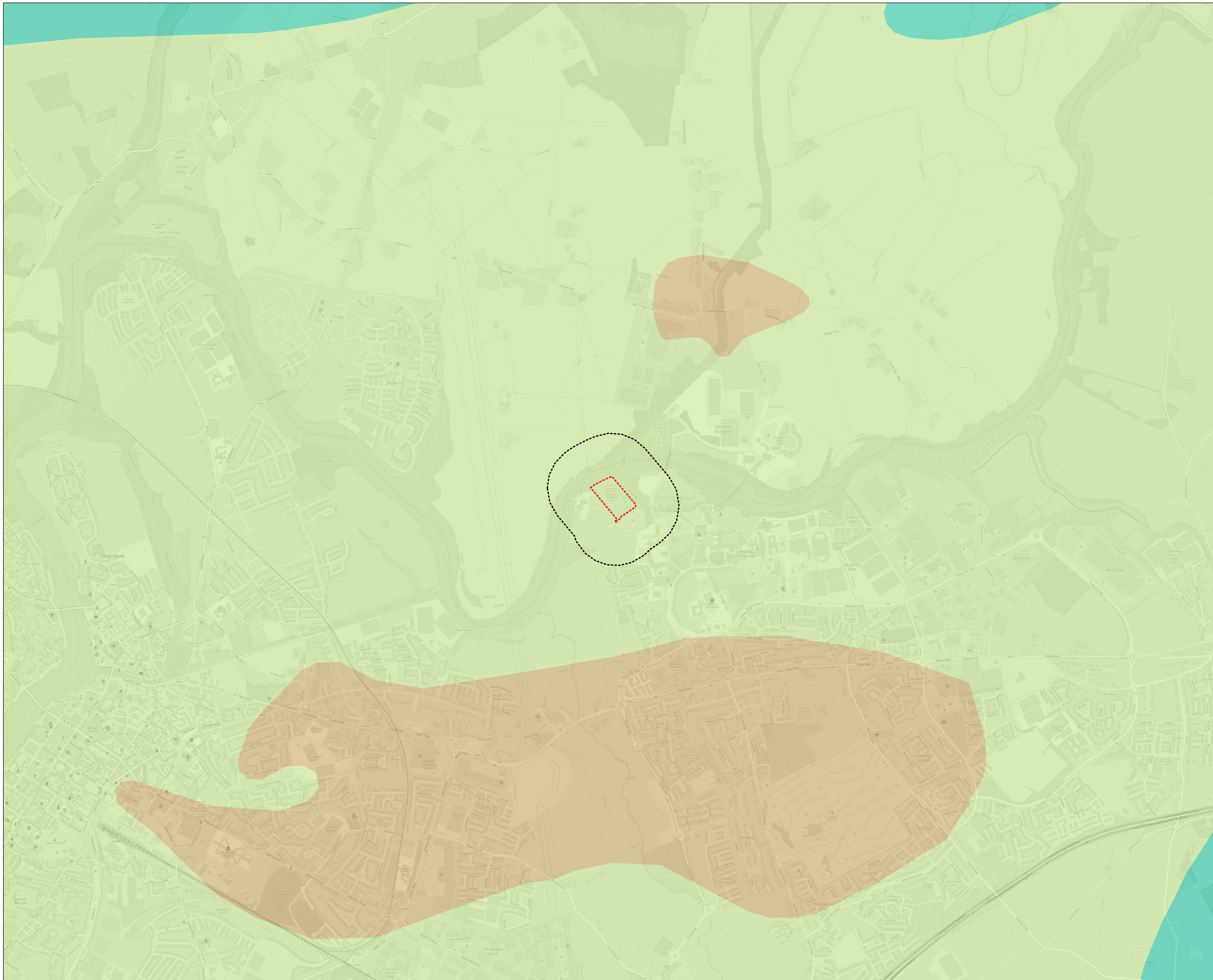
Project
**CASTLETROY WASTEWATER
 TREATMENT PLANT**

Drawing Title
**EIAR - LAND & SOILS
 FIGURE 13-4 GROUNDWATER WELLS & SPRINGS**

Drawn by: DW Date : MAY 2022
 Checked by: MC Date : MAY 2022
 Approved by: DOH Date : MAY 2022
 Internal Project Ref: 20701
 Scale: 1:10,000 @ A1

Stage: PLANNING

Drawing No.: 20701-JBB-00-XX-DR-Z-00104 Revision: P01 Suitability Code: S3





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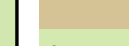
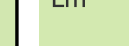
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LEGEND

Site Layout

-  Site Boundary
-  Study Area [250m]

Bedrock Aquifer Classifications

-  LI Locally Important Aquifer - Bedrock which is Generally Moderately Productive
-  Lm Locally Important Aquifer - Bedrock which is Moderately Productive only in Local Zones
-  Rkd Regionally Important Aquifer - Karstified (diffuse)

Rev.	Suit.	Description	Drawn	Chkd	Date

Client:

 **Irish Water**
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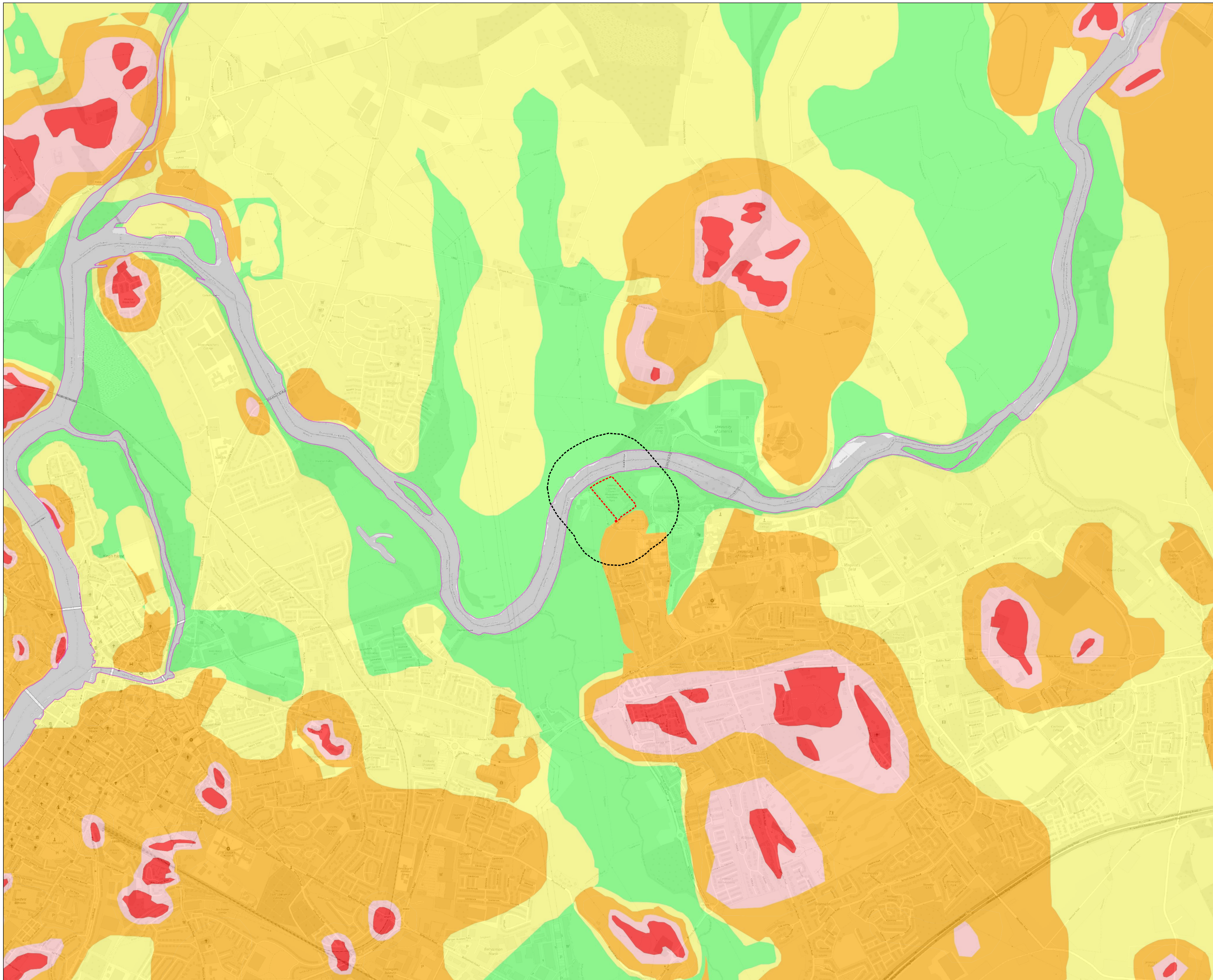
Project
 CASTLETROY WASTEWATER
 TREATMENT PLANT

Drawing Title
 EIAR - LAND & SOILS
 FIGURE 13-5 GROUNDWATER AQUIFERS

Drawn by: DW Date: MAY 2022
 Checked by: MC Date: MAY 2022
 Approved by: DOH Date: MAY 2022
 Internal Project Ref: 20701
 Scale: 1:10,000 @ A1

Stage: PLANNING

Drawing No.: 20701-JBB-00-XX-DR-Z-00105
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LEGEND

- Site Layout**
 Site Boundary
 Study Area [250m]
- National Groundwater Vulnerability**
 Rock at or near Surface or Karst
 Extreme
 High
 Moderate
 Low
 Water

Rev.	Suit.	Description	Drawn	Chkd	Date

Client:



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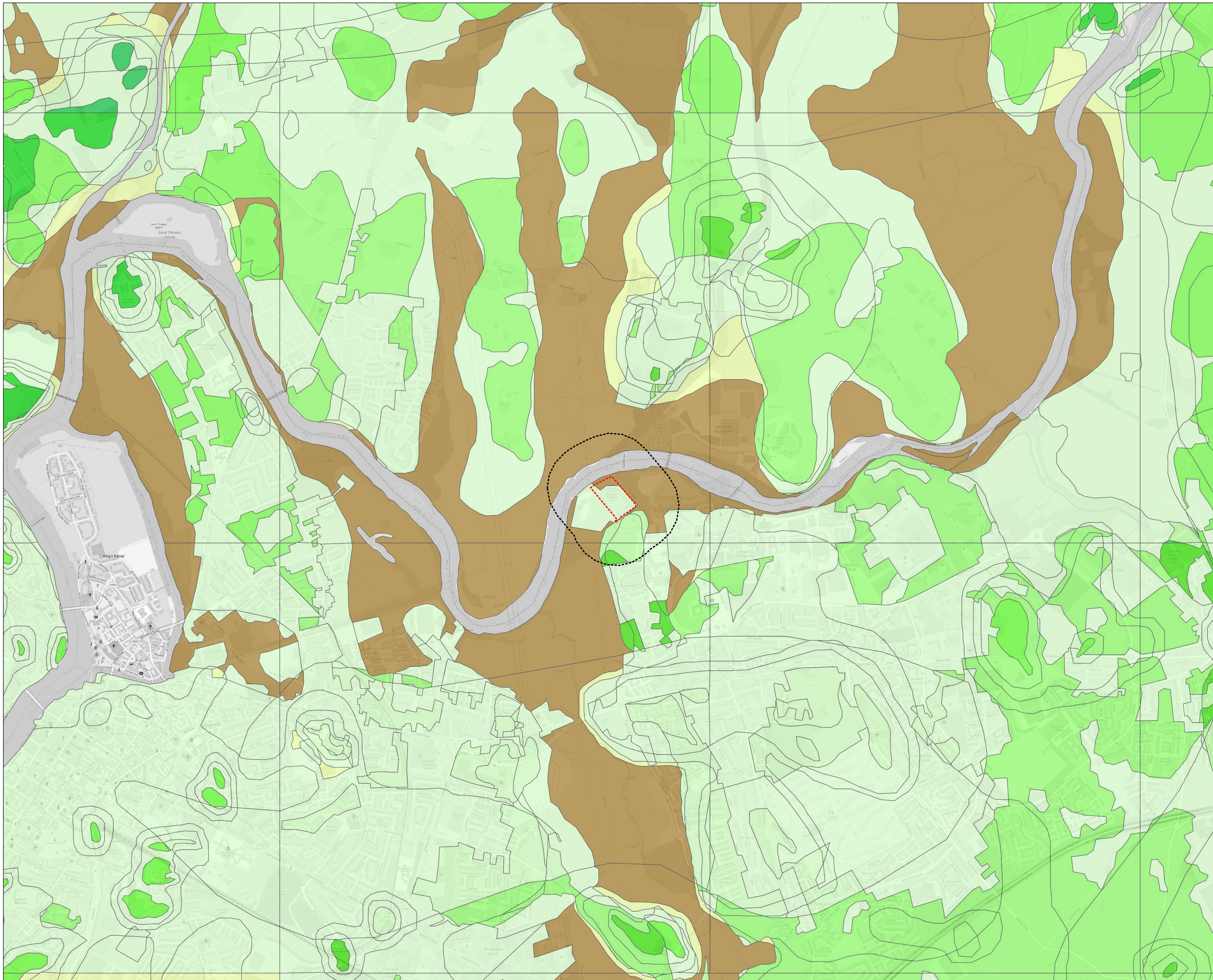
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Project
**CASTLETROY WASTEWATER
 TREATMENT PLANT**

Drawing Title
**EIAR - LAND & SOILS
 FIGURE 13-6 GROUNDWATER VULNERABILITY**

Drawn by: DW Date: MAY 2022
 Checked by: MC Date: MAY 2022
 Approved by: DOH Date: MAY 2022
 Internal Project Ref: 20701
 Scale: 1:10,000 @ A1

Stage: PLANNING
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 Revision: P01
 Suitability Code: S3



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LEGEND

Site Layout

- Site Boundary
- Study Area [250m]

Recharge Rate (mm/year)

- 1-50
- 51-100
- 101-150
- 151-200
- 201-250
- 251-300
- 301-350
- 351-400
- 401-450
- 451-500
- 501-550
- 551-600
- 601-700
- 701-800
- 801-900
- 901-1000
- 1001-1400
- 1401-2000
- >2000

Rev.	Suit.	Description	Drawn	Chkd	Date

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 Website: www.jbbarr.ie

Project: **CASTLETROY WASTEWATER TREATMENT PLANT**

Drawing Title: **EIAR - LAND & SOILS
 FIGURE 13-7 GROUNDWATER RECHARGE**

Drawn by: DW Date: MAY 2022
 Checked by: MC Date: MAY 2022
 Approved by: DOH Date: MAY 2022
 Internal Project Ref: 20701
 Scale: 1:10,000 @ A1

Stage: PLANNING
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 Revision: P01 Suitability Code: S3