The Great Grid Upgrade

Weston Marsh to East Leicestershire

Draft Environmental Statement

Appendix 11A Phase 1 Geotechnical and Geo-environmental Desktop Studies (2 of 12)

EN0210007

August 2026

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11A. Phase 1 Geotechnical and Geo-environmental Desktop Studies

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The Great Grid Upgrade

Weston Marsh to East Leicestershire

Phase 1 Geotechnical and Geo-Environmental Desktop Study Report

Weston Marsh to WMEL A Overhead Line

June 2026

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Appendix A
Figures

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Appendix A Figures

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Figure 8. Hydrology and Flooding

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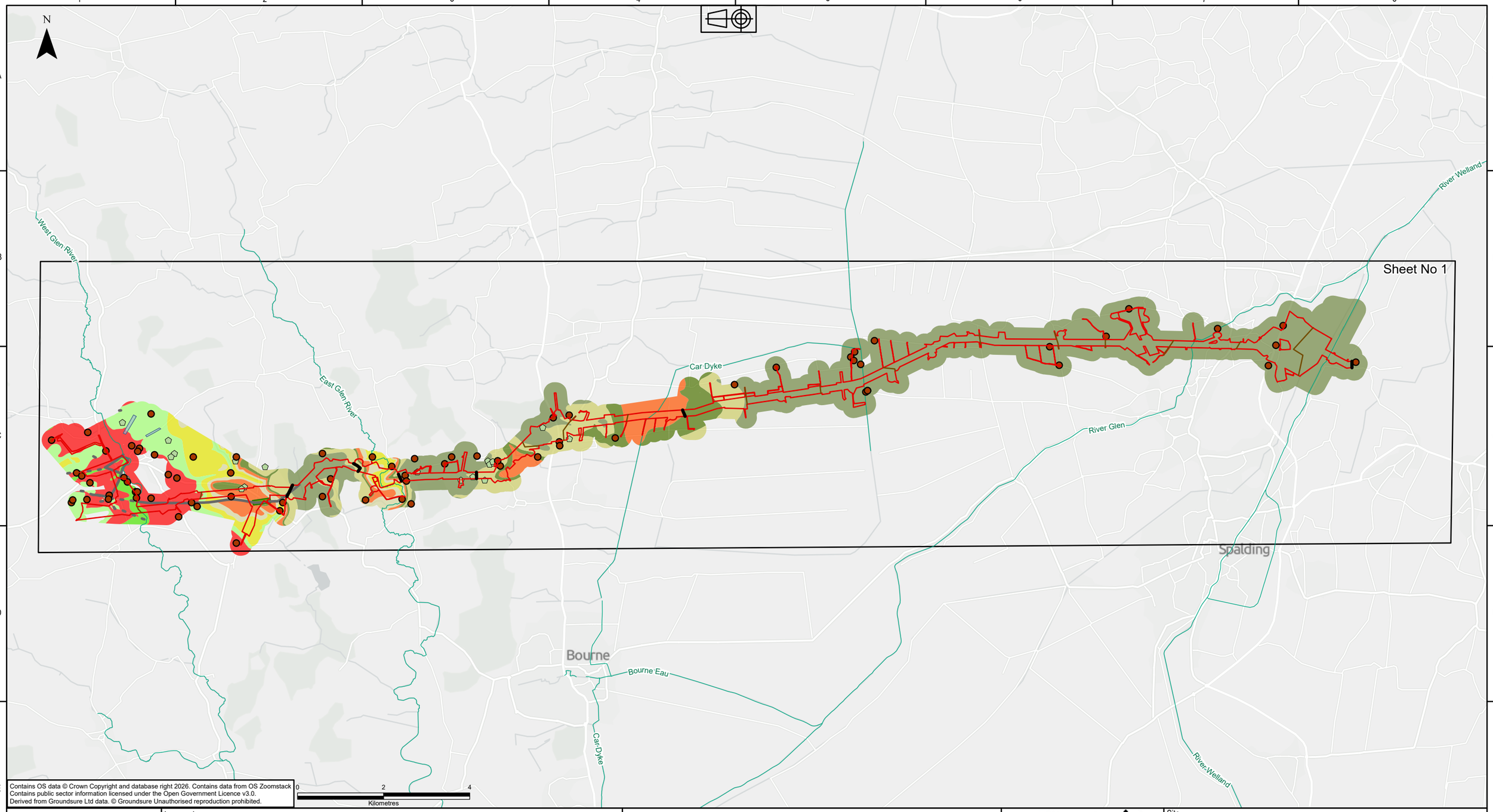

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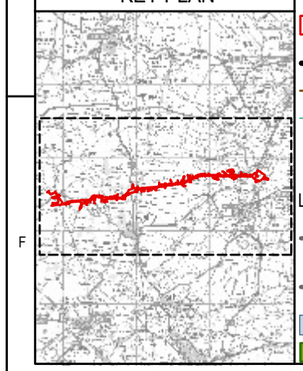

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- Possible Swallow Hole

Linear Features 50K

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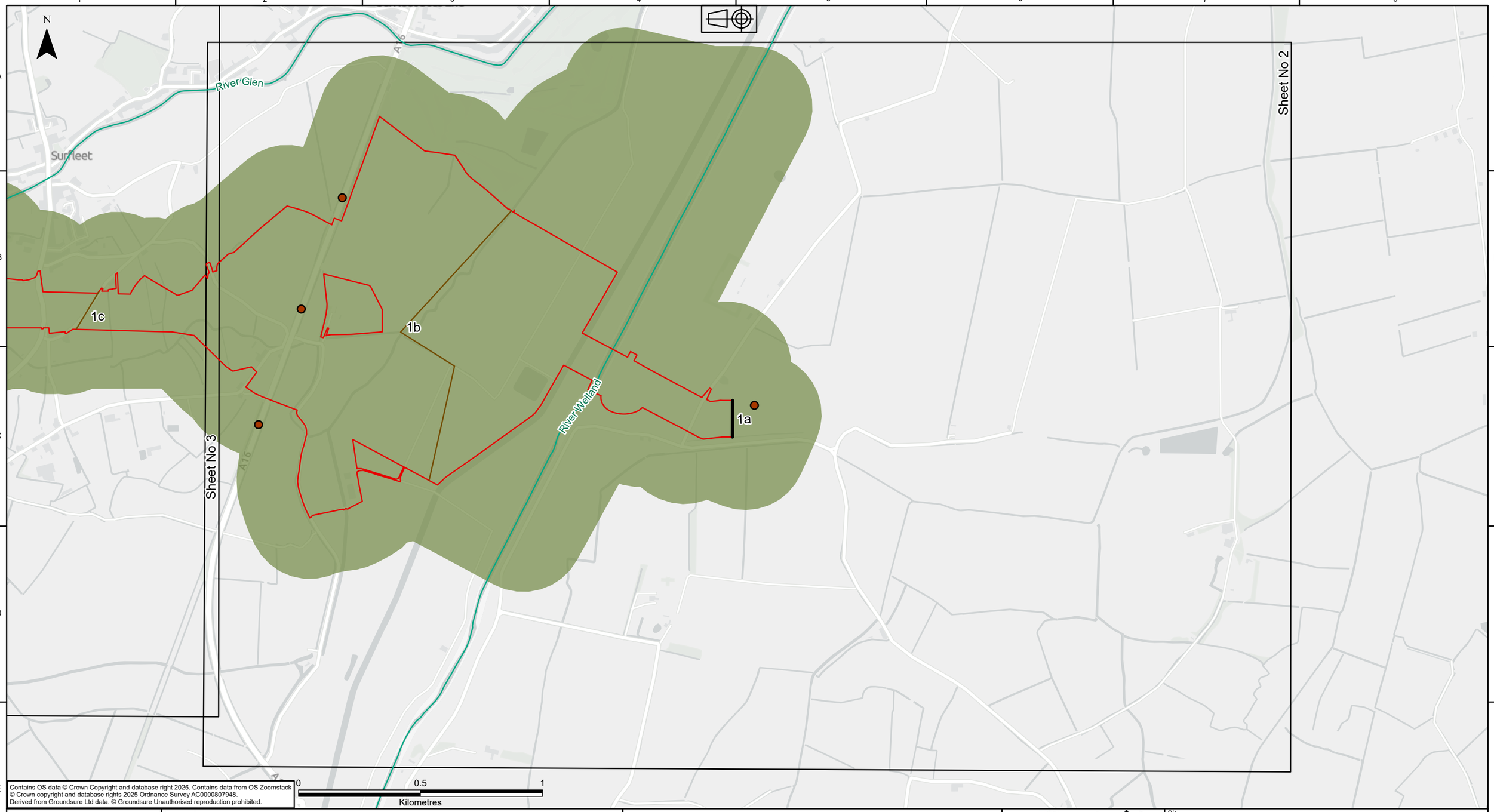

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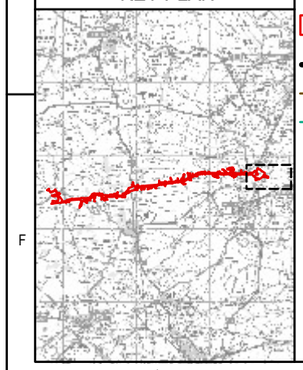

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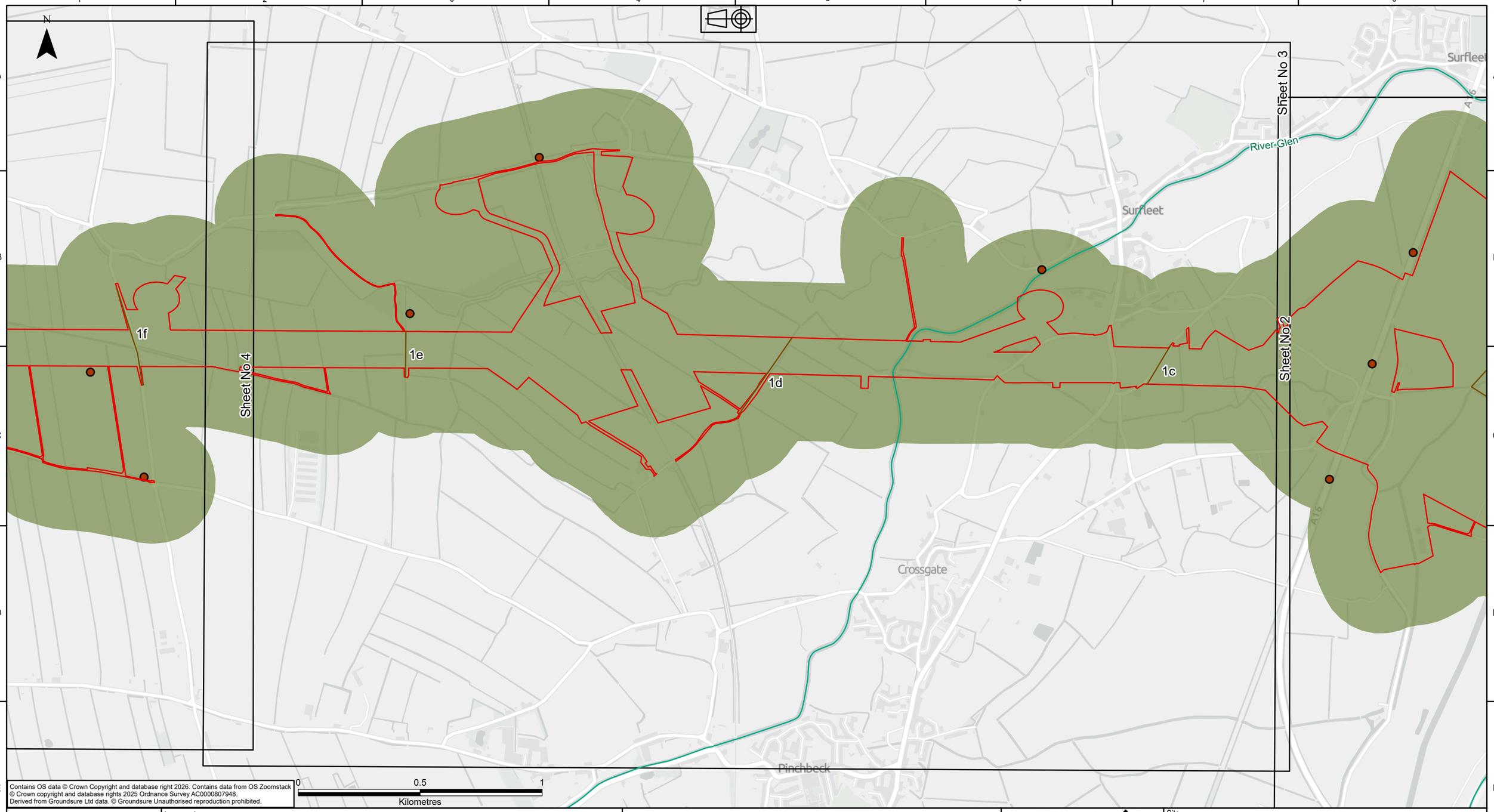

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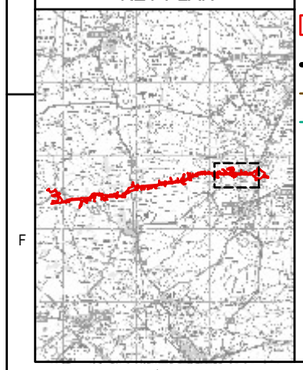

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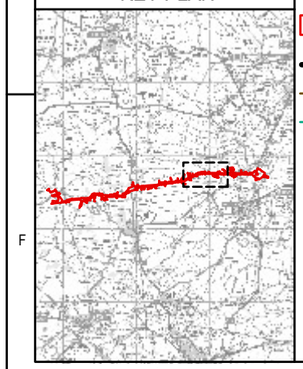

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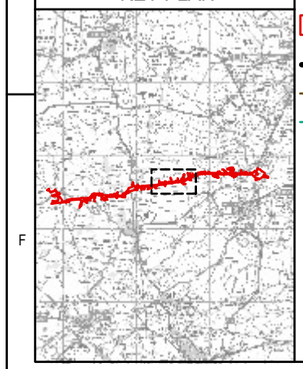

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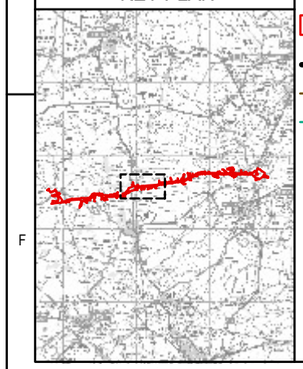

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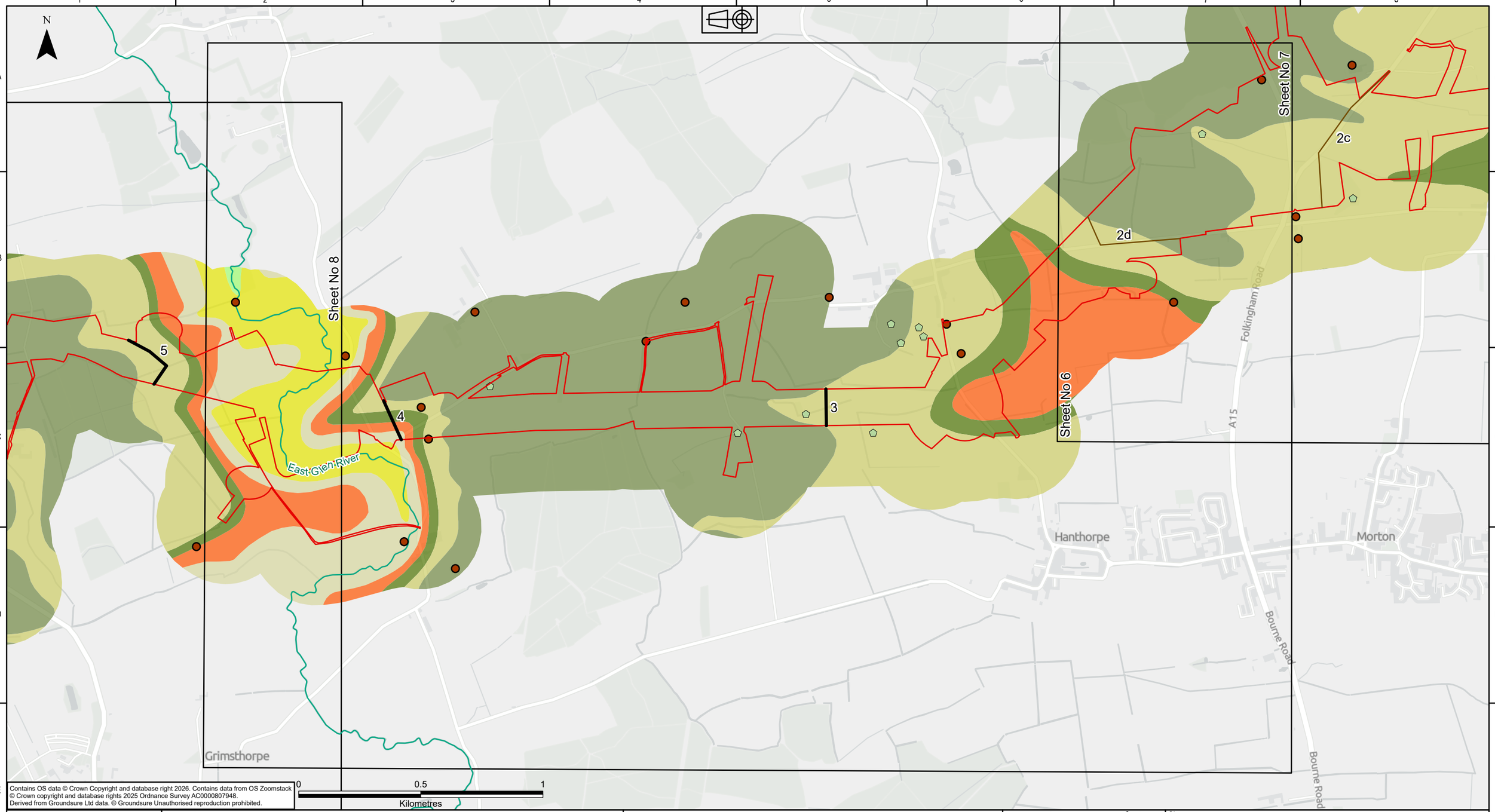

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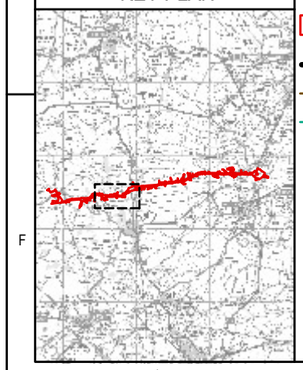

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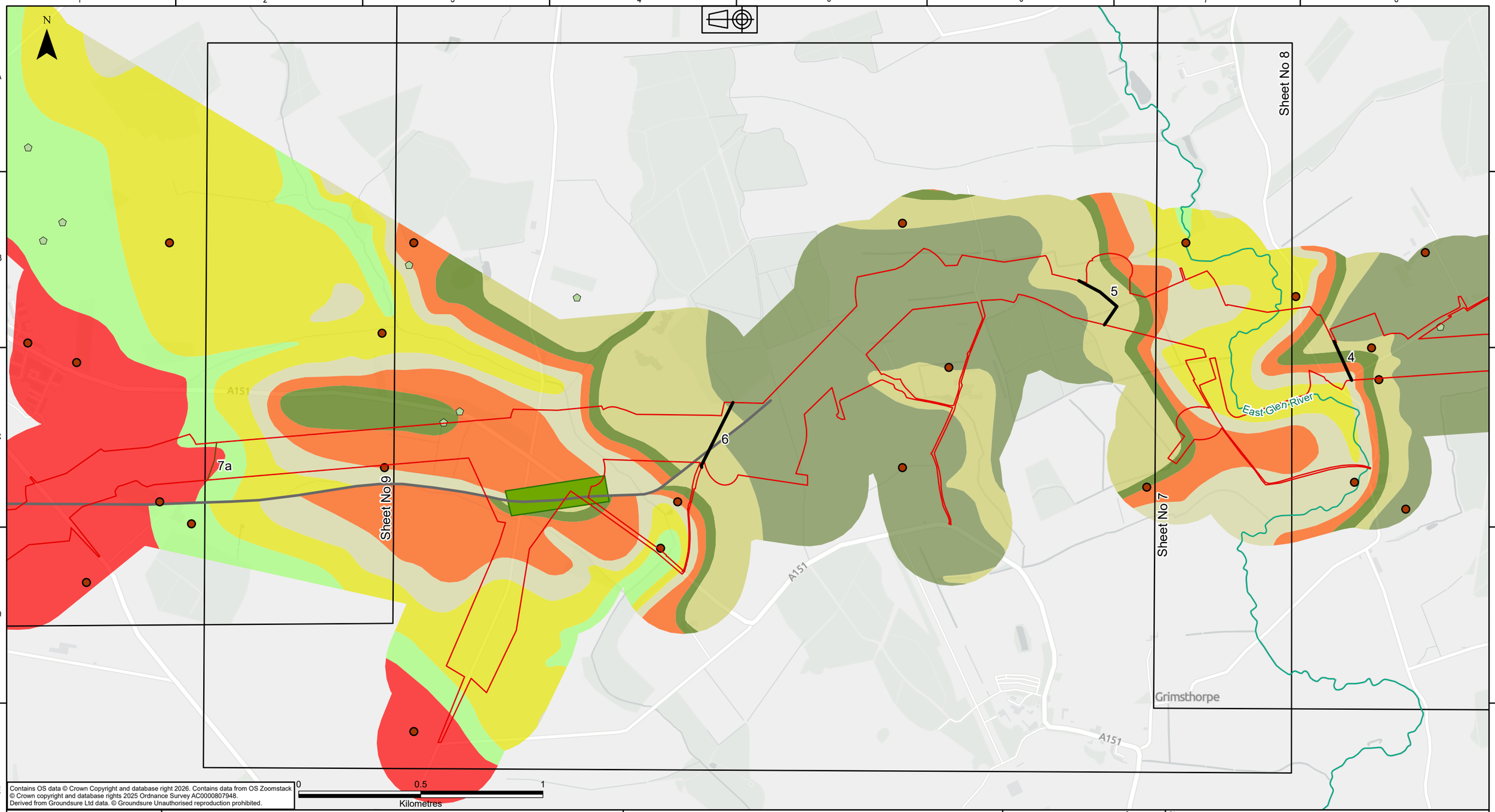

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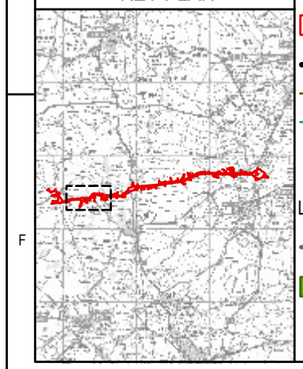

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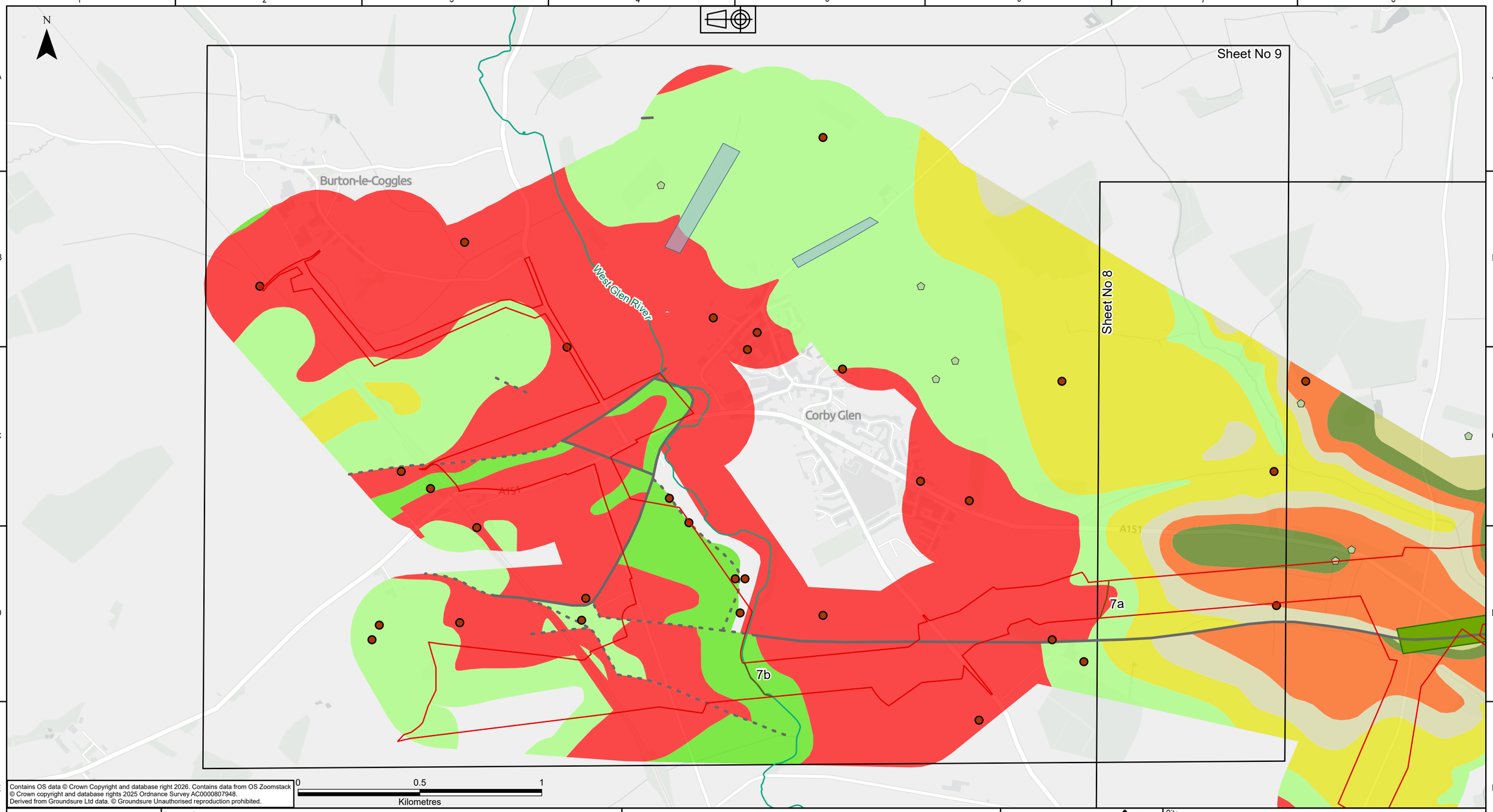

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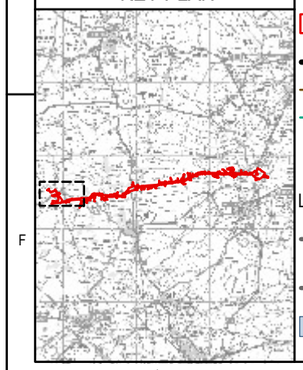

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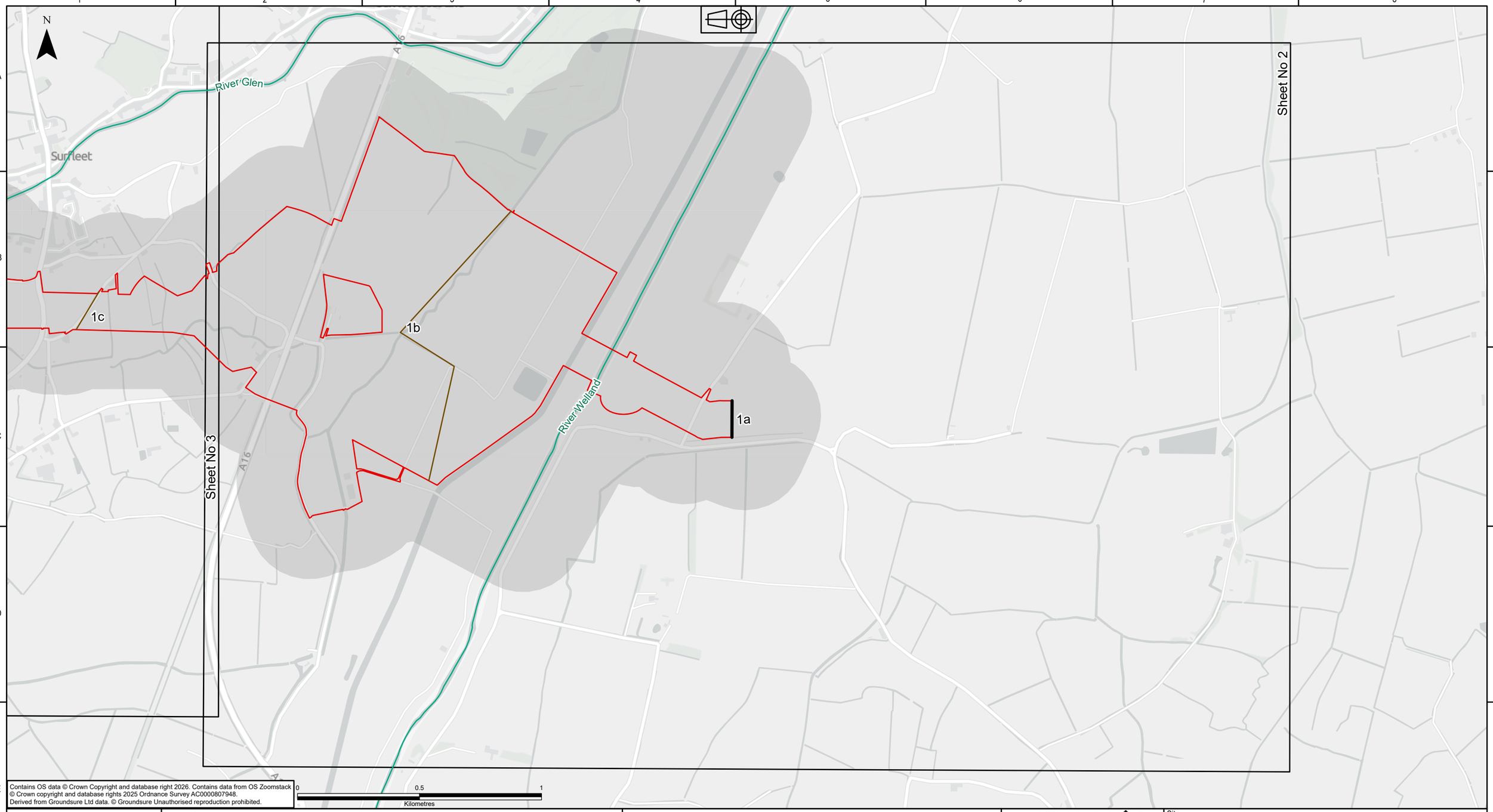

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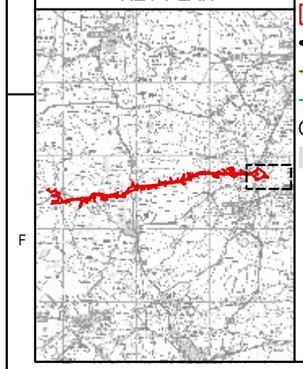

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Groundwater Vulnerability

- Unproductive

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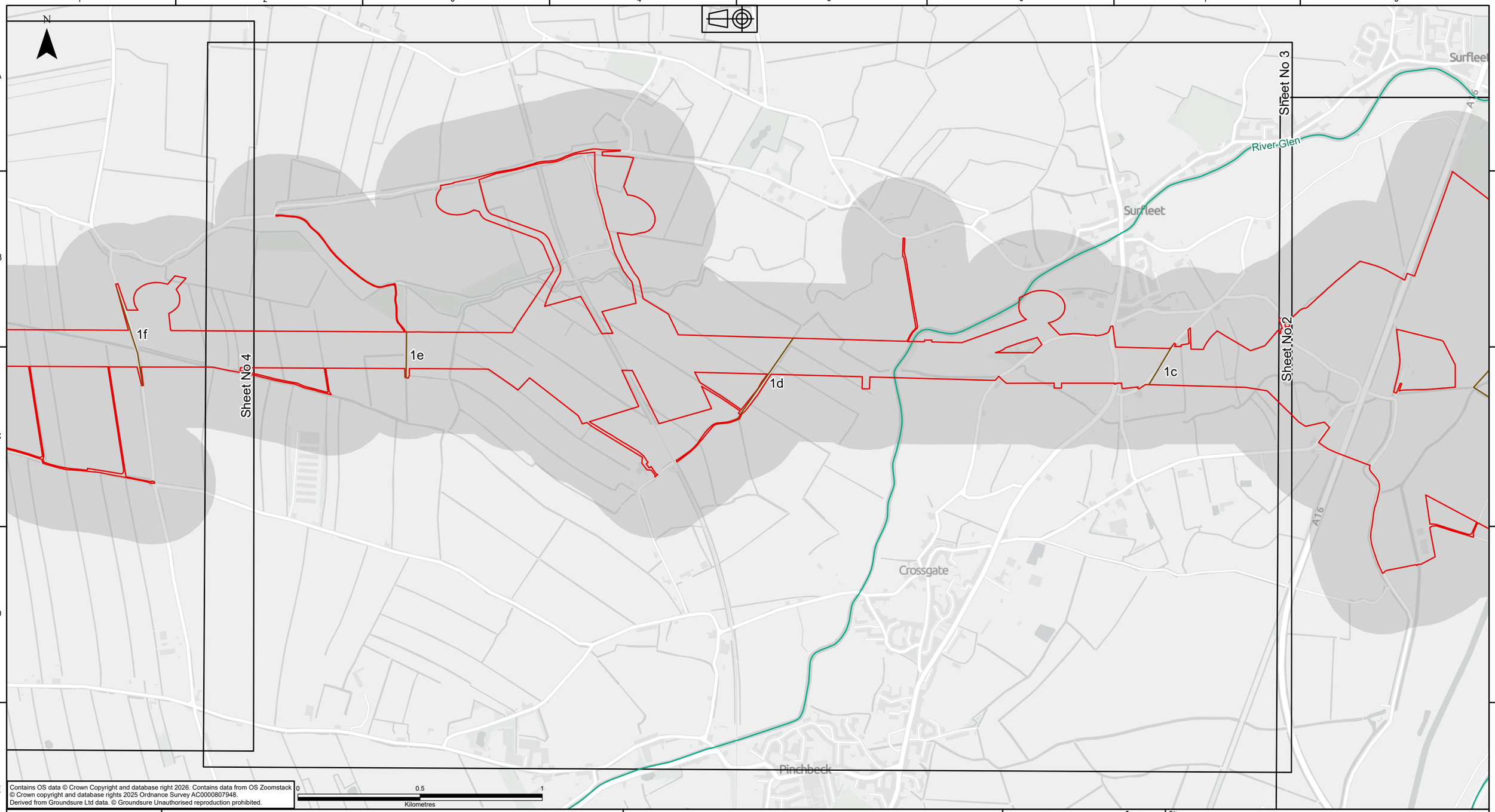

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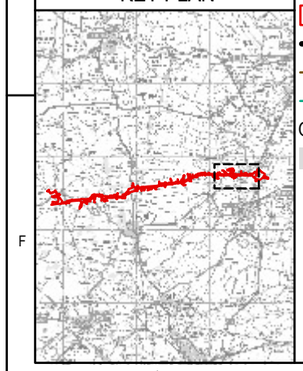

Legend

- DF2 Rev B Boundary - Overhead Line Weston Marsh to WMEL-A
- Route Regions
- Route Sub-regions
- EA Main Rivers

Groundwater Vulnerability

- Unproductive

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P01	09/02/2026	First issue	DM	SL	JC	JC
P02	28/04/2026	Second issue	DM	SL	JC	JC
P03	23/06/2026	Third issue	LL	SL	TB	JC

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Contractor
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ARUP

Site
Weston Marsh to East Leicestershire

Title
Phase 1 Geotechnical and Geo-environmental Desktop Study:
Figure 5
Hydrogeology

Purpose of issue: For Information
Status: S3
Contractor Drawing No.: WMEL-AAJ-ZZZZ-XXXXXX-DRW-GE-000017
Revision: P03
Customer Drawing No.: N/A
Sheet 3 of 9
Issue: A

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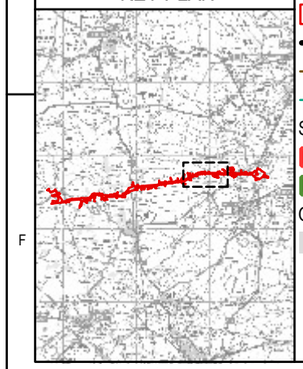

Legend

- DF2 Rev B Boundary - Overhead Line Weston Marsh to WMEL-A
- Route Regions
- Route Sub-regions
- EA Main Rivers

Source Protection Zones

- Zone I - Inner Protection Zone
- Zone II - Outer Protection Zone

Groundwater Vulnerability

- Unproductive

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Contractor
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ARUP

Site
Weston Marsh to East Leicestershire

Title
Phase 1 Geotechnical and Geo-environmental Desktop Study: Figure 5 Hydrogeology

Purpose of issue: For Information
Status: S3
Contractor Drawing No.: WMEL-AAJ-ZZZZ-XXXXXX-DRW-GE-000017
Revision: P03
Customer Drawing No.: N/A
Sheet 4 of 9
Issue: A

Drawn	Checked	Reviewed	Approved	Date	Scale	Size
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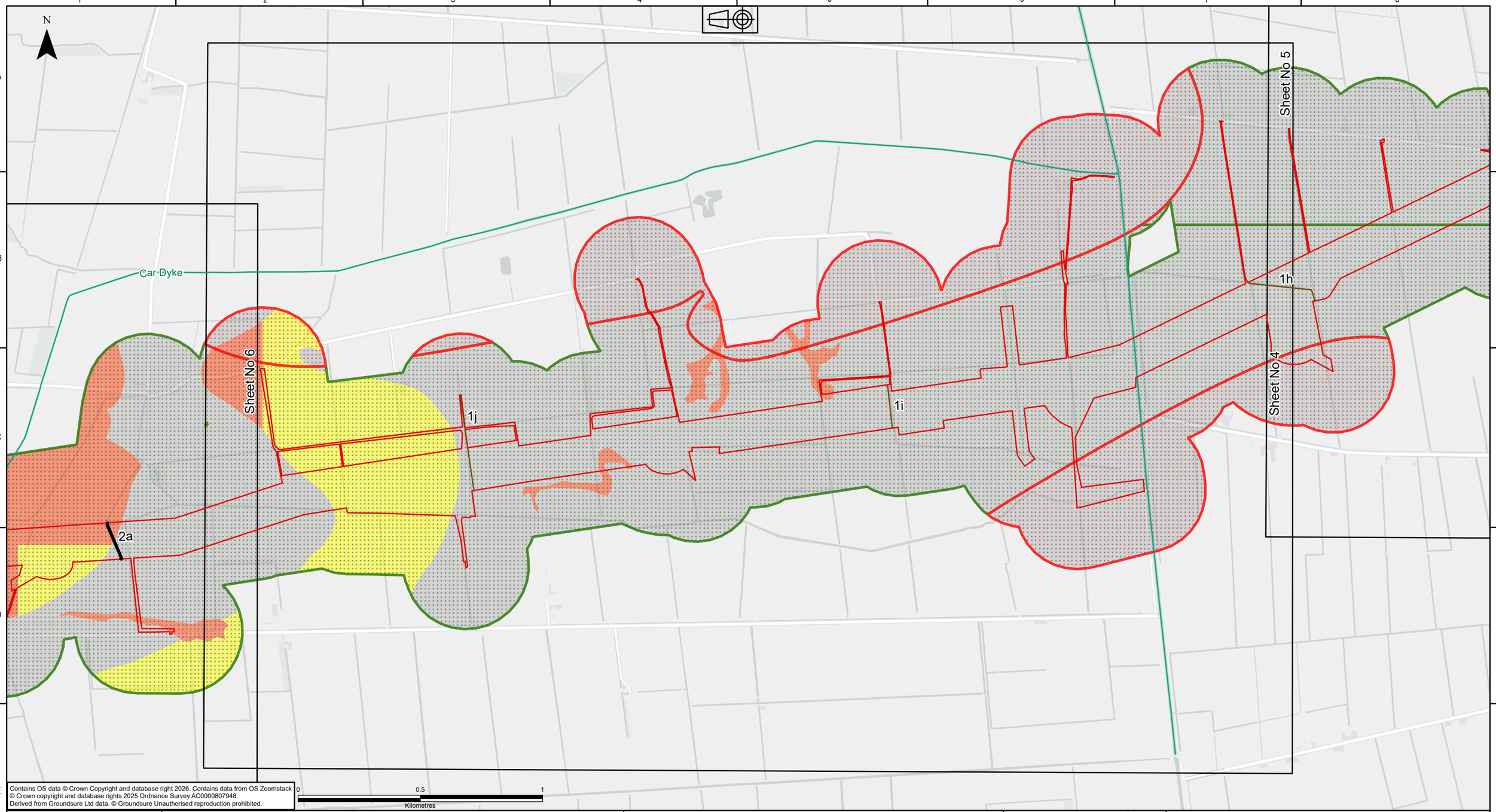

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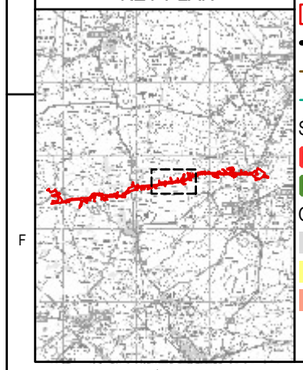

Legend

- DF2 Rev B Boundary - Overhead Line Weston Marsh to WMEL-A
- Route Regions
- Route Sub-regions
- EA Main Rivers

Source Protection Zones

- Zone I - Inner Protection Zone
- Zone II - Outer Protection Zone

Groundwater Vulnerability

- Unproductive
- Medium
- High

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Site
Weston Marsh to East Leicestershire

Title
Phase 1 Geotechnical and Geo-environmental Desktop Study: Figure 5 Hydrogeology

Purpose of issue: For Information
Status: S3
Contractor Drawing No.: WMEL-AAJ-ZZZZ-XXXXXX-DRW-GE-000017
Revision: P03
Customer Drawing No.: N/A
Sheet 5 of 9
Issue: A

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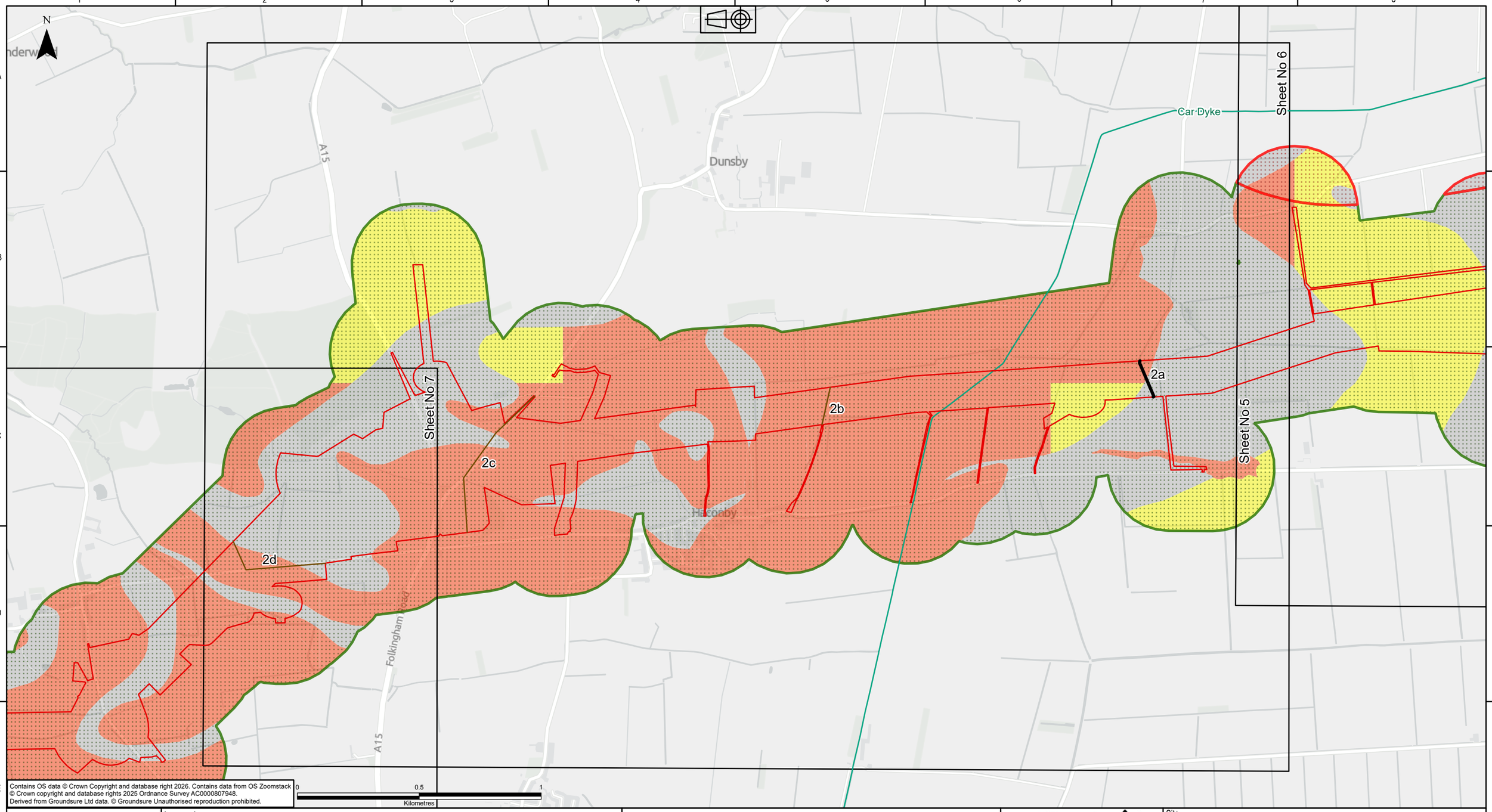

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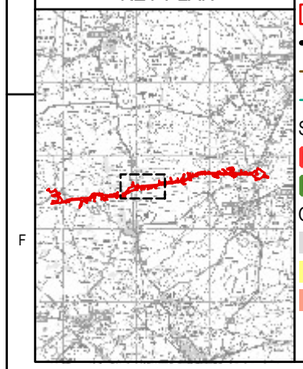

Legend

- DF2 Rev B Boundary - Overhead Line Weston Marsh to WMEL-A
- Route Regions
- Route Sub-regions
- EA Main Rivers

Source Protection Zones

- Zone I - Inner Protection Zone
- Zone II - Outer Protection Zone

Groundwater Vulnerability

- Unproductive
- Medium
- High

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Site
Weston Marsh to East Leicestershire

Title
Phase 1 Geotechnical and Geo-environmental Desktop Study:
Figure 5
Hydrogeology

Purpose of issue: For Information
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Revision: P03
Customer Drawing No.: N/A
Sheet 6 of 9
Issue: A

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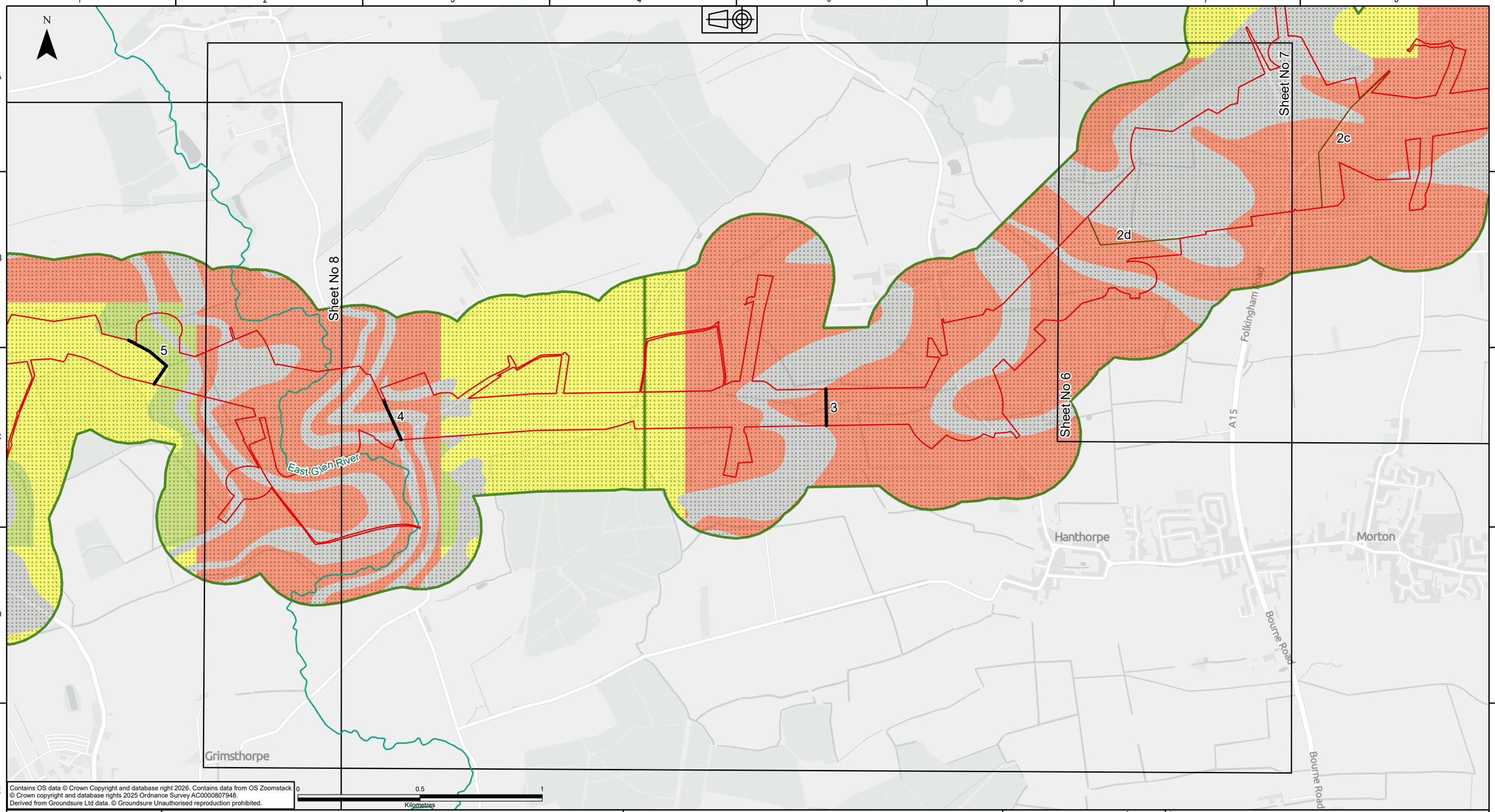

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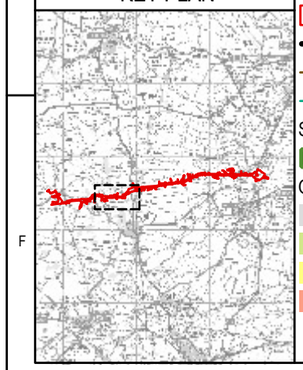

Legend

- DF2 Rev B Boundary - Overhead Line Weston Marsh to WMEL-A
- Route Regions
- Route Sub-regions
- EA Main Rivers

Source Protection Zones

- Zone II - Outer Protection Zone

Groundwater Vulnerability

- Unproductive
- Low
- Medium
- High

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Site
Weston Marsh to East Leicestershire

Title
Phase 1 Geotechnical and Geo-environmental Desktop Study: Figure 5 Hydrogeology

Purpose of issue: For Information
Status: S3
Contractor Drawing No.: WMEL-AAJ-ZZZZ-XXXXXX-DRW-GE-000017
Revision: P03
Customer Drawing No.: N/A
Sheet 7 of 9
Issue: A

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Reviewed: T. BODVIN
Approved: J. CHASTNEY
Date: 23/06/2026
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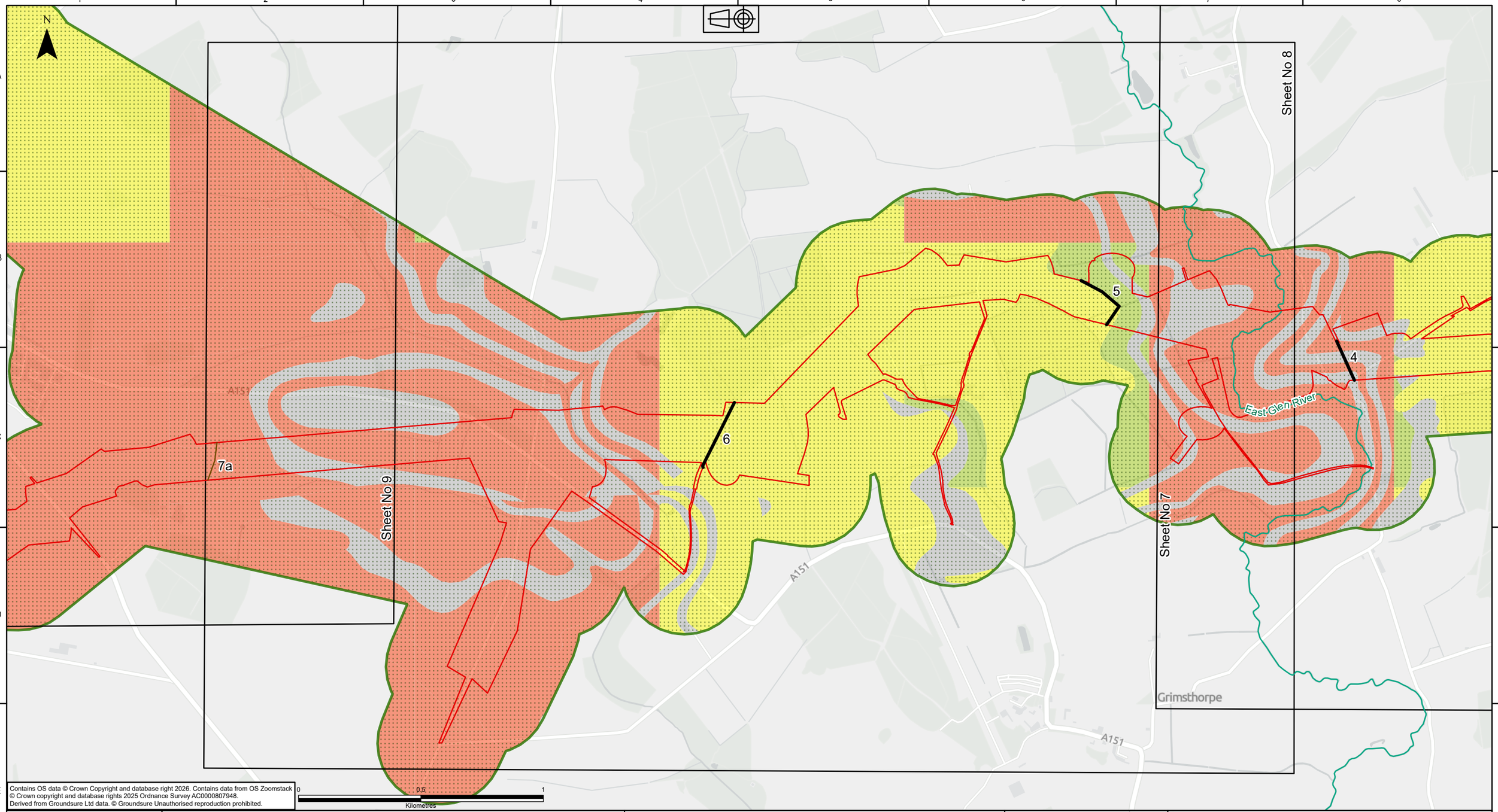

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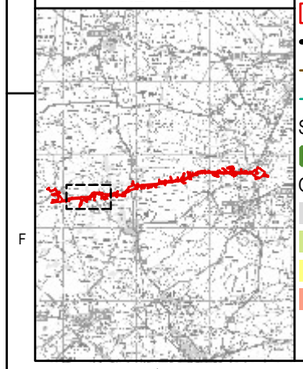

Legend

- DF2 Rev B Boundary - Overhead Line Weston Marsh to WMEL-A
- Route Regions
- Route Sub-regions
- EA Main Rivers

Source Protection Zones

- Zone II - Outer Protection Zone

Groundwater Vulnerability

- Unproductive
- Low
- Medium
- High

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Site: Weston Marsh to East Leicestershire

Title: Phase 1 Geotechnical and Geo-environmental Desktop Study: Figure 5 Hydrogeology

Purpose of issue: For Information

Status: S3

Contractor Drawing No.: WMEL-AAJ-ZZZZ-XXXXXX-DRW-GE-000017

Revision: P03

Customer Drawing No.: N/A

Sheet 8 of 9

Issue: A

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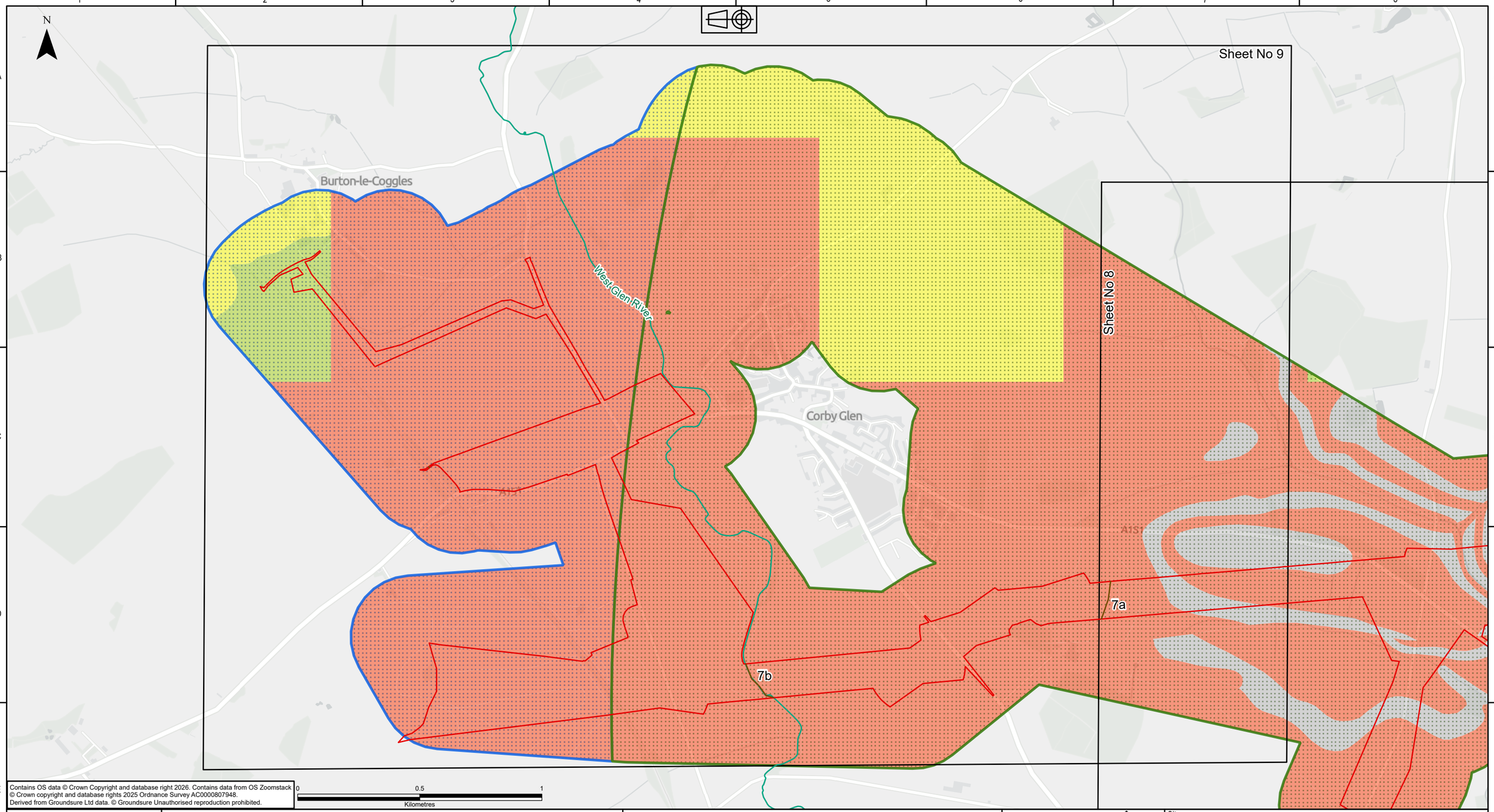

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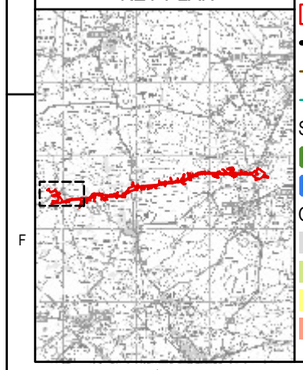

Legend

- DF2 Rev B Boundary - Overhead Line Weston Marsh to WMEL-A
- Route Regions
- Route Sub-regions
- EA Main Rivers

Source Protection Zones

- Zone II - Outer Protection Zone
- Zone III - Total Catchment

Groundwater Vulnerability

- Unproductive
- Low
- Medium
- High

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Site
Weston Marsh to East Leicestershire

Title
Phase 1 Geotechnical and Geo-environmental Desktop Study: Figure 5 Hydrogeology

Purpose of issue: For Information
Status: S3
Contractor Drawing No.: WMEL-AAJ-ZZZZ-XXXXXX-DRW-GE-000017
Revision: P03
Customer Drawing No.: N/A
Sheet 9 of 9
Issue: A

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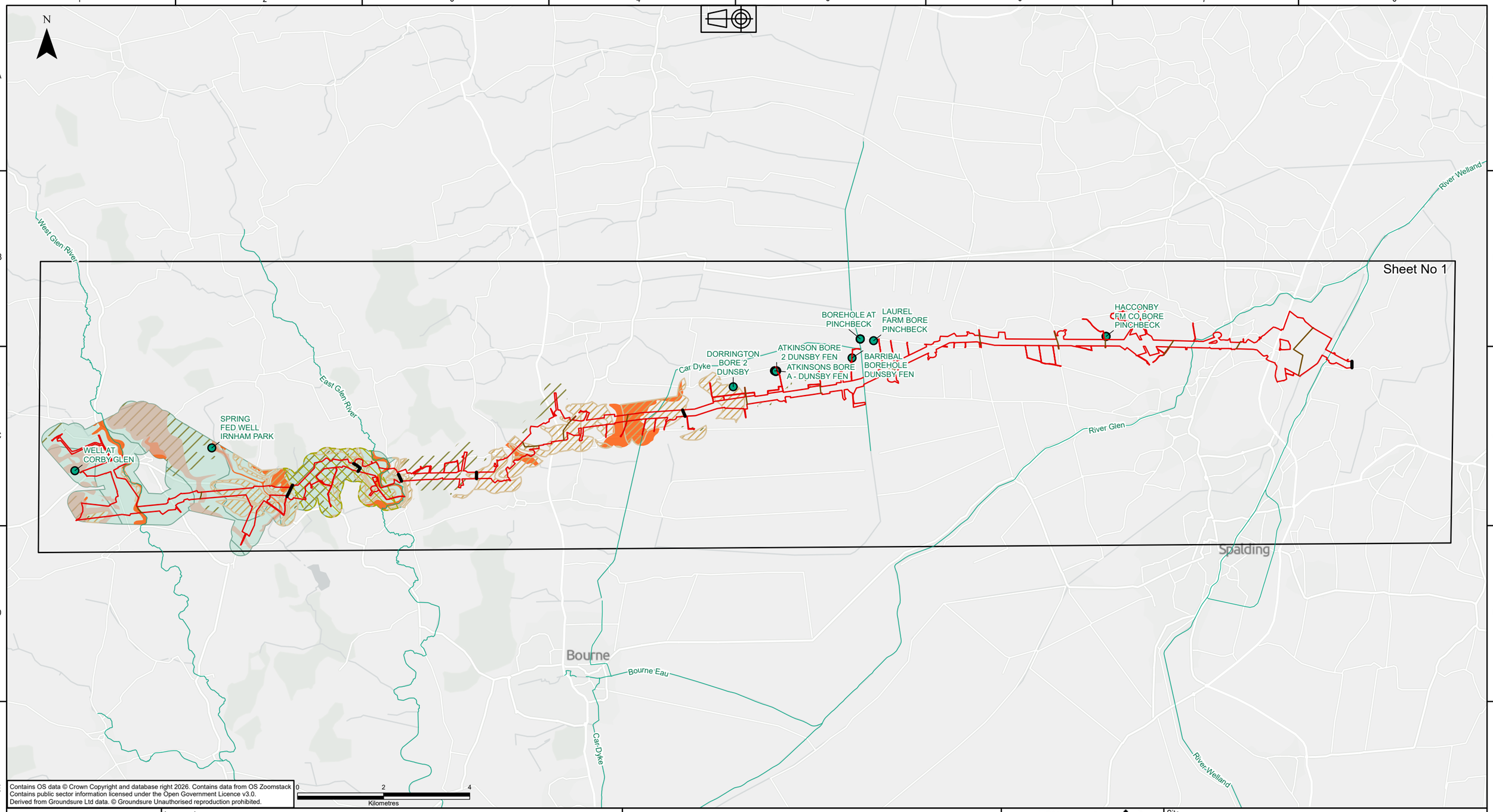

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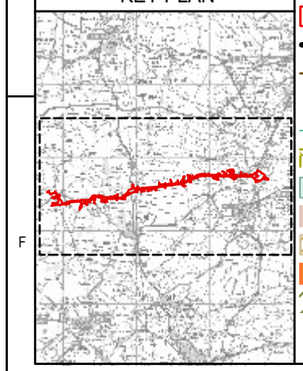

Legend

- DF2 Rev B Boundary - Overhead Line Weston Marsh to WMEL-A
- Route Regions
- Route Sub-regions
- Groundwater Abstractions - Points
- EA Main Rivers
- Groundwater Abstractions - Areas
- WFD Groundwater Bodies
- Secondary A Bedrock Aquifer
- Secondary A Superficial Aquifer
- Secondary B Bedrock Aquifer
- Secondary Superficial Aquifer Undifferentiated

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Site: Weston Marsh to East Leicestershire

Title: Phase 1 Geotechnical and Geo-environmental Desktop Study: Figure 6 Hydrogeology - Aquifers

Purpose of issue: For Information
Status: S3
Contractor Drawing No.: WMEL-AAJ-ZZZZ-XXXXXX-DRW-GE-000018
Revision: P03
Customer Drawing No.: N/A
Sheet 1 of 9
Issue: A

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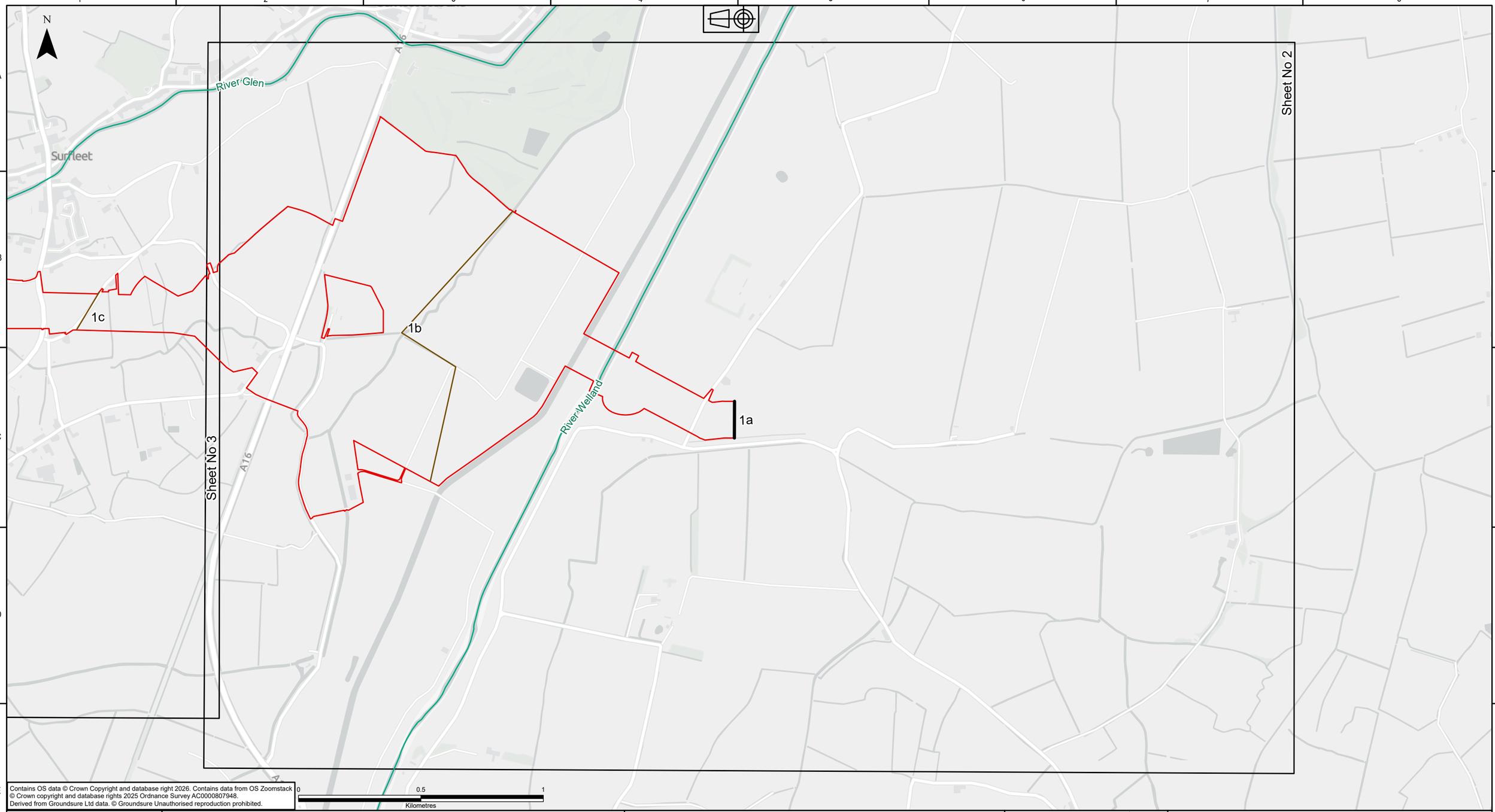

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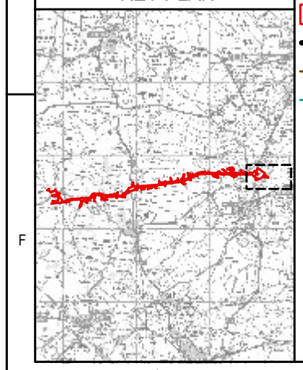

Legend

- DF2 Rev B Boundary - Overhead Line Weston Marsh to WMEL-A
- Route Regions
- Route Sub-regions
- EA Main Rivers

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Site
Weston Marsh to East Leicestershire

Title
Phase 1 Geotechnical and Geo-environmental Desktop Study: Figure 6
Hydrogeology - Aquifers

Purpose of issue: For Information
Status: S3
Contractor Drawing No.: WMEL-AAJ-ZZZZ-XXXXXX-DRW-GE-000018
Revision: P03
Customer Drawing No.: N/A
Sheet 2 of 9
Issue: A

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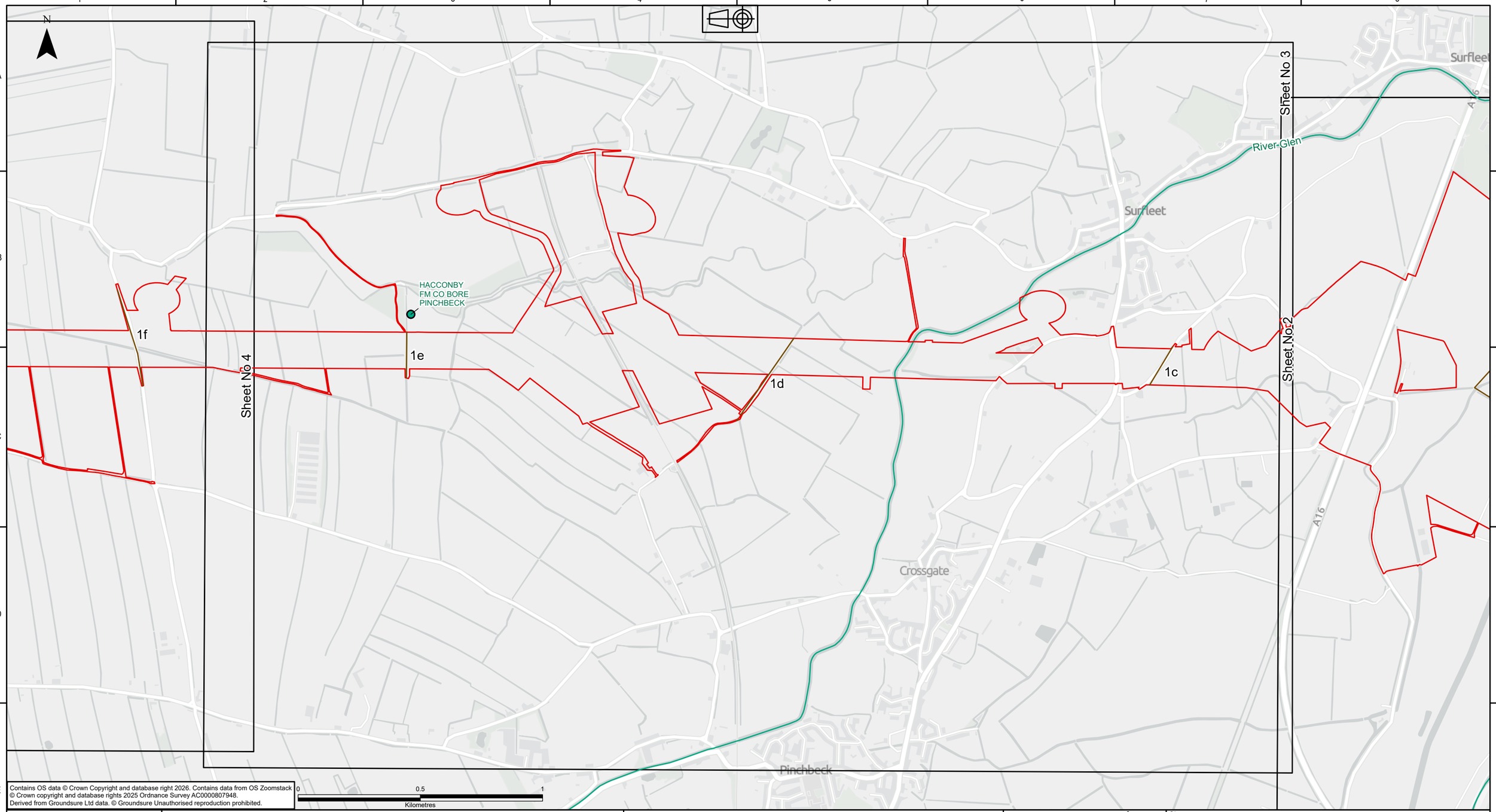

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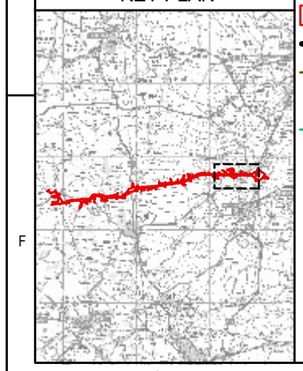

Legend

- DF2 Rev B Boundary - Overhead Line Weston Marsh to WMEL-A
- Route Regions
- Route Sub-regions
- Groundwater Abstractions - Points
- EA Main Rivers

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Site
Weston Marsh to East Leicestershire

Title
Phase 1 Geotechnical and Geo-environmental Desktop Study: Figure 6
Hydrogeology - Aquifers

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Revision: P03
Customer Drawing No.: N/A
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Issue: A

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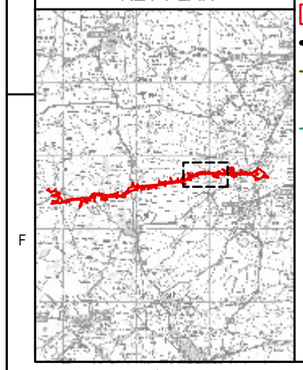

Legend

- DF2 Rev B Boundary - Overhead Line Weston Marsh to WMEL-A
- Route Regions
- Route Sub-regions
- Groundwater Abstractions - Points
- EA Main Rivers

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Site
Weston Marsh to East Leicestershire

Title
Phase 1 Geotechnical and Geo-environmental Desktop Study: Figure 6
Hydrogeology - Aquifers

Purpose of issue: For Information
Status: S3
Contractor Drawing No.: WMEL-AAJ-ZZZZ-XXXXXX-DRW-GE-000018
Revision: P03
Customer Drawing No.: N/A
Sheet 4 of 9
Issue: A

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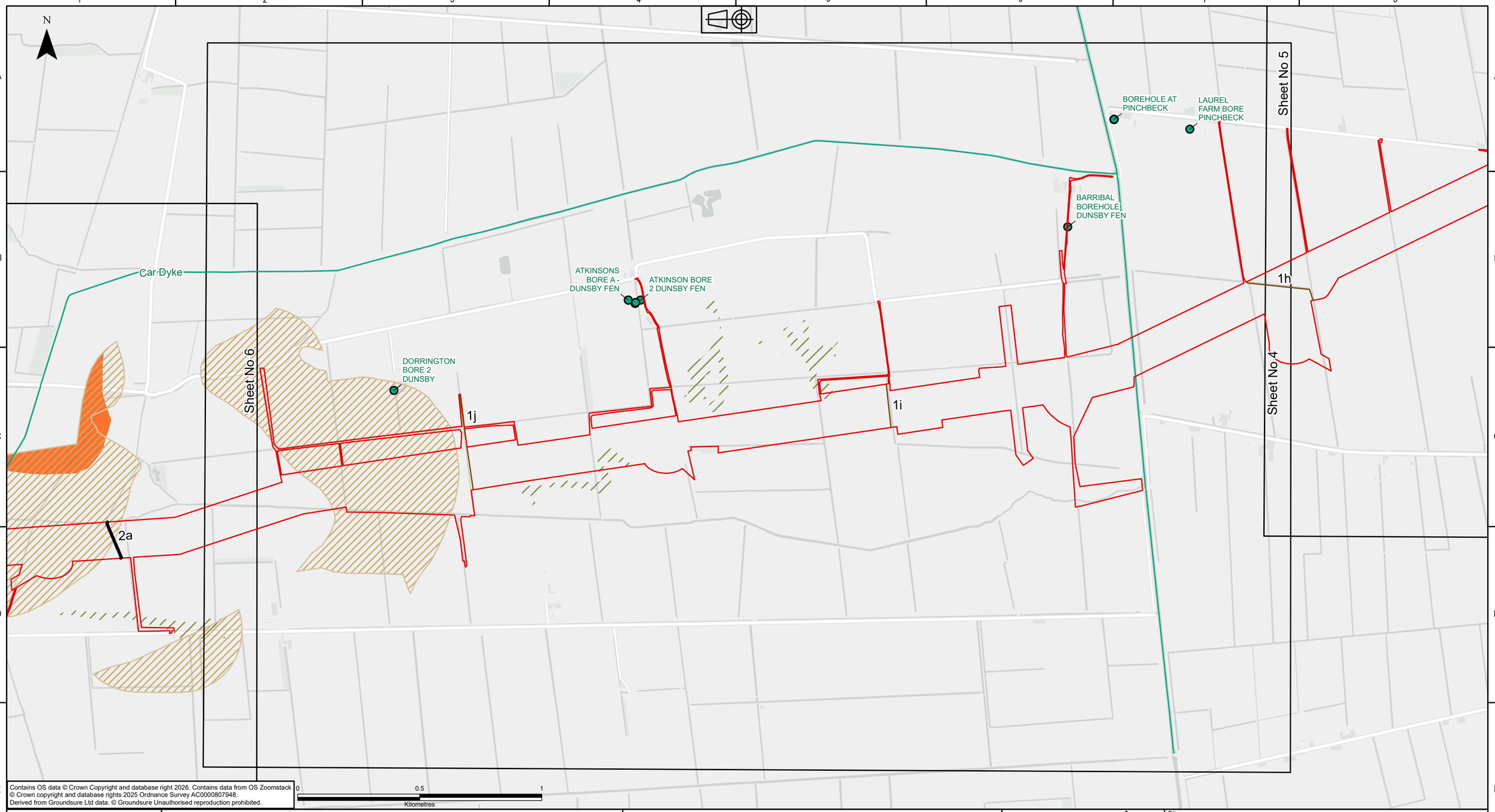

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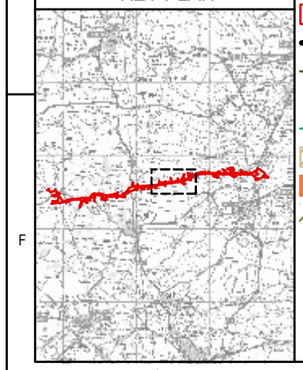

Legend

- DF2 Rev B Boundary - Overhead Line Weston Marsh to WMEL-A
- Route Regions
- Route Sub-regions
- Groundwater Abstractions - Points
- EA Main Rivers
- Secondary A Superficial Aquifer
- Secondary B Bedrock Aquifer
- Secondary Superficial Aquifer Undifferentiated

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P03	23/06/2026	Third issue	LL	SL	TB	JC

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Contractor
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ARUP

Site: Weston Marsh to East Leicestershire

Title: Phase 1 Geotechnical and Geo-environmental Desktop Study: Figure 6 Hydrogeology - Aquifers

Purpose of issue: For Information
Status: S3
Contractor Drawing No.: WMEL-AAJ-ZZZZ-XXXXXX-DRW-GE-000018
Revision: P03
Customer Drawing No.: N/A
Sheet 5 of 9
Issue: A

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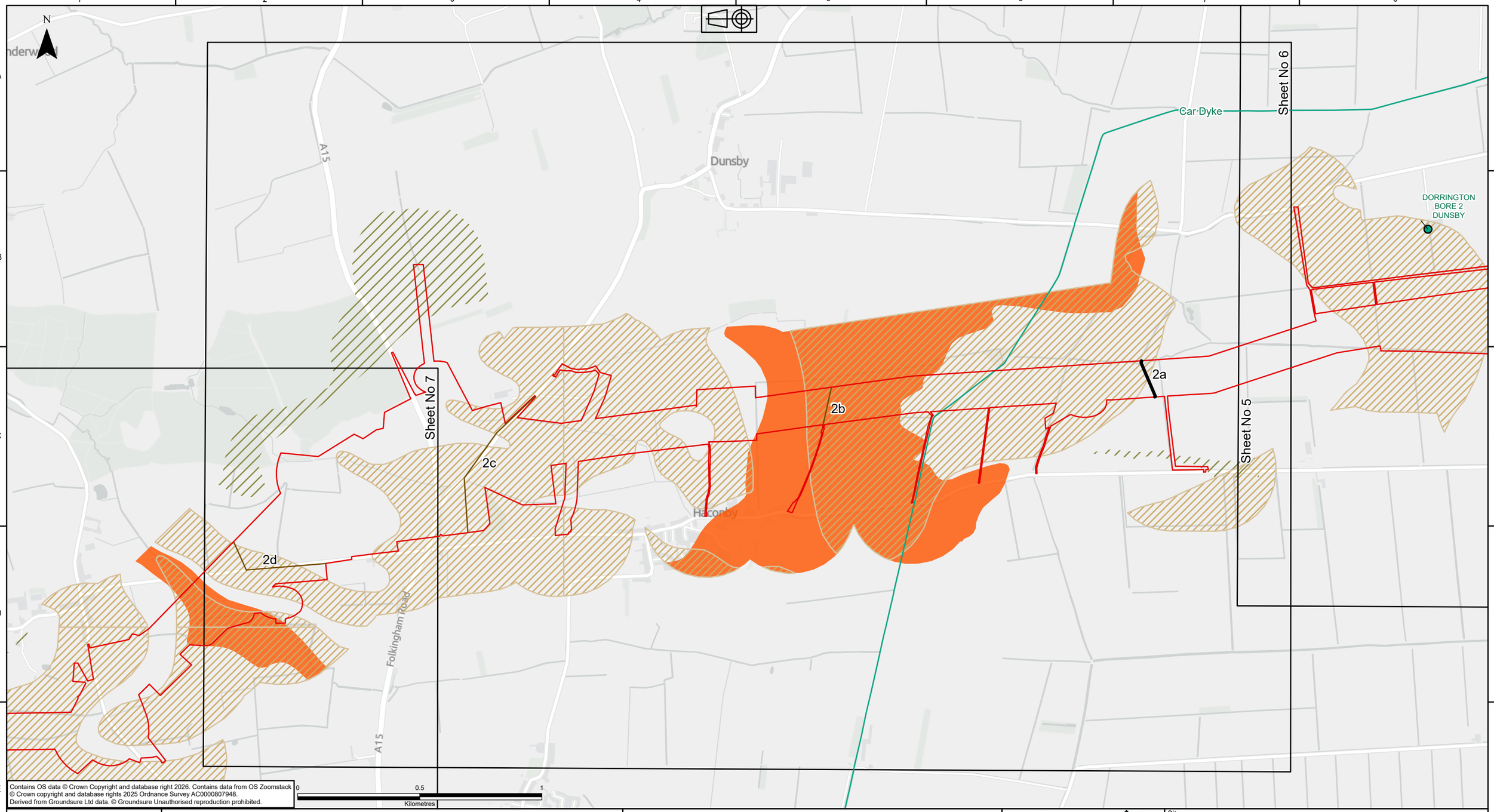

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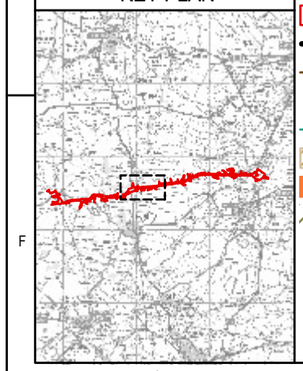

Legend

- DF2 Rev B Boundary - Overhead Line Weston Marsh to WMEL-A
- Route Regions
- Route Sub-regions
- Groundwater Abstractions - Points
- EA Main Rivers
- Secondary A Superficial Aquifer
- Secondary B Bedrock Aquifer
- Secondary Superficial Aquifer Undifferentiated

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Contractor
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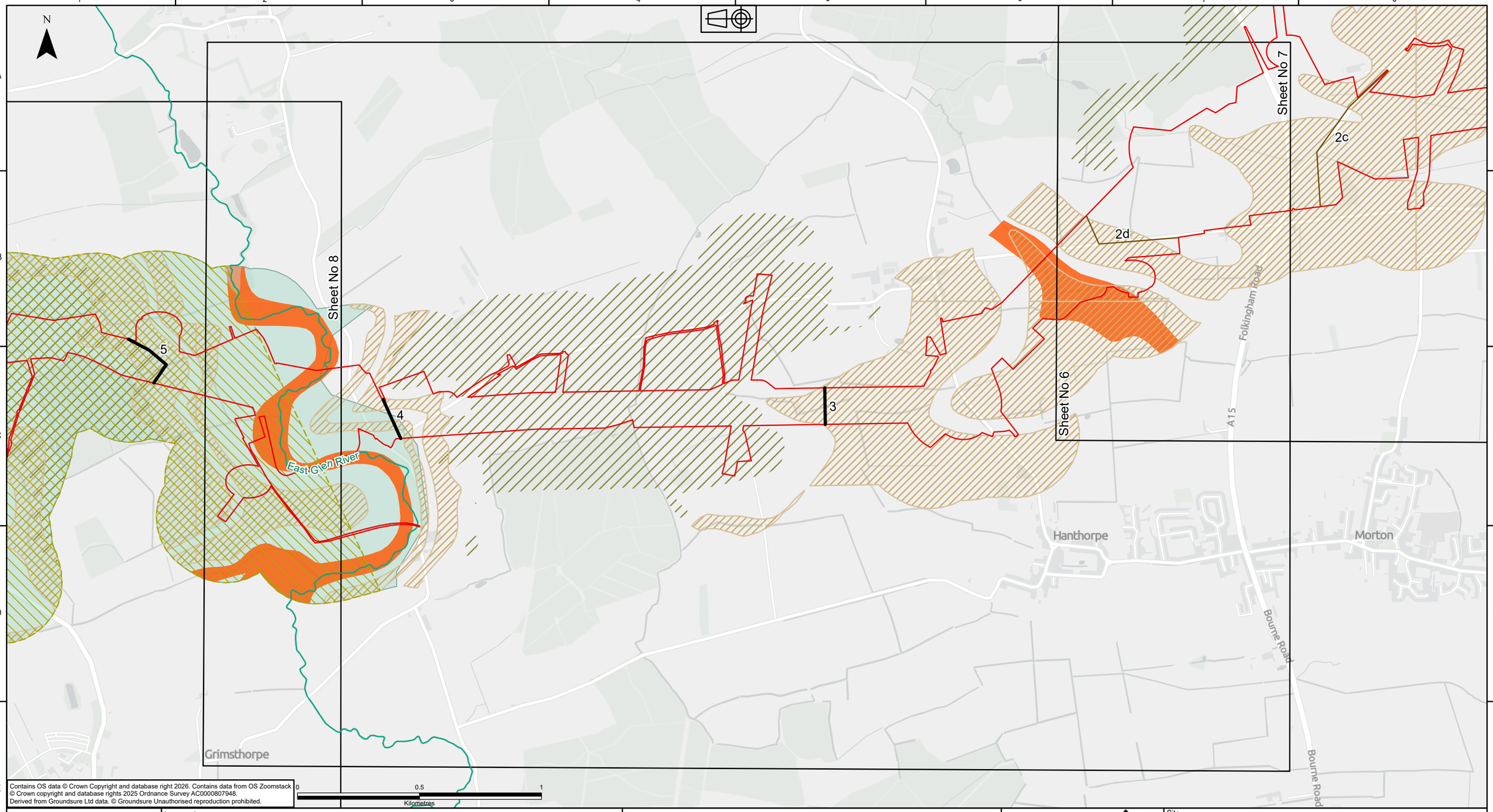

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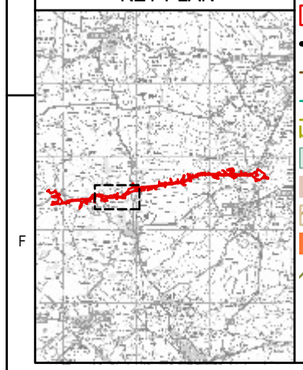

Legend

- DF2 Rev B Boundary - Overhead Line Weston Marsh to WMEL-A
- Route Regions
- Route Sub-regions
- EA Main Rivers
- Groundwater Abstractions - Areas
- WFD Groundwater Bodies
- Secondary A Bedrock Aquifer
- Secondary A Superficial Aquifer
- Secondary B Bedrock Aquifer
- Secondary Superficial Aquifer Undifferentiated

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Contractor
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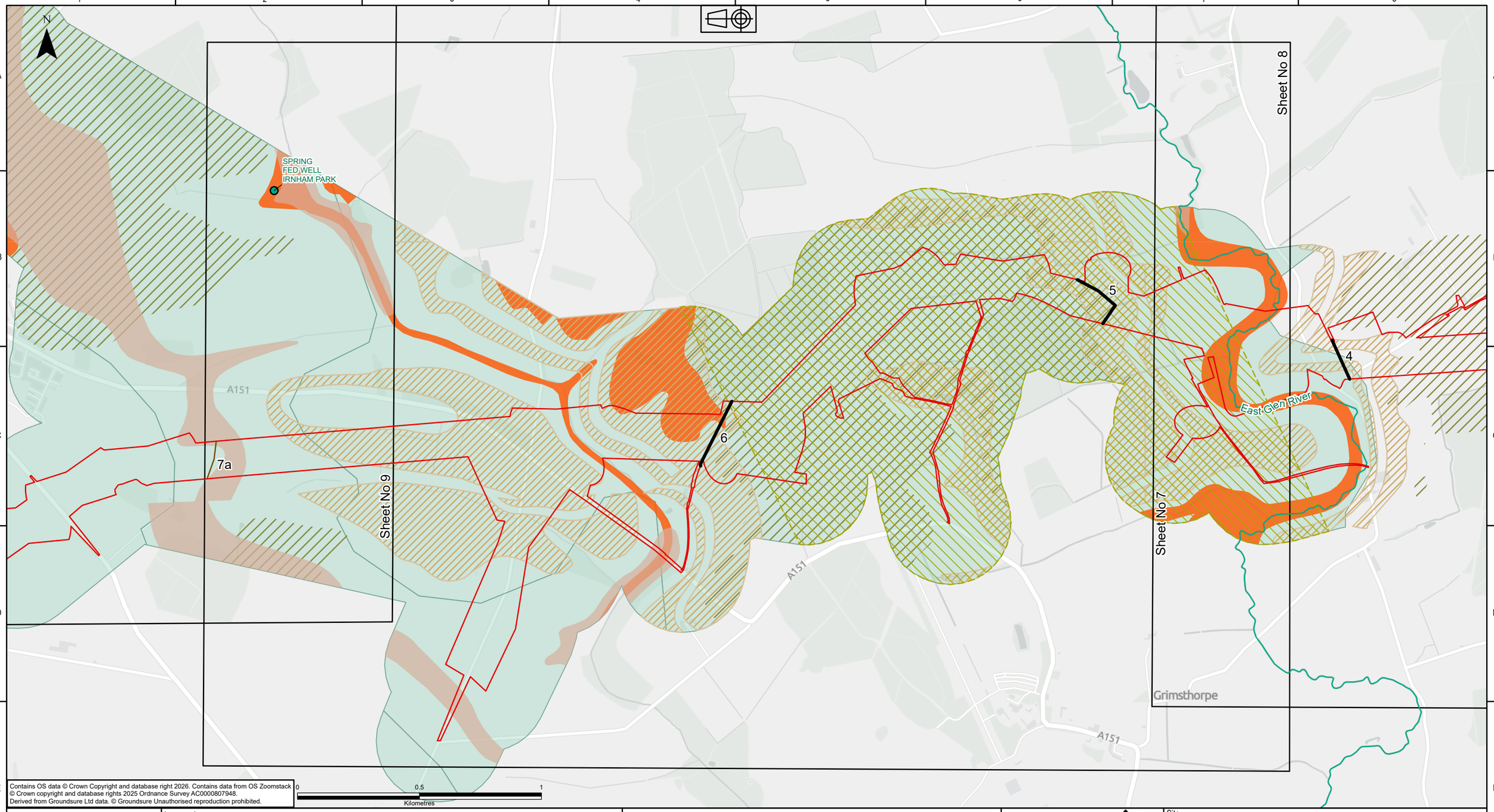

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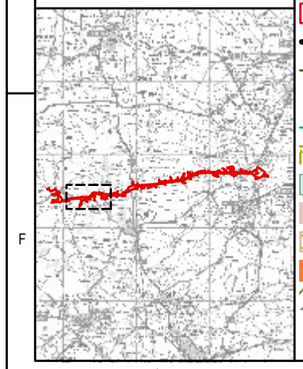

Legend

- DF2 Rev B Boundary - Overhead Line Weston Marsh to WMEL-A
- Route Regions
- Route Sub-regions
- Groundwater Abstractions - Points
- EA Main Rivers
- Groundwater Abstractions - Areas
- WFD Groundwater Bodies
- Secondary A Bedrock Aquifer
- Secondary A Superficial Aquifer
- Secondary B Bedrock Aquifer
- Secondary Superficial Aquifer Undifferentiated

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Site
Weston Marsh to East Leicestershire

Title
Phase 1 Geotechnical and Geo-environmental Desktop Study: Figure 6
Hydrogeology - Aquifers

Purpose of issue: For Information
Status: S3
Contractor Drawing No.: WMEL-AAJ-ZZZZ-XXXXXX-DRW-GE-000018
Revision: P03
Customer Drawing No.: N/A
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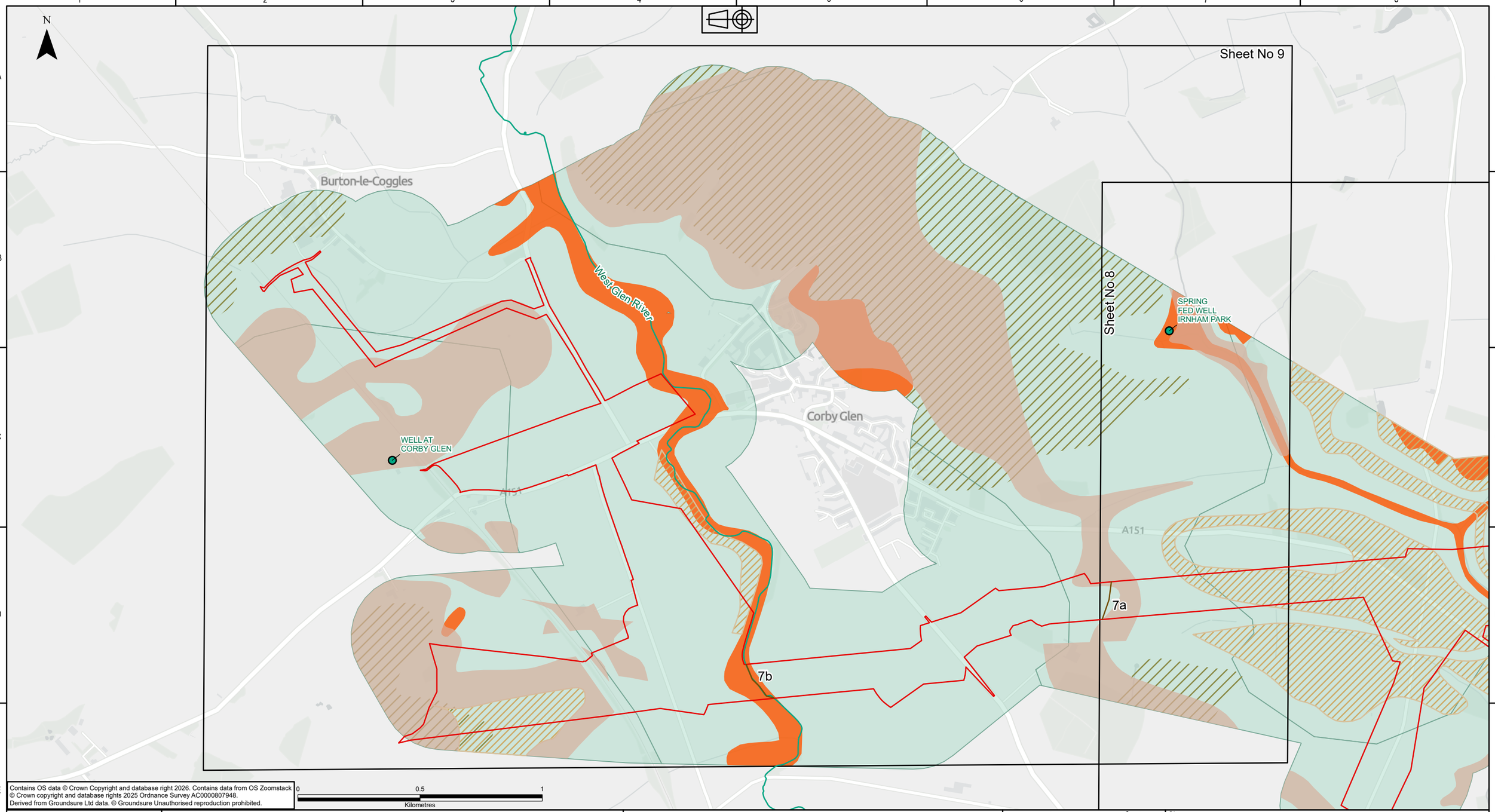

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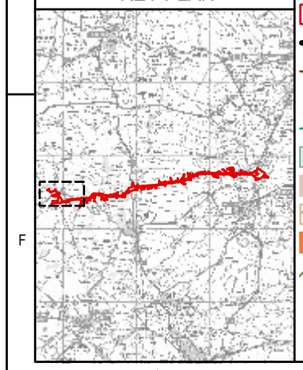

Legend

- DF2 Rev B Boundary - Overhead Line Weston Marsh to WMEL-A
- Route Regions
- Route Sub-regions
- Groundwater Abstractions - Points
- EA Main Rivers
- WFD Groundwater Bodies
- Secondary A Bedrock Aquifer
- Secondary A Superficial Aquifer
- Secondary B Bedrock Aquifer
- Secondary Superficial Aquifer Undifferentiated

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Site
Weston Marsh to East Leicestershire

Title
Phase 1 Geotechnical and Geo-environmental Desktop Study:
Figure 6
Hydrogeology - Aquifers

Purpose of issue: For Information
Status: S3
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Revision: P03
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Sheet 9 of 9
Issue: A

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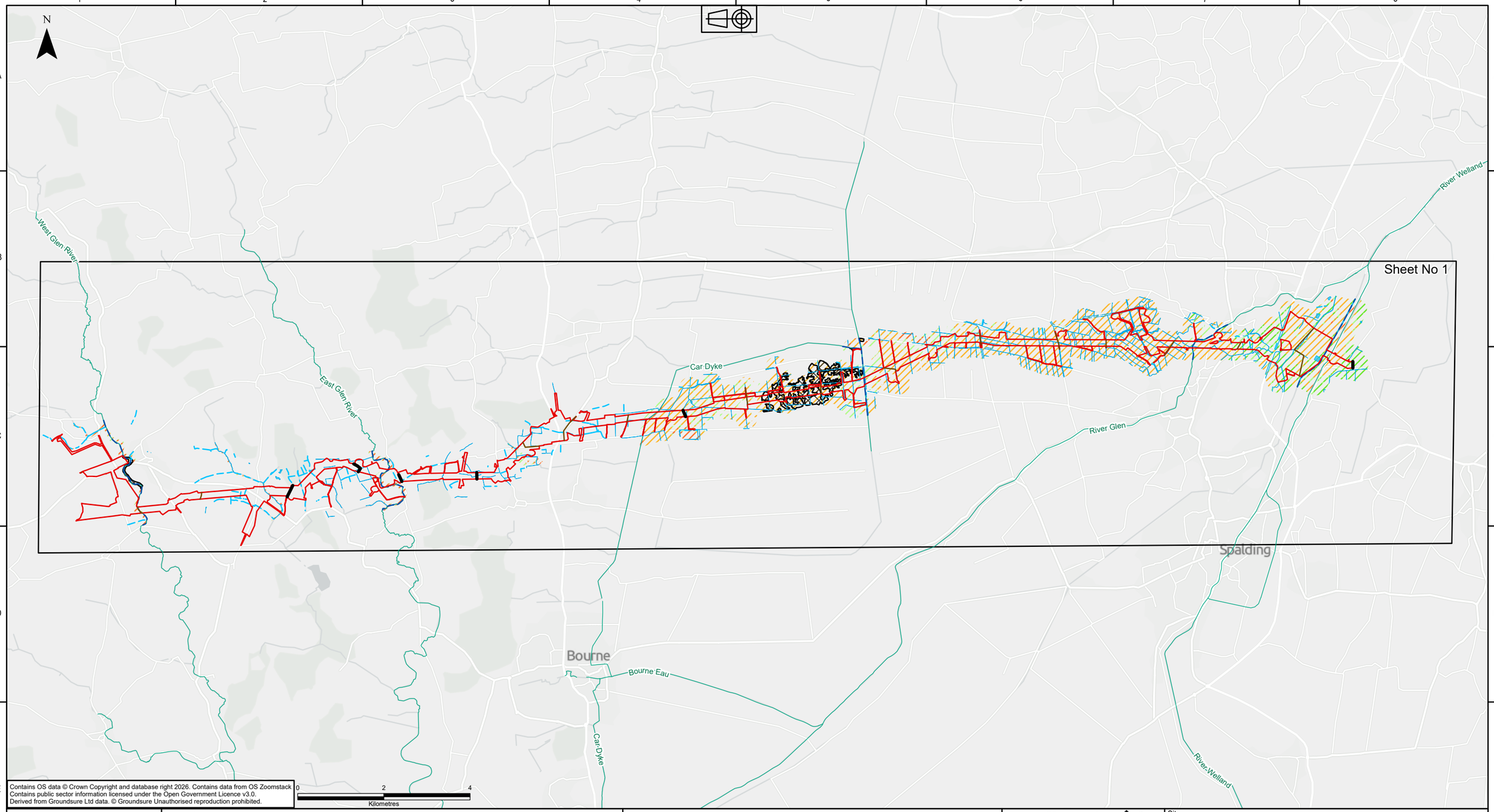

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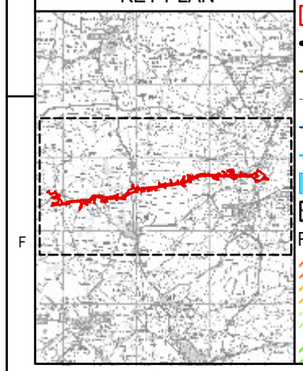

Legend

- DF2 Rev B Boundary - Overhead Line Weston Marsh to WMEL-A
- Route Regions
- Route Sub-regions
- EA Main Rivers
- WFD Surface Waterbodies
- OS Surface Water Features - Lines
- OS Surface Water Features - Areas
- Historical Flood Events

Risk Flooding Rivers Sea

- High
- Medium
- Low
- Very Low

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Site: Weston Marsh to East Leicestershire

Title: Phase 1 Geotechnical and Geo-environmental Desktop Study: Figure 7 Hydrology and Risk of Flooding

Purpose of issue: For Information
Status: S3
Contractor Drawing No.: WMEL-AAJ-ZZZZ-XXXXXX-DRW-GE-000019
Revision: P03
Customer Drawing No.: N/A
Sheet 1 of 9
Issue: A

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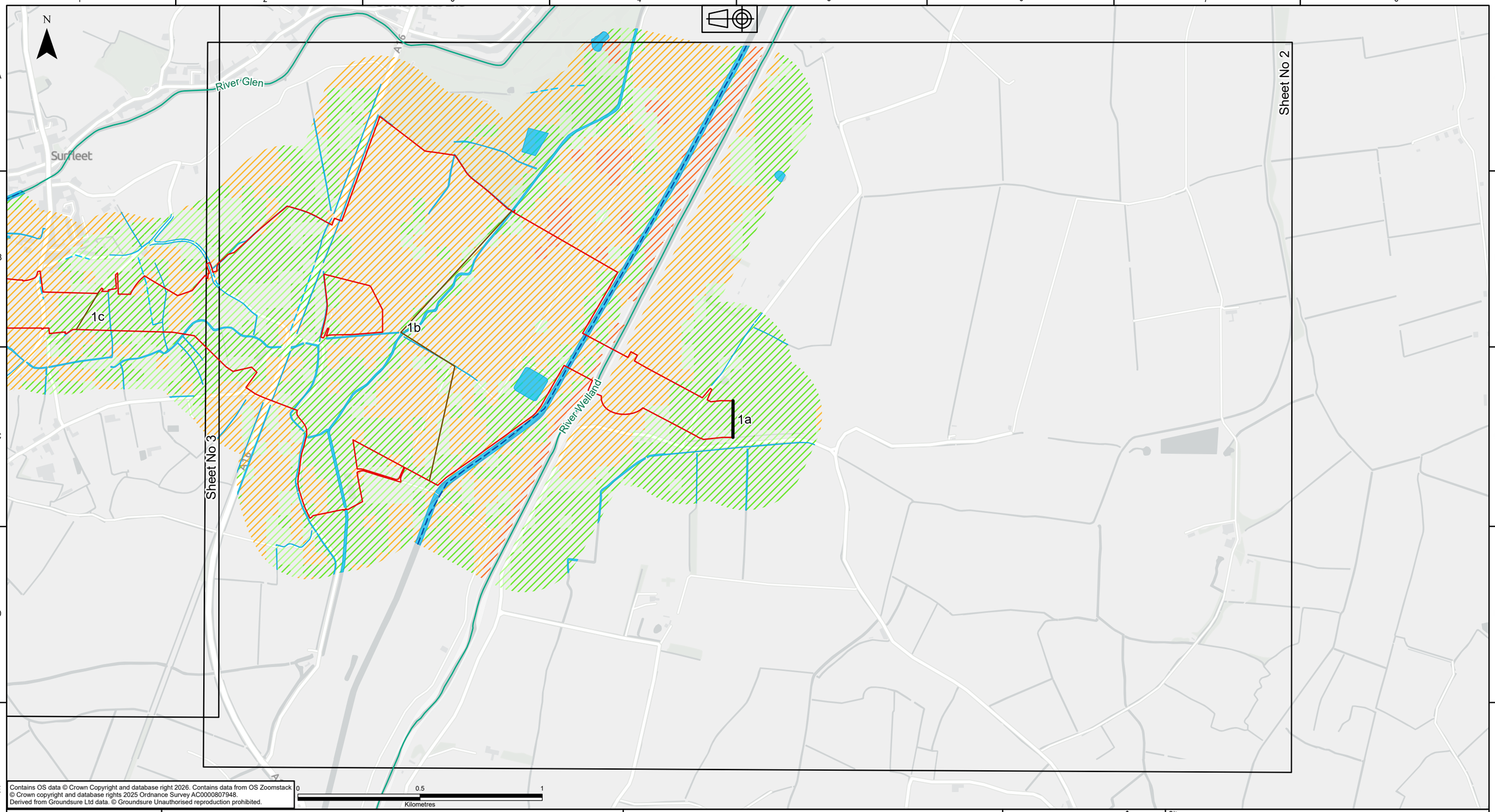

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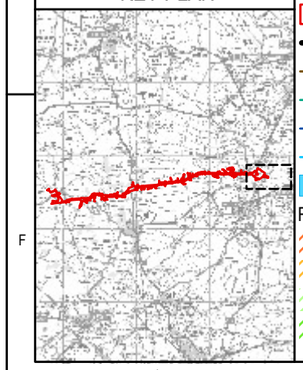

Legend

- DF2 Rev B Boundary - Overhead Line Weston Marsh to WMEL-A
- Route Regions
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- WFD Surface Waterbodies
- OS Surface Water Features - Lines
- OS Surface Water Features - Areas

Risk Flooding Rivers Sea

- High
- Medium
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Site: Weston Marsh to East Leicestershire

Title: Phase 1 Geotechnical and Geo-environmental Desktop Study: Figure 7 Hydrology and Risk of Flooding

Purpose of issue: For Information

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Revision: P03

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Issue: A

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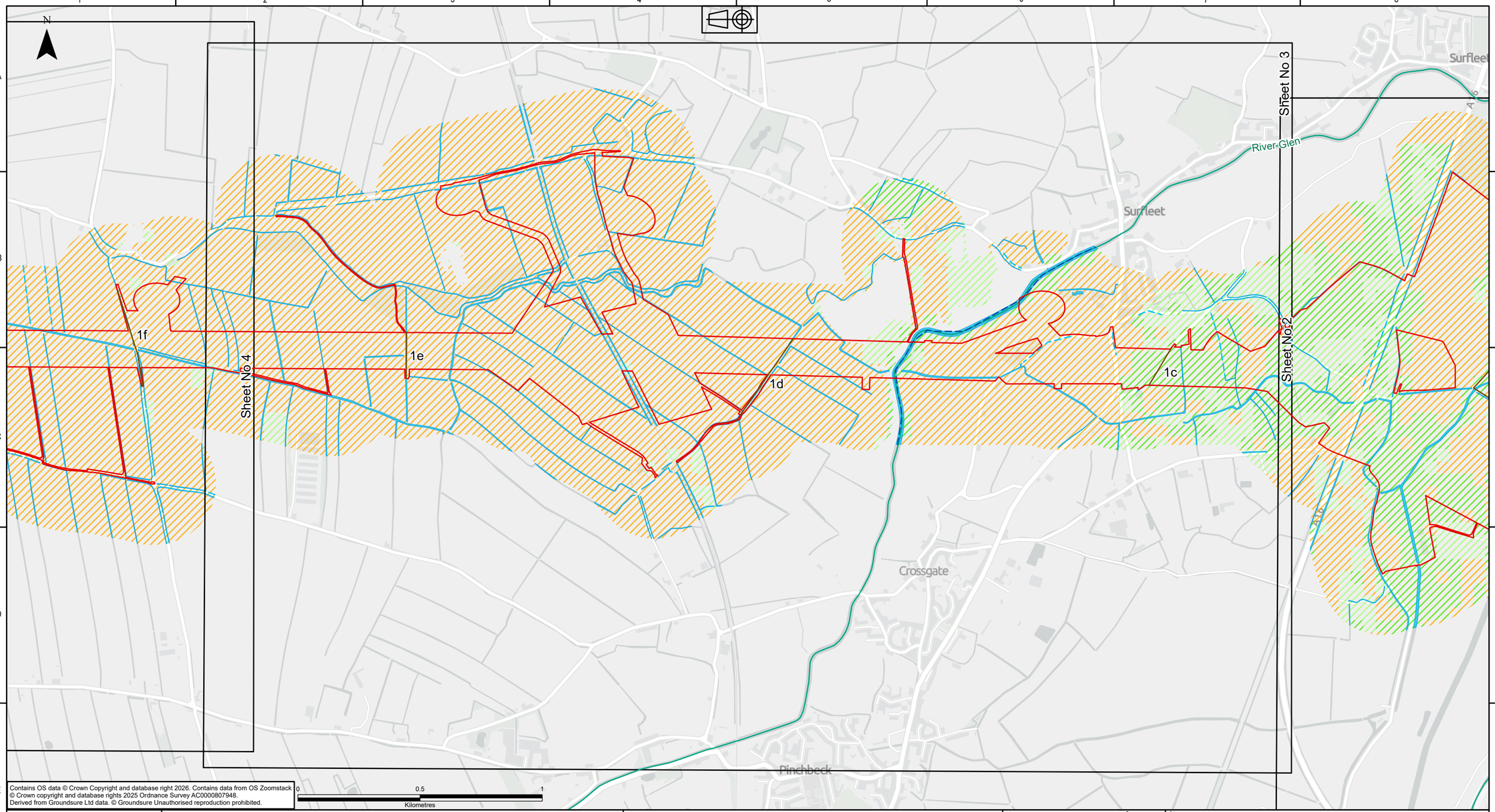

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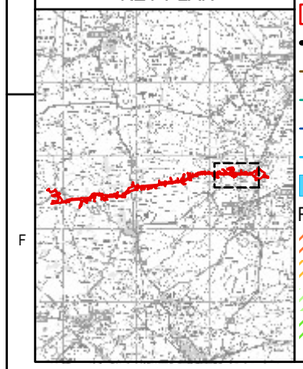

Legend

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Risk Flooding Rivers Sea

- High
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Site: Weston Marsh to East Leicestershire

Title: Phase 1 Geotechnical and Geo-environmental Desktop Study: Figure 7 Hydrology and Risk of Flooding

Purpose of issue: For Information

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Revision: P03

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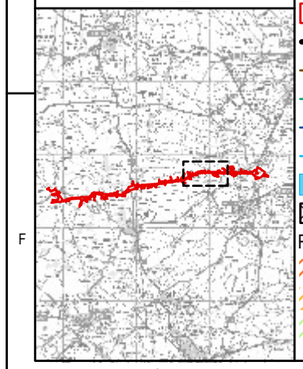

Legend

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- WFD Surface Waterbodies
- OS Surface Water Features - Lines
- OS Surface Water Features - Areas
- Historical Flood Events

Risk Flooding Rivers Sea

- High
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Site
Weston Marsh to East Leicestershire

Title
Phase 1 Geotechnical and Geo-environmental Desktop Study: Figure 7
Hydrology and Risk of Flooding

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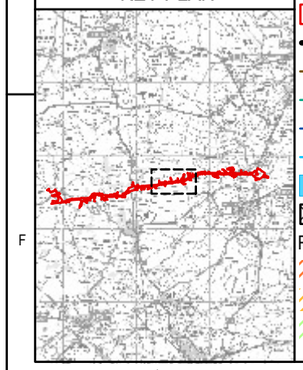

Legend

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Risk Flooding Rivers Sea

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Contractor
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Site
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Title
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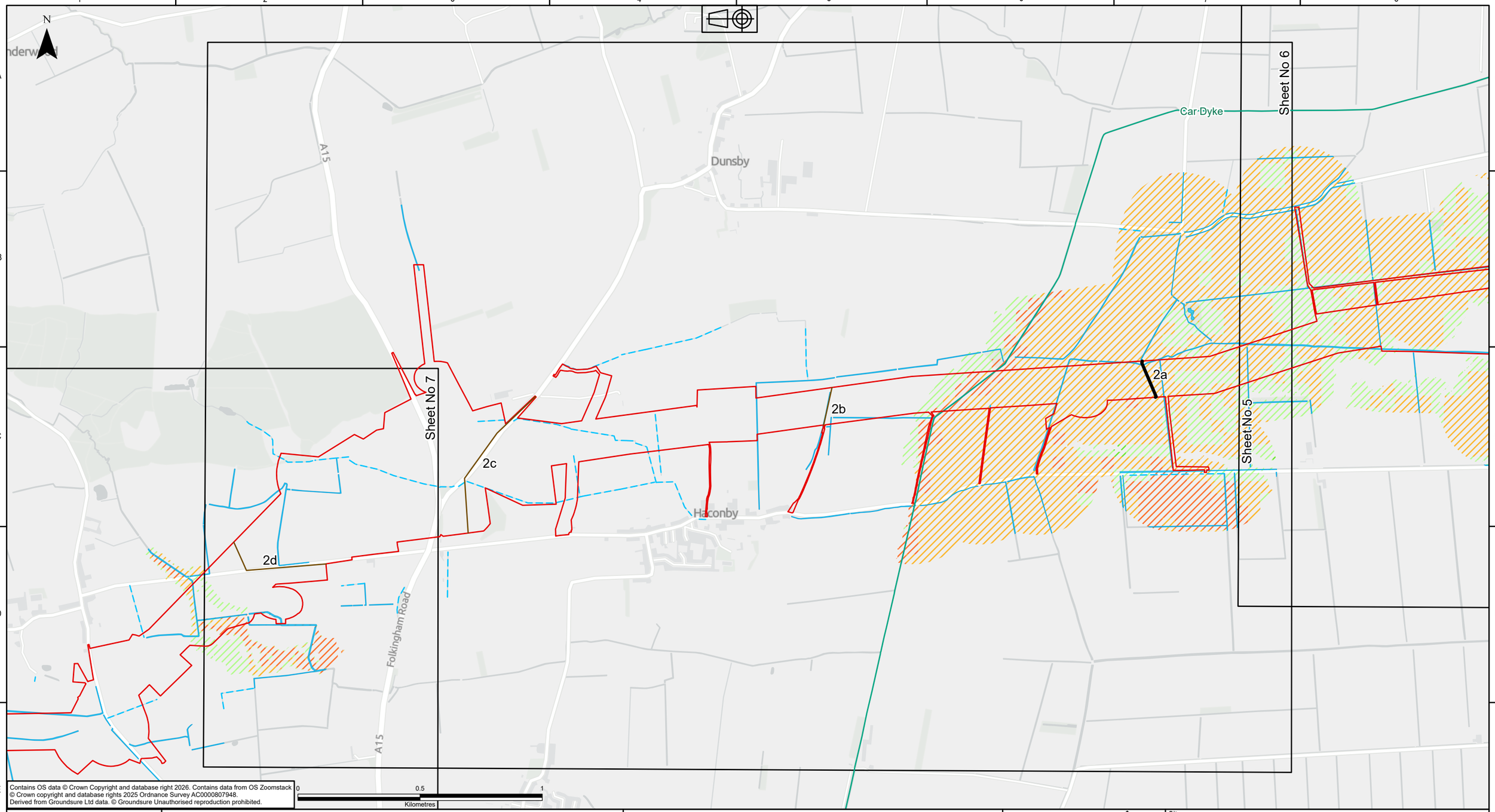

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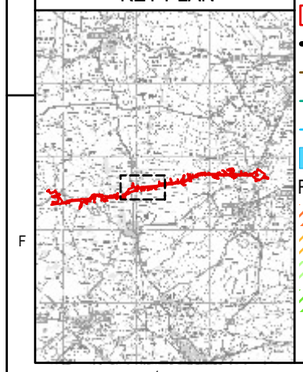

Legend

- DF2 Rev B Boundary - Overhead Line Weston Marsh to WMEL-A
- Route Regions
- Route Sub-regions
- EA Main Rivers
- OS Surface Water Features - Lines
- OS Surface Water Features - Areas

Risk Flooding Rivers Sea

- High
- Medium
- Low
- Very Low

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P03	23/06/2026	Third issue	LL	SL	TB	JC

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Contractor
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ARUP

Site
Weston Marsh to East Leicestershire

Title
Phase 1 Geotechnical and Geo-environmental Desktop Study: Figure 7
Hydrology and Risk of Flooding

Purpose of issue: For Information
Status: S3
Contractor Drawing No.: WMEL-AAJ-ZZZZ-XXXXXX-DRW-GE-000019
Revision: P03
Customer Drawing No.: N/A
Sheet 6 of 9
Issue: A

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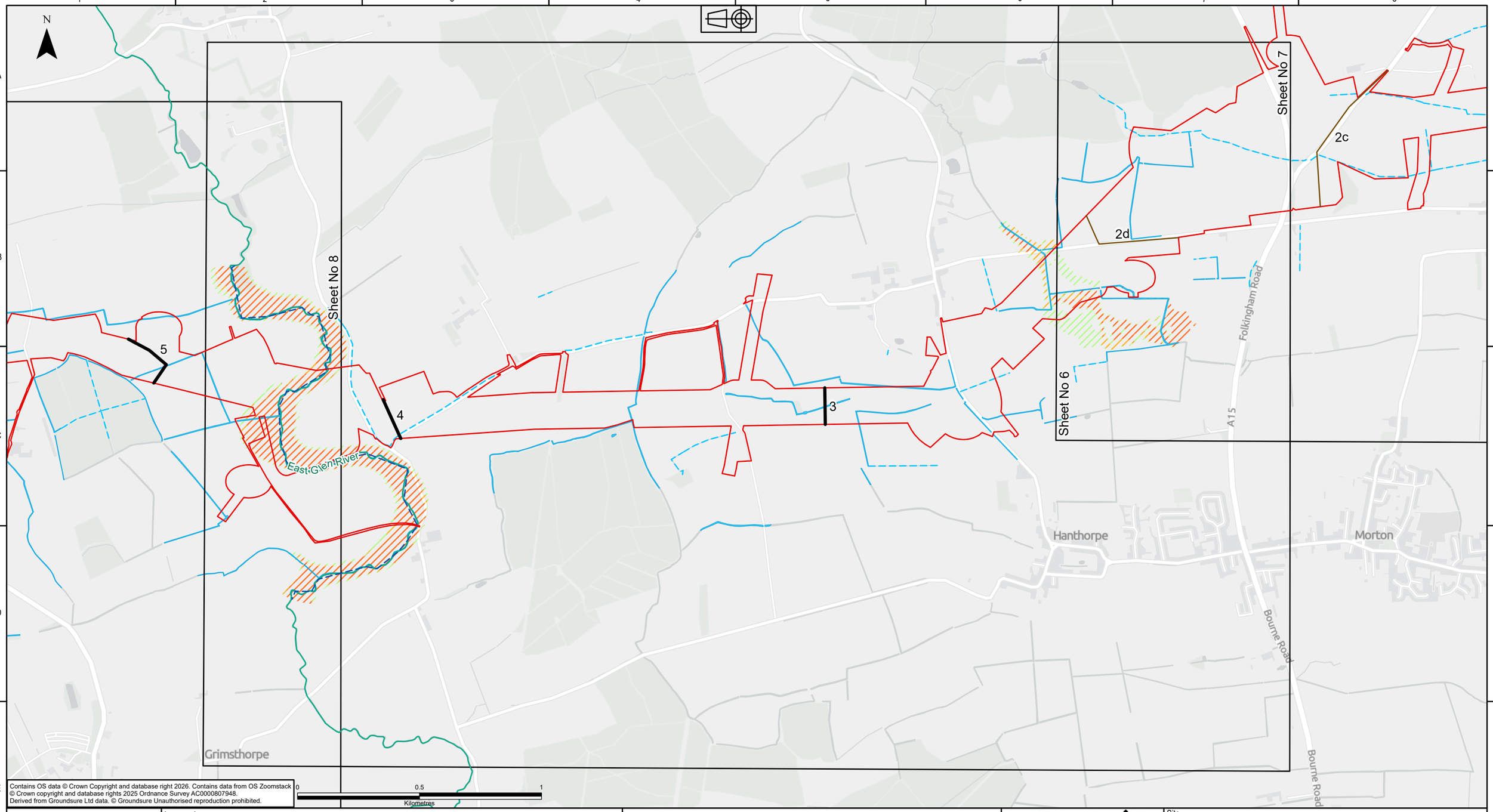

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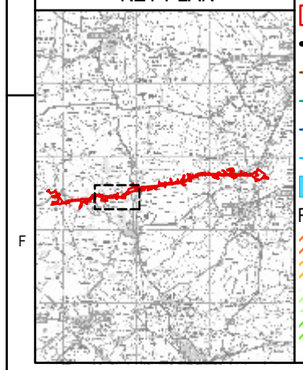

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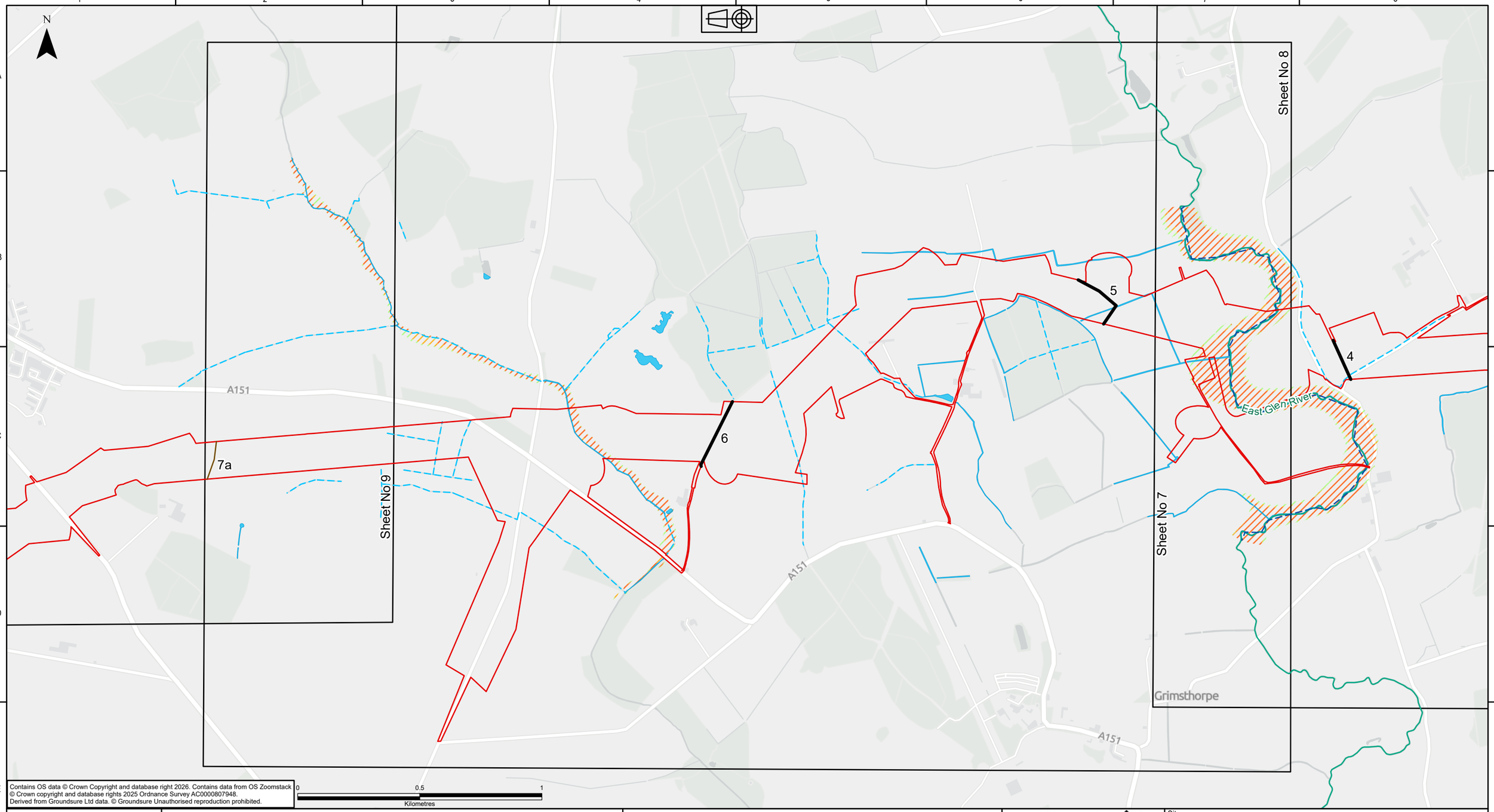

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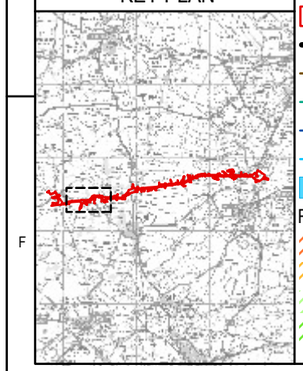

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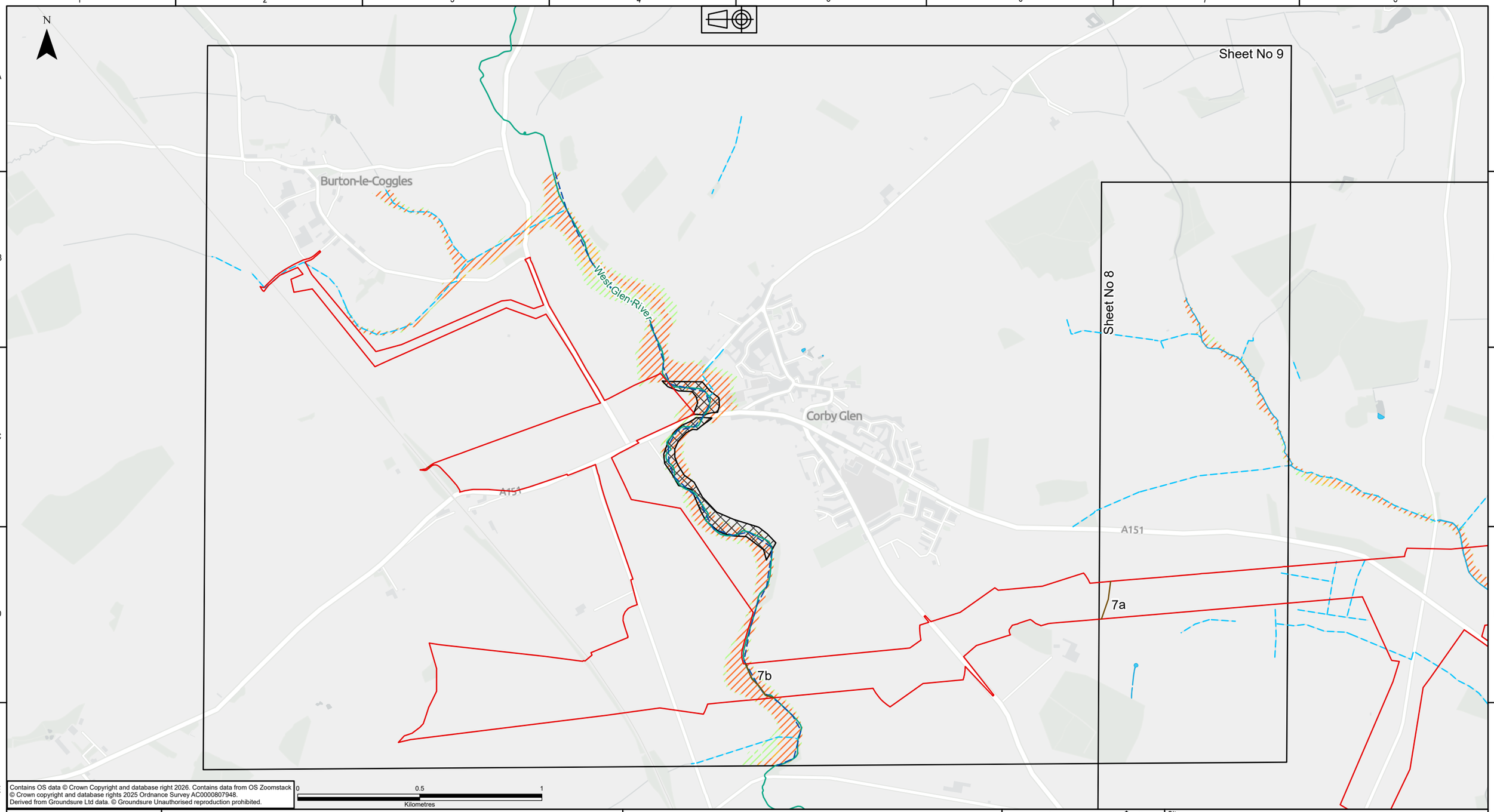

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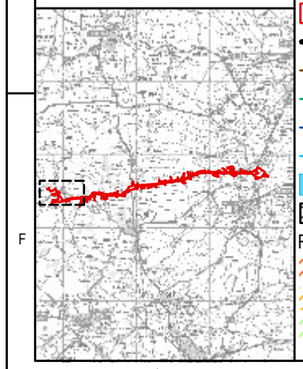

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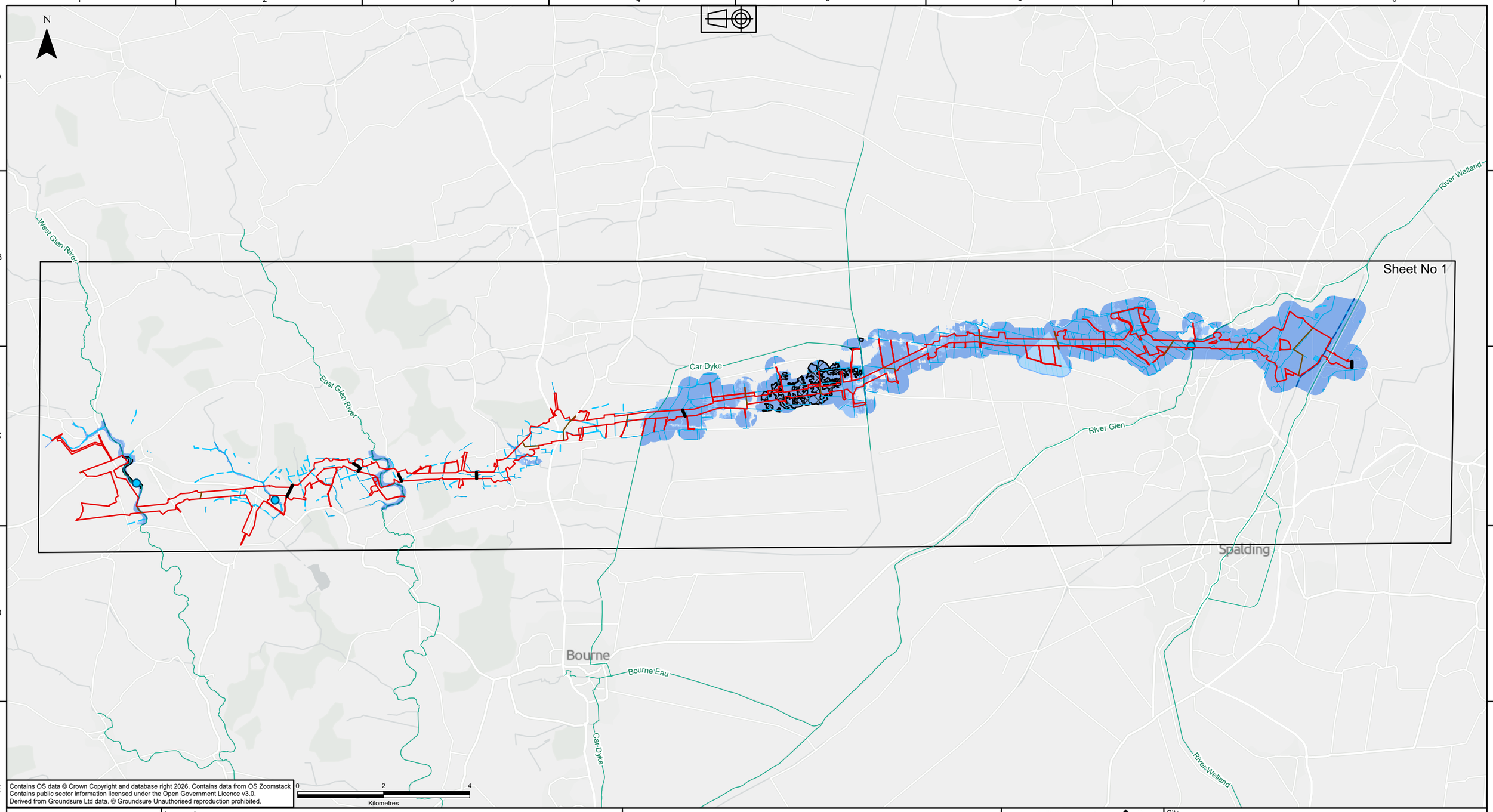

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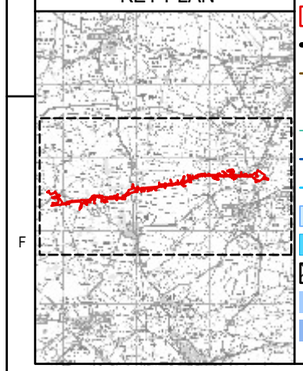

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Contractor
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Site: Weston Marsh to East Leicestershire

Title: Phase 1 Geotechnical and Geo-environmental Desktop Study: Figure 8 Hydrology and Flooding

Purpose of issue: For Information
Status: S3
Contractor Drawing No.: WMEL-AAJ-ZZZZ-XXXXXX-DRW-GE-000020
Revision: P03
Customer Drawing No.: N/A
Sheet 1 of 1
Issue: A

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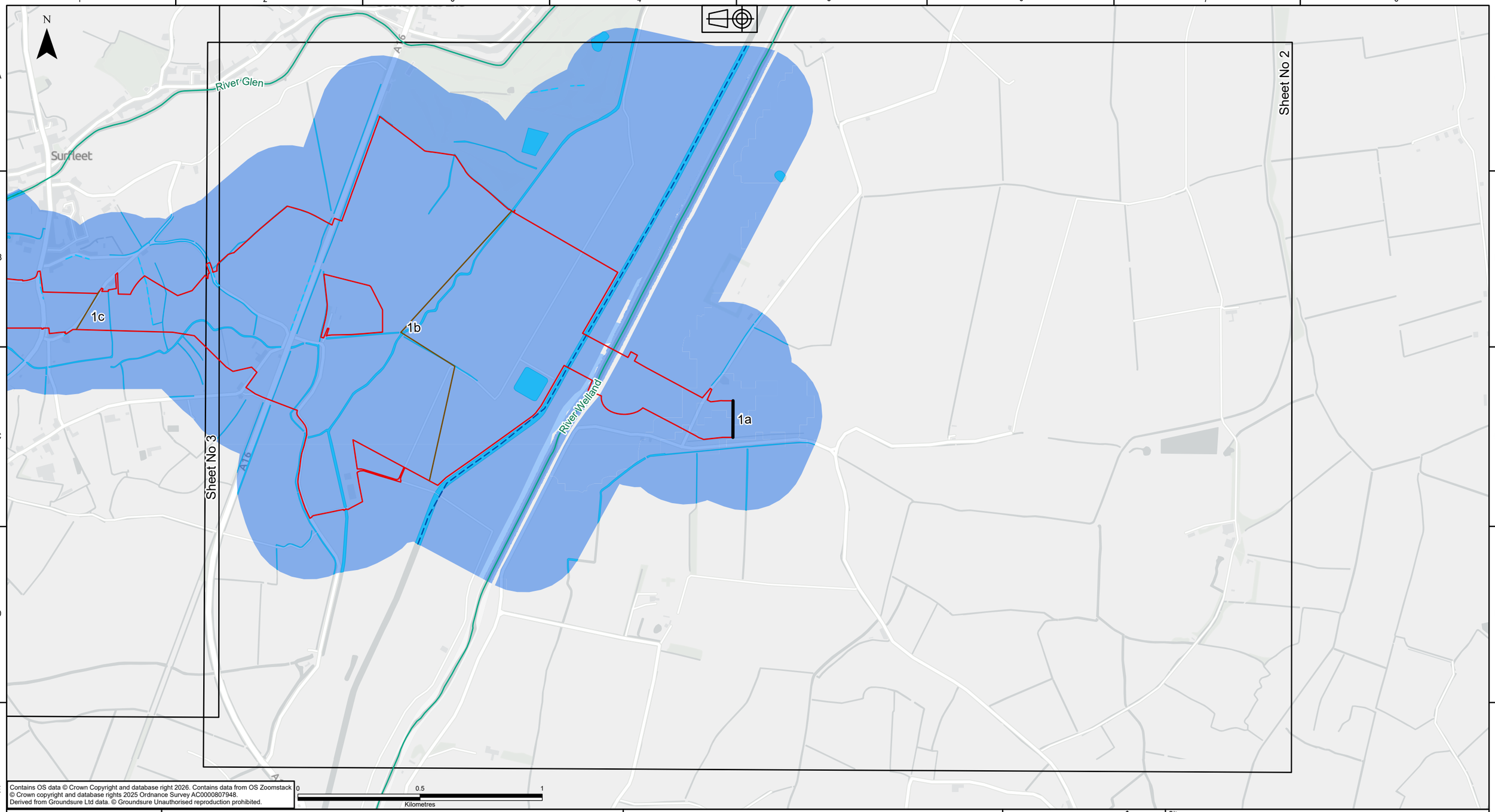

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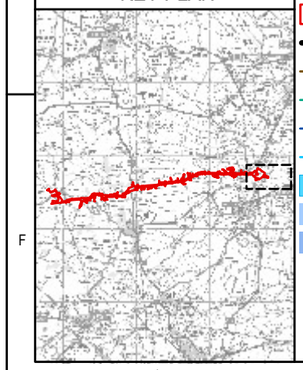

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Site
Weston Marsh to East Leicestershire

Title
Phase 1 Geotechnical and Geo-environmental Desktop Study:
Figure 8
Hydrology and Flooding

Purpose of issue: For Information
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Sheet 1 of 9
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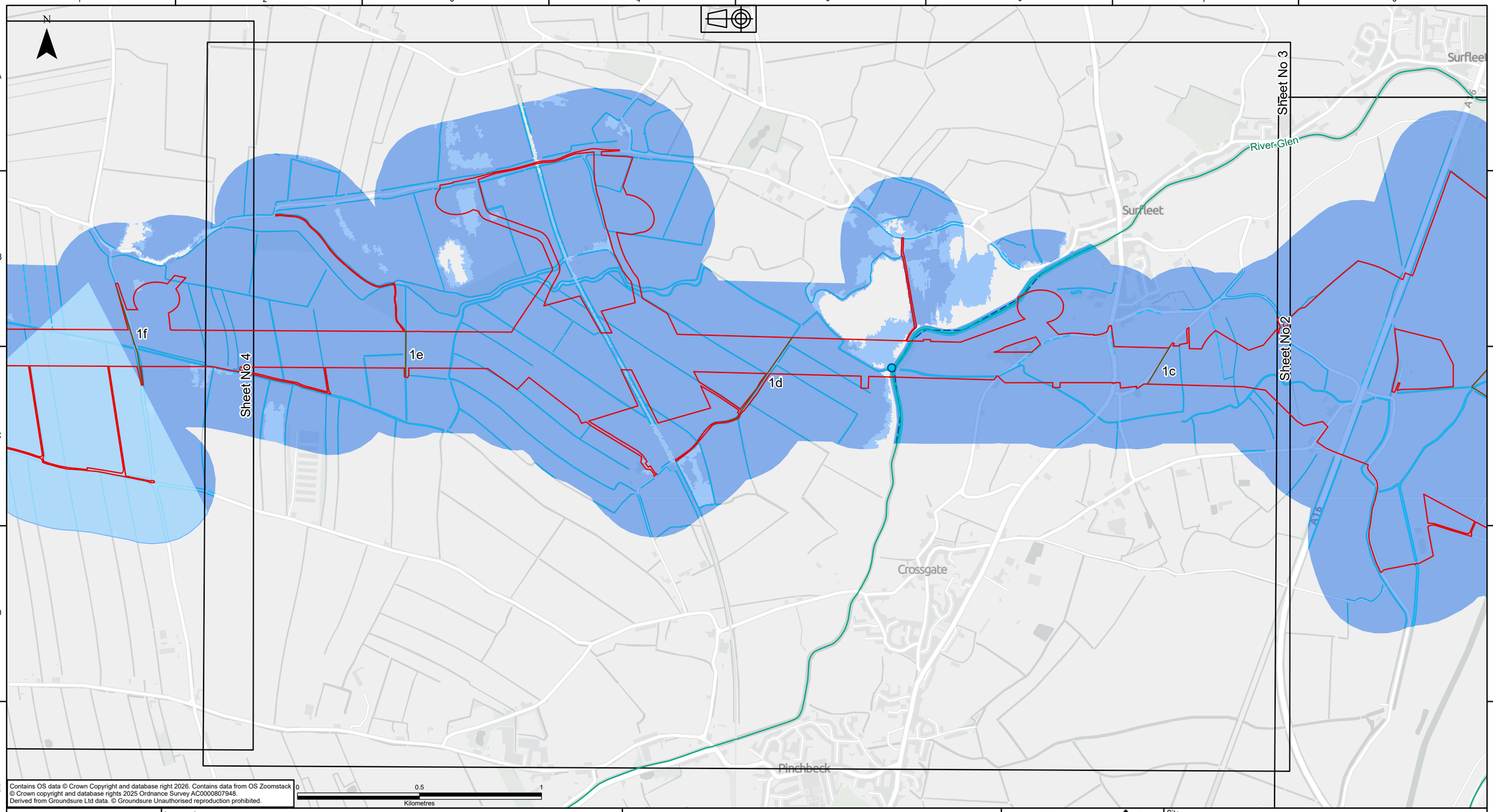

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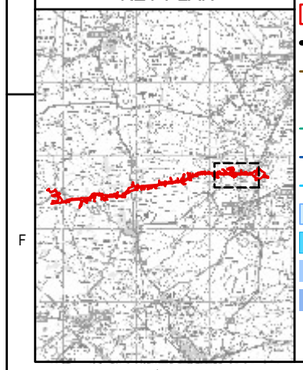

Legend

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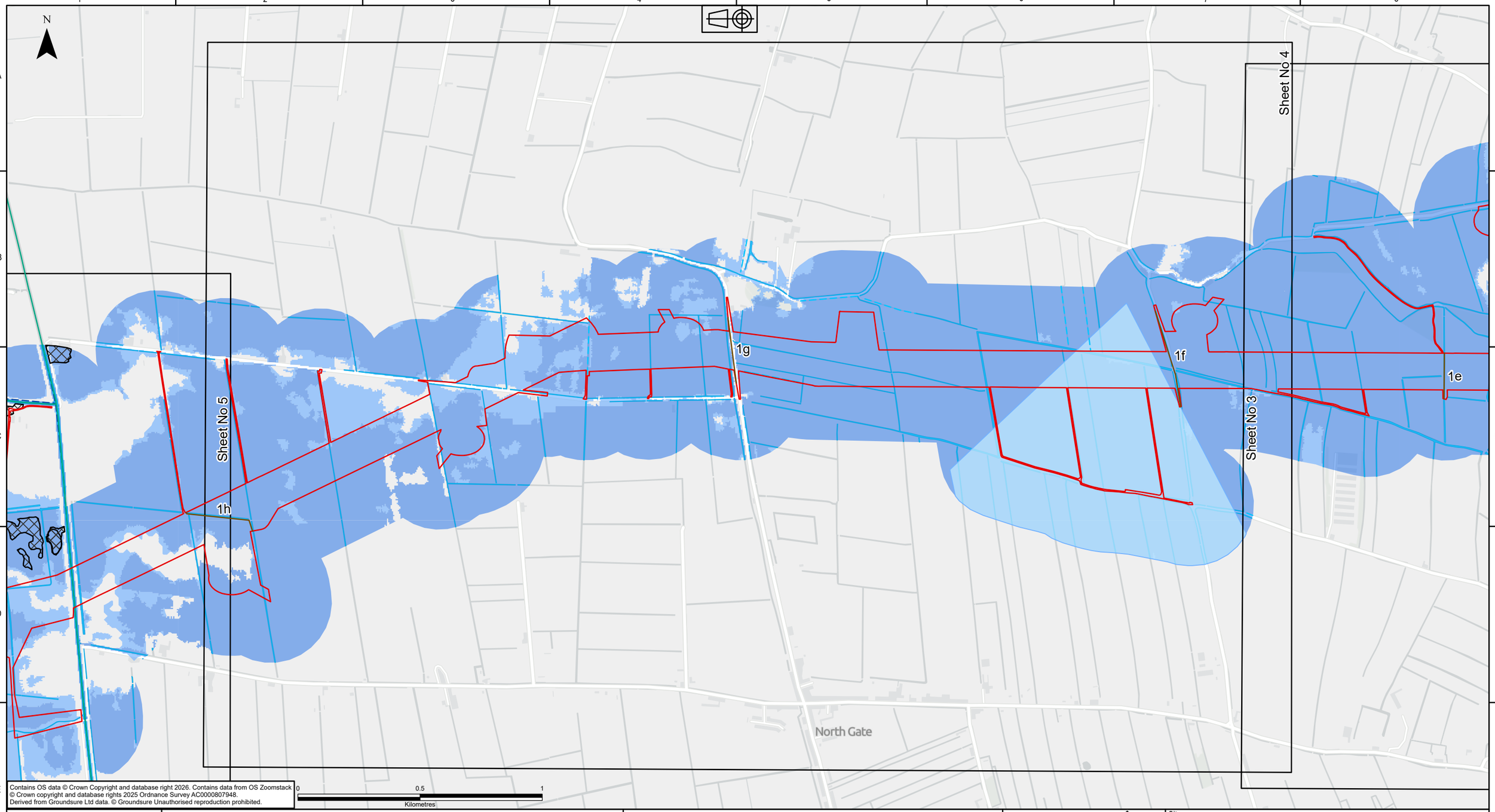

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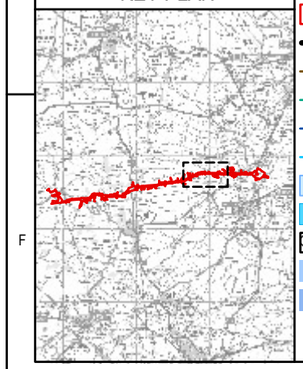

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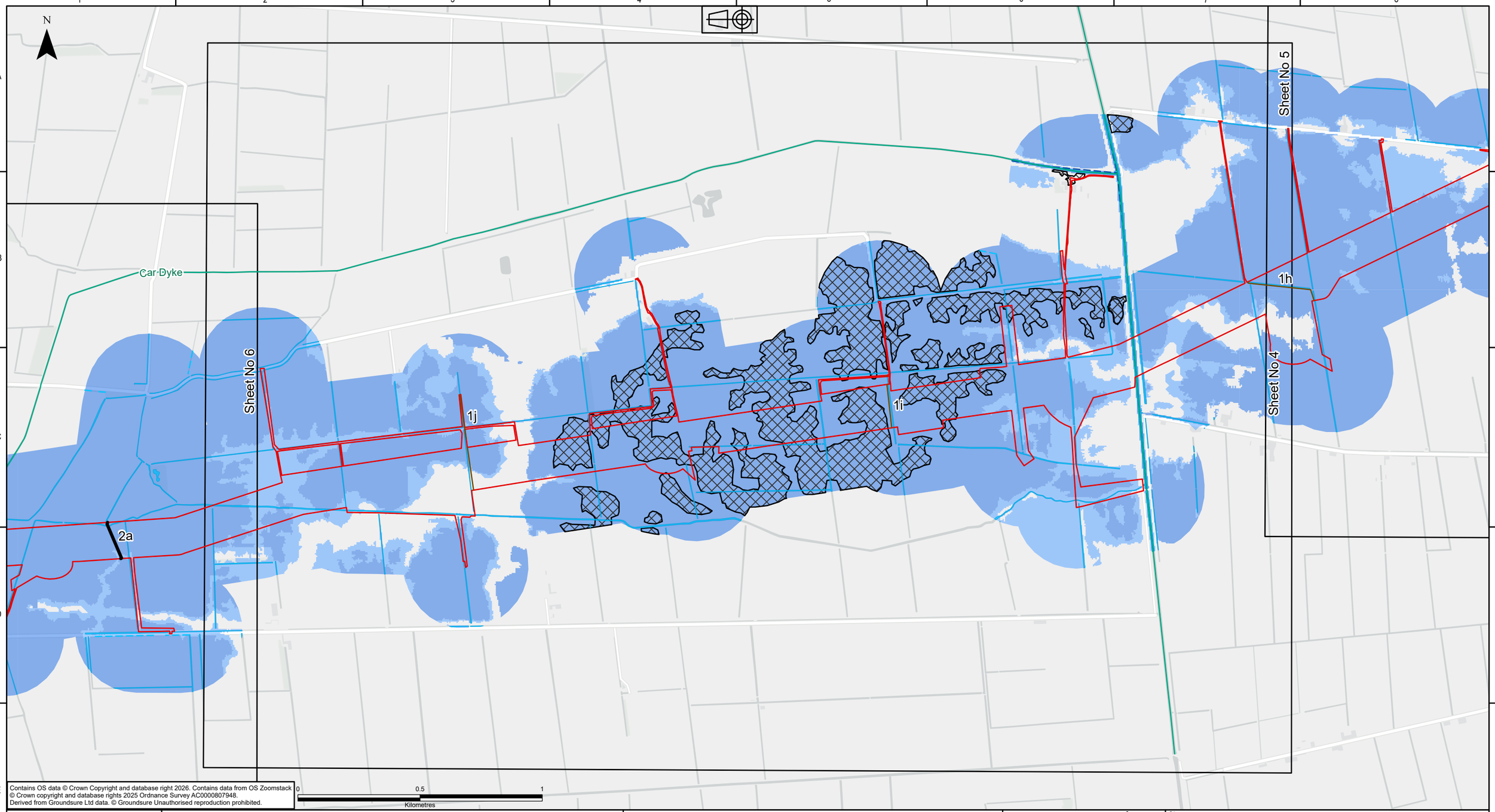

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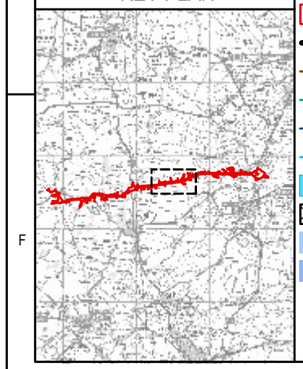

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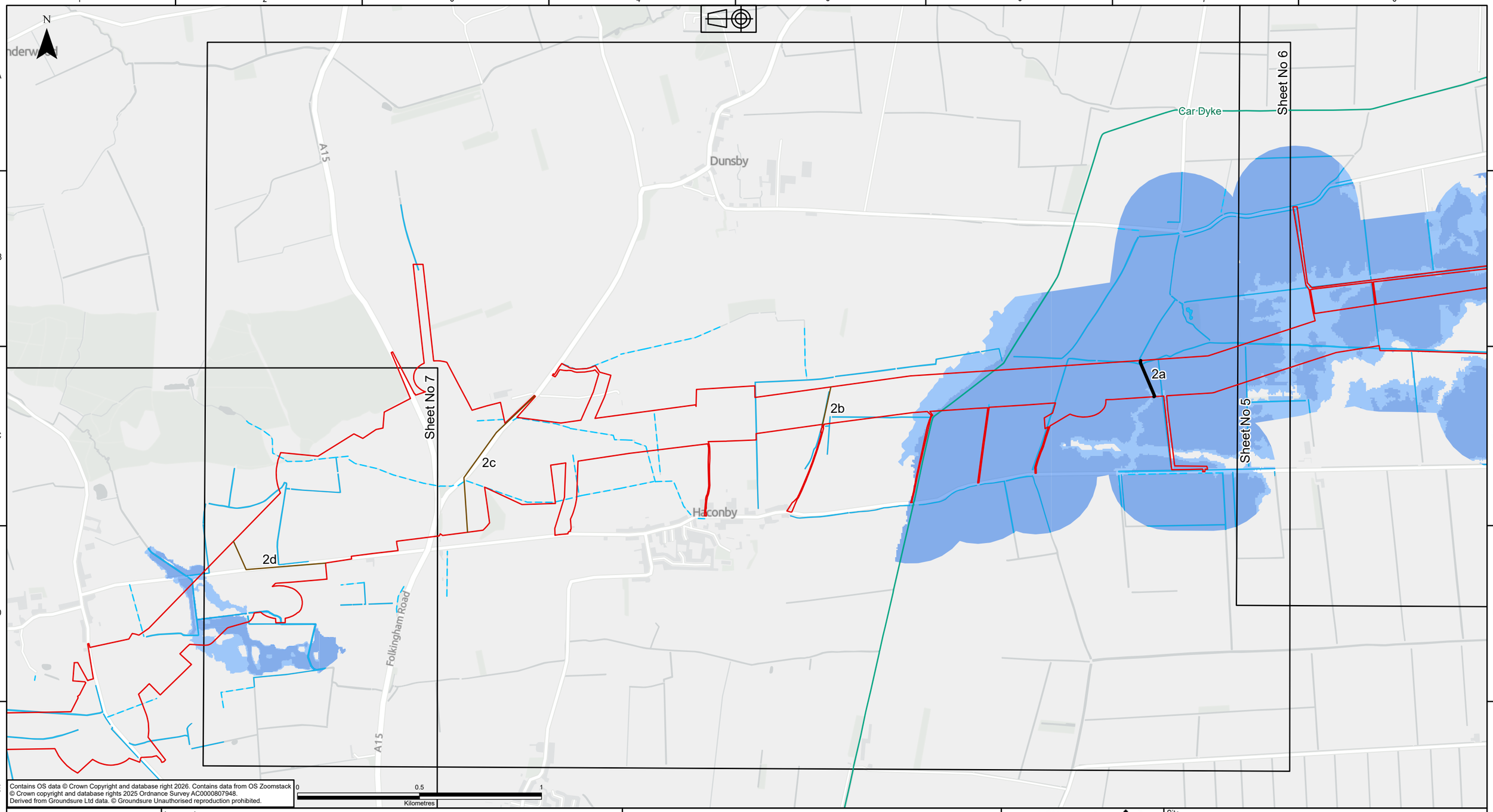

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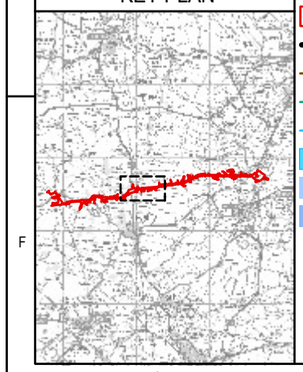

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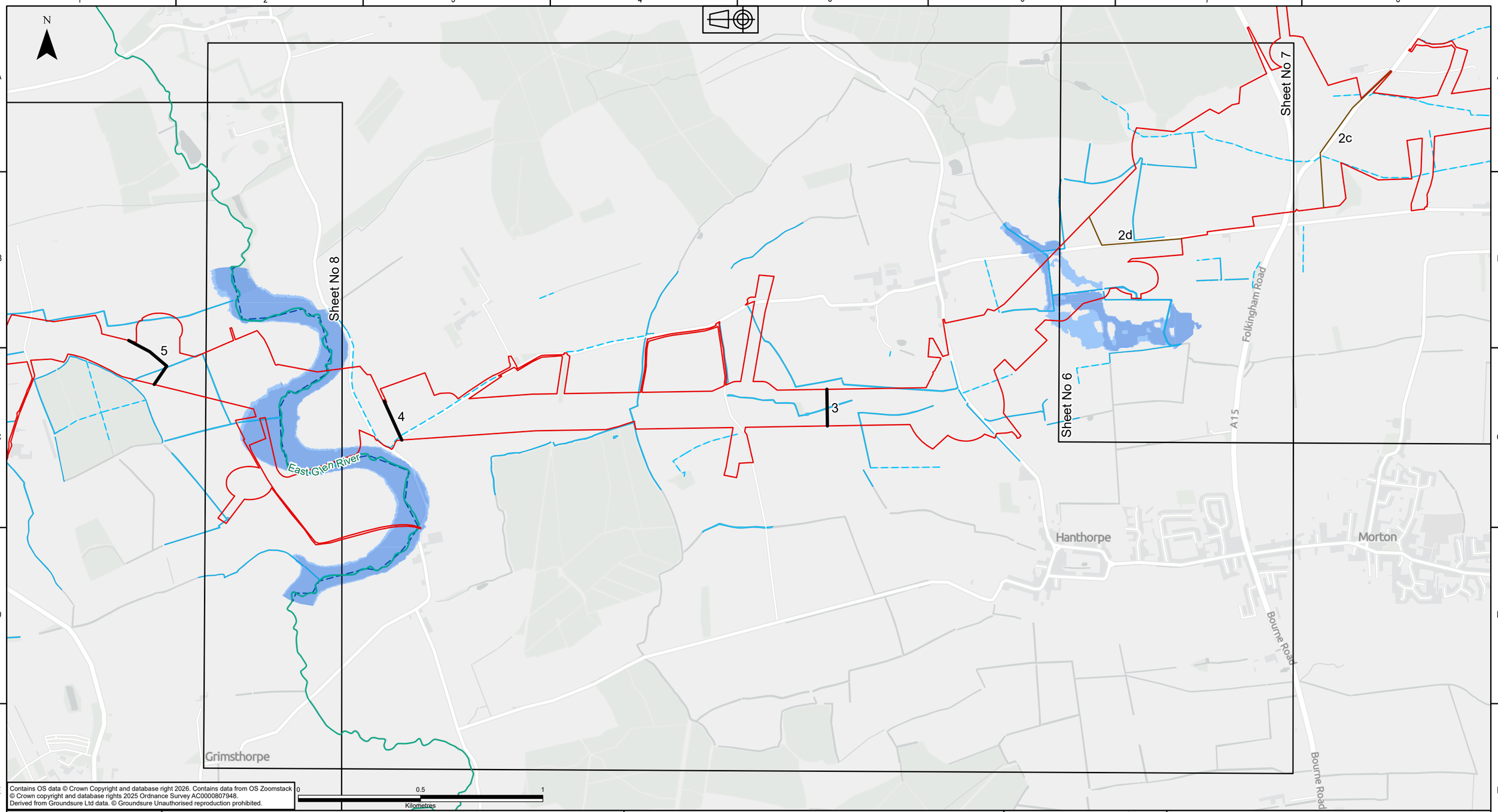

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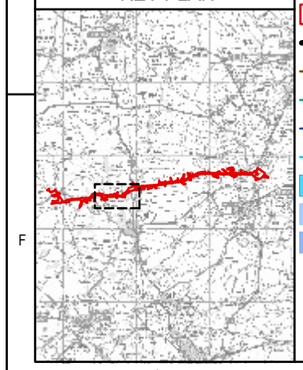

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- EA Main Rivers
- WFD Surface Waterbodies
- OS Surface Water Features - Lines
- OS Surface Water Features - Areas
- Flood Zone 2
- Flood Zone 3

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P02	28/04/2026	Second issue	DM	SL	JC	JC
P03	23/06/2026	Third issue	LL	SL	TB	JC

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Contractor
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Site
Weston Marsh to East Leicestershire

Title
Phase 1 Geotechnical and Geo-environmental Desktop Study:
Figure 8
Hydrology and Flooding

Purpose of issue: For Information
Status: S3
Contractor Drawing No.: WMEL-AAJ-ZZZZ-XXXXXX-DRW-GE-000020
Revision: P03
Customer Drawing No.: N/A
Sheet 6 of 9
Issue: A

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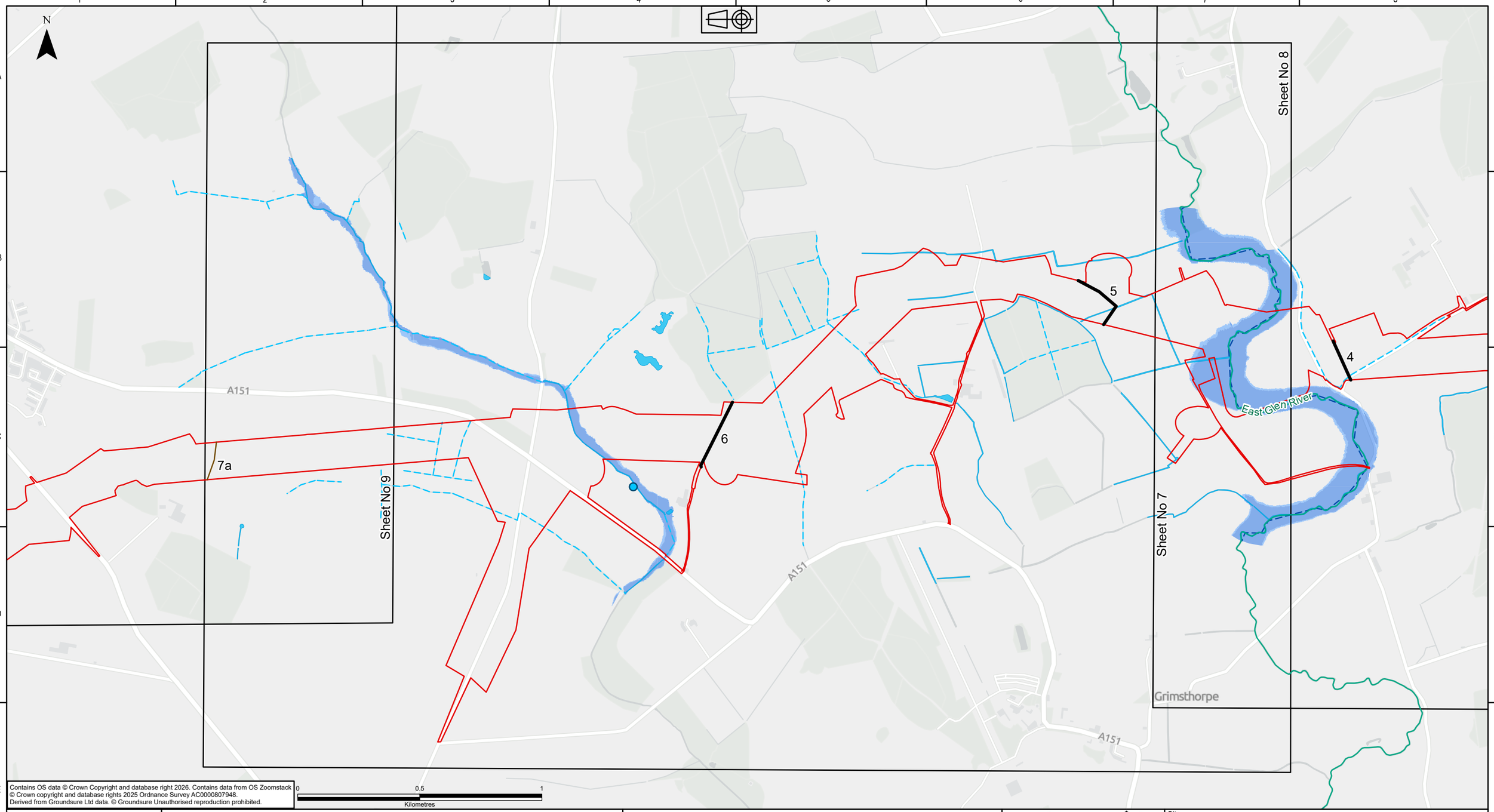

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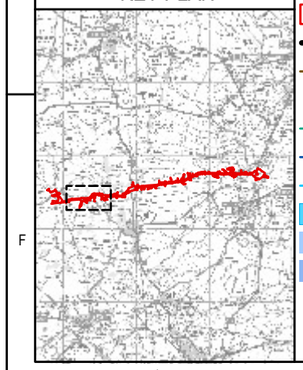

Legend

- DF2 Rev B Boundary - Overhead Line Weston Marsh to WMEL-A
- Route Regions
- Route Sub-regions
- Surface Water Abstractions - Points
- EA Main Rivers
- WFD Surface Waterbodies
- OS Surface Water Features - Lines
- OS Surface Water Features - Areas
- Flood Zone 2
- Flood Zone 3

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Contractor
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Site
Weston Marsh to East Leicestershire

Title
Phase 1 Geotechnical and Geo-environmental Desktop Study: Figure 8
Hydrology and Flooding

Purpose of issue: For Information
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Revision: P03
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Sheet 7 of 9
Issue: A

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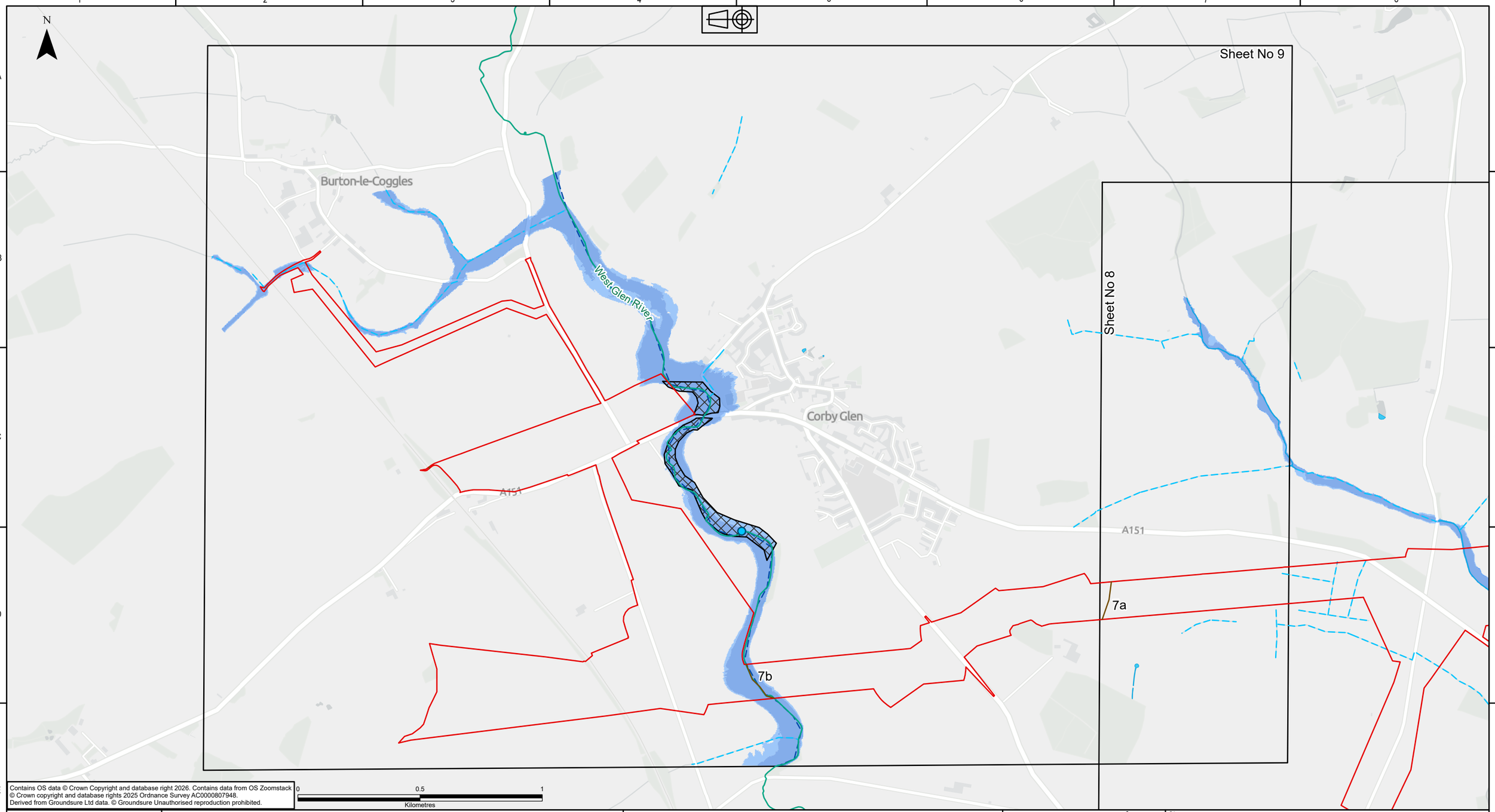

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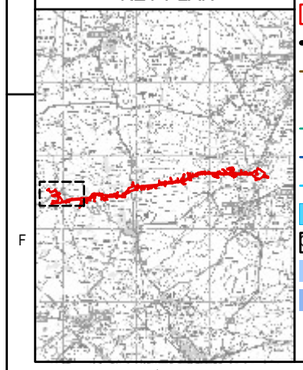

Legend

- DF2 Rev B Boundary - Overhead Line Weston Marsh to WMEL-A
- Route Regions
- Route Sub-regions
- Surface Water Abstractions - Points
- EA Main Rivers
- WFD Surface Waterbodies
- OS Surface Water Features - Lines
- OS Surface Water Features - Areas
- Historical Flood Events
- Flood Zone 2
- Flood Zone 3

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Contractor
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Site
Weston Marsh to East Leicestershire

Title
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Figure 8
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Purpose of issue: For Information
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Revision: P03
Customer Drawing No.: N/A
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Issue: A

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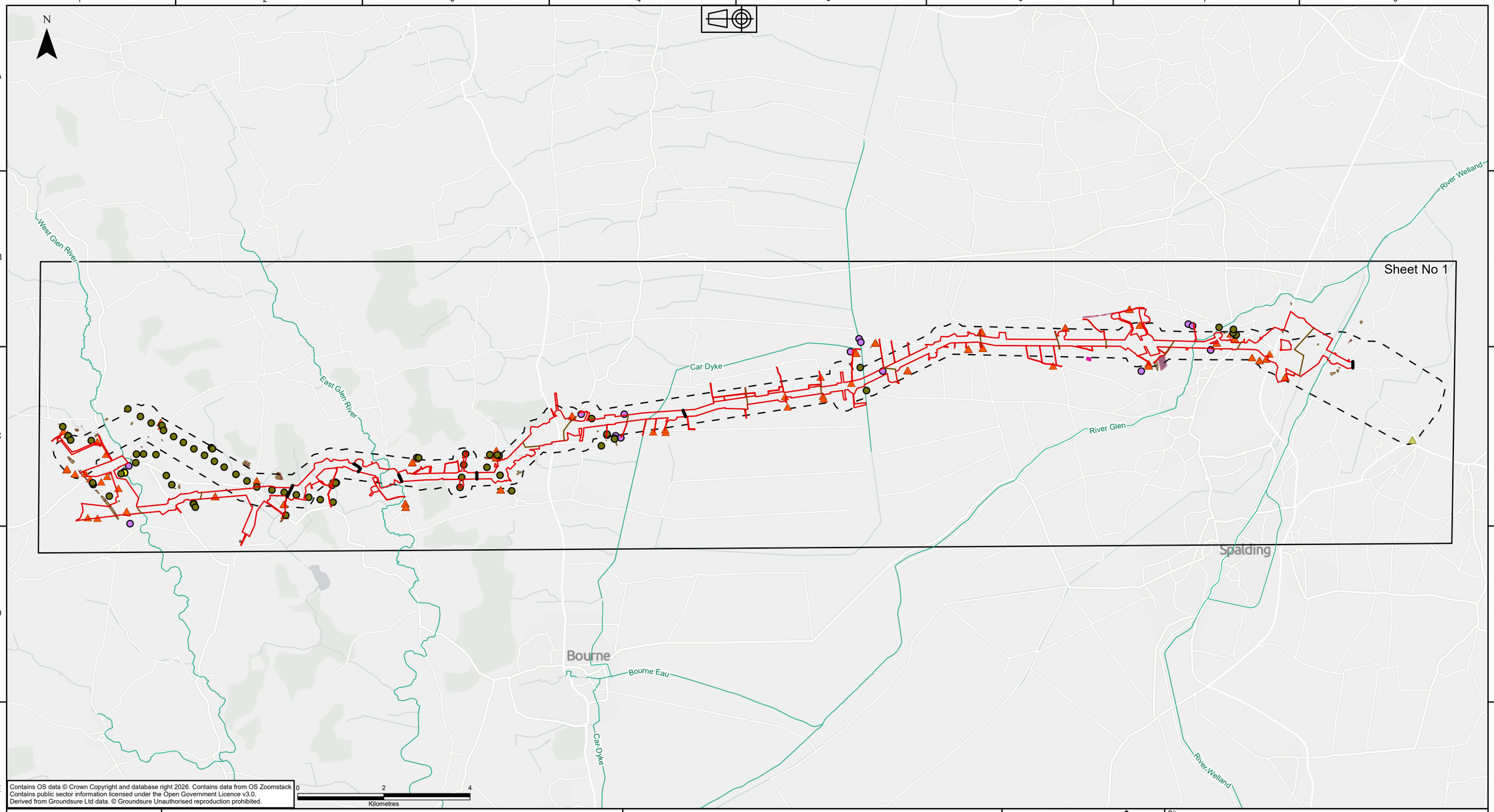

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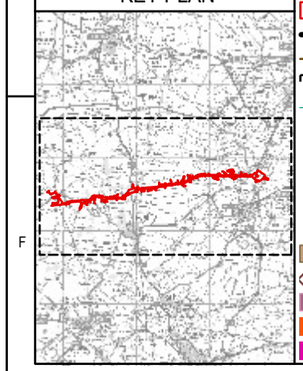

Legend

- DF2 Rev B Boundary - Overhead Line Weston Marsh to WMEL-A
- Route Regions
- Route Sub-regions
- 250m Study Area
- EA Main Rivers
- Recent Industrial Land Uses
- Landfill Waste Exemptions
- List 2 Dangerous Substances
- Discharges Controlled Waters
- Pollution Incidents
- Surface Ground Workings
- Historical Industrial Land Use
- Historical Landfill
- Tanks
- Control of Major Accident Hazards

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Site
Weston Marsh to East Leicestershire

Title
Phase 1 Geotechnical and Geo-environmental Desktop Study: Figure 9
Licenced waste and industrial land uses and hazardous substances

Purpose of issue: For Information
Status: S3
Contractor Drawing No.: WMEL-AAJ-ZZZZ-XXXXXX-DRW-GE-000021
Revision: P03
Customer Drawing No.: N/A
Sheet 1 of 9
Issue: A

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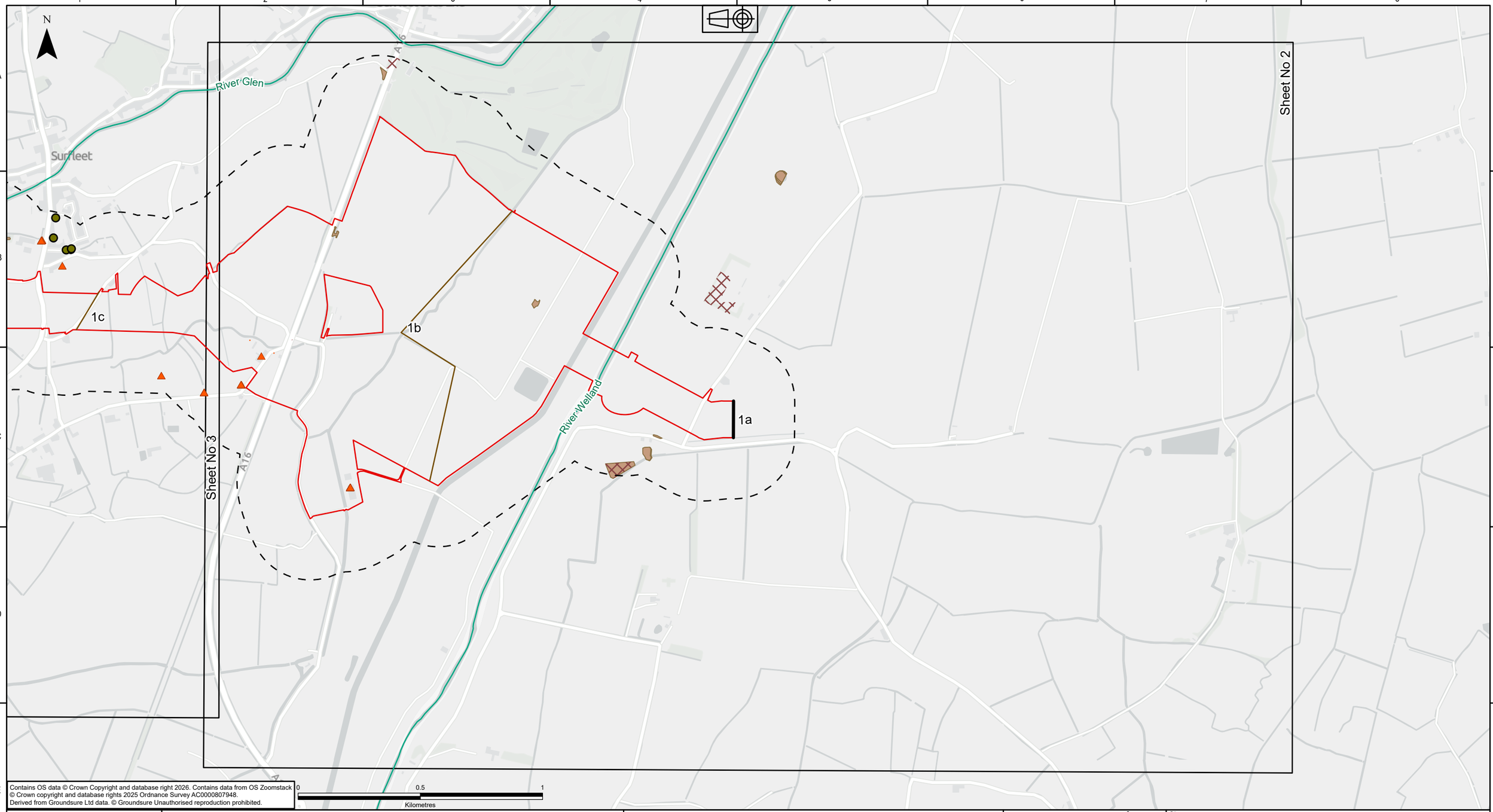

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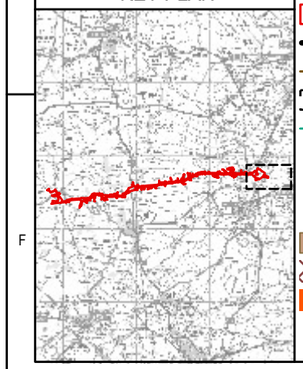

Legend

- DF2 Rev B Boundary - Overhead Line Weston Marsh to WMEL-A
- Route Regions
- Route Sub-regions
- 250m Study Area
- EA Main Rivers
- Recent Industrial Land Uses
- Landfill Waste Exemptions
- Discharges Controlled Waters
- Surface Ground Workings
- Historical Industrial Land Use
- Tanks

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Site
Weston Marsh to East Leicestershire

Title
Phase 1 Geotechnical and Geo-environmental Desktop Study: Figure 9
Licenced waste and industrial land uses and hazardous substances

Purpose of issue: For Information
Status: S3
Contractor Drawing No.: WMEL-AAJ-ZZZZ-XXXXXX-DRW-GE-000021
Revision: P03
Customer Drawing No.: N/A
Sheet 2 of 9
Issue: A

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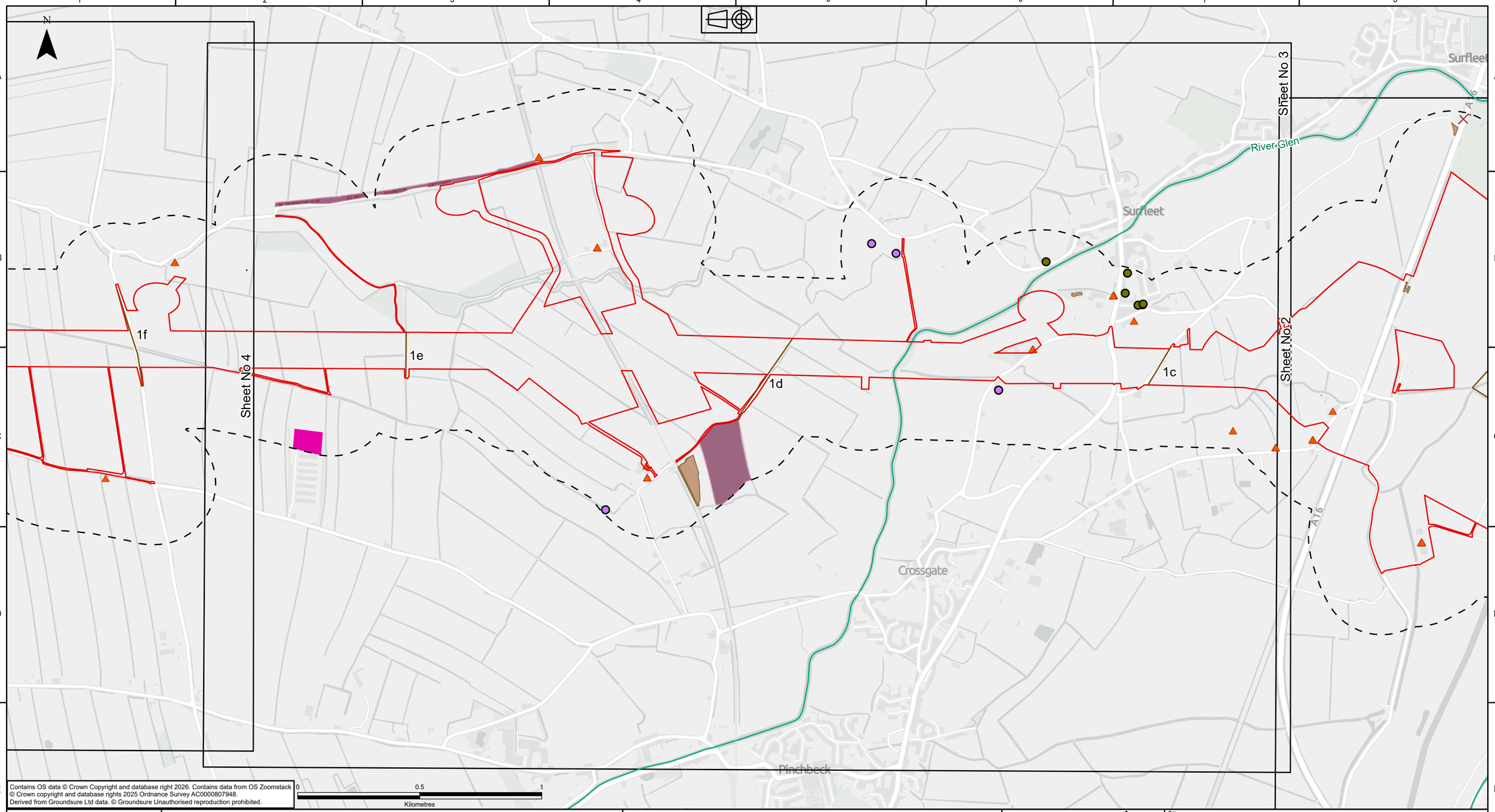

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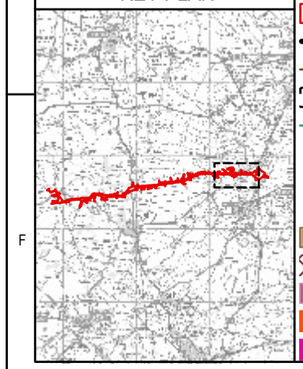

Legend

- DF2 Rev B Boundary - Overhead Line Weston Marsh to WMEL-A
- Route Regions
- Route Sub-regions
- 250m Study Area
- EA Main Rivers
- Recent Industrial Land Uses
- Landfill Waste Exemptions
- Discharges Controlled Waters
- Surface Ground Workings
- Historical Industrial Land Use
- Historical Landfill
- Tanks
- Control of Major Accident Hazards

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Site: Weston Marsh to East Leicestershire

Title: Phase 1 Geotechnical and Geo-environmental Desktop Study: Figure 9 Licenced waste and industrial land uses and hazardous substances

Purpose of issue: For Information

Status: S3

Contractor Drawing No.: WMEL-AAJ-ZZZZ-XXXXXX-DRW-GE-000021

Revision: P03

Customer Drawing No.: N/A

Sheet 3 of 9

Issue: A

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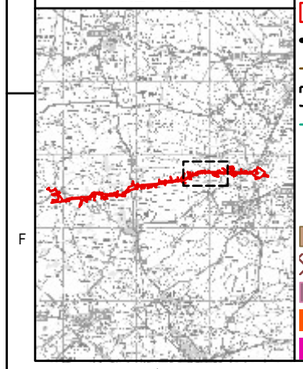

Legend

- DF2 Rev B Boundary - Overhead Line Weston Marsh to WMEL-A
- Route Regions
- Route Sub-regions
- 250m Study Area
- EA Main Rivers
- Recent Industrial Land Uses
- Landfill Waste Exemptions
- Discharges Controlled Waters
- Surface Ground Workings
- Historical Industrial Land Use
- Historical Landfill
- Tanks
- Control of Major Accident Hazards

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Site
Weston Marsh to East Leicestershire

Title
Phase 1 Geotechnical and Geo-environmental Desktop Study: Figure 9
Licenced waste and industrial land uses and hazardous substances

Purpose of issue: For Information
Status: S3
Contractor Drawing No.: WMEL-AAJ-ZZZZ-XXXXXX-DRW-GE-000021
Revision: P03
Customer Drawing No.: N/A
Sheet 4 of 9
Issue: A

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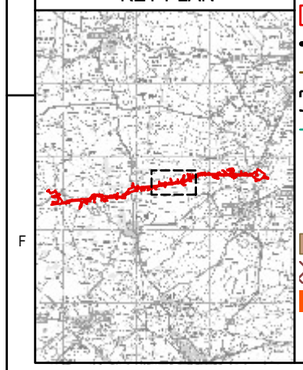

Legend

- DF2 Rev B Boundary - Overhead Line Weston Marsh to WMEL-A
- Route Regions
- Route Sub-regions
- 250m Study Area
- EA Main Rivers
- Recent Industrial Land Uses
- Landfill Waste Exemptions
- Discharges Controlled Waters
- Surface Ground Workings
- Historical Industrial Land Use
- Tanks

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Site
Weston Marsh to East Leicestershire

Title
Phase 1 Geotechnical and Geo-environmental Desktop Study: Figure 9
Licenced waste and industrial land uses and hazardous substances

Purpose of issue: For Information
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Sheet 5 of 9
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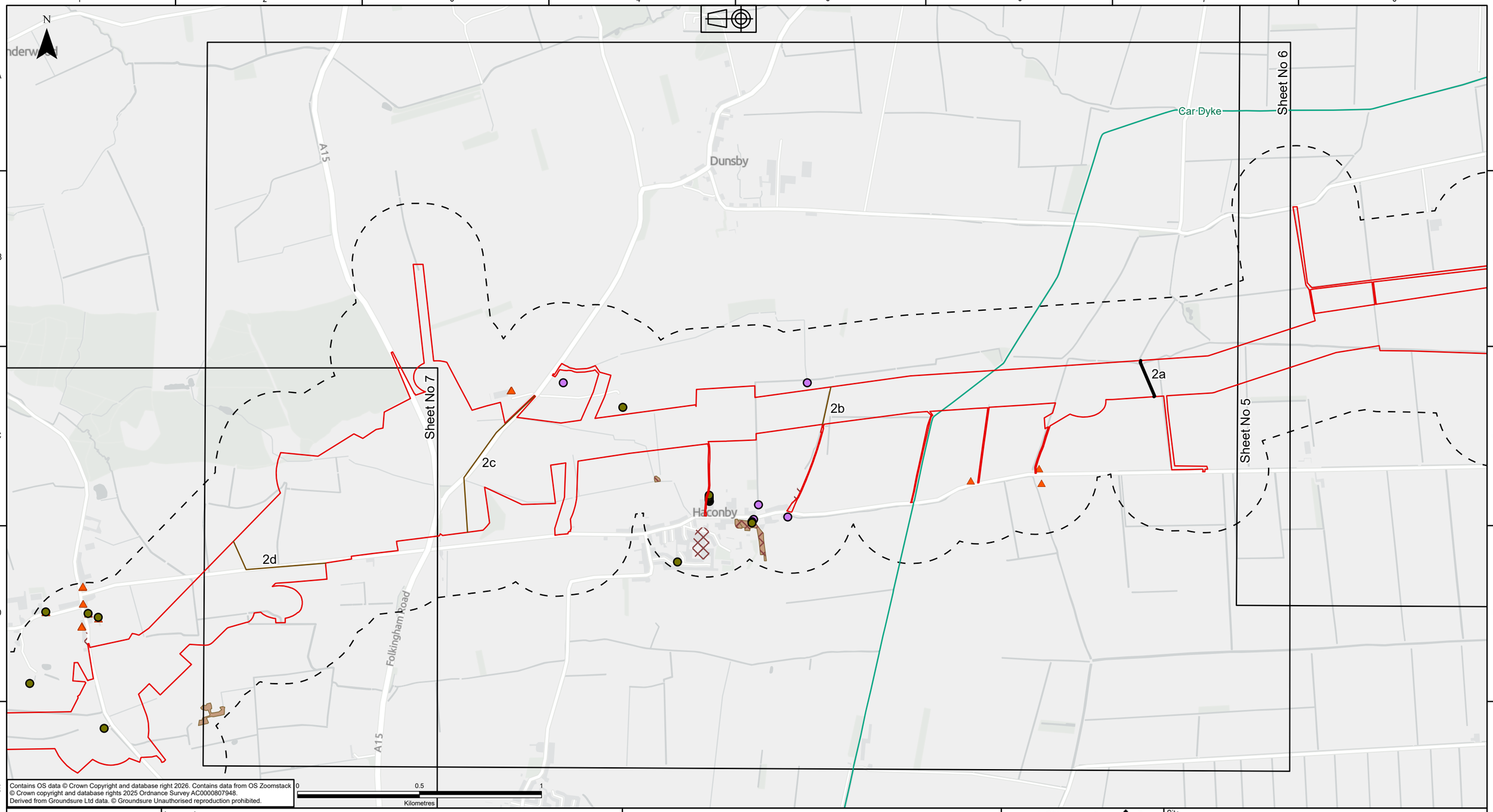

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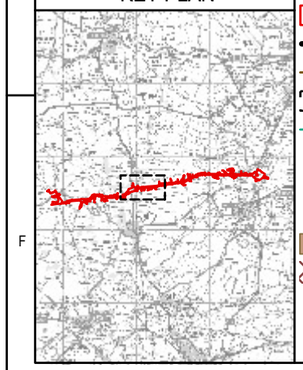

Legend

- DF2 Rev B Boundary - Overhead Line Weston Marsh to WMEL-A
- Route Regions
- Route Sub-regions
- 250m Study Area
- EA Main Rivers
- Recent Industrial Land Uses
- Landfill Waste Exemptions
- Discharges Controlled Waters
- Surface Ground Workings
- Historical Industrial Land Use

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Site: Weston Marsh to East Leicestershire

Title: Phase 1 Geotechnical and Geo-environmental Desktop Study: Figure 9
Licenced waste and industrial land uses and hazardous substances

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Reviewed: T. BODVIN
Approved: J. CHASTNEY
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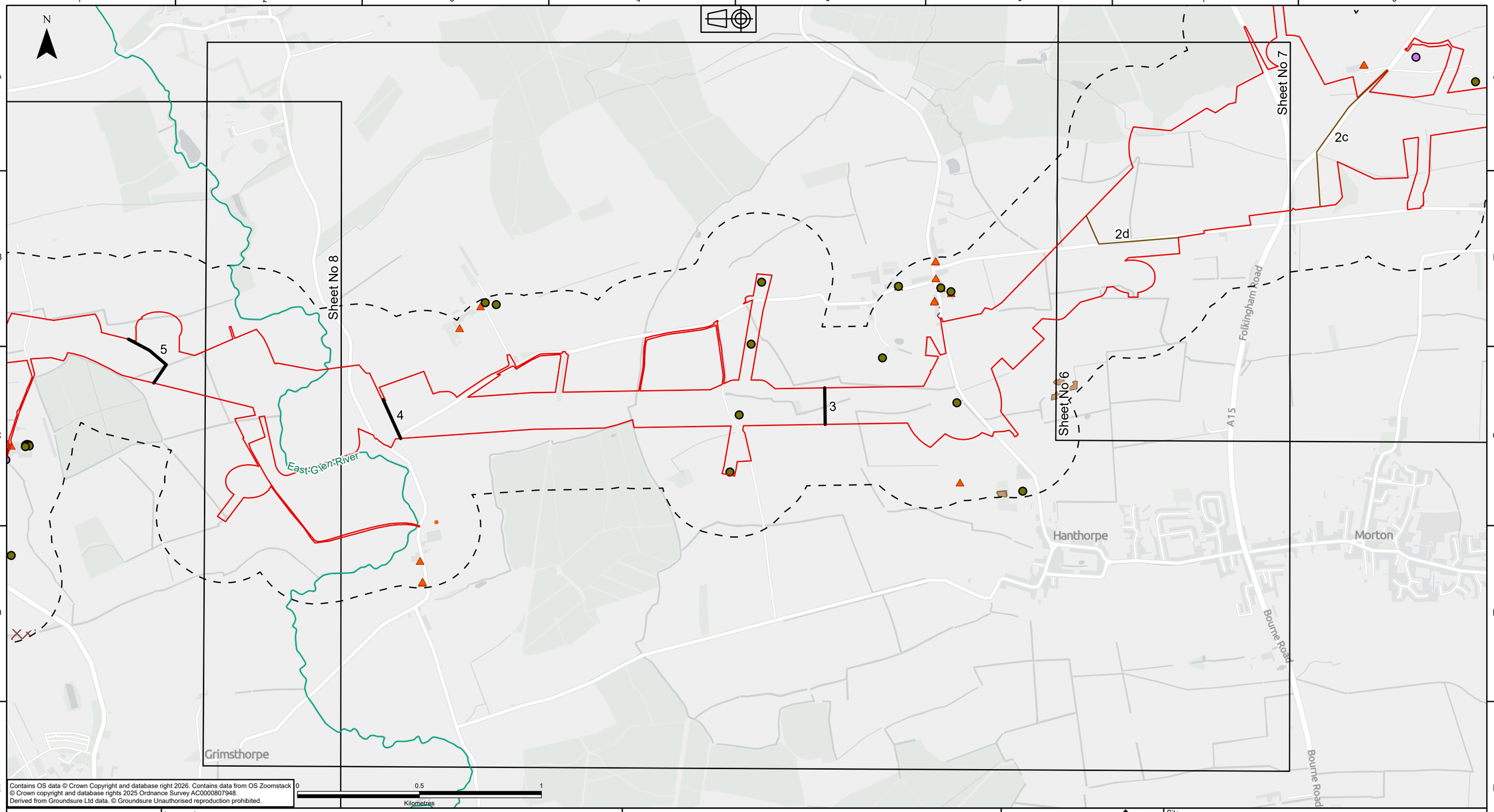

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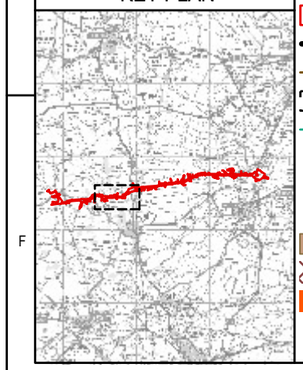

Legend

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- Route Regions
- Route Sub-regions
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Site
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Title
Phase 1 Geotechnical and Geo-environmental Desktop Study: Figure 9
Licenced waste and industrial land uses and hazardous substances

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Revision: P03
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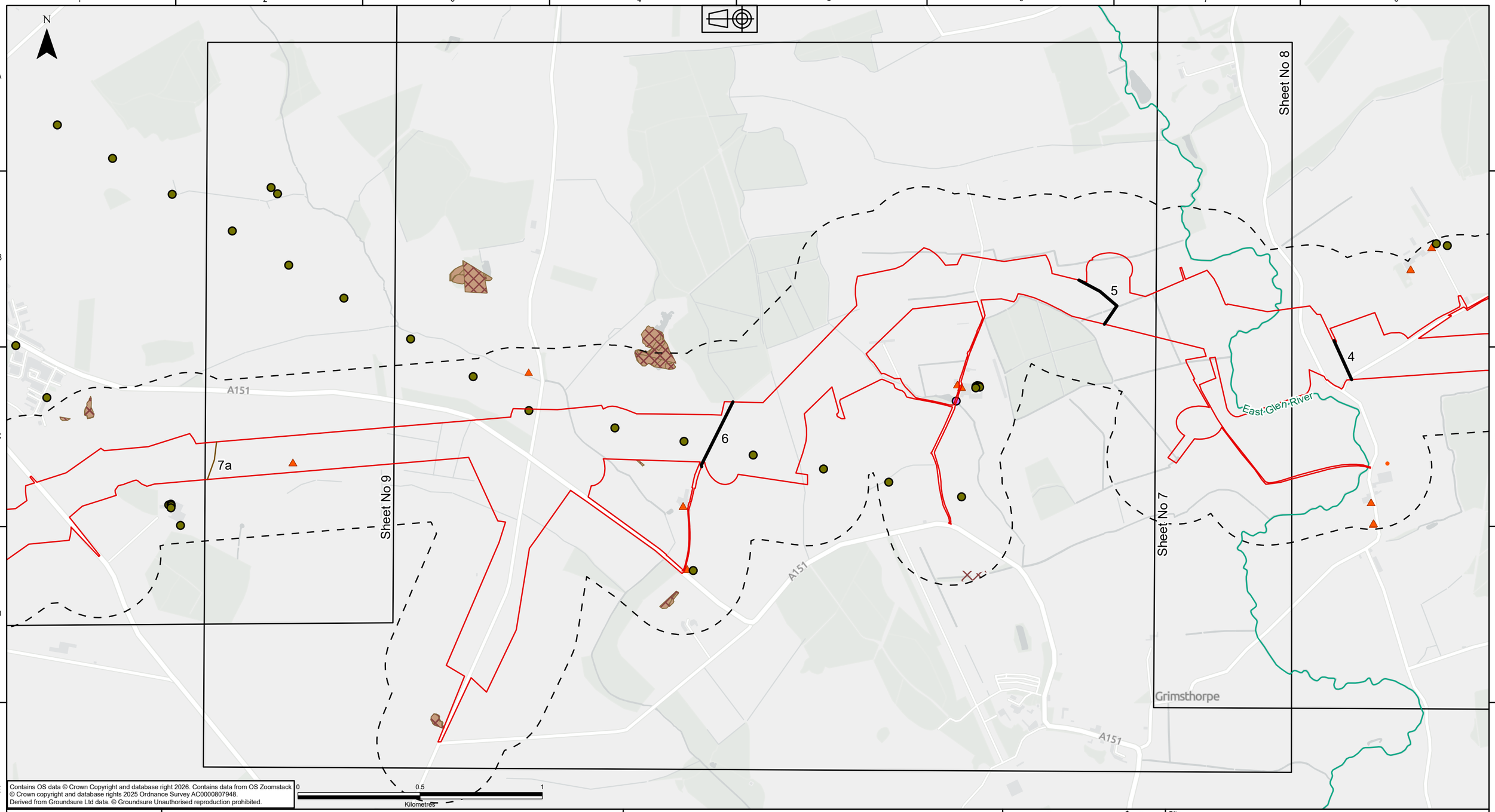

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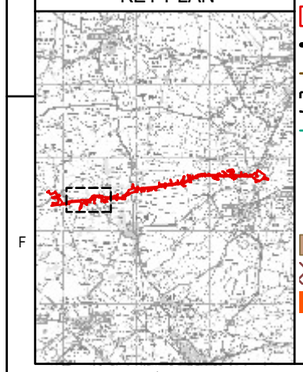

Legend

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- Route Regions
- Route Sub-regions
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Site: Weston Marsh to East Leicestershire

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Issue: A

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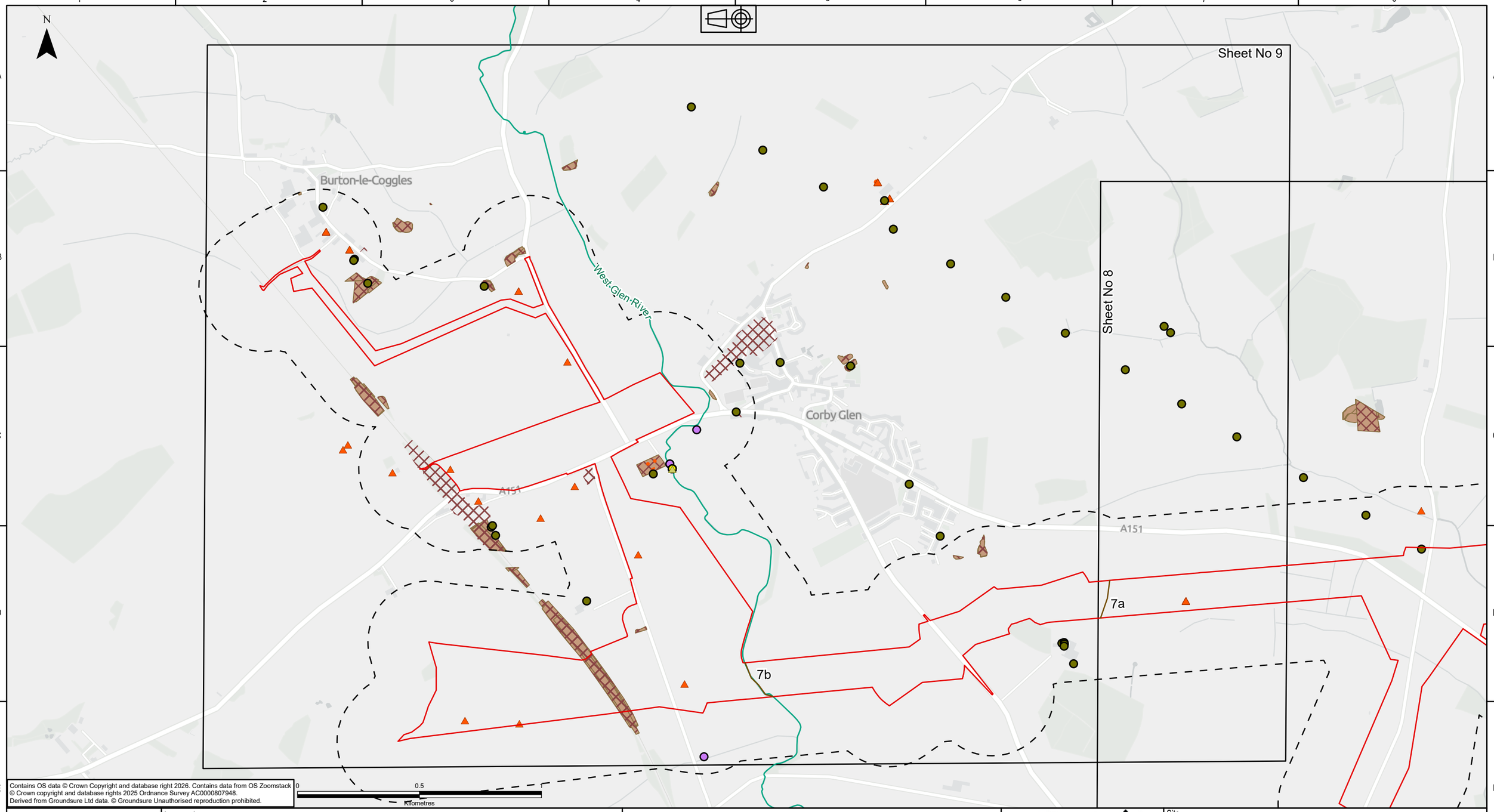

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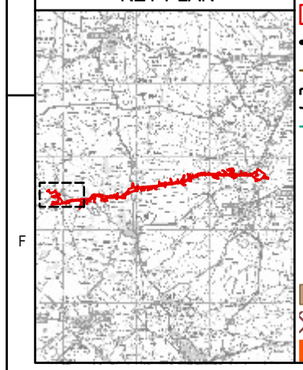

Legend

- DF2 Rev B Boundary - Overhead Line Weston Marsh to WMEL-A
- Route Regions
- Route Sub-regions
- 250m Study Area
- EA Main Rivers
- Recent Industrial Land Uses
- Landfill Waste Exemptions
- List 2 Dangerous Substances
- Discharges Controlled Waters
- Pollution Incidents
- Surface Ground Workings
- Historical Industrial Land Use
- Tanks

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P01	09/02/2026	First issue	DM	SL	JC	JC
P02	28/04/2026	Second issue	DM	SL	JC	JC
P03	23/06/2026	Third issue	LL	SL	TB	JC

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Contractor
AECOM
ARUP

Site
Weston Marsh to East Leicestershire

Title
Phase 1 Geotechnical and Geo-environmental Desktop Study: Figure 9
Licenced waste and industrial land uses and hazardous substances

Purpose of issue: For Information
Status: S3
Contractor Drawing No.: WMEL-AAJ-ZZZZ-XXXXXX-DRW-GE-000021
Revision: P03
Customer Drawing No.: N/A
Sheet 9 of 9
Issue: A

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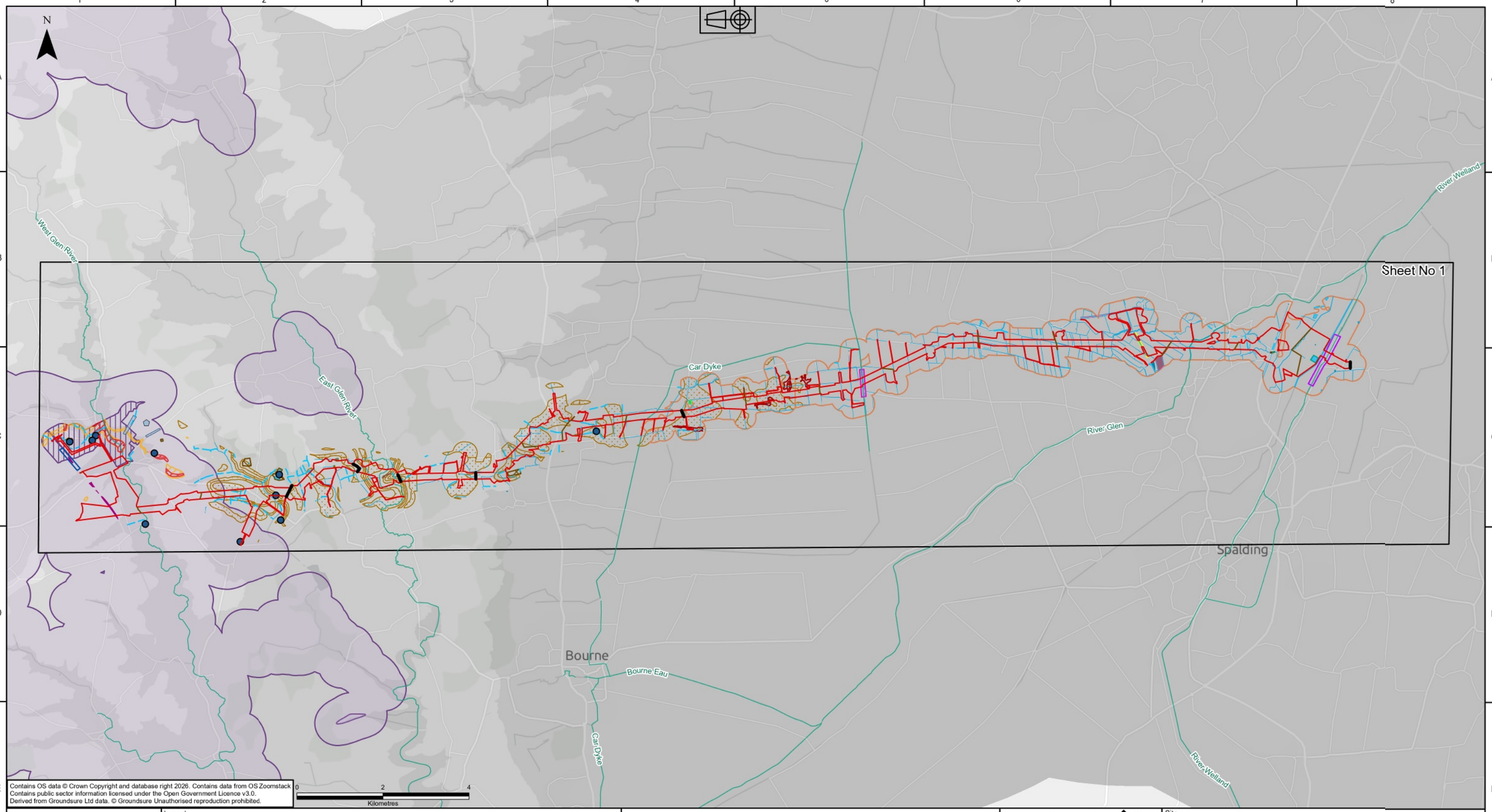

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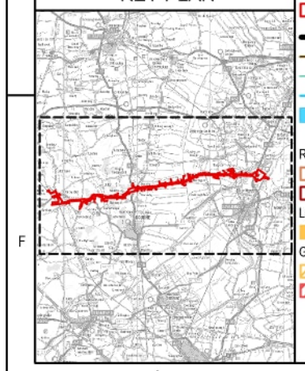

Legend

- DF2 Rev B Boundary - Overhead Line Weston Marsh to WMEL-A
- Route Regions
- Route Sub-regions
- EA Main Rivers
- OS Surface Water Features - Lines
- OS Surface Water Features - Areas
- Brit Pits

Running Sand
- Moderate
- High

Landslides
- Moderate

Ground Dissolution Soluble Rocks
- Moderate
- High

Shrink Swell Clays
- Moderate

Digital Terrain Model LiDAR (1m)
- -2 - 30
- 31 - 75
- 76 - 105
- 106 - 140

- Historical Landfill
- Historical Mineral Planning Area
- Lincolnshire Limestone Mineral Safeguarding Area

Digitised Features
- Culvert beneath A15
- ECML Embankment
- Former Buried Channel
- Historical Mineral Workings
- Moat
- Pond and vegetation overlying peat deposits
- Pond/lagoon (Infilled)
- Possible Buried Channel
- River Welland Flood Defence Embankments
- Riverbank copse of mature trees
- Sleaford to Spalding Railway Embankment
- South Forty Foot Drain Embankment
- Unspecified Heaps (Soil)

Surface Ground Workings (Use)
- Cuttings
- Pond

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Contractor
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ARUP

Site: Weston Marsh to East Leicestershire

Title: Phase 1 Geotechnical and Geo-environmental Desktop Study: Figure 10 Anticipated Geotechnical Hazards and Constraints

Purpose of issue: For Information
Status: S3
Contractor Drawing No.: WMEL-AAJ-ZZZZ-XXXXXX-DRW-GE-000022
Revision: P03
Customer Drawing No.: N/A
Sheet 1 of 9
Issue: A

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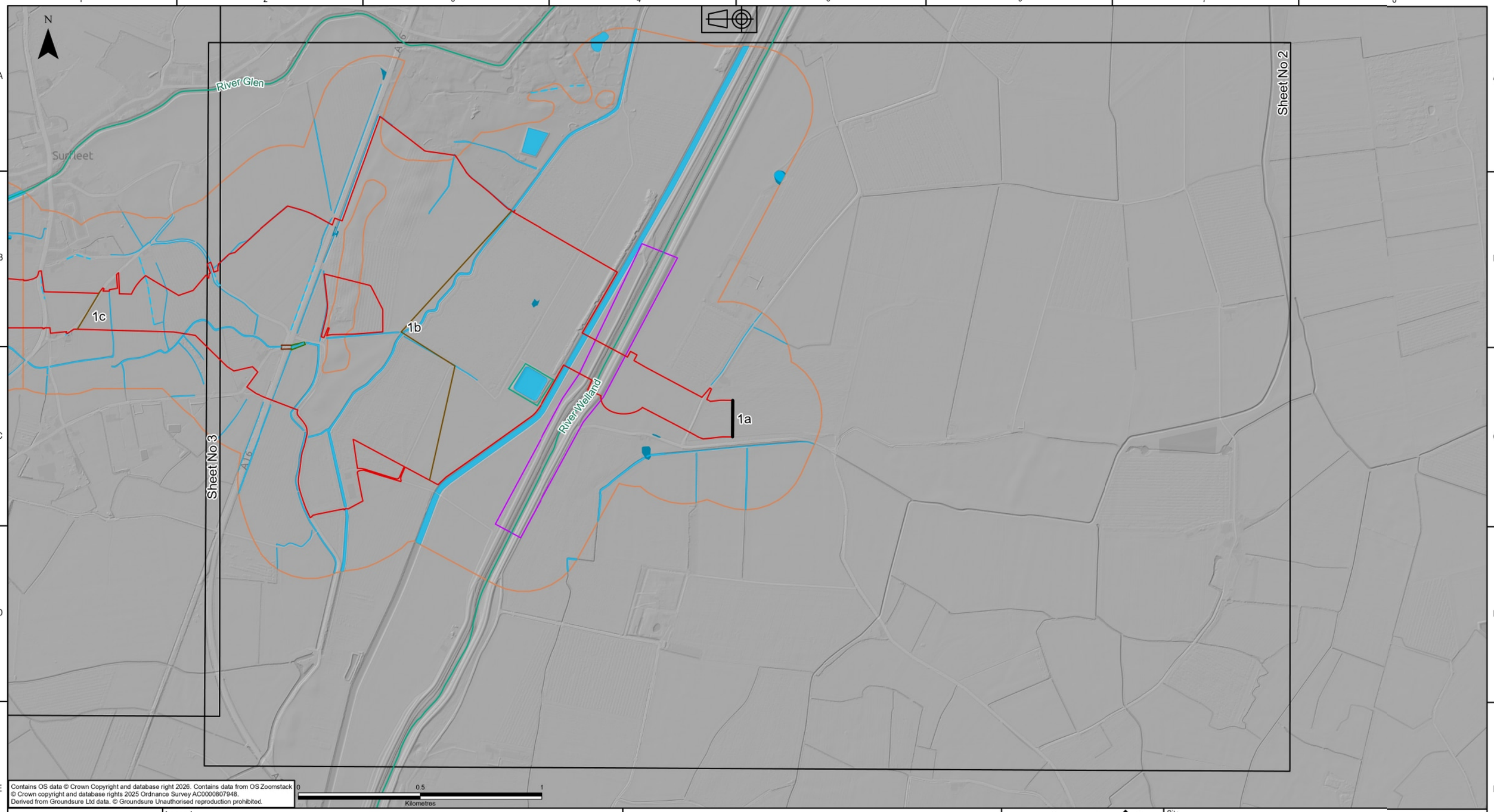

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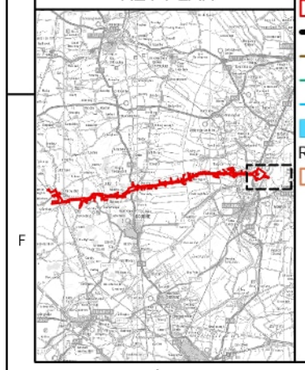

Legend

- DF2 Rev B Boundary - Overhead Line Weston Marsh to WMEL-A
- Route Regions
- Route Sub-regions
- EA Main Rivers
- OS Surface Water Features - Lines
- OS Surface Water Features - Areas

Running Sand

- Moderate

- Culvert beneath A15
- Pond/lagoon (Infilled)
- River Welland Flood Defence Embankments
- Riverbank copse of mature trees

Surface Ground Workings (Use)

- Pond

Digital Terrain Model LiDAR (1m)

- -2 - 30

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Contractor
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ARUP

Site
Weston Marsh to East Leicestershire

Title
Phase 1 Geotechnical and Geo-environmental Desktop Study: Figure 10
Anticipated Geotechnical Hazards and Constraints

Purpose of issue: For Information
Status: S3
Contractor Drawing No.: WMEL-AAJ-ZZZZ-XXXXXX-DRW-GE-000022
Revision: P03
Customer Drawing No.: N/A
Sheet 2 of 9
Issue: A

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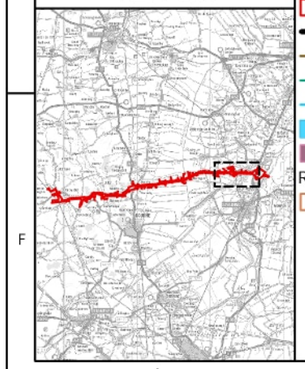

Legend

- DF2 Rev B Boundary - Overhead Line Weston Marsh to WMEL-A
- Route Regions
- Route Sub-regions
- EA Main Rivers
- OS Surface Water Features - Lines
- OS Surface Water Features - Areas
- Historical Landfill

Running Sand

- Moderate
- Culvert beneath A15
- Riverbank copse of mature trees
- Sleaford to Spalding Railway Embankment

Surface Ground Workings (Use)

- Pond

Digital Terrain Model LiDAR (1m)

- -2 - 30

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Site
Weston Marsh to East Leicestershire

Title
Phase 1 Geotechnical and Geo-environmental Desktop Study: Figure 10
Anticipated Geotechnical Hazards and Constraints

Purpose of issue: For Information
Status: S3
Contractor Drawing No.: WMEL-AAJ-ZZZZ-XXXXXX-DRW-GE-000022
Revision: P03
Customer Drawing No.: N/A
Sheet 3 of 9
Issue: A

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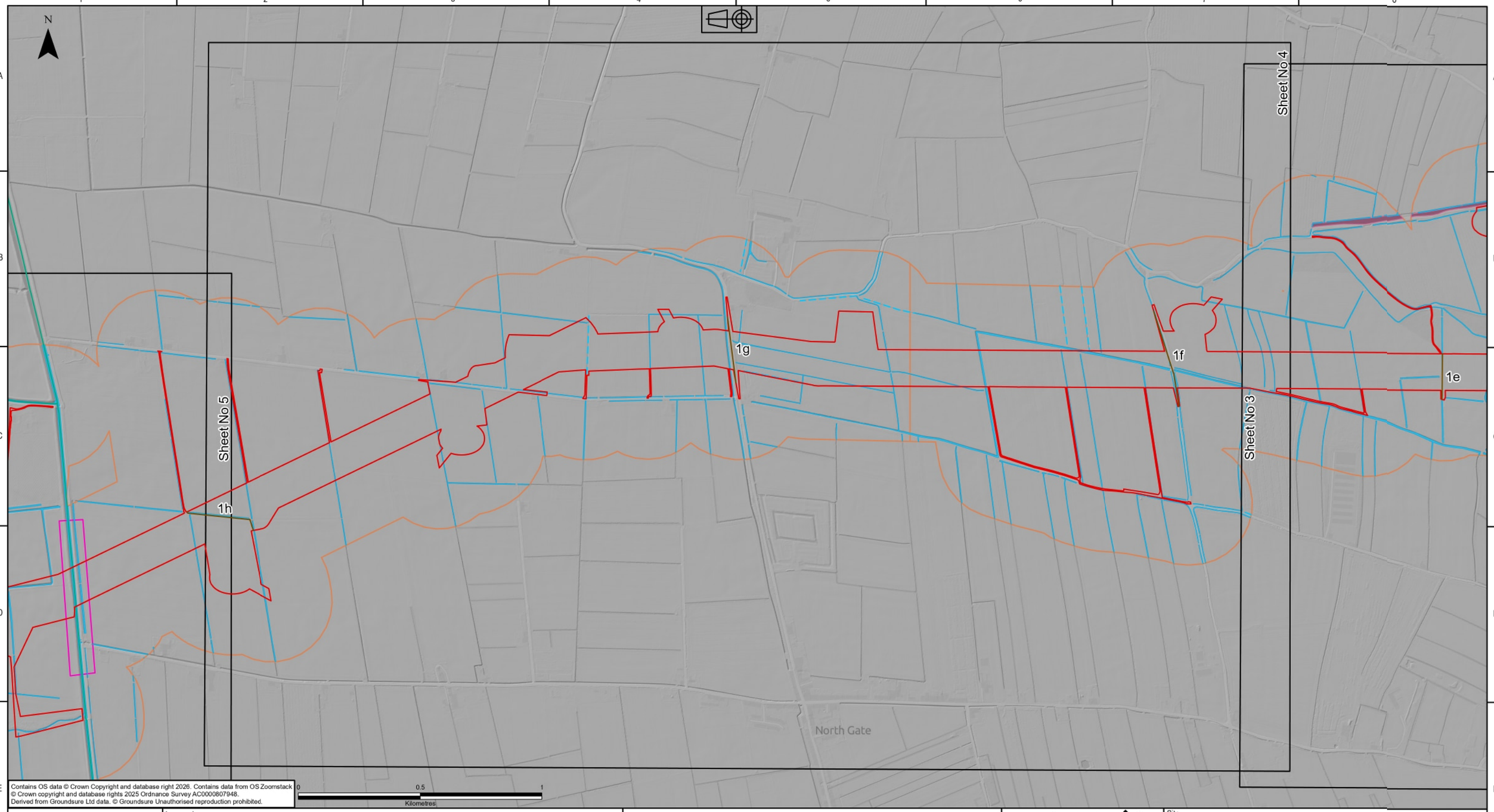

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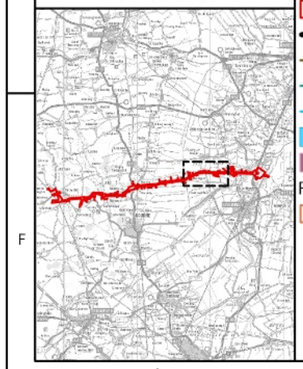

Legend

- DF2 Rev B Boundary - Overhead Line Weston Marsh to WMEL-A
- Route Regions
- Route Sub-regions
- EA Main Rivers
- OS Surface Water Features - Lines
- OS Surface Water Features - Areas
- Historical Landfill

Running Sand

- Moderate
- South Forty Foot Drain Embankment

Digital Terrain Model LiDAR (1m)

- -2 - 30

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Site
Weston Marsh to East Leicestershire

Title
Phase 1 Geotechnical and Geo-environmental Desktop Study: Figure 10
Anticipated Geotechnical Hazards and Constraints

Purpose of issue: For Information
Status: S3
Contractor Drawing No.: WMEL-AAJ-ZZZZ-XXXXXX-DRW-GE-000022
Revision: P03
Customer Drawing No.: N/A
Sheet 4 of 9
Issue: A

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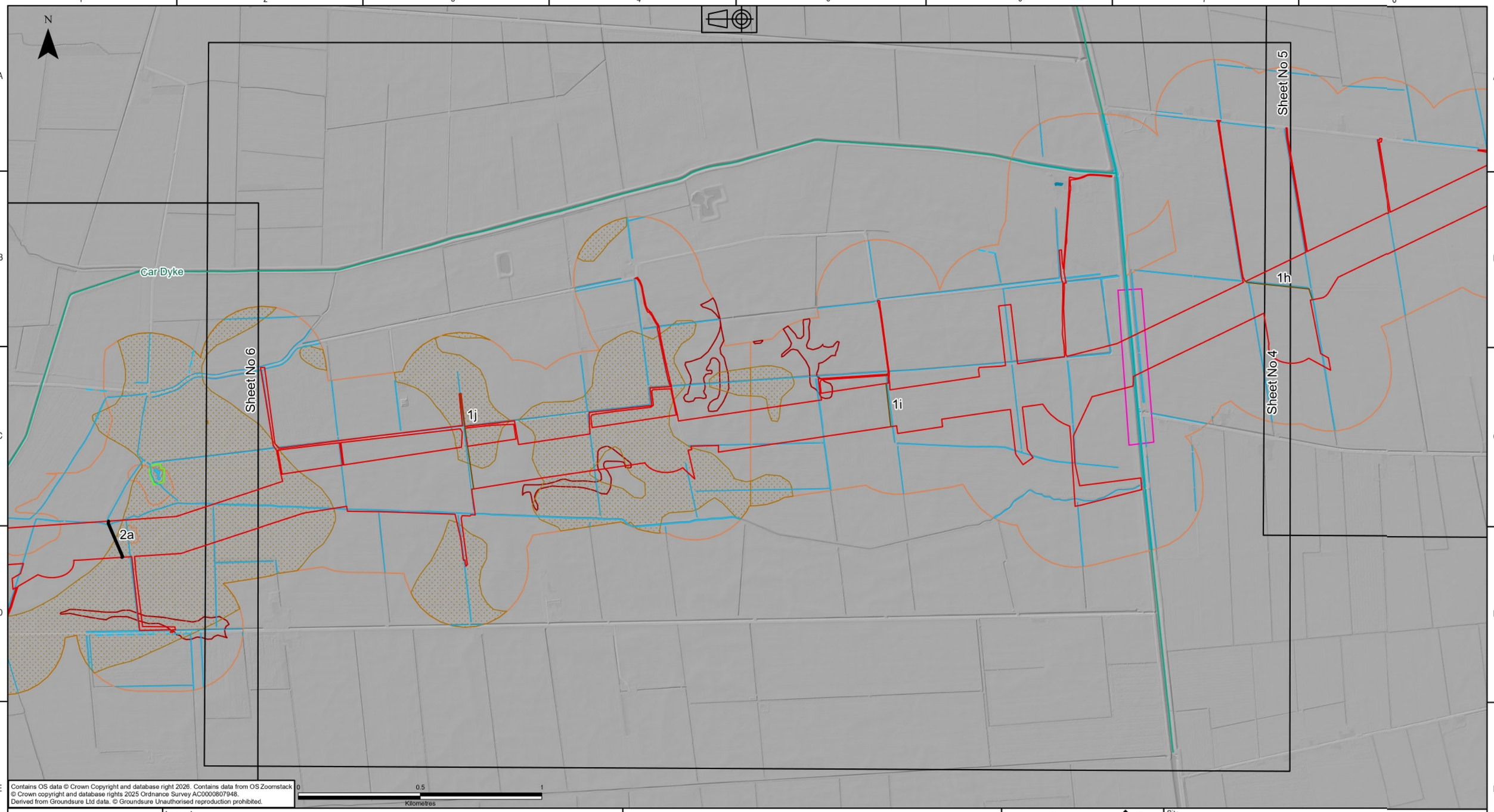

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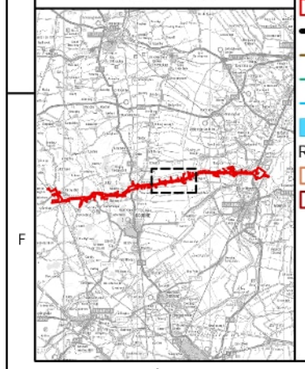

Legend

- DF2 Rev B Boundary - Overhead Line Weston Marsh to WMEL-A
- Route Regions
- Route Sub-regions
- EA Main Rivers
- OS Surface Water Features - Lines
- OS Surface Water Features - Areas

Running Sand

- Moderate
- High

- Pond and vegetation overlying peat deposits
- South Forty Foot Drain Embankment

Shrink Swell Clays

- Moderate

Surface Ground Workings (Use)

- Pond

Digital Terrain Model LiDAR (1m)

- -2 - 30

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Site
Weston Marsh to East Leicestershire

Title
Phase 1 Geotechnical and Geo-environmental Desktop Study: Figure 10
Anticipated Geotechnical Hazards and Constraints

Purpose of issue: For Information
Status: S3
Contractor Drawing No.: WMEL-AAJ-ZZZZ-XXXXXX-DRW-GE-000022
Revision: P03
Customer Drawing No.: N/A
Sheet 5 of 9
Issue: A

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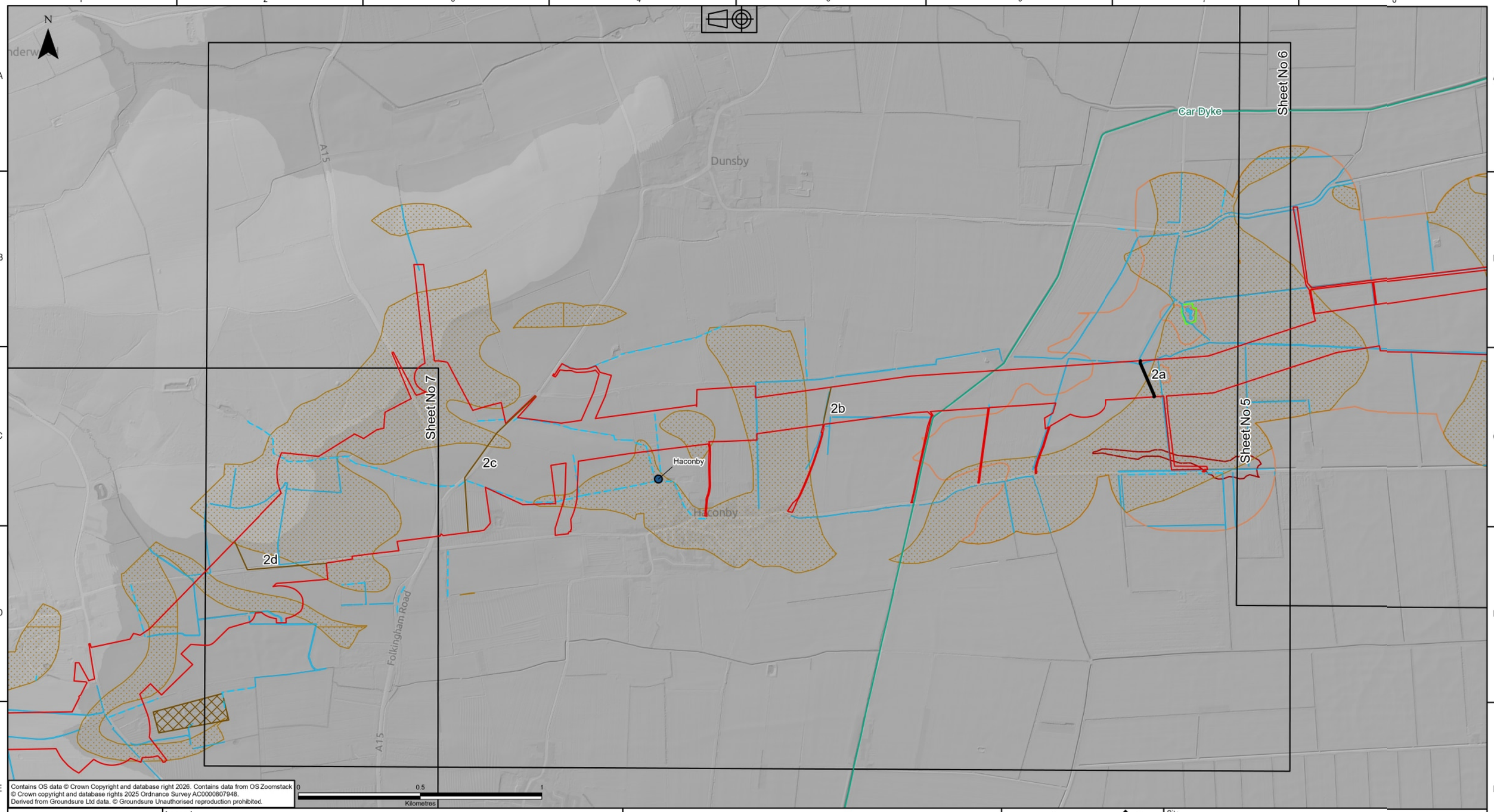

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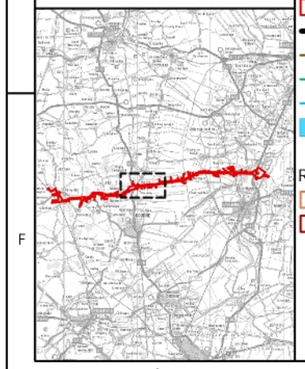

Legend

- DF2 Rev B Boundary - Overhead Line Weston Marsh to WMEL-A
- Route Regions
- Route Sub-regions
- EA Main Rivers
- OS Surface Water Features - Lines
- OS Surface Water Features - Areas
- Brit Pits

Running Sand

- Moderate
- High

- Historical Mineral Workings
- Pond and vegetation overlying peat deposits

Shrink Swell Clays

- Moderate

Digital Terrain Model LiDAR (1m)

- -2 - 30
- 31 - 75

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Site
Weston Marsh to East Leicestershire

Title
Phase 1 Geotechnical and Geo-environmental Desktop Study:
Figure 10
Anticipated Geotechnical Hazards and Constraints

Purpose of issue: For Information
Status: S3
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Revision: P03
Customer Drawing No.: N/A
Sheet 6 of 9
Issue: A

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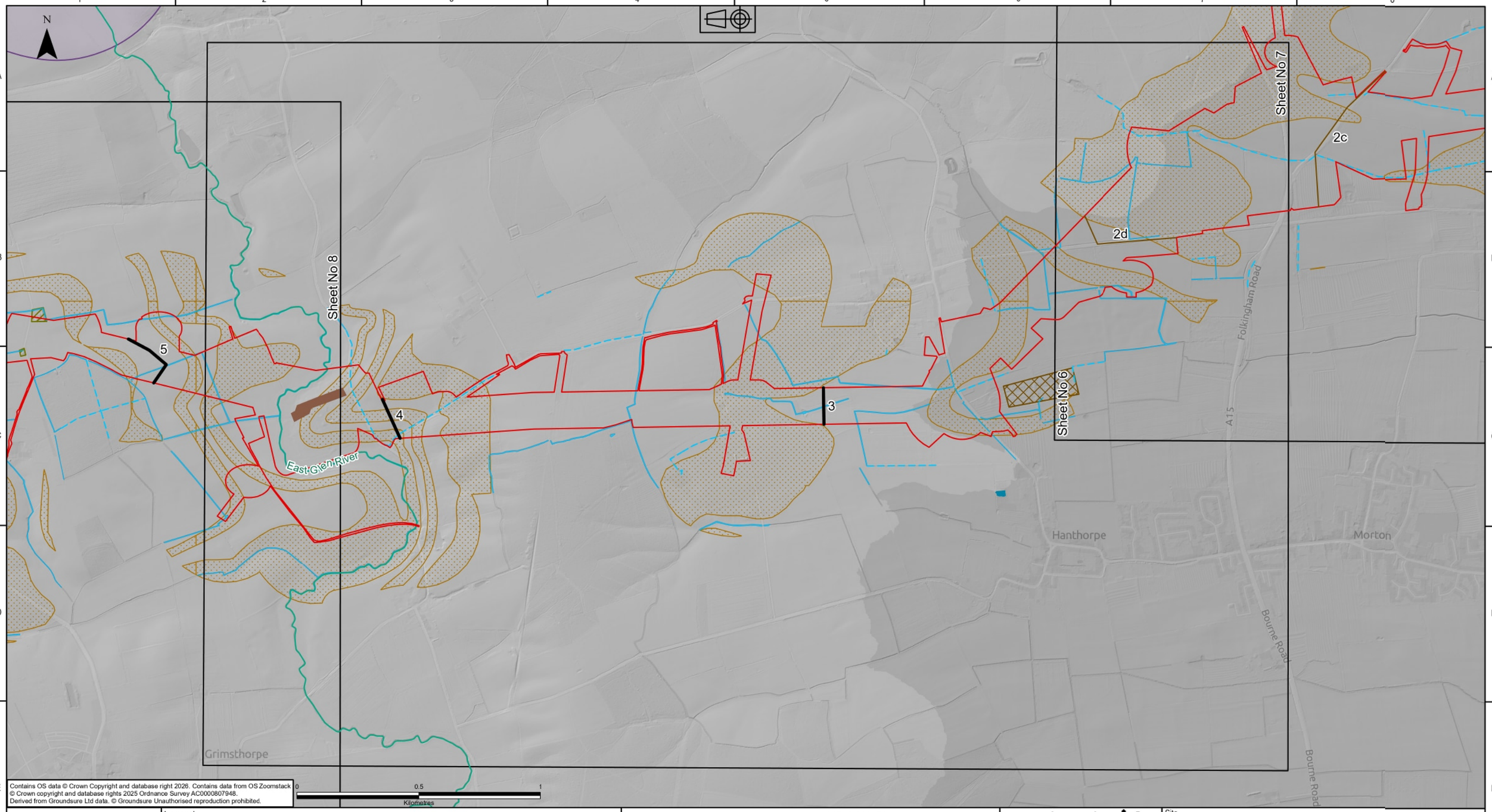

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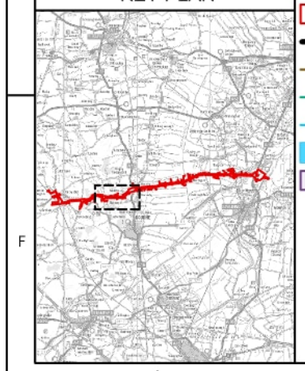

Legend

- DF2 Rev B Boundary - Overhead Line Weston Marsh to WMEL-A
- Route Regions
- Route Sub-regions
- EA Main Rivers
- OS Surface Water Features - Lines
- OS Surface Water Features - Areas
- Lincolnshire Limestone Mineral Safeguarding Area
- Former Buried Channel
- Historical Mineral Workings
- Unspecified Heaps (Soil)

Shrink Swell Clays

- Moderate

Surface Ground Workings (Use)

- Pond

Digital Terrain Model LiDAR (1m)

- -2 - 30
- 31 - 75
- 76 - 105

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P03	26/06/2026	Third issue	LL	SL	TB	JC

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Site
Weston Marsh to East Leicestershire

Title
Phase 1 Geotechnical and Geo-environmental Desktop Study:
Figure 10
Anticipated Geotechnical Hazards and Constraints

Purpose of issue: For Information
Status: S3
Contractor Drawing No.: WMEL-AAJ-ZZZZ-XXXXXX-DRW-GE-000022
Revision: P03
Customer Drawing No.: N/A
Sheet 7 of 9
Issue: A

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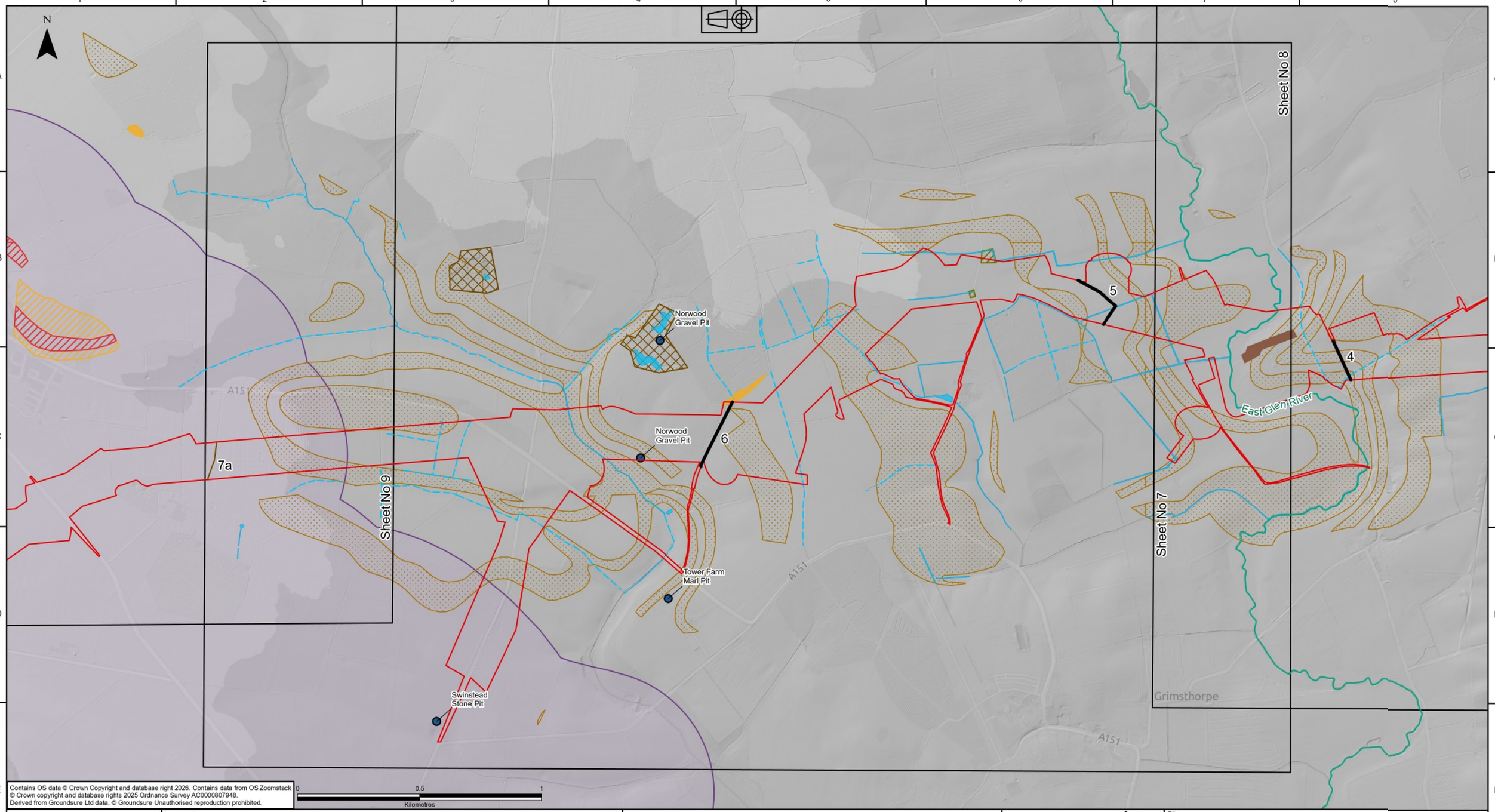

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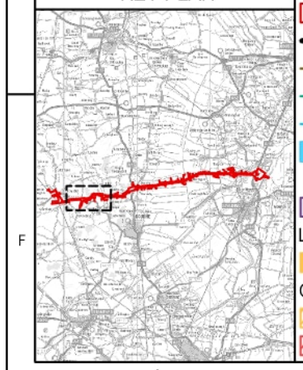

Legend

- DF2 Rev B Boundary - Overhead Line Weston Marsh to WMEL-A
- Route Regions
- Route Sub-regions
- EA Main Rivers
- OS Surface Water Features - Lines
- OS Surface Water Features - Areas
- Brit Pits
- Lincolnshire Limestone Mineral Safeguarding Area

Landslides
- Moderate

Ground Dissolution Soluble Rocks
- Moderate
- High

- Former Buried Channel
- Historical Mineral Workings
- Unspecified Heaps (Soil)

Shrink Swell Clays
- Moderate

Digital Terrain Model LiDAR (1m)
- 31 - 75
- 76 - 105

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Contractor
AECOM
ARUP

Site
Weston Marsh to East Leicestershire

Title
Phase 1 Geotechnical and Geo-environmental Desktop Study: Figure 10
Anticipated Geotechnical Hazards and Constraints

Purpose of issue: For Information
Status: S3
Contractor Drawing No.: WMEL-AAJ-ZZZZ-XXXXXX-DRW-GE-000022
Revision: P03
Customer Drawing No.: N/A
Sheet 8 of 9
Issue: A

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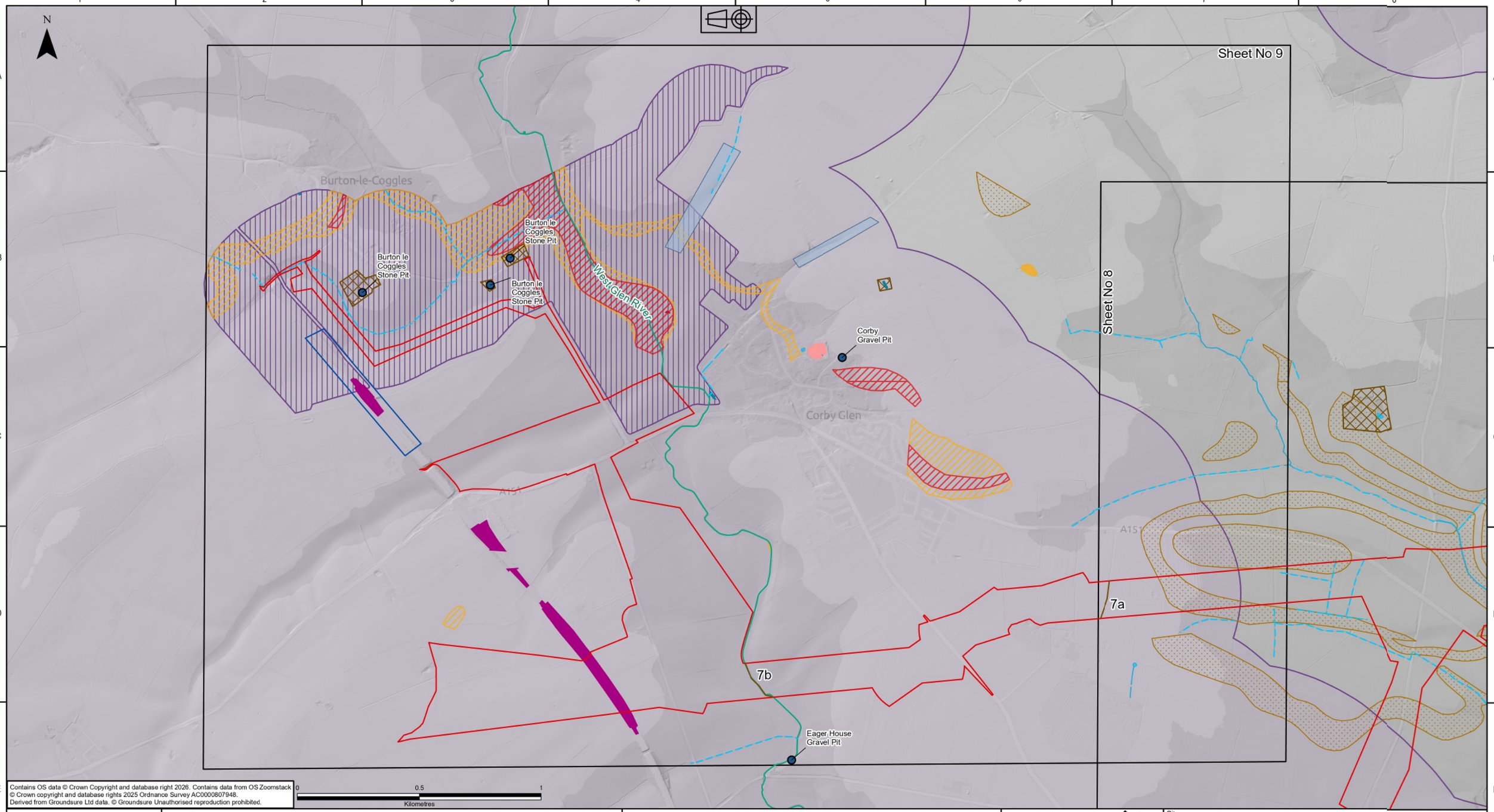

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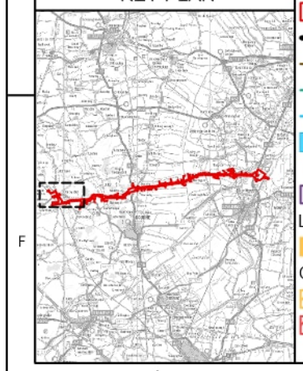

Legend

- DF2 Rev B Boundary - Overhead Line Weston Marsh to WMEL-A
- Route Regions
- Route Sub-regions
- EA Main Rivers
- OS Surface Water Features - Lines
- OS Surface Water Features - Areas
- Brit Pits
- Lincolnshire Limestone Mineral Safeguarding Area

Landslides
- Moderate

Ground Dissolution Soluble Rocks
- Moderate
- High

- Historical Mineral Planning Area
- ECML Embankment
- Historical Mineral Workings
- Moat
- Possible Buried Channel

Shrink Swell Clays
- Moderate

Surface Ground Workings (Use)
- Cuttings
- Pond

Digital Terrain Model LiDAR (1m)
- 31 - 75
- 76 - 105
- 106 - 140

NATIONAL GRID INVESTMENT NUMBER: 101746-203470

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Rev.	Date	Comment	Drw by	Check	Rev by	Appr.
P01	09/02/2026	First issue	DM	SL	JC	JC
P02	28/04/2026	Second issue	DM	SL	JC	JC
P03	26/06/2026	Third issue	LL	SL	TB	JC

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Contractor
AECOM
ARUP

Site
Weston Marsh to East Leicestershire

Title
Phase 1 Geotechnical and Geo-environmental Desktop Study: Figure 10
Anticipated Geotechnical Hazards and Constraints

Purpose of issue: For Information
Status: S3
Contractor Drawing No.: WMEL-AAJ-ZZZZ-XXXXXX-DRW-GE-000022
Revision: P03
Customer Drawing No.: N/A
Sheet 9 of 9
Issue: A

Drawn	Checked	Reviewed	Approved	Date	Scale	Size
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National Grid plc
National Grid House,
Warwick Technology Park,
Gallows Hill, Warwick.
CV34 6DA United Kingdom

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