

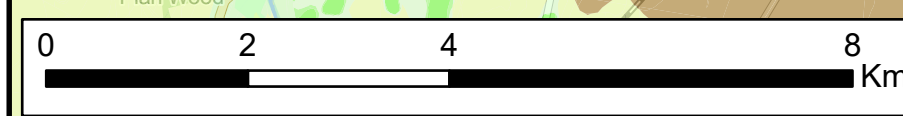
LEGEND

- RAILWAY STATIONS
- DEVELOPMENT BOUNDARY
- 100M BUFFER

GROUNDWATER RECHARGE (GSI)

ANNUAL RECHARGE (MM)

- 351-400 MM
- 301-350 MM
- 251-300 MM
- 201-250 MM
- 151-200 MM
- 101-150 MM
- 51-100 MM
- 1-50 MM



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| Rev | Date | Dn | Ch'd | App'd | Description |
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| P02 | 31/05/2024 | DM | MF | GS | PLANNING ISSUE |
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Client: **Irish Rail**

Engineering Designer: **ARUP**

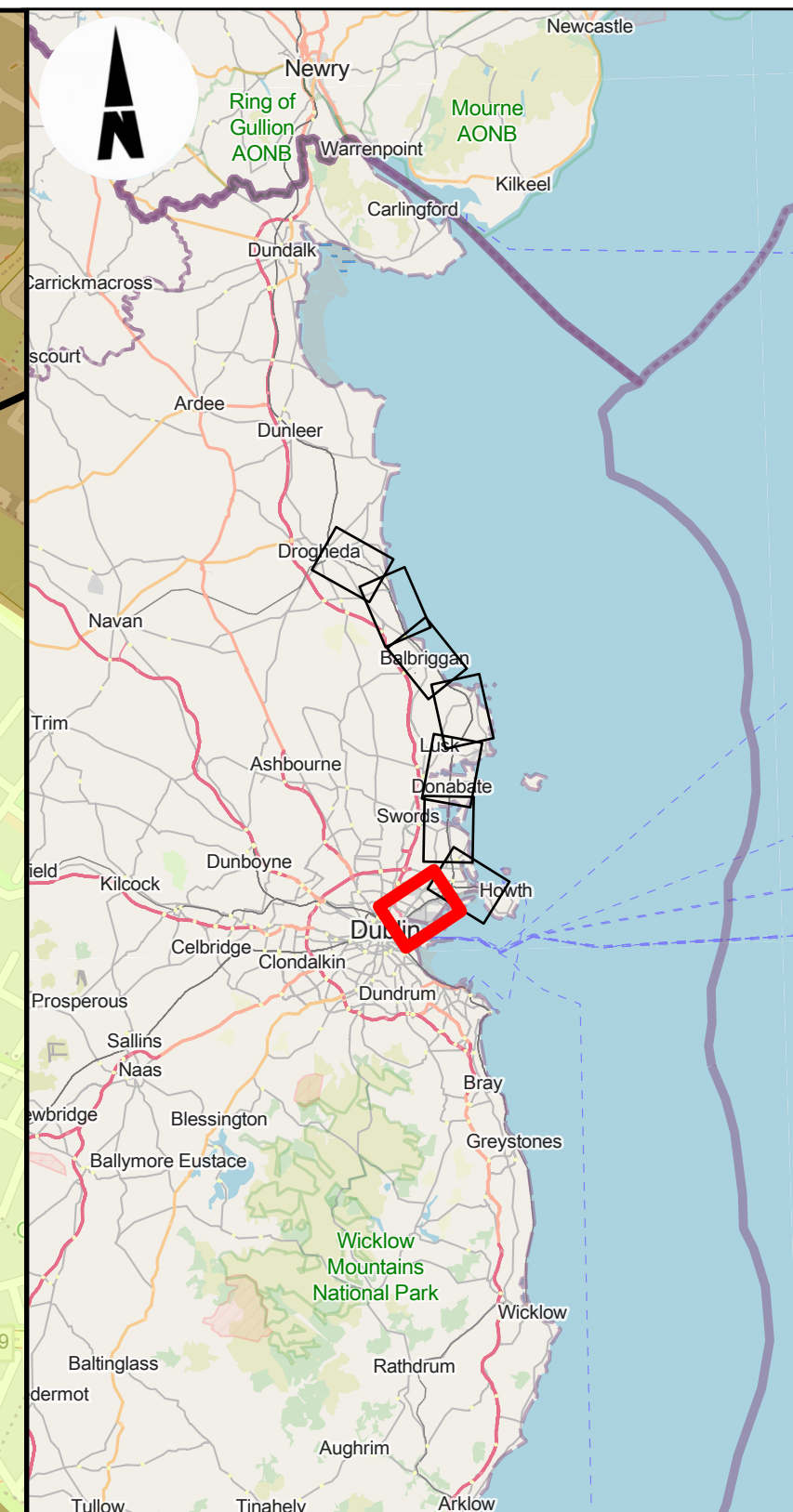
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| Project Code: D+WP56 | Originator Code: ARP | QMS Code: 279933-00 |
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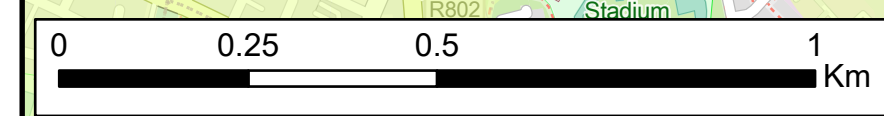
Project Title: **DART+ COASTAL NORTH**

Drawing Title: **HYDROGEOLOGY FIGURE 11.5: GROUNDWATER RECHARGE OVERVIEW**

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| Drawing File Name: D+WP56-ARP-ZZ-NL-DR-EVGT-100101 | Sheet Number: 1 of 9 | Status: S4 | Rev: P02 |
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- LEGEND**
- RAILWAY STATIONS
 - DEVELOPMENT BOUNDARY
 - 100M BUFFER
 - GROUNDWATER RECHARGE (GSI)**
 - ANNUAL RECHARGE (MM)**
 - 201-250 MM
 - 151-200 MM
 - 51-100 MM
 - 1-50 MM



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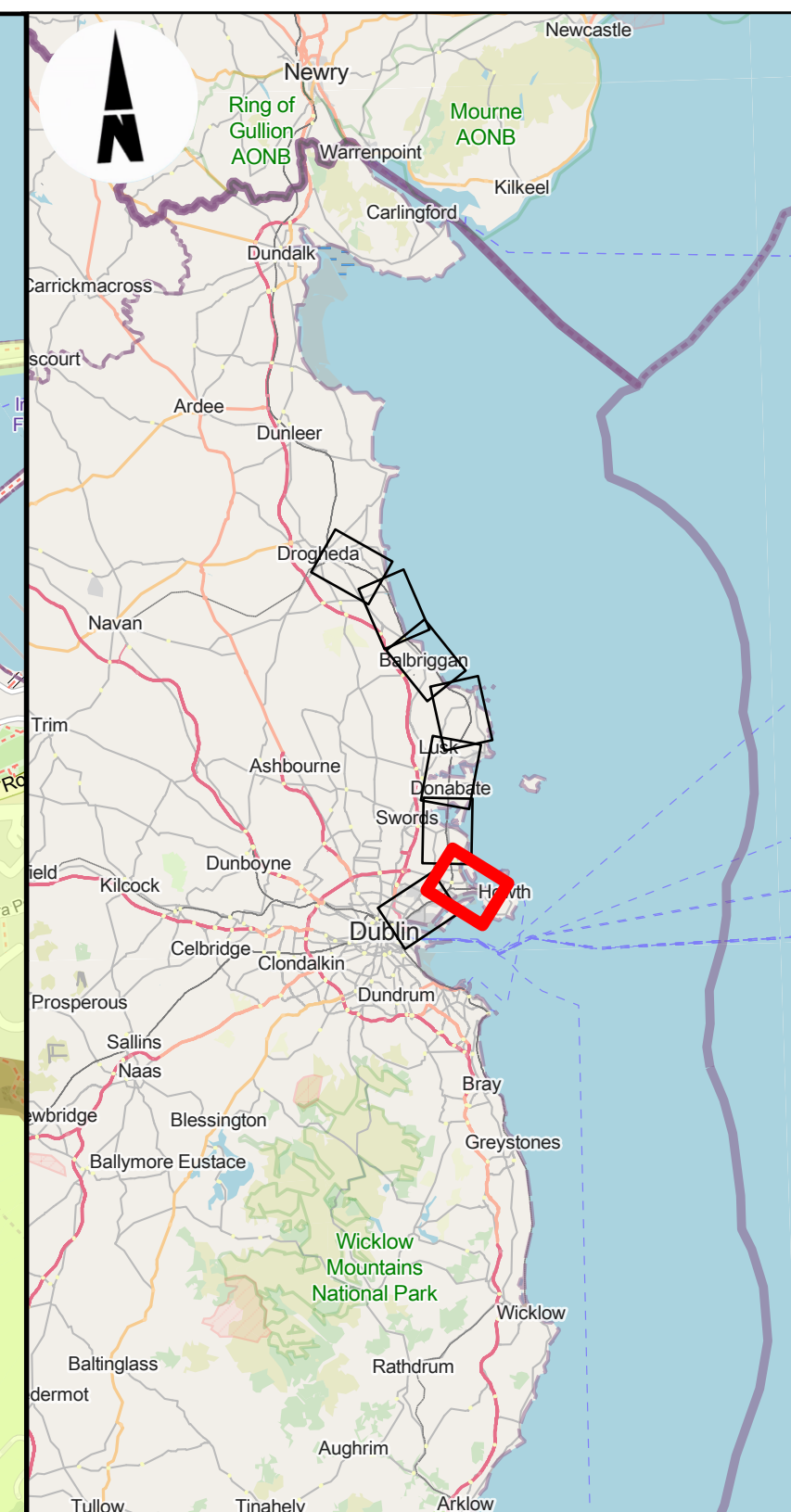
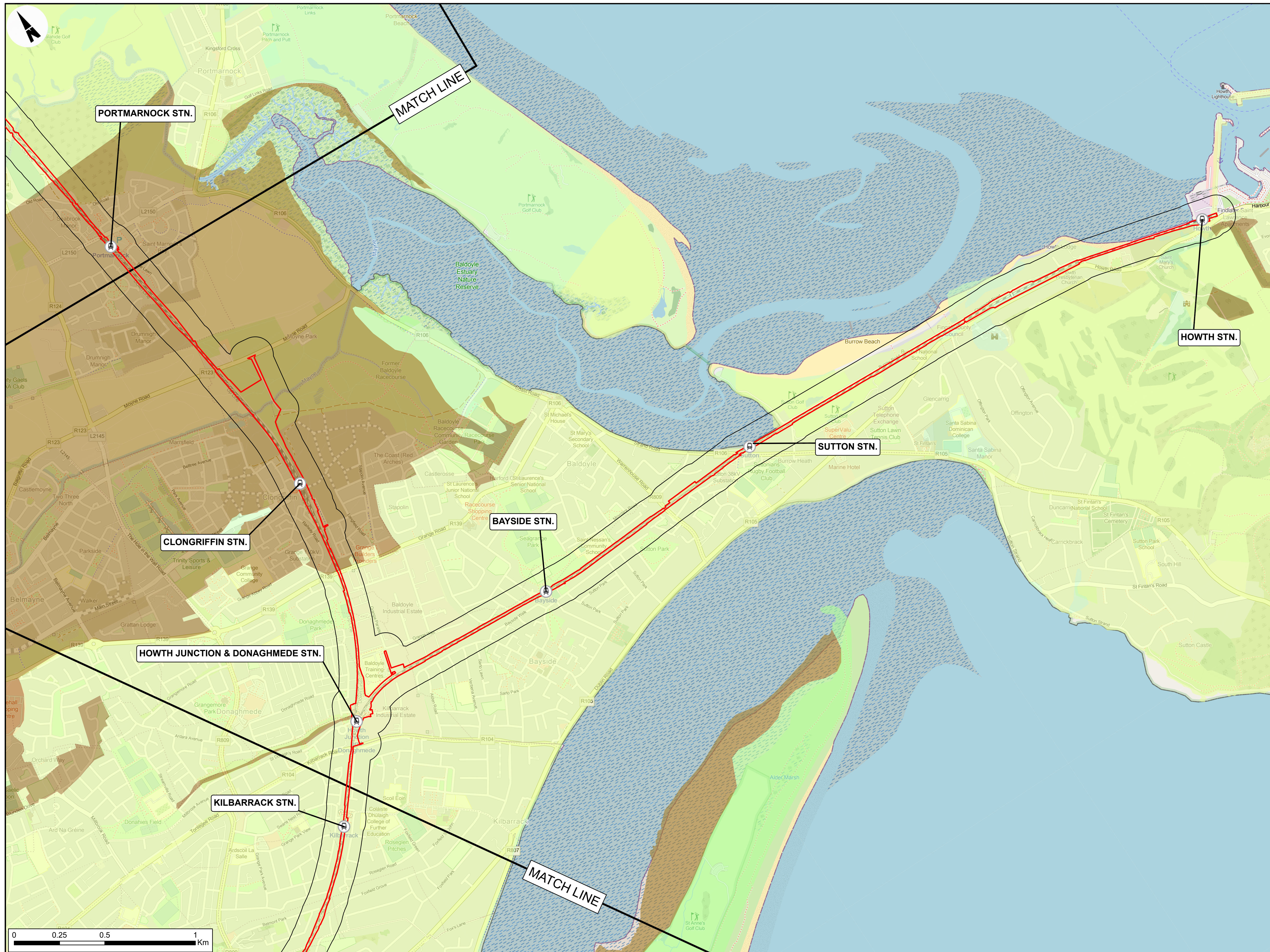
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| Rev | Date | Dn | Ch'd | App'd | Description |
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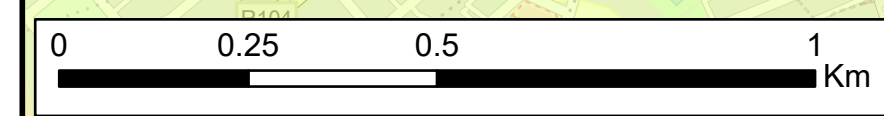
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| Project Code | D+WP56 | Originator Code | ARP | OMS Code | 279933-00 | | | | |

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| Project Title | DART+ COASTAL NORTH | | |
| Drawing Title | HYDROGEOLOGY FIGURE 11.5: GROUNDWATER RECHARGE | | |
| Drawing File Name | D+WP56-ARP-ZZ-NL-DR-EVGT-100102 | Sheet Number | 2 of 9 |
| Status | S4 | Rev | P02 |



LEGEND

- RAILWAY STATIONS
- DEVELOPMENT BOUNDARY
- 100M BUFFER
- GROUNDWATER RECHARGE (GSI)**
- ANNUAL RECHARGE (MM)**
- 201-250 MM
- 151-200 MM
- 51-100 MM
- 1-50 MM



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| Rev | Date | Dn | Chkd | App'd | Description |
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Client: **Iarnród Éireann Irish Rail**

Engineering Designer: **ARUP**

Date: 07/09/2023 | Scale: 1:10000 @ A1 1:20000 @ A3

Project Code: D+WP56 | Originator Code: ARP

Drawn: DM | Checked: MF | Approved: GS

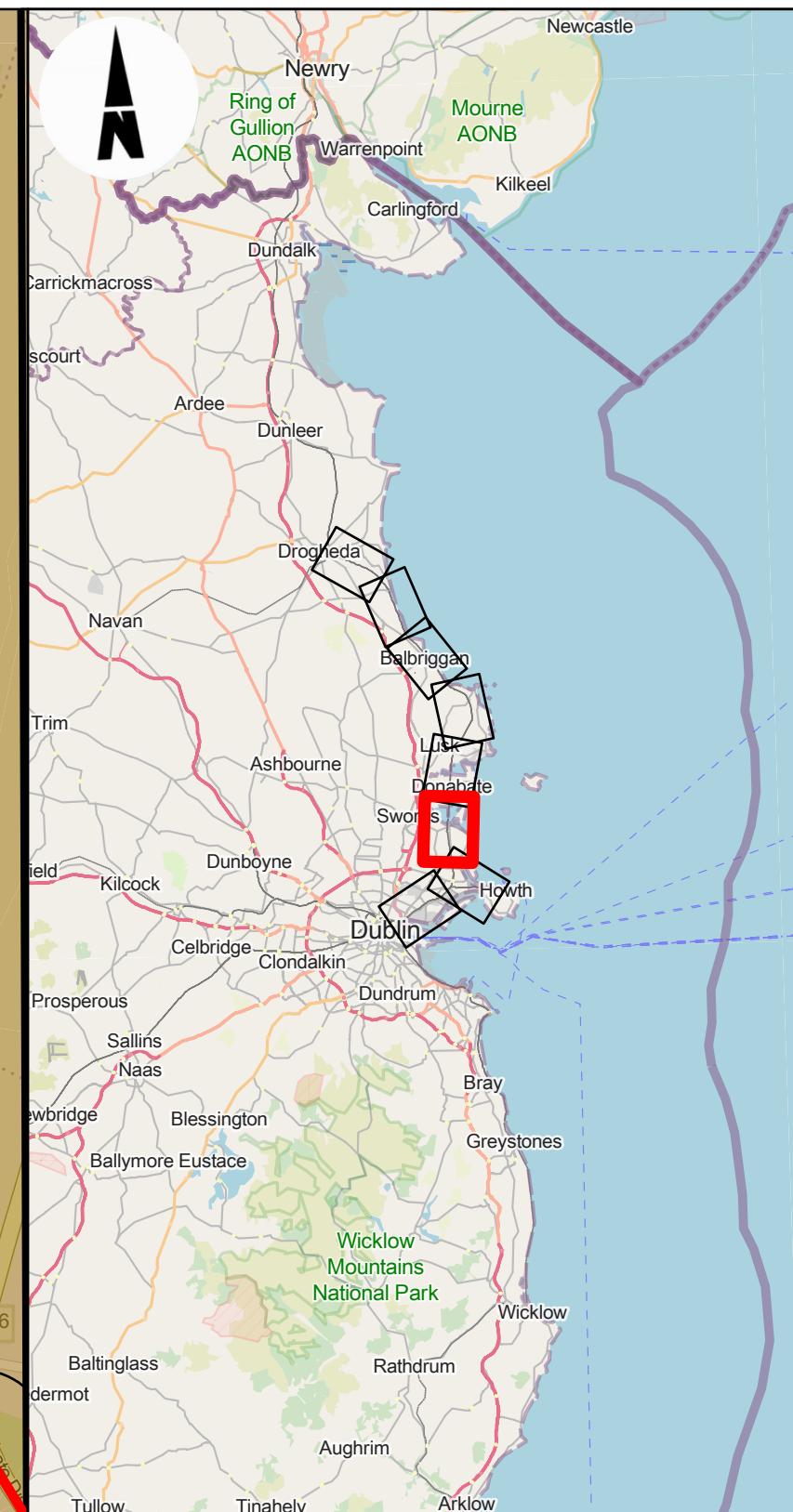
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Project Title: **DART+ COASTAL NORTH**

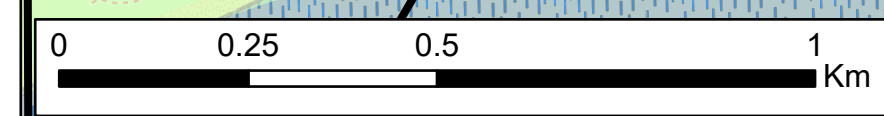
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FIGURE 11.5: GROUNDWATER RECHARGE**

Drawing File Name: D+WP56-ARP-ZZ-NL-DR-EVGT-100103

Sheet Number: 3 of 9 | Status: S4 | Rev: P02



- LEGEND**
- RAILWAY STATIONS
 - DEVELOPMENT BOUNDARY
 - 100M BUFFER
- GROUNDWATER RECHARGE (GSI)**
- ANNUAL RECHARGE (MM)
- 151-200 MM
 - 51-100 MM
 - 1-50 MM



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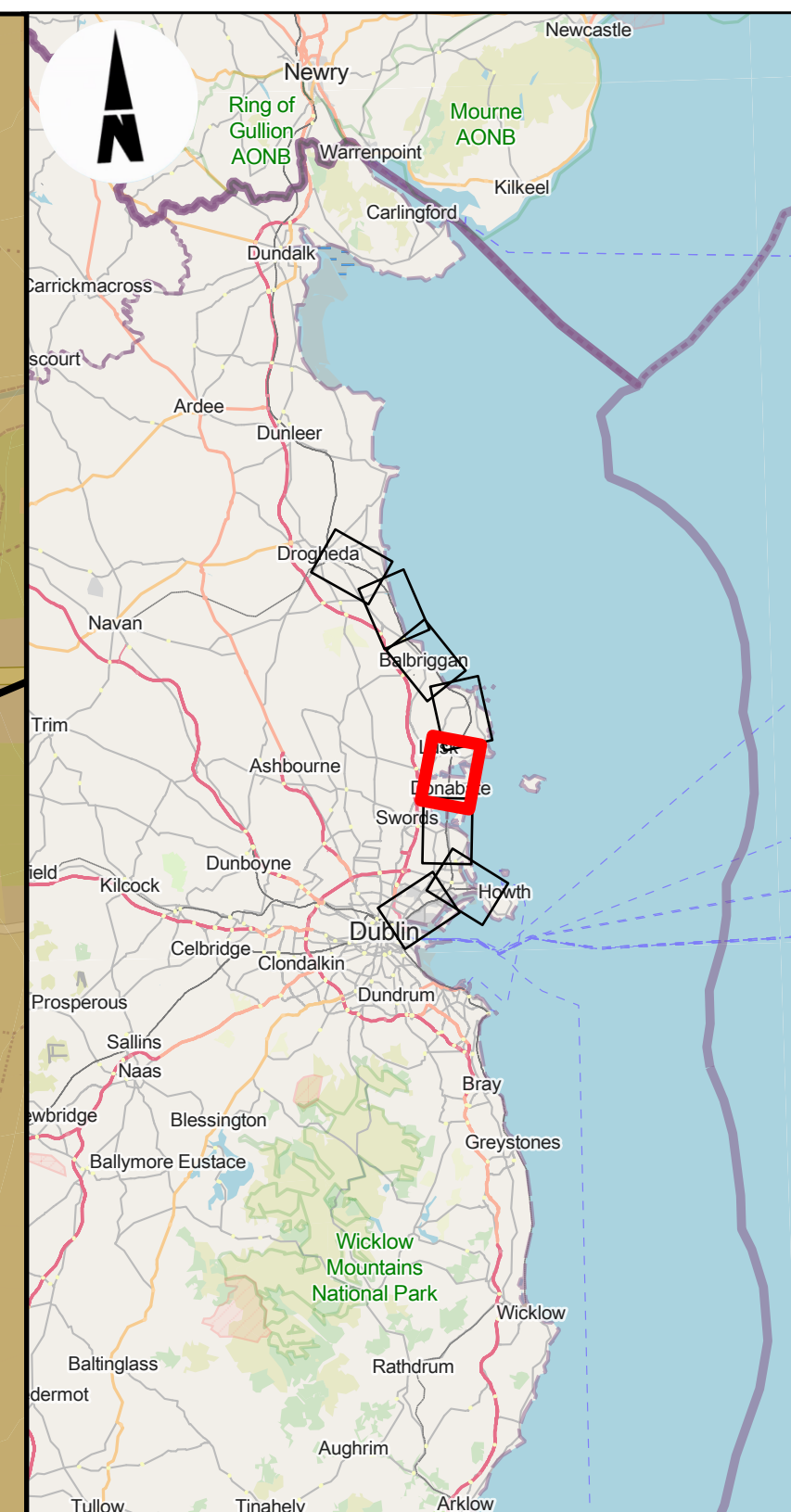
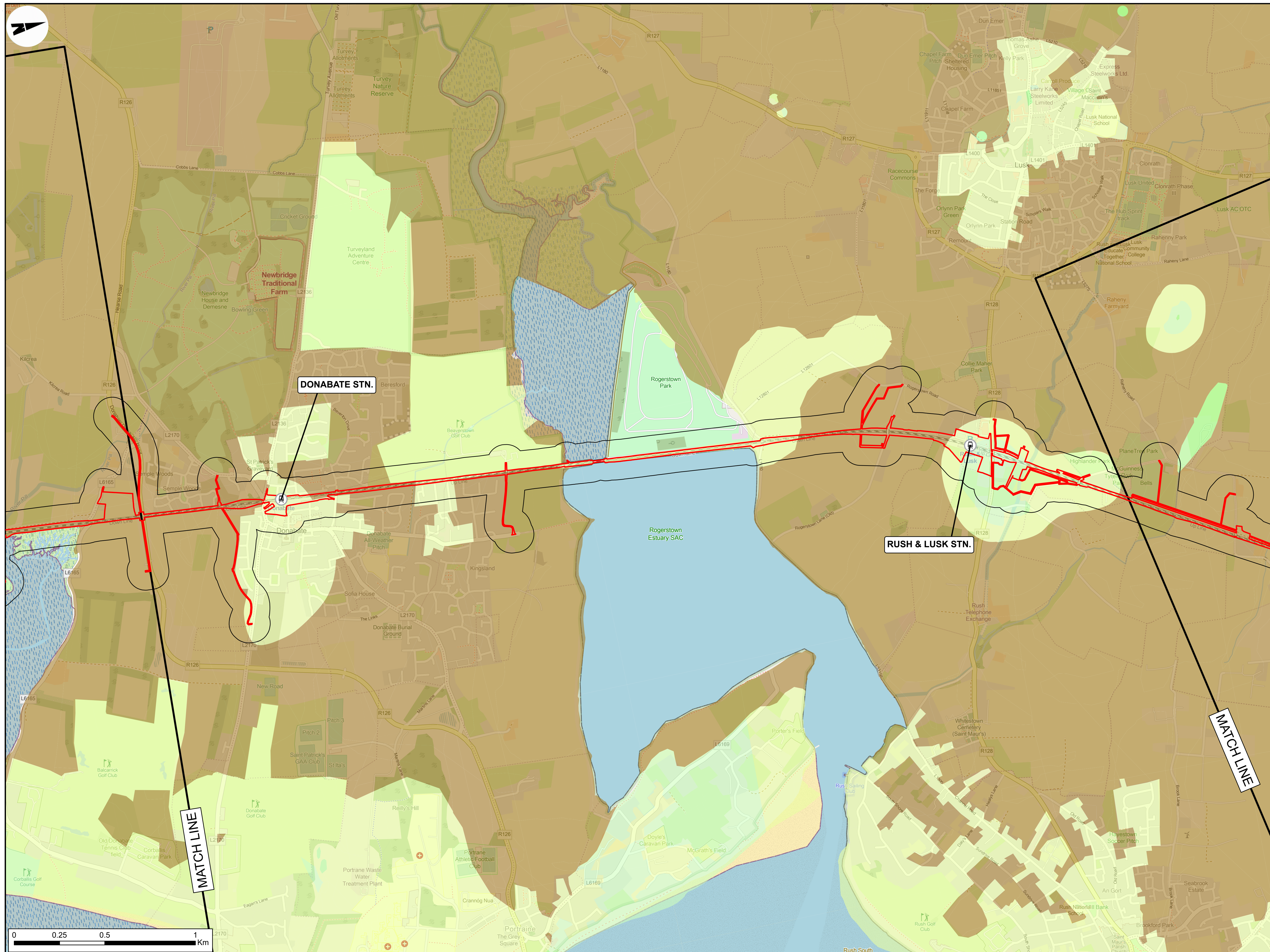
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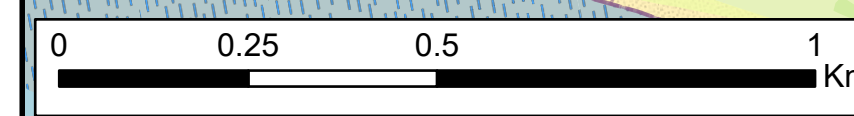
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| Project Code | Originator Code | QMS Code | Approved |
| D+WP56 | ARP | 279933-00 | GS |

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| Project Title | |
| DART+ COASTAL NORTH | |
| Drawing Title | |
| HYDROGEOLOGY FIGURE 11.5: GROUNDWATER RECHARGE | |
| Drawing File Name | Sheet Number |
| D+WP56-ARP-ZZ-NL-DR-EVGT-100104 | 4 of 9 |
| Status | Rev |
| S4 | P02 |

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| Client | | Engineering Designer | |
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| 07/09/2023 | 1:10000 @ A1 1:20000 @ A3 | DM | MF |
| Project Code | Originator Code | QMS Code | Approved |
| D+WP56 | ARP | 279933-00 | GS |



- LEGEND**
- RAILWAY STATIONS
 - DEVELOPMENT BOUNDARY
 - 100M BUFFER
 - GROUNDWATER RECHARGE (GSI)**
 - ANNUAL RECHARGE (MM)**
 - 251-300 MM
 - 201-250 MM
 - 151-200 MM
 - 51-100 MM
 - 1-50 MM



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DART+ Coastal North

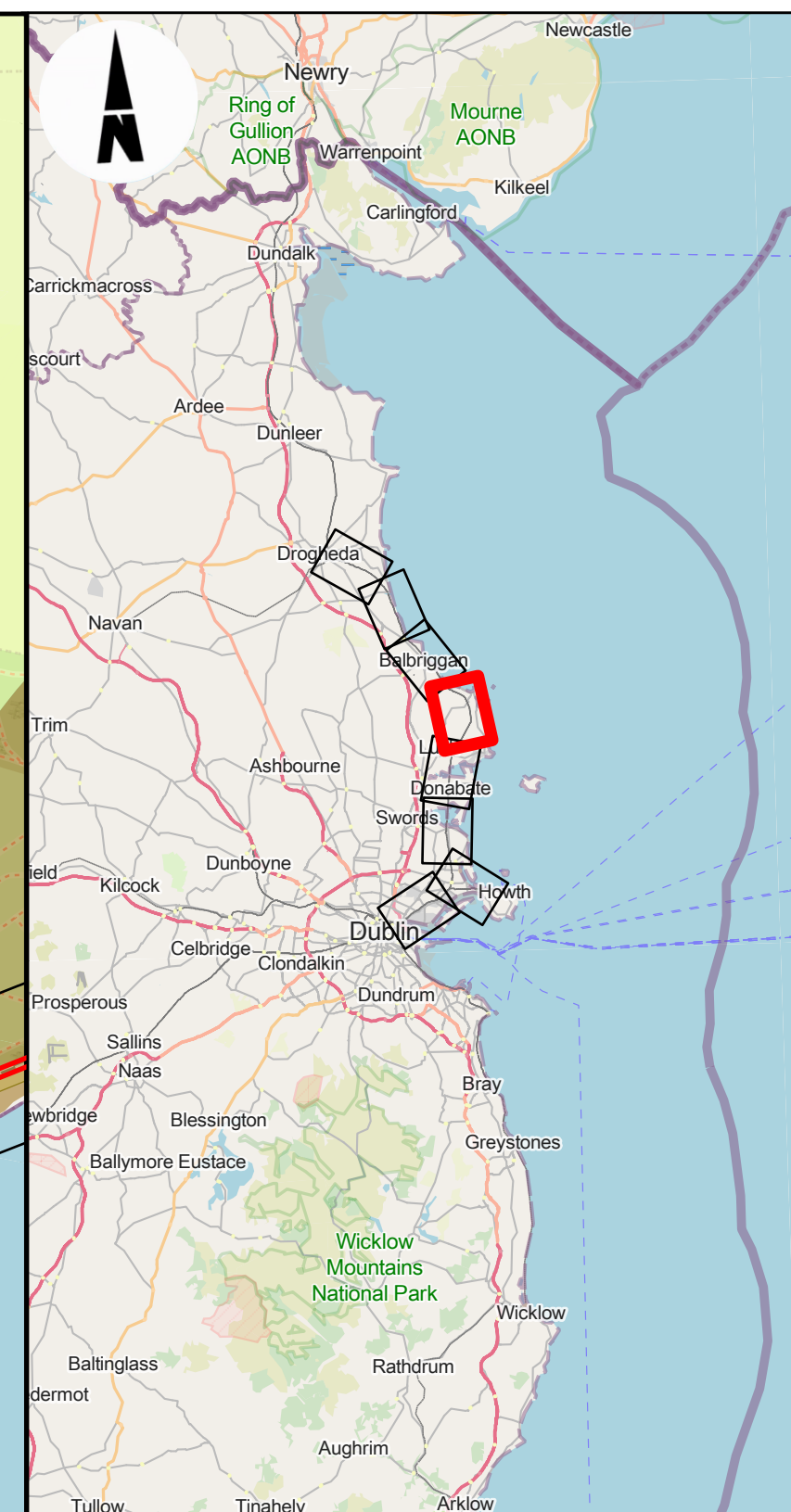
NTA
 Údarás Náisiúnta Iompartha
 National Transport Authority

Tionscadal Éireann
 Project Ireland
2040

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| Client | | Engineering Designer | | Project Title | |
| Iarnród Éireann Irish Rail | | ARUP | | DART+ COASTAL NORTH | |
| Date | Scale | Drawn | Checked | Approved | |
| 07/09/2023 | 1:10000 @ A1 1:20000 @ A3 | DM | MF | GS | |
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| D+WP56 | ARP | 279933-00 | | | |

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| Drawing Title | | Sheet Number | | Status | Rev |
| HYDROGEOLOGY FIGURE 11.5: GROUNDWATER RECHARGE | | 5 of 9 | | S4 | P02 |
| Drawing File Name | | | | | |
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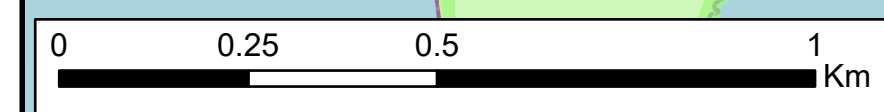
LEGEND

- RAILWAY STATIONS
- DEVELOPMENT BOUNDARY
- 100M BUFFER

GROUNDWATER RECHARGE (GSI)

ANNUAL RECHARGE (MM)

- 251-300 MM
- 201-250 MM
- 151-200 MM
- 101-150 MM
- 51-100 MM
- 1-50 MM



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Client: **Irish Rail**

Engineering Designer: **ARUP**

Date: 07/09/2023 | Scale: 1:10000 @ A1 1:20000 @ A3

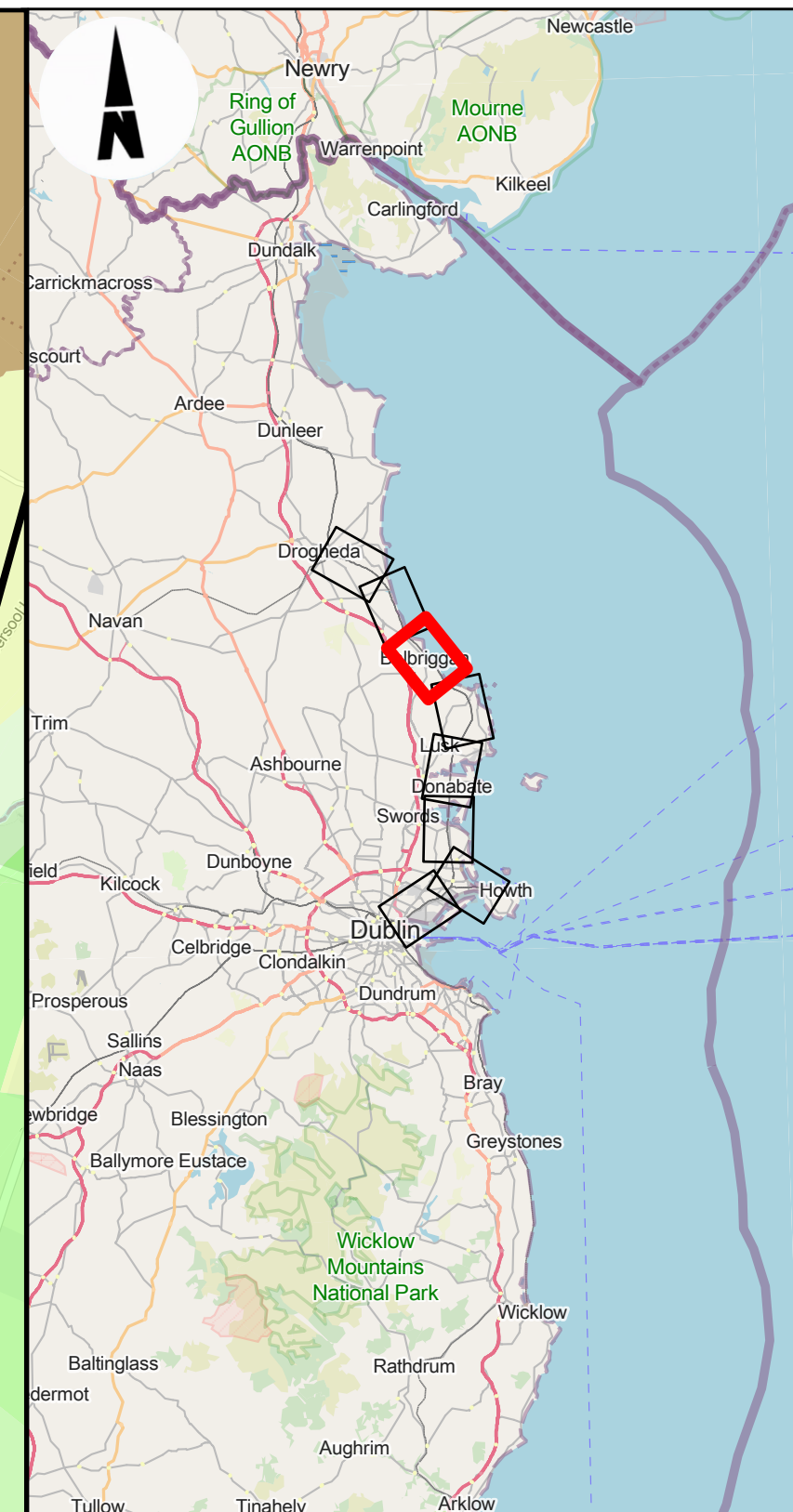
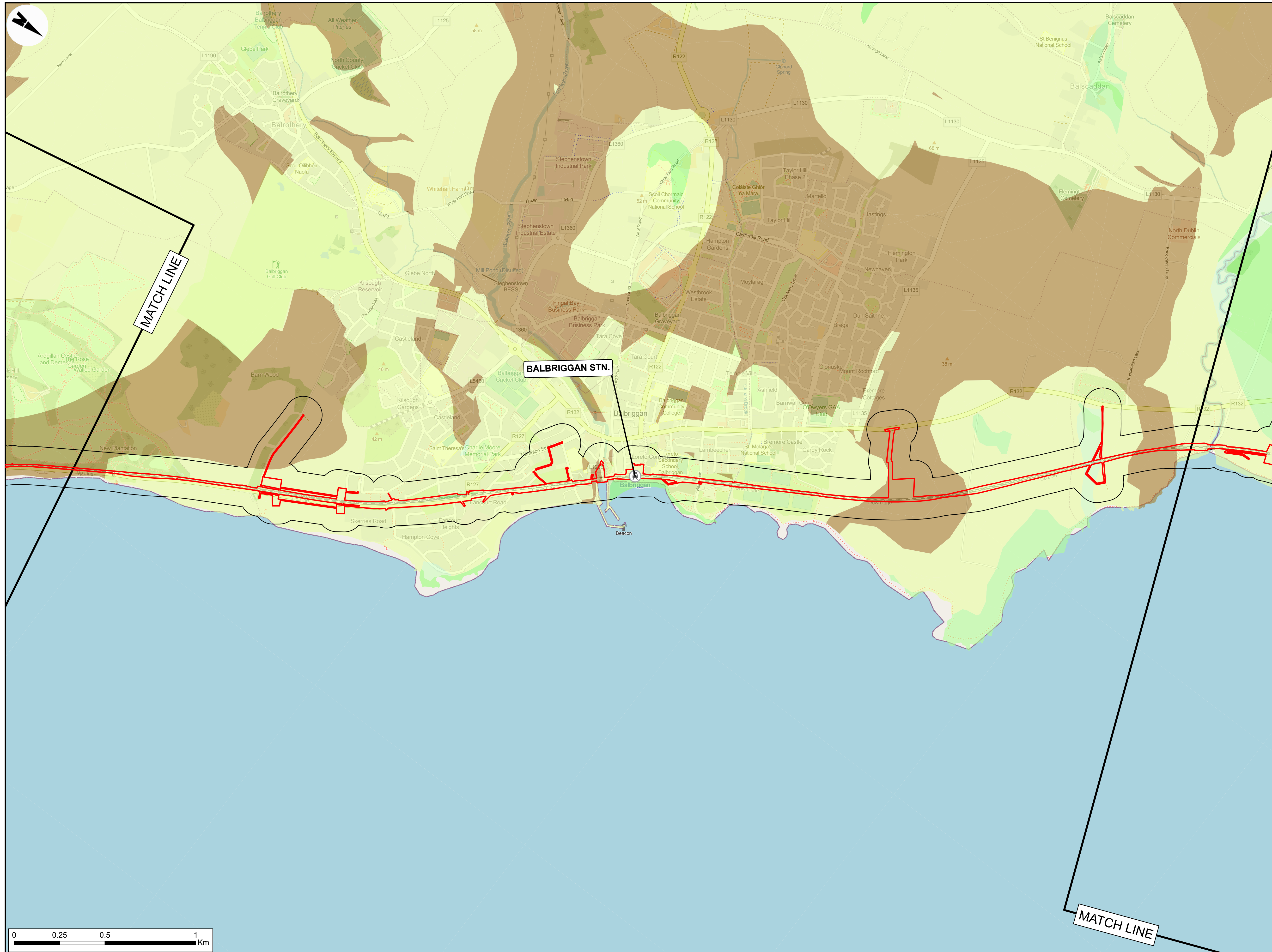
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| Project Code: D+WP56 | Originator Code: ARP | OMS Code: 279933-00 |
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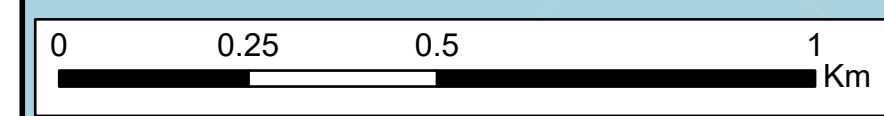
Project Title: **DART+ COASTAL NORTH**

Drawing Title: **HYDROGEOLOGY
FIGURE 11.5: GROUNDWATER RECHARGE**

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| Drawing File Name: D+WP56-ARP-ZZ-NL-DR-EVGT-100106 | Sheet Number: 6 of 9 | Status: S4 | Rev: P02 |
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- LEGEND**
- RAILWAY STATIONS
 - DEVELOPMENT BOUNDARY
 - 100M BUFFER
 - GROUNDWATER RECHARGE (GSI)**
 - ANNUAL RECHARGE (MM)**
 - 301-350 MM
 - 251-300 MM
 - 201-250 MM
 - 151-200 MM
 - 101-150 MM
 - 51-100 MM
 - 1-50 MM



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| P02 | 31/05/2024 | DM | MF | GS | PLANNING ISSUE |
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Client: **Irish Rail**

Engineering Designer: **ARUP**

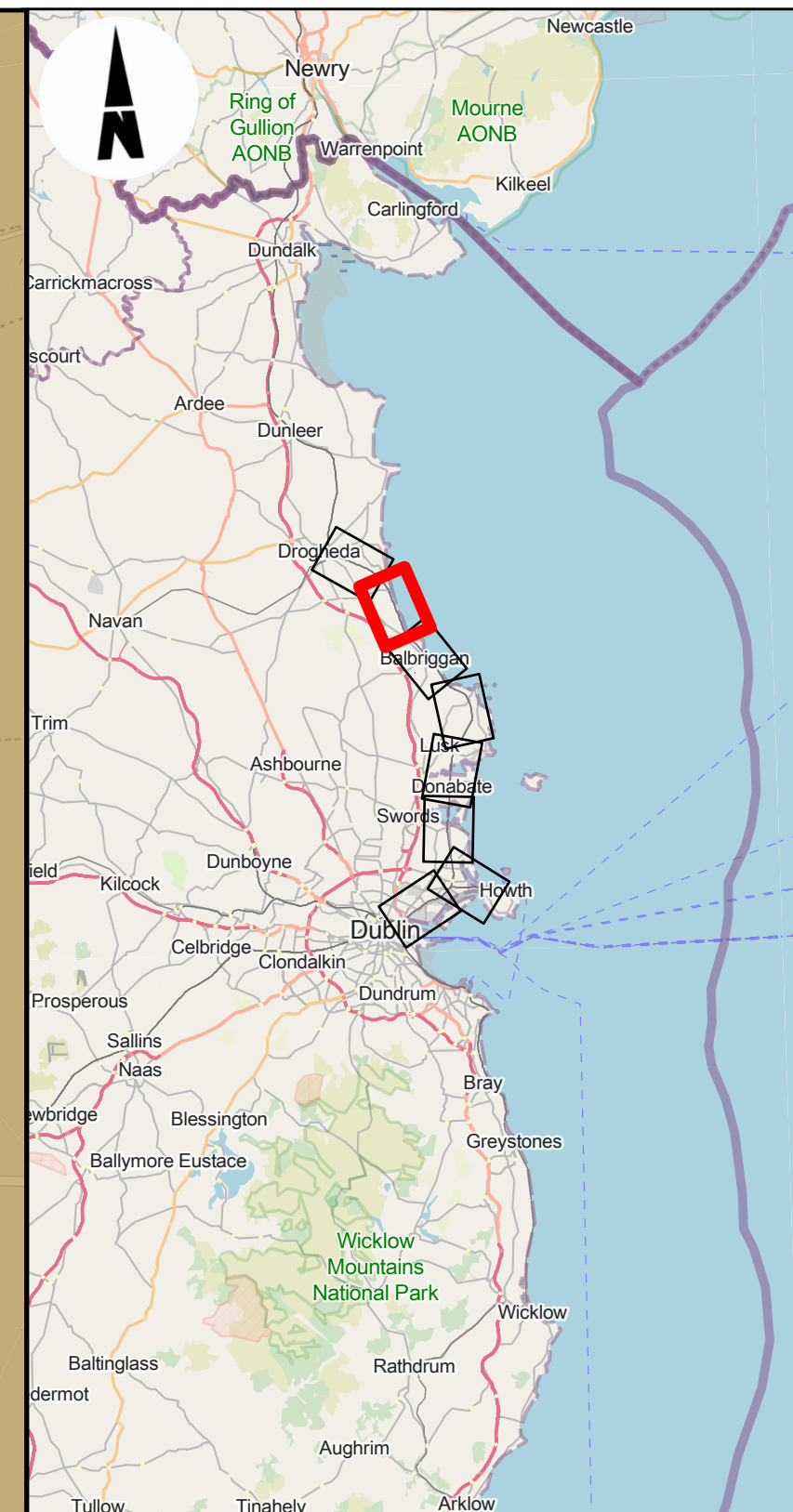
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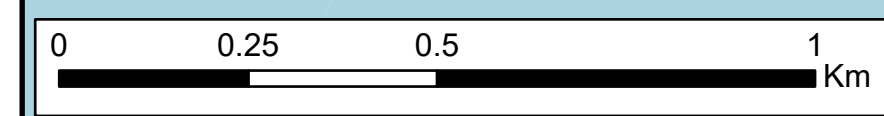
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QMS Code: 279933-00

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| Drawing Title: HYDROGEOLOGY FIGURE 11.5: GROUNDWATER RECHARGE | | | |
| Drawing File Name: D+WP56-ARP-ZZ-NL-DR-EVGT-100107 | Sheet Number: 7 of 9 | Status: S4 | Rev: P02 |



- LEGEND**
- RAILWAY STATIONS
 - DEVELOPMENT BOUNDARY
 - 100M BUFFER
 - GROUNDWATER RECHARGE (GSI)**
 - ANNUAL RECHARGE (MM)**
 - 251-300 MM
 - 201-250 MM
 - 101-150 MM
 - 51-100 MM
 - 1-50 MM



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| P02 | 31/05/2024 | DM | MF | GS | PLANNING ISSUE |
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Client: **Irish Rail**

Engineering Designer: **ARUP**

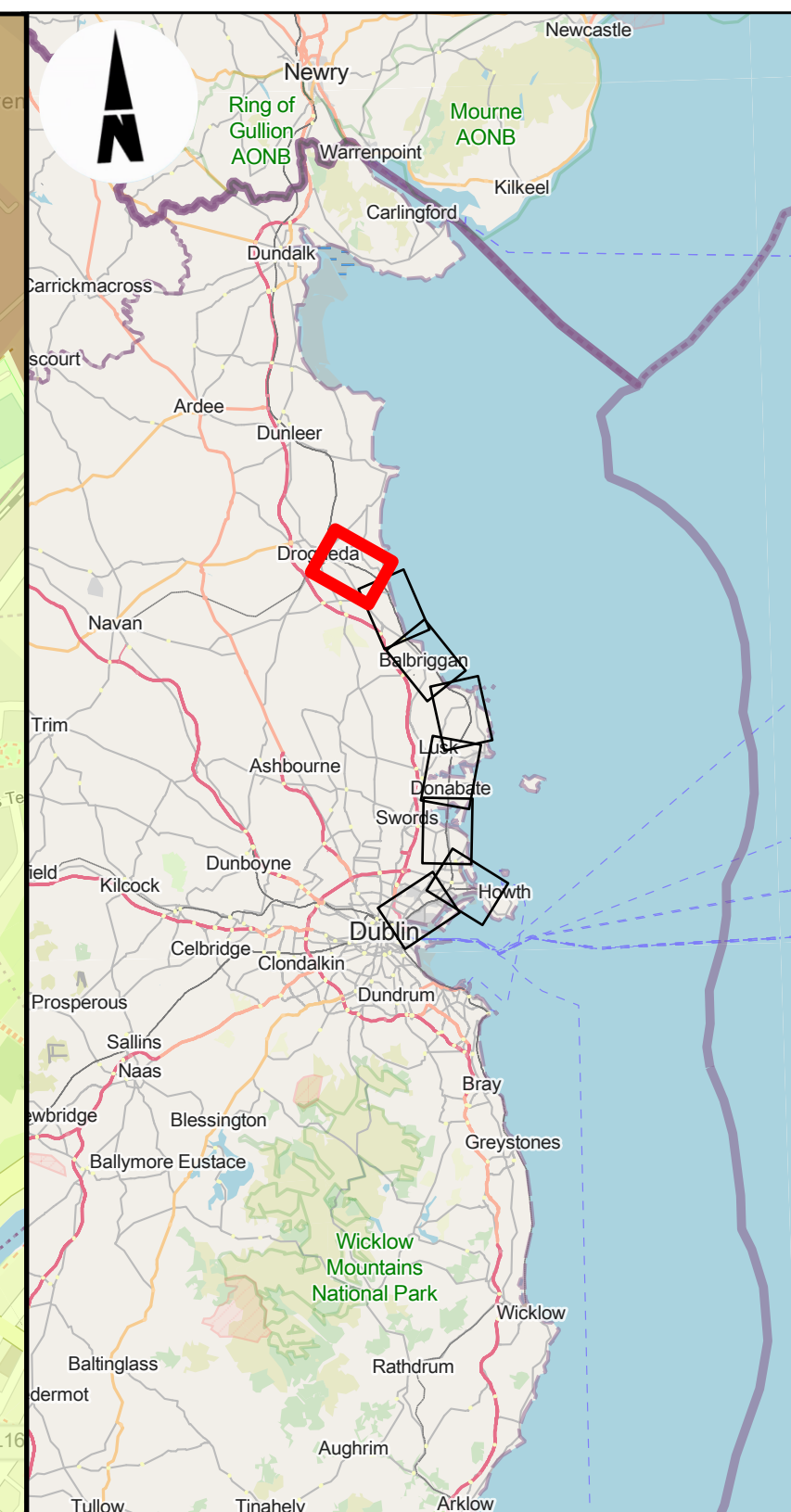
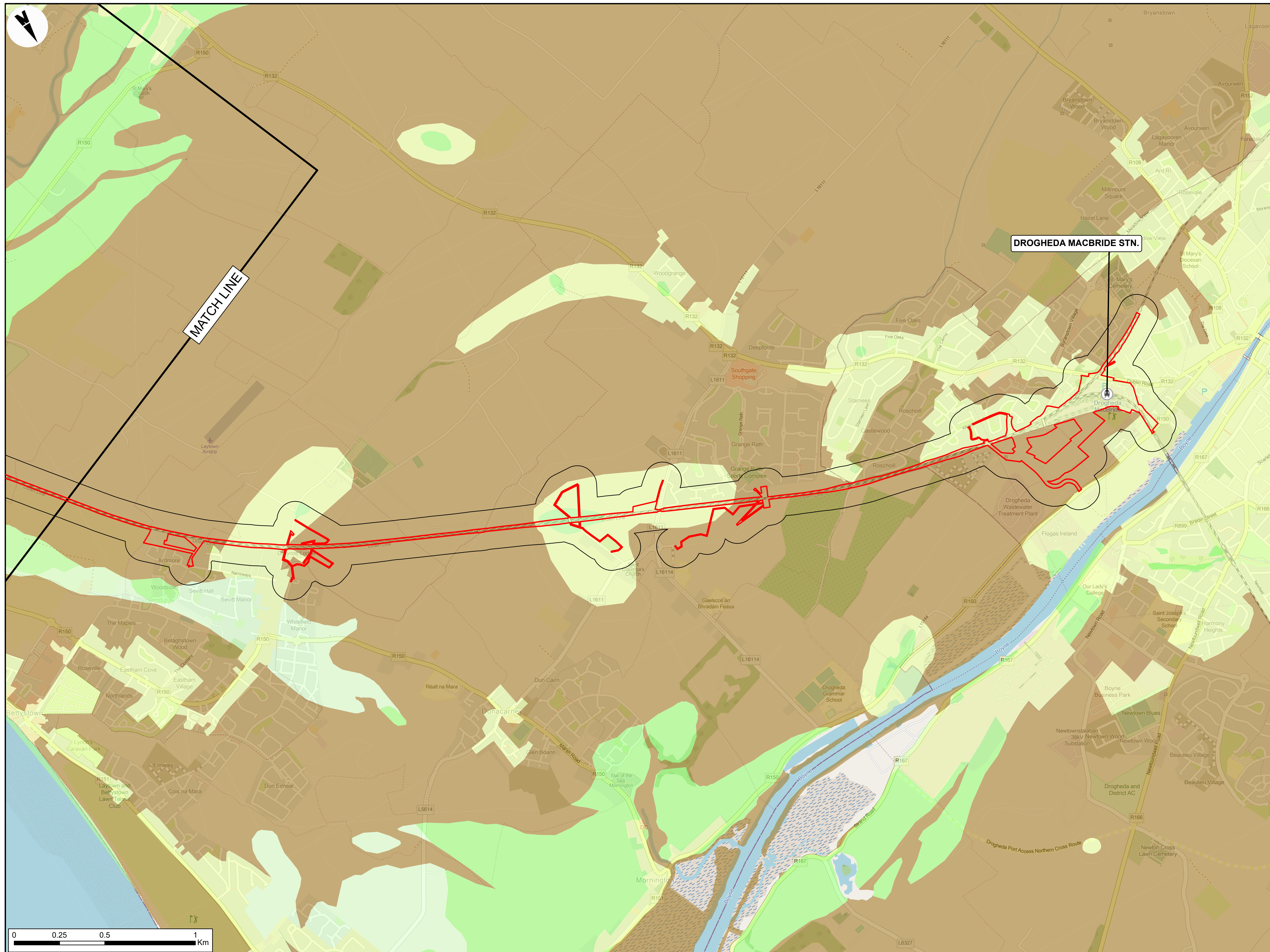
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Project Code: D+WP56 | Originator Code: ARP

Drawn: DM | Checked: MF | Approved: GS

QMS Code: 279933-00

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| Project Title: DART+ COASTAL NORTH | | | |
| Drawing Title: HYDROGEOLOGY FIGURE 11.5: GROUNDWATER RECHARGE | | | |
| Drawing File Name: D+WP56-ARP-ZZ-NL-DR-EVGT-100108 | Sheet Number: 8 of 9 | Status: S4 | Rev: P02 |



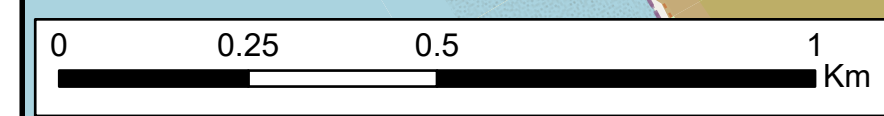
LEGEND

- RAILWAY STATIONS
- DEVELOPMENT BOUNDARY
- 100M BUFFER

GROUNDWATER RECHARGE (GSI)

ANNUAL RECHARGE (MM)

- 301-350 MM
- 251-300 MM
- 201-250 MM
- 101-150 MM
- 51-100 MM
- 1-50 MM



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Client: **Irish Rail**

Engineering Designer: **ARUP**

Date: 07/09/2023 | Scale: 1:10000 @ A1 1:20000 @ A3

Project Code: D+WP56 | Originator Code: ARP

QMS Code: 279933-00

Drawn: DM | Checked: MF | Approved: GS

Project Title: **DART+ COASTAL NORTH**

Drawing Title: **HYDROGEOLOGY
FIGURE 11.5: GROUNDWATER RECHARGE**

Drawing File Name: D+WP56-ARP-ZZ-NL-DR-EVGT-100109

Sheet Number: 9 of 9 | Status: S4 | Rev: P02