


Name and Address of Operator
 Thorpe Marsh Green Energy Hub Limited
 20 St. James's Street, 7th Floor, London,
 England, SW1A 1ES

	Figure Title Site Location	Project Name Thorpe Marsh Landfill (EPR/CP3091SC/V002)	Date May 2024	
	Client Thorpe Marsh Green Energy Hub Limited	Project No./Filey ID 1620016237 / REH2023N03018	Prepared By PH	Figure No. 1
			Scale As Shown	Revision 1.0



Legend

- Planning Boundary
- Environmental Permit Boundary
- New PFA Cell Boundary

Name and Address of Operator

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 20 St. James's Street, 7th Floor, London,
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Figure Title

Site Layout

Project Name
Thorpe Marsh Landfill
 (EPR/CP3091SC/V002)

Project No./Filey ID
 1620016237 / REH2023N03018

Date	Figure No.	Revision
May 2024	2	1.0

Prepared By PH	Scale 1:10,000 @A4
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Client
**Thorpe Marsh Green
 Energy Hub Limited**






Legend

- Environmental Permit Boundary
- Surveied Contour (m AOD)

Surface Elevation (m AOD)

26

-2

Name and Address of Operator		
Thorpe Marsh Green Energy Hub Limited 20 St. James's Street, 7th Floor, London, England, SW1A 1ES		
Figure Title		
Ground Elevation		
Project Name		
Thorpe Marsh Landfill (EPR/CP3091SC/V002)		
Project No./Filey ID		
1620016237 / REH2023N03018		
Date	Figure No.	Revision
May 2024	3	1.0
Prepared By	Scale	
PH	1:5,000 @A3	
Client	Thorpe Marsh Green Energy Hub Limited	
		

1620016237-RAM-MA-SS-000003_Fig3Topography_01.pagx



Legend

- Environmental Permit Boundary
- Borehole
- Trial Pit

Name and Address of Operator
 Thorpe Marsh Green Energy Hub Limited
 20 St. James's Street, 7th Floor, London,
 England, SW1A 1ES

Figure Title
**2024 Ground Investigation
 Locations**

Project Name
**Thorpe Marsh Landfill
 (EPR/CP3091SC/V002)**

Project No./Filey ID
 1620016237 / REH2023N03018

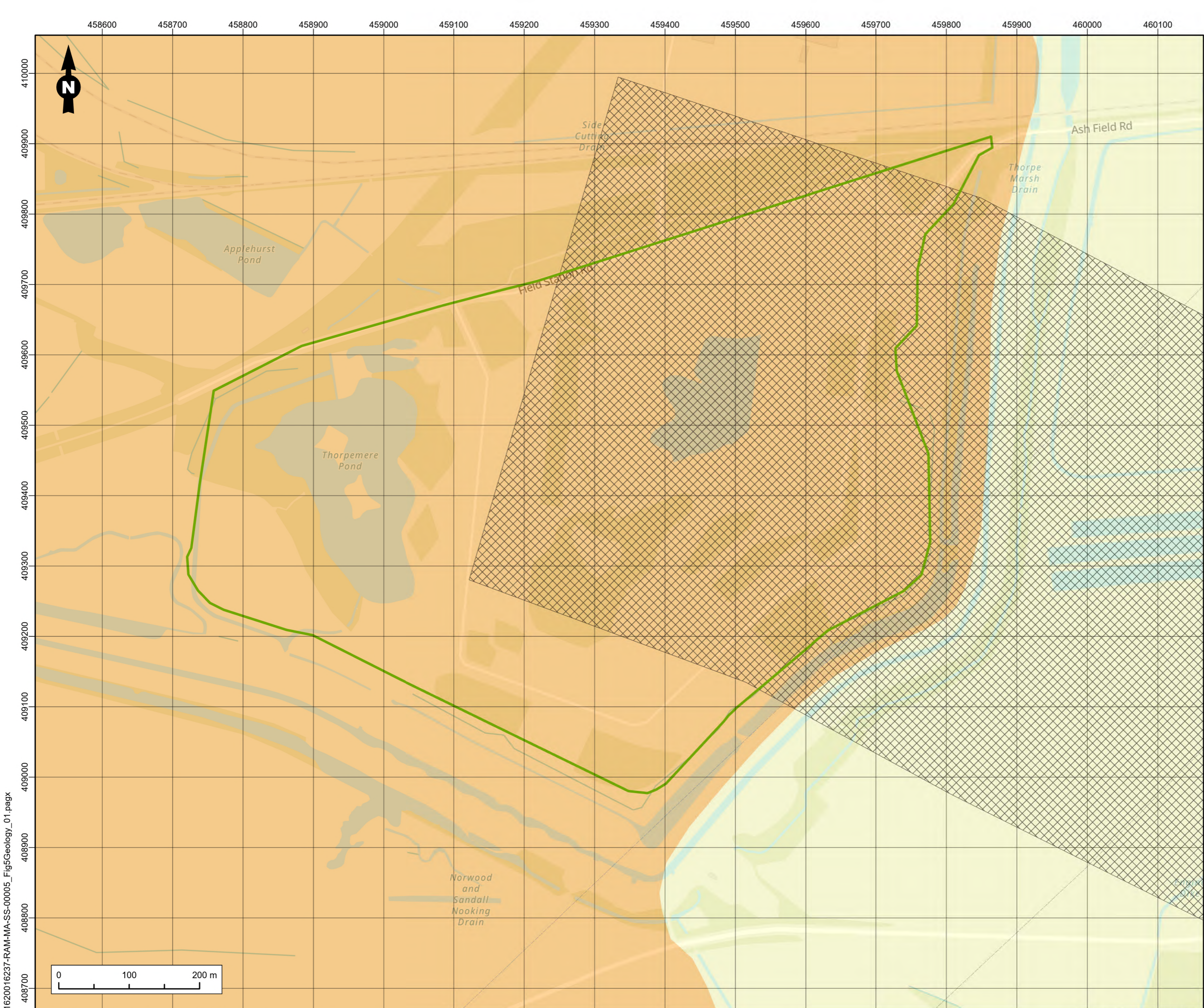
Date	Figure No.	Revision
May 2024	4	1.0

Prepared By	Scale
PH	1:4,000 @A3

Client **Thorpe Marsh Green
 Energy Hub Limited**



1620016237-RAM-MA-SS-00004_Fig4_2024_Location_01.pagx



Legend

- Waste Management License Boundary

Geology

- Bedrock - Chester Formation - Sandstone - Overlain by Superficial - Alluvium - Clay, silt, sand and gravel
- Bedrock - Chester Formation - Sandstone - Overlain by Superficial - Hemingbrough Glaciolacustrine Formation - Clay, silty
- Buried Valley Historic Margin
- Fault, Inferred

Name and Address of Operator

Thorpe Marsh Green Energy Hub Limited
20 St. James's Street, 7th Floor, London, England, SW1A 1ES

Figure Title

Site Geology Plan

Project Name

Thorpe Marsh Landfill (EPR/CP3091SC/V002)

Project No./Filey ID

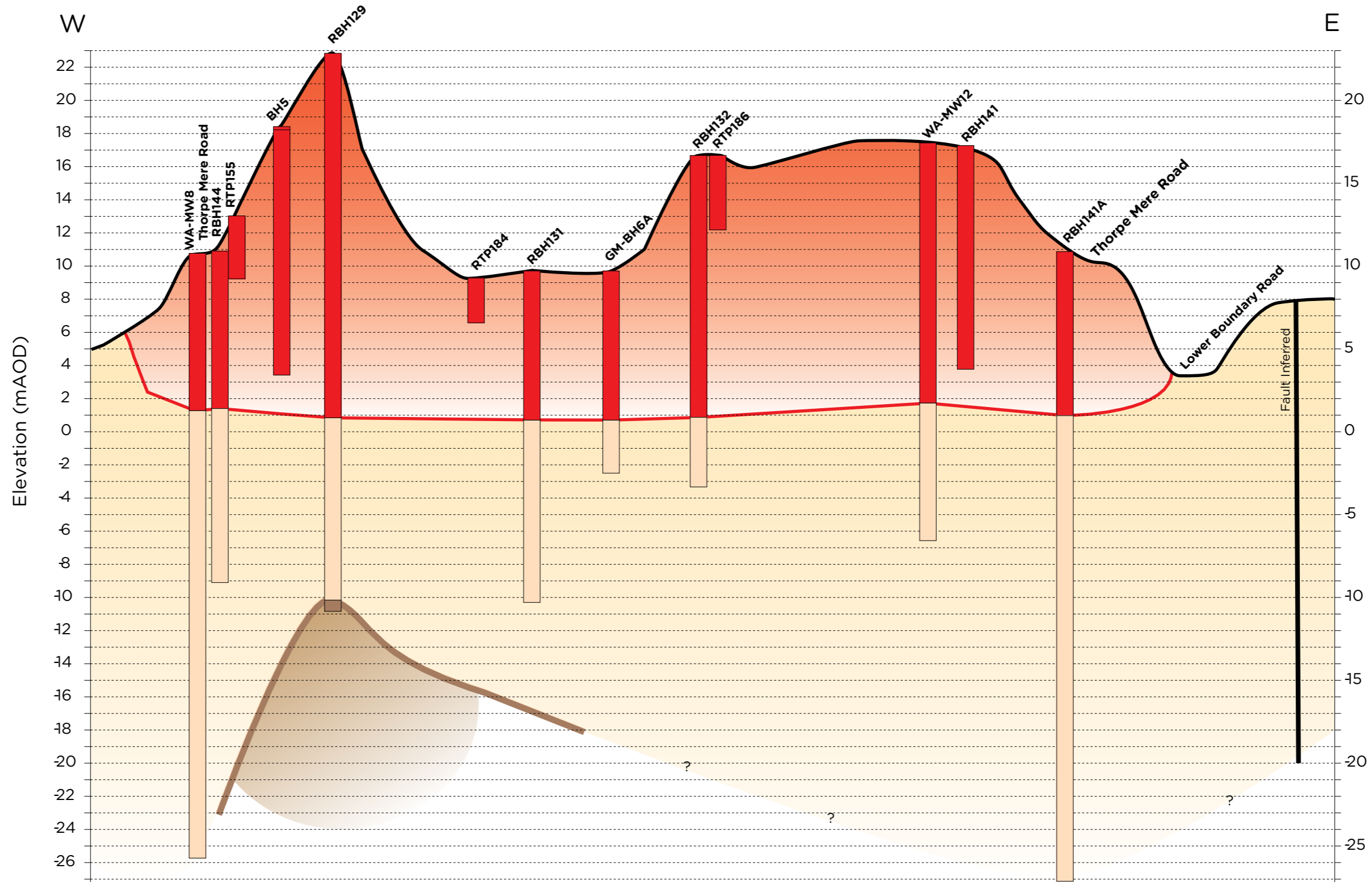
1620016237 / REH2023N03018

Date	Figure No.	Revision
May 2024	5	1.0

Prepared By	Scale
PH	1:5,000 @A3

Client **Thorpe Marsh Green Energy Hub Limited**

1620016237-RAM-MA-SS-00005_Fig5Geology_01.pagx



Chainage (m)	0.00	58.66	73.45	84.57	14.18	147.92	242.30	279.08	331.28	388.94	401.65	540.15	564.97	630.47	781.71
Elevation (mAOD)		10.77	10.90	13.03	18.42	22.84	9.27	9.70	9.70	16.67	16.68	17.43	17.27	10.87	

Legend

- Pulverised Fuel Ash (PFA)
- River Terrace Deposits (RTD)
- Sandstone

Name and Address of Operator
Thorpe Marsh Green Energy Hub Limited
20 St. James's Street, 7th Floor, London,
England,
SW1A 1ES

Figure Title
Geological Cross Section West-East

Project Name
 Thorpe Marsh Landfill (EPR/CP3091SC/V002)

Project No./Filey ID.
 1620016237-012

Date
 May 2024

Scale
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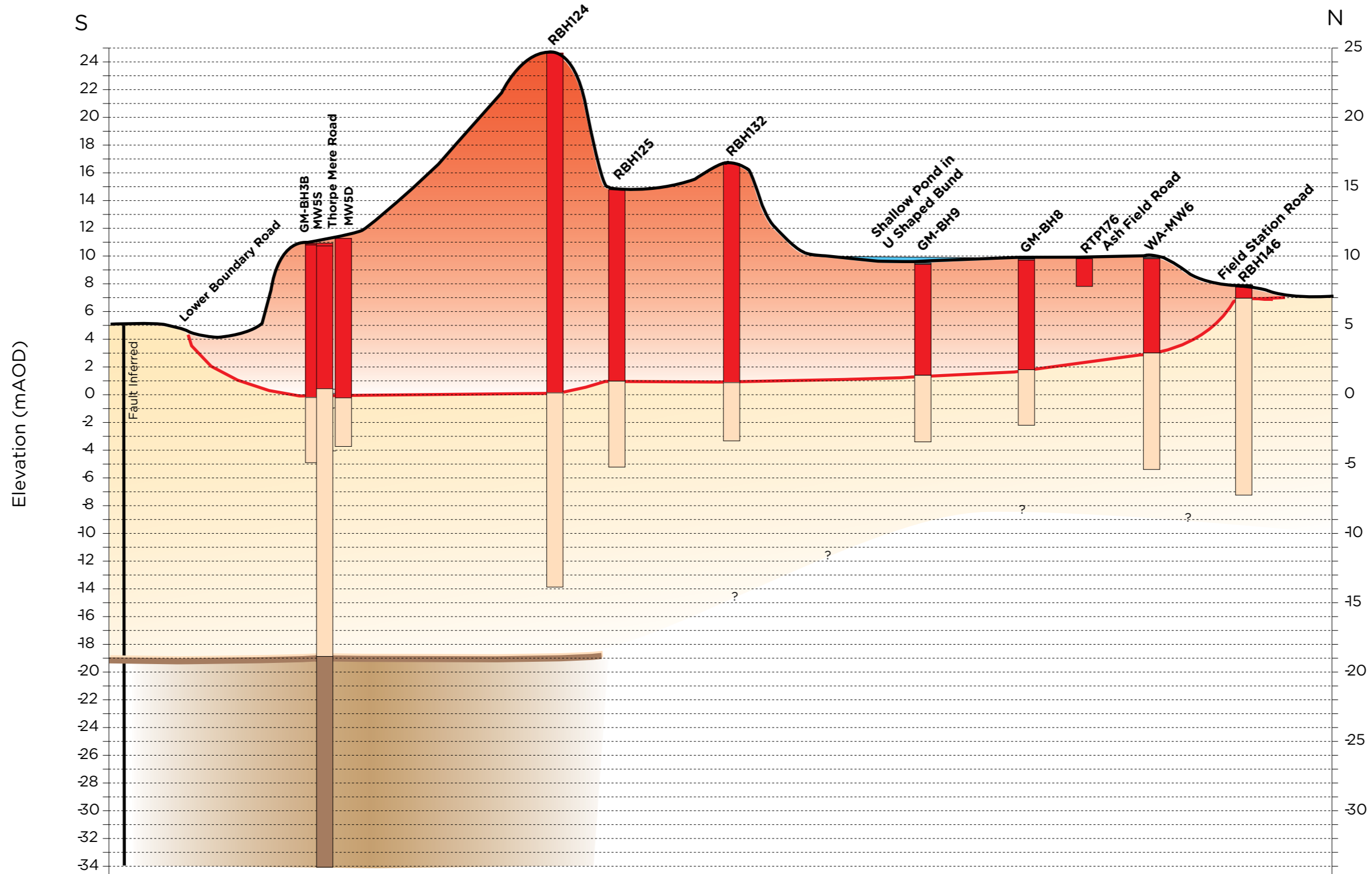
Figure No.
 6a

Issue
 01

Prepared by
 PH /SR

Client
Thorpe Marsh Green Energy Hub LTD





Chainage (m)	0.00	154.55	163.70	179.13	353.89	405.16	499.94	658.00	743.58	791.47	847.02	923.16
Elevation (mAOD)		10.90	10.93	11.27	24.63	14.78	16.67	9.50	9.80	9.81	9.91	7.76

- Legend**
- Pulverised Fuel Ash (PFA)
 - River Terrace Deposits (RTD)
 - Sandstone

Name and Address of Operator
Thorpe Marsh Green Energy Hub Limited
20 St. James's Street, 7th Floor, London,
England,
SW1A 1ES

Figure Title
 Geological Cross Section North-South

Project Name
 Thorpe Marsh Landfill (EPR/CP3091SC/V002)

Project No./Filey ID.
 1620016237-012

Date
 May 2024

Scale
 Not to Scale

Figure No.
 6b

Issue
 01

Prepared by
 PH /SR

Client
Thorpe Marsh Green Energy Hub LTD

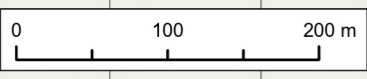




Legend

- Environmental Permit Boundary
- PFA Thickness (m)

Name and Address of Operator		
Thorpe Marsh Green Energy Hub Limited 20 St. James's Street, 7th Floor, London, England, SW1A 1ES		
Figure Title		
Estimated Thickness of PFA Material (m)		
Project Name		
Thorpe Marsh Landfill (EPR/CP3091SC/V002)		
Project No./Filey ID		
1620016237 / REH2023N03018		
Date	Figure No.	Revision
May 2024	7	1.0
Prepared By	Scale	
PH	1:5,000 @A3	
Client	Thorpe Marsh Green Energy Hub Limited	



1620016237-RAM-MA-SS-000008_Fig7PFAThickness_01.png



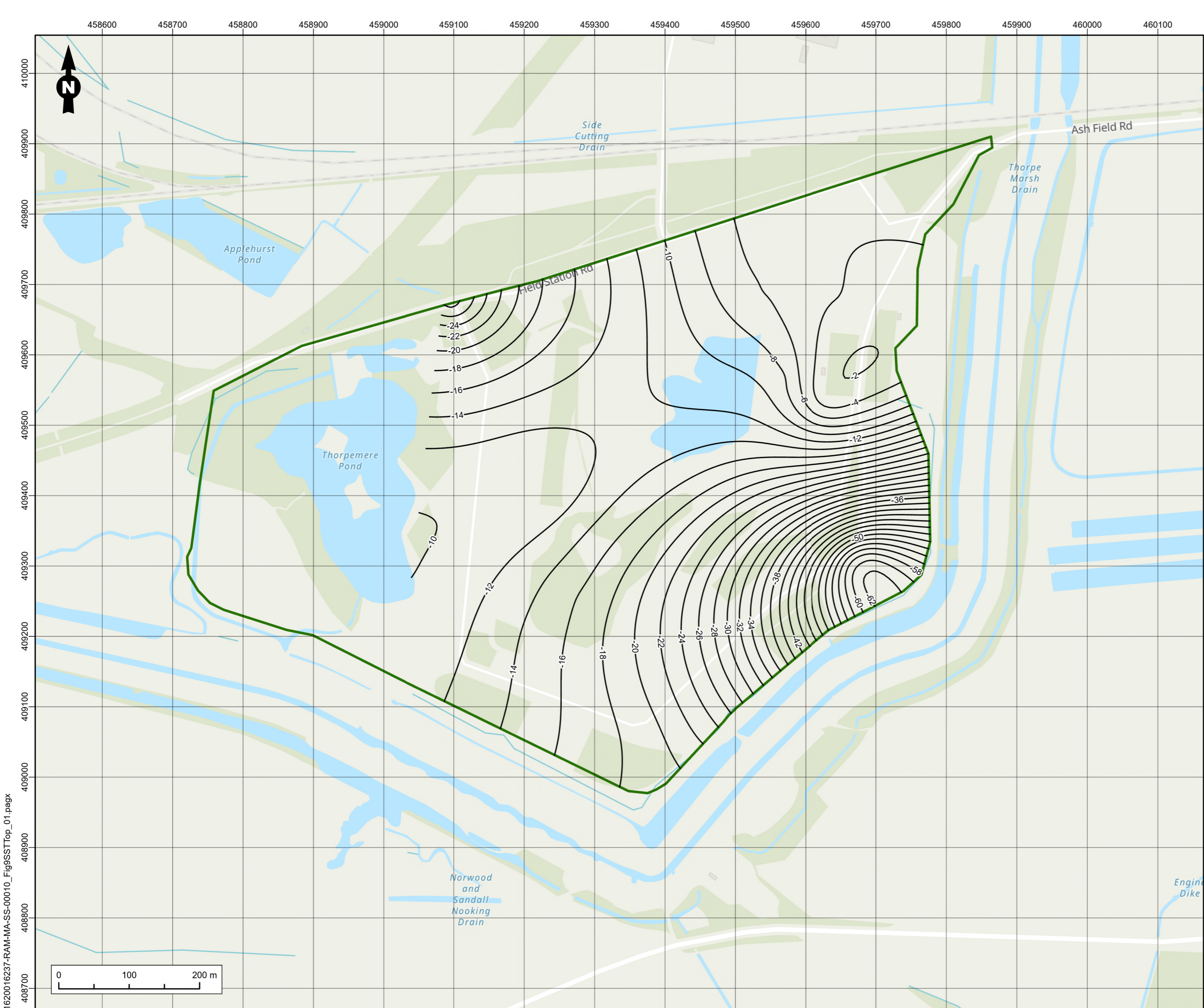
Legend

- Environmental Permit Boundary
- Drift Deposit Surface Elevation (m AOD)

Name and Address of Operator		
Thorpe Marsh Green Energy Hub Limited 20 St. James's Street, 7th Floor, London, England, SW1A 1ES		
Figure Title		
Estimated Surface of Superficial Drift Deposits (m AOD)		
Project Name		
Thorpe Marsh Landfill (EPR/CP3091SC/V002)		
Project No./Filey ID		
1620016237 / REH2023N03018		
Date	Figure No.	Revision
May 2024	8	1.0
Prepared By	Scale	
PH	1:5,000 @A3	
Client	Thorpe Marsh Green Energy Hub Limited	



1620016237-RAM-MA-SS-00009_Fig8DriftTop_01.pagx



Legend

- Environmental Permit Boundary
- Sandstone Top Elevation (m AOD)

Name and Address of Operator

Thorpe Marsh Green Energy Hub Limited
 20 St. James's Street, 7th Floor, London,
 England, SW1A 1ES

Figure Title

Estimated Surface of Sandstone (m AOD)

Project Name

Thorpe Marsh Landfill (EPR/CP3091SC/V002)

Project No./Filey ID

1620016237 / REH2023N03018

Date	Figure No.	Revision
May 2024	9	1.0

Prepared By	Scale
PH	1:5,000 @A3

Client

Thorpe Marsh Green Energy Hub Limited

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1620016237-RAM-MA-SS-00010_Fig9SSTTop_01.pagx



Legend

- Environmental Permit Boundary
- Planning Boundary

Indicative Waste Locations

- Asbestos Waste (anecdotal)
- PFA with 'Waste' Inclusions
- Waste Type 2 - Untreated
- Domestic / Commercial Waste

Name and Address of Operator
 Thorpe Marsh Green Energy Hub Limited
 20 St. James's Street, 7th Floor, London,
 England, SW1A 1ES

Figure Title
Indicative Waste Locations

Project Name
**Thorpe Marsh Landfill
 (EPR/CP3091SC/V002)**

Project No./Filey ID
 1620016237 / REH2023N03018

Date	Figure No.	Revision
May 2024	10	1.0

Prepared By	Scale
PH	1:5,000 @A3

Client **Thorpe Marsh Green Energy Hub Limited**



1620016237-RAM-MA-SS-00011_Fig10WasteExtents_01.pagx



Legend

- Waste Management License Boundary

Monitoring Location

- Borehole with Install (Drift)
- Borehole with Install (PFA)
- Borehole with Install (Sandstone)
- Surface water
- Surface water (discharge consent monitoring location)

Name and Address of Operator
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 England, SW1A 1ES

Figure Title
Monitoring Locations

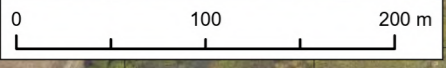
Project Name
**Thorpe Marsh Landfill
 (EPR/CP3091SC/V002)**

Project No./Filey ID
 1620016237 / REH2023N03018

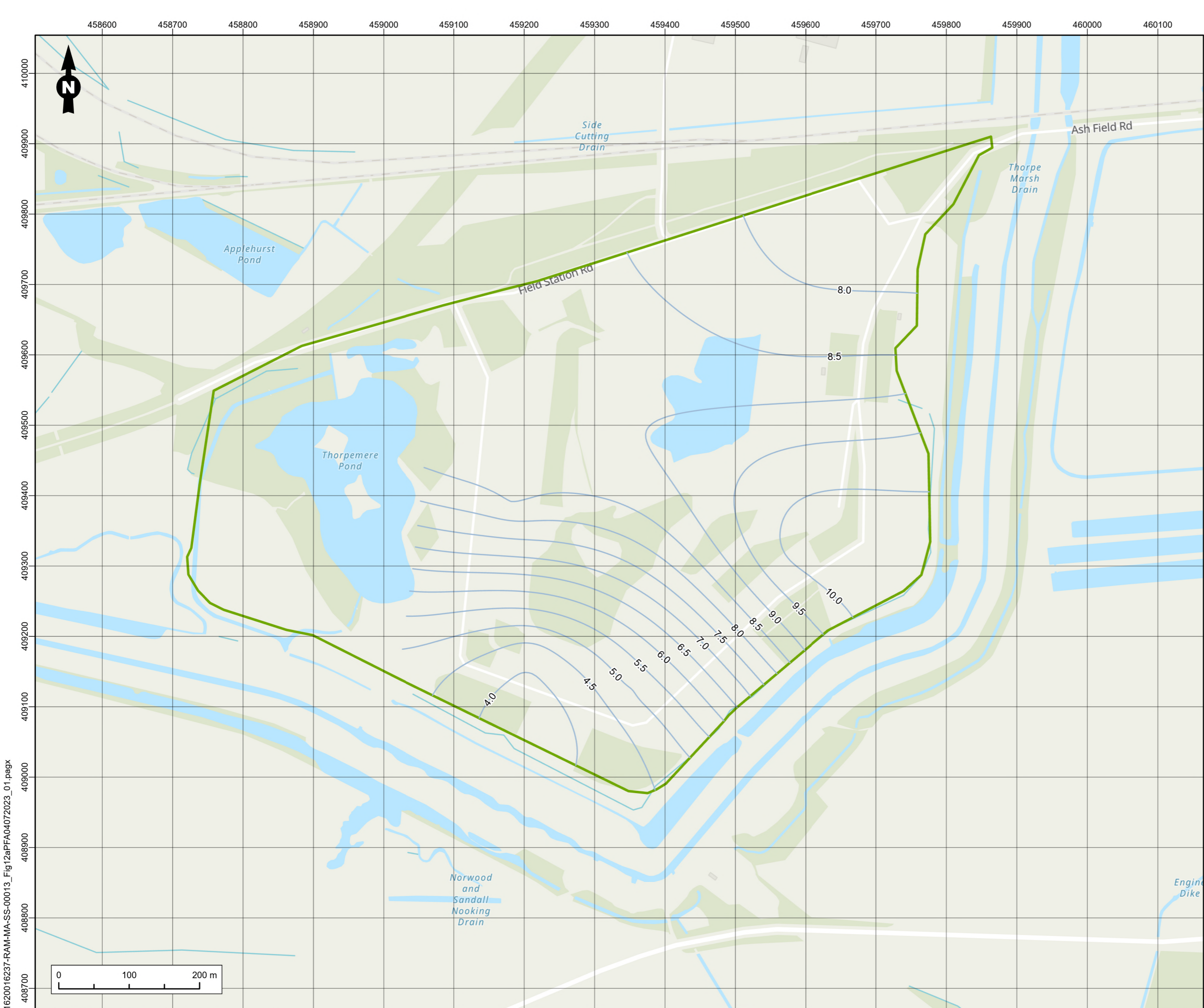
Date	Figure No.	Revision
May 2024	11	1.0

Prepared By	Scale
PH	1:4,000 @A3

Client
**Thorpe Marsh Green
 Energy Hub Limited**



1620016237-RAM-MA-SS-00012_Fig11MonitoringInstalls_01.pagx



Legend

- Environmental Permit Boundary
- Groundwater Level (m AOD)

Name and Address of Operator

Thorpe Marsh Green Energy Hub Limited
20 St. James's Street, 7th Floor, London,
England, SW1A 1ES

Figure Title

**Groundwater Contour (m AOD) -
PFA (04/07/2023)**

Project Name

**Thorpe Marsh Landfill
(EPR/CP3091SC/V002)**

Project No./Filey ID

1620016237 / REH2023N03018

Date	Figure No.	Revision
May 2024	12a	1.0

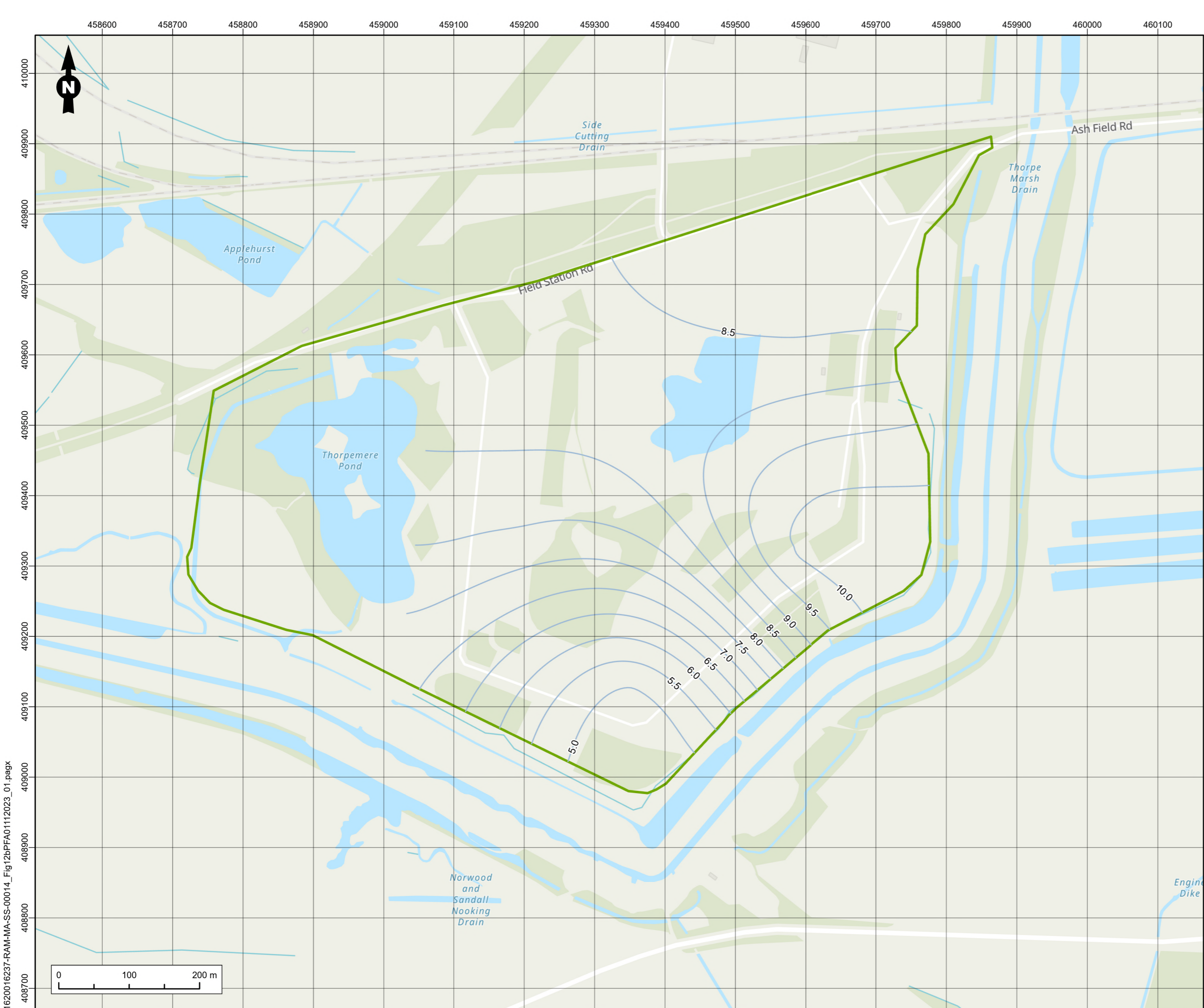
Prepared By	Scale
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Client

**Thorpe Marsh Green
Energy Hub Limited**

RAMBOLL

1620016237-RAM-MA-SS-00013_Fig12aPFA04072023_01.pagx



Legend

- Environmental Permit Boundary
- Groundwater Level (m AOD)

Name and Address of Operator
 Thorpe Marsh Green Energy Hub Limited
 20 St. James's Street, 7th Floor, London,
 England, SW1A 1ES

Figure Title
Groundwater Contour (m AOD) - PFA (01/11/2023)

Project Name
Thorpe Marsh Landfill (EPR/CP3091SC/V002)

Project No./Filey ID
 1620016237 / REH2023N03018

Date	Figure No.	Revision
May 2024	12b	1.0

Prepared By	Scale
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Client
Thorpe Marsh Green Energy Hub Limited

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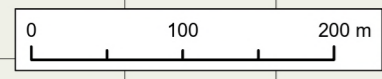
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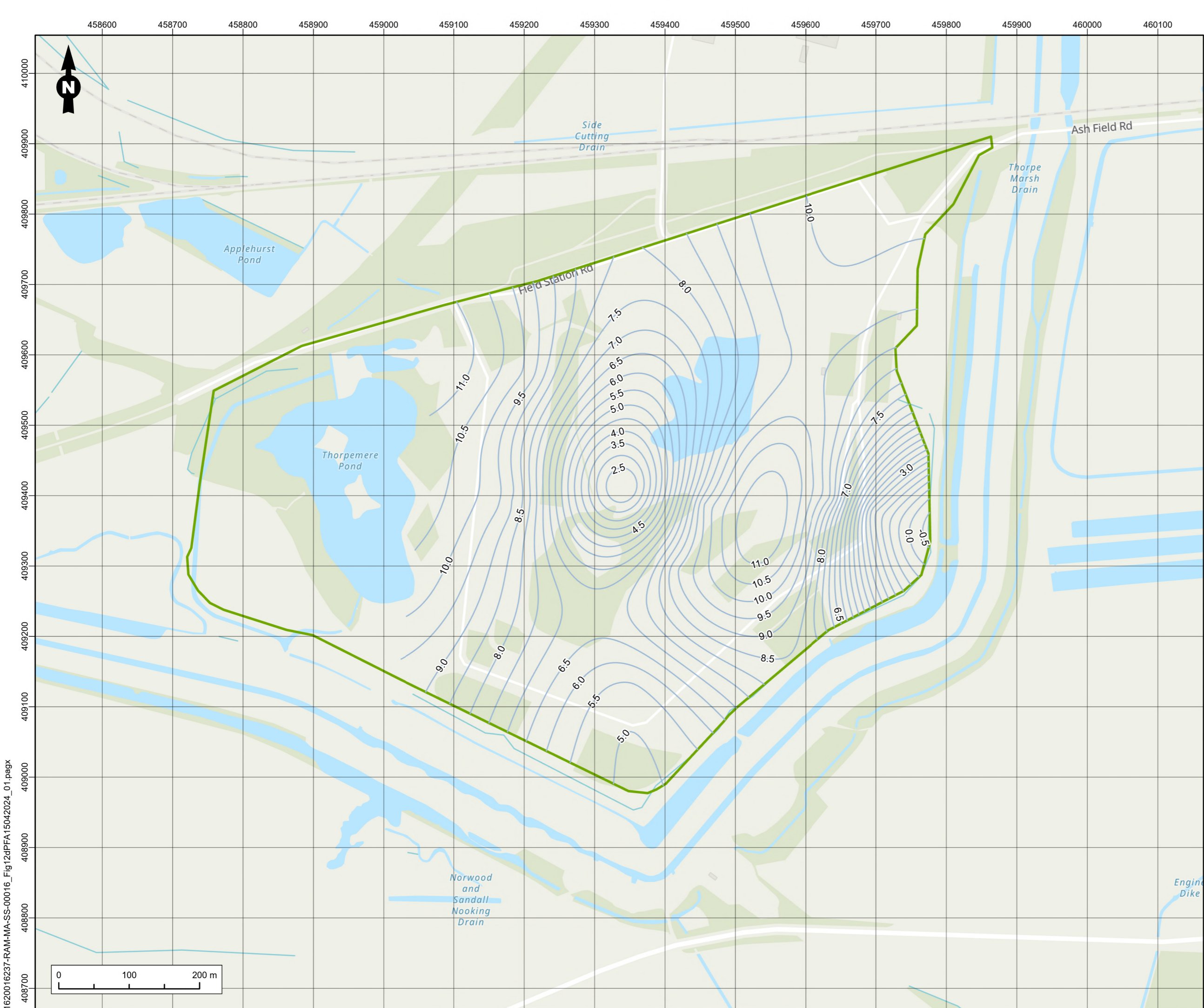
Legend

- Environmental Permit Boundary
- Groundwater Level (m AOD)

Name and Address of Operator		
Thorpe Marsh Green Energy Hub Limited 20 St. James's Street, 7th Floor, London, England, SW1A 1ES		
Figure Title		
Groundwater Contour (m AOD) - PFA (12/03/2024)		
Project Name		
Thorpe Marsh Landfill (EPR/CP3091SC/V002)		
Project No./Filey ID		
1620016237 / REH2023N03018		
Date	Figure No.	Revision
May 2024	12c	1.0
Prepared By	Scale	
PH	1:5,000 @A3	
Client	Thorpe Marsh Green Energy Hub Limited	



1620016237-RAM-MA-SS-00015_Fig12cPFA12032024_01.pagx



Legend

- Environmental Permit Boundary
- Groundwater Level (m AOD)

Name and Address of Operator
 Thorpe Marsh Green Energy Hub Limited
 20 St. James's Street, 7th Floor, London,
 England, SW1A 1ES

Figure Title
**Groundwater Contour (m AOD) -
 PFA (15/04/2024)**

Project Name
**Thorpe Marsh Landfill
 (EPR/CP3091SC/V002)**

Project No./Filey ID
 1620016237 / REH2023N03018

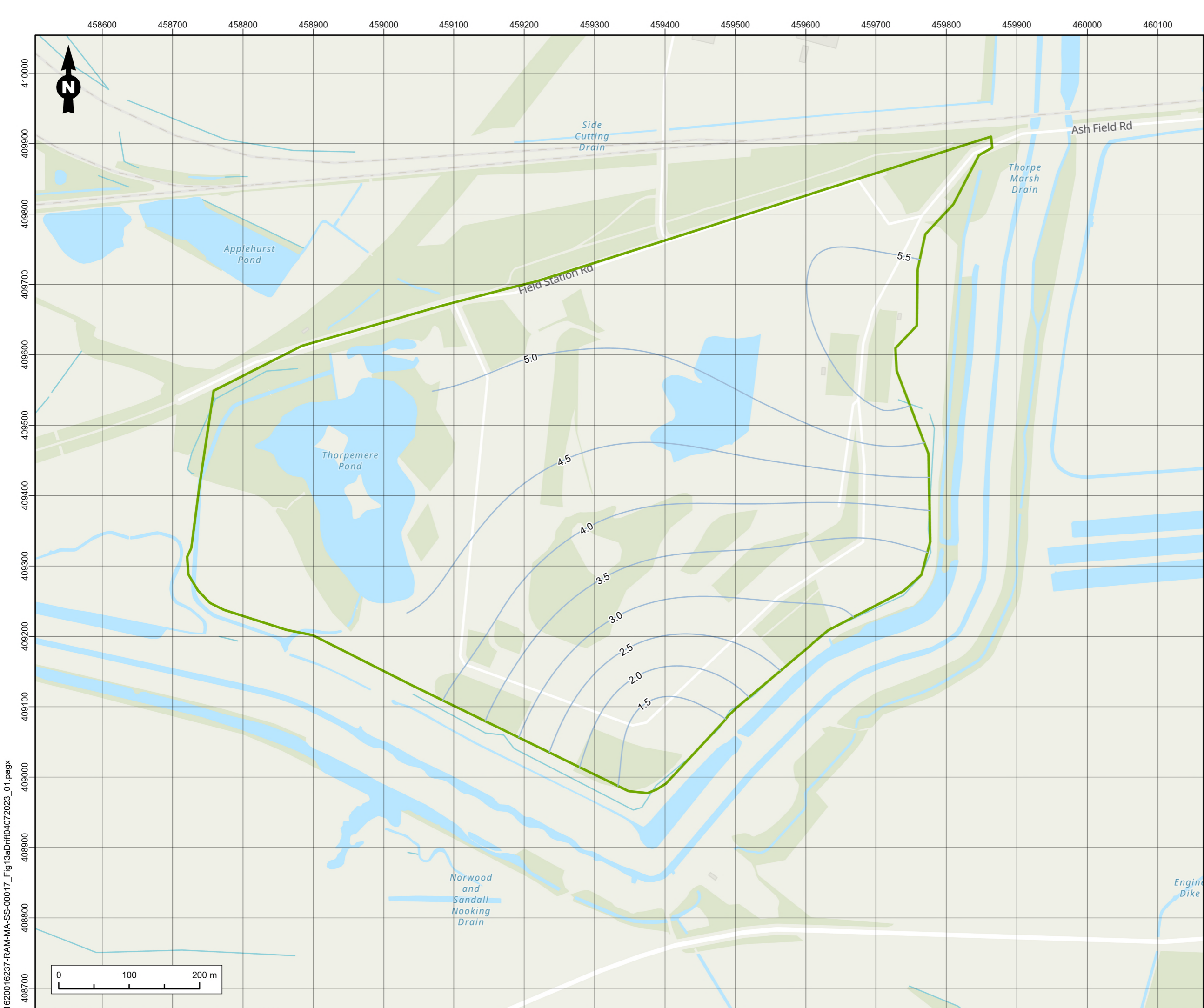
Date	Figure No.	Revision
May 2024	12d	1.0

Prepared By	Scale
PH	1:5,000 @A3

Client **Thorpe Marsh Green
 Energy Hub Limited**



1620016237-RAM-MA-SS-00016_Fig12dPFA15042024_01.pagx



Legend

- Environmental Permit Boundary
- Groundwater Level (m AOD)

Name and Address of Operator
 Thorpe Marsh Green Energy Hub Limited
 20 St. James's Street, 7th Floor, London,
 England, SW1A 1ES

Figure Title
**Groundwater Contour (m AOD) -
 Drift Deposits (04/07/2023)**

Project Name
**Thorpe Marsh Landfill
 (EPR/CP3091SC/V002)**

Project No./Filey ID
 1620016237 / REH2023N03018

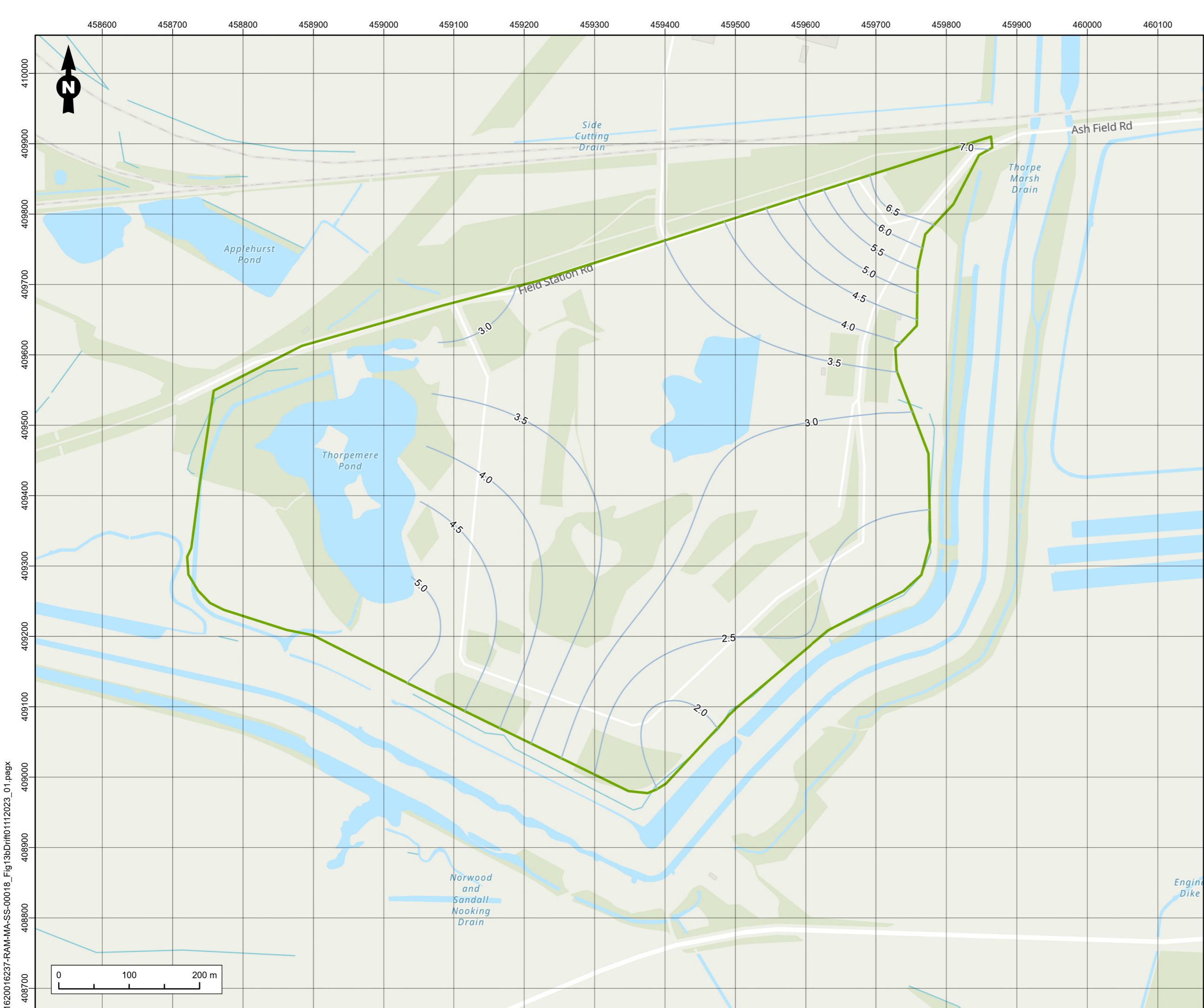
Date	Figure No.	Revision
May 2024	13a	1.0

Prepared By	Scale
PH	1:5,000 @A3

Client
**Thorpe Marsh Green
 Energy Hub Limited**

RAMBOLL

1620016237-RAM-MA-SS-00017_Fig13aDrift04072023_01.pagx



Legend

- Environmental Permit Boundary
- Groundwater Level (m AOD)

Name and Address of Operator		
Thorpe Marsh Green Energy Hub Limited 20 St. James's Street, 7th Floor, London, England, SW1A 1ES		
Figure Title		
Groundwater Contour (m AOD) - Drift Deposits (01/11/2023)		
Project Name		
Thorpe Marsh Landfill (EPR/CP3091SC/V002)		
Project No./Filey ID		
1620016237 / REH2023N03018		
Date	Figure No.	Revision
May 2024	13b	1.0
Prepared By	Scale	
PH	1:5,000 @A3	
Client	Thorpe Marsh Green Energy Hub Limited	



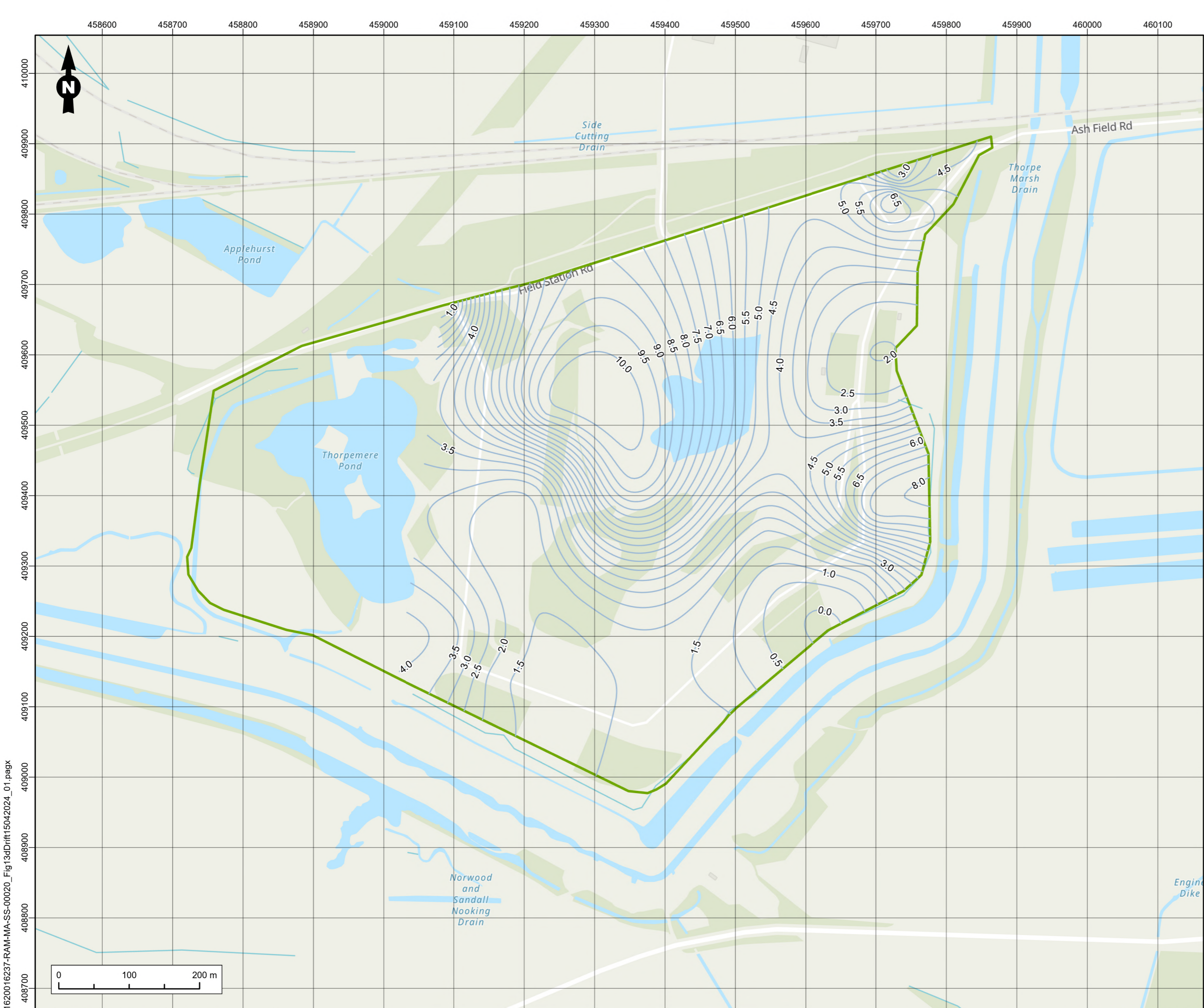


Legend

- Environmental Permit Boundary
- Groundwater Level (m AOD)

Name and Address of Operator		
Thorpe Marsh Green Energy Hub Limited 20 St. James's Street, 7th Floor, London, England, SW1A 1ES		
Figure Title		
Groundwater Contour (m AOD) - Drift Deposits (12/03/2024)		
Project Name		
Thorpe Marsh Landfill (EPR/CP3091SC/V002)		
Project No./Filey ID		
1620016237 / REH2023N03018		
Date	Figure No.	Revision
May 2024	13c	1.0
Prepared By	Scale	
PH	1:5,000 @A3	
Client	Thorpe Marsh Green Energy Hub Limited	





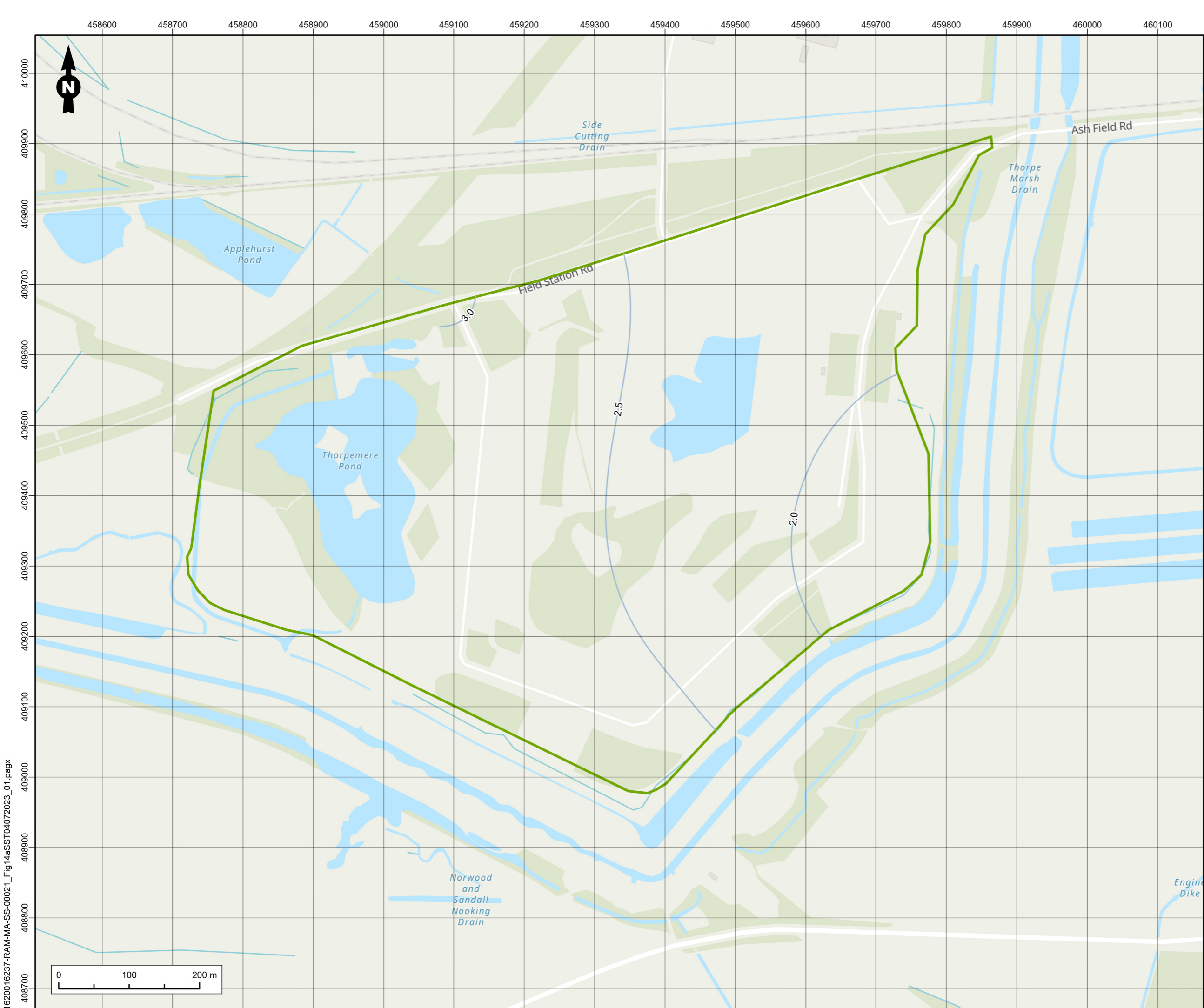
Legend

- Environmental Permit Boundary
- Groundwater Level (m AOD)

Name and Address of Operator		
Thorpe Marsh Green Energy Hub Limited 20 St. James's Street, 7th Floor, London, England, SW1A 1ES		
Figure Title		
Groundwater Contour (m AOD) - Drift Deposits (15/04/2024)		
Project Name		
Thorpe Marsh Landfill (EPR/CP3091SC/V002)		
Project No./Filey ID		
1620016237 / REH2023N03018		
Date	Figure No.	Revision
May 2024	13d	1.0
Prepared By	Scale	
PH	1:5,000 @A3	
Client	Thorpe Marsh Green Energy Hub Limited	



1620016237-RAM-MA-SS-00020_Fig13dDrift15042024_01.pagx



Legend

- Environmental Permit Boundary
- Groundwater Level (m AOD)

Name and Address of Operator
 Thorpe Marsh Green Energy Hub Limited
 20 St. James's Street, 7th Floor, London,
 England, SW1A 1ES

Figure Title
Groundwater Contour (m AOD) - Sandstone (04/07/2023)

Project Name
Thorpe Marsh Landfill (EPR/CP3091SC/V002)

Project No./Filey ID
 1620016237 / REH2023N03018

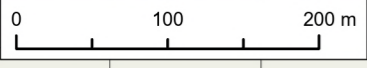
Date	Figure No.	Revision
May 2024	14a	1.0

Prepared By	Scale
PH	1:5,000 @A3

Client **Thorpe Marsh Green Energy Hub Limited**



1620016237-RAM-MA-SS-00021_Fig14aSS04072023_01.pagx





Legend

- Environmental Permit Boundary
- Groundwater Level (m AOD)

Name and Address of Operator
 Thorpe Marsh Green Energy Hub Limited
 20 St. James's Street, 7th Floor, London,
 England, SW1A 1ES

Figure Title
**Groundwater Contour (m AOD) -
 Sandstone (01/11/2023)**

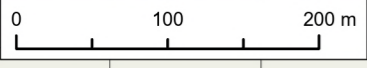
Project Name
**Thorpe Marsh Landfill
 (EPR/CP3091SC/V002)**

Project No./Filey ID
 1620016237 / REH2023N03018

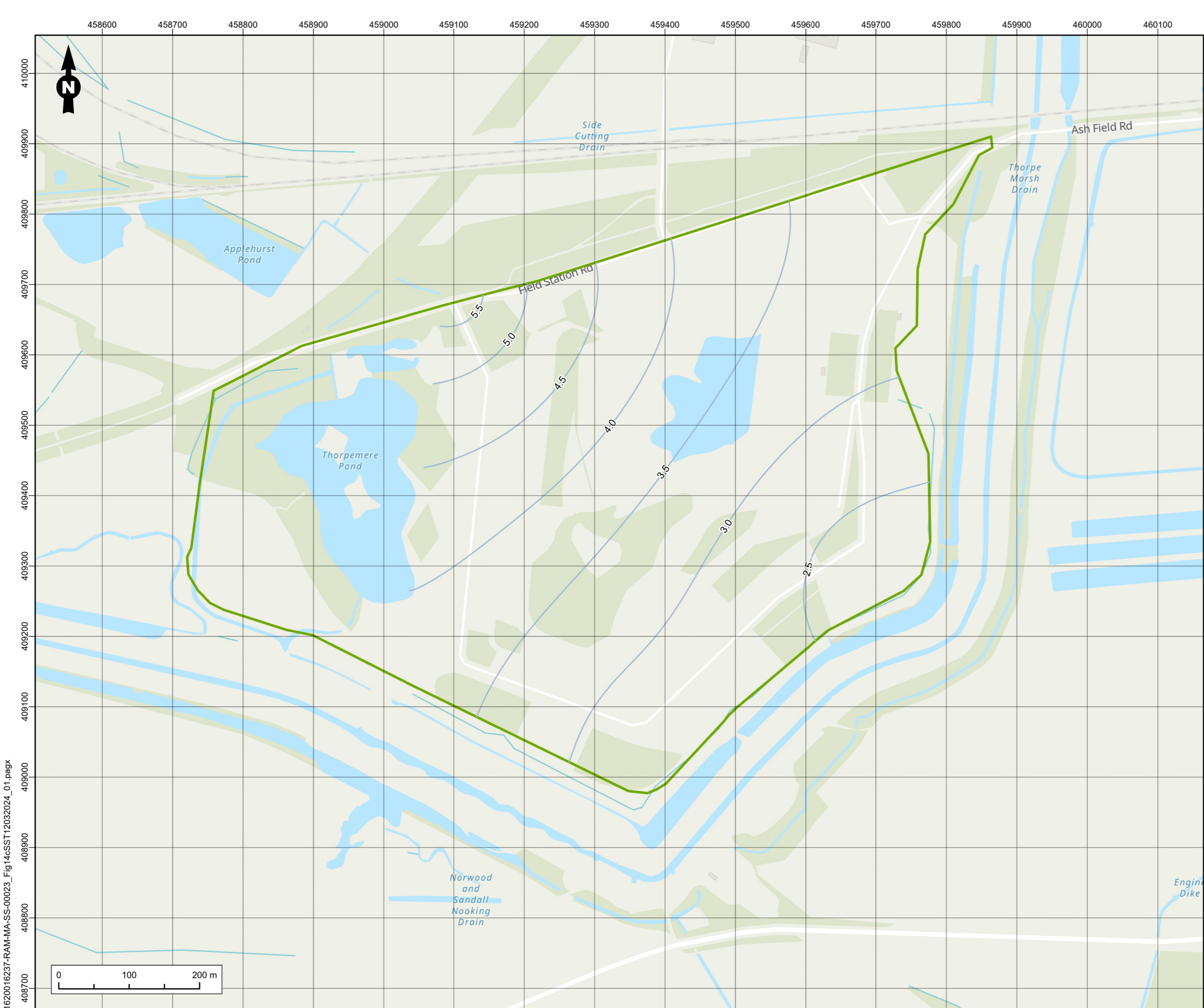
Date	Figure No.	Revision
May 2024	14b	1.0

Prepared By	Scale
PH	1:5,000 @A3

Client **Thorpe Marsh Green
 Energy Hub Limited**



1620016237-RAM-MA-SS-00022_Fig14bSST0112023_01.pagx



Legend

- Environmental Permit Boundary
- Groundwater Level (m AOD)

Name and Address of Operator
 Thorpe Marsh Green Energy Hub Limited
 20 St. James's Street, 7th Floor, London,
 England, SW1A 1ES

Figure Title
Groundwater Contour (m AOD) - Sandstone (12/03/2024)

Project Name
Thorpe Marsh Landfill (EPR/CP3091SC/V002)

Project No./Filey ID
 1620016237 / REH2023N03018

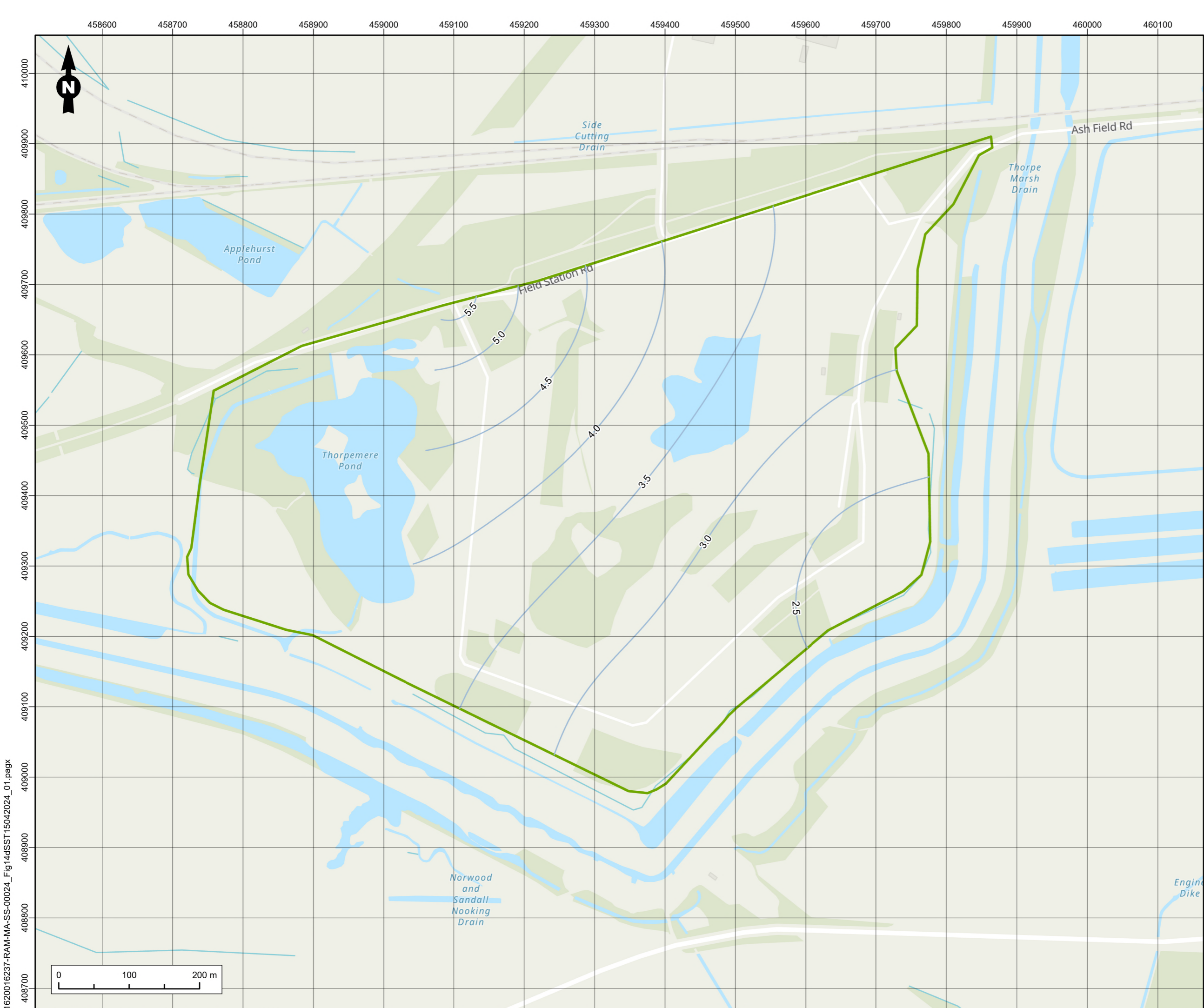
Date	Figure No.	Revision
May 2024	14c	1.0

Prepared By	Scale
PH	1:5,000 @A3

Client **Thorpe Marsh Green Energy Hub Limited**

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Legend

- Environmental Permit Boundary
- Groundwater Level (m AOD)

Name and Address of Operator
 Thorpe Marsh Green Energy Hub Limited
 20 St. James's Street, 7th Floor, London,
 England, SW1A 1ES

Figure Title
Groundwater Contour (m AOD) - Sandstone (15/04/2024)

Project Name
Thorpe Marsh Landfill (EPR/CP3091SC/V002)

Project No./Filey ID
 1620016237 / REH2023N03018

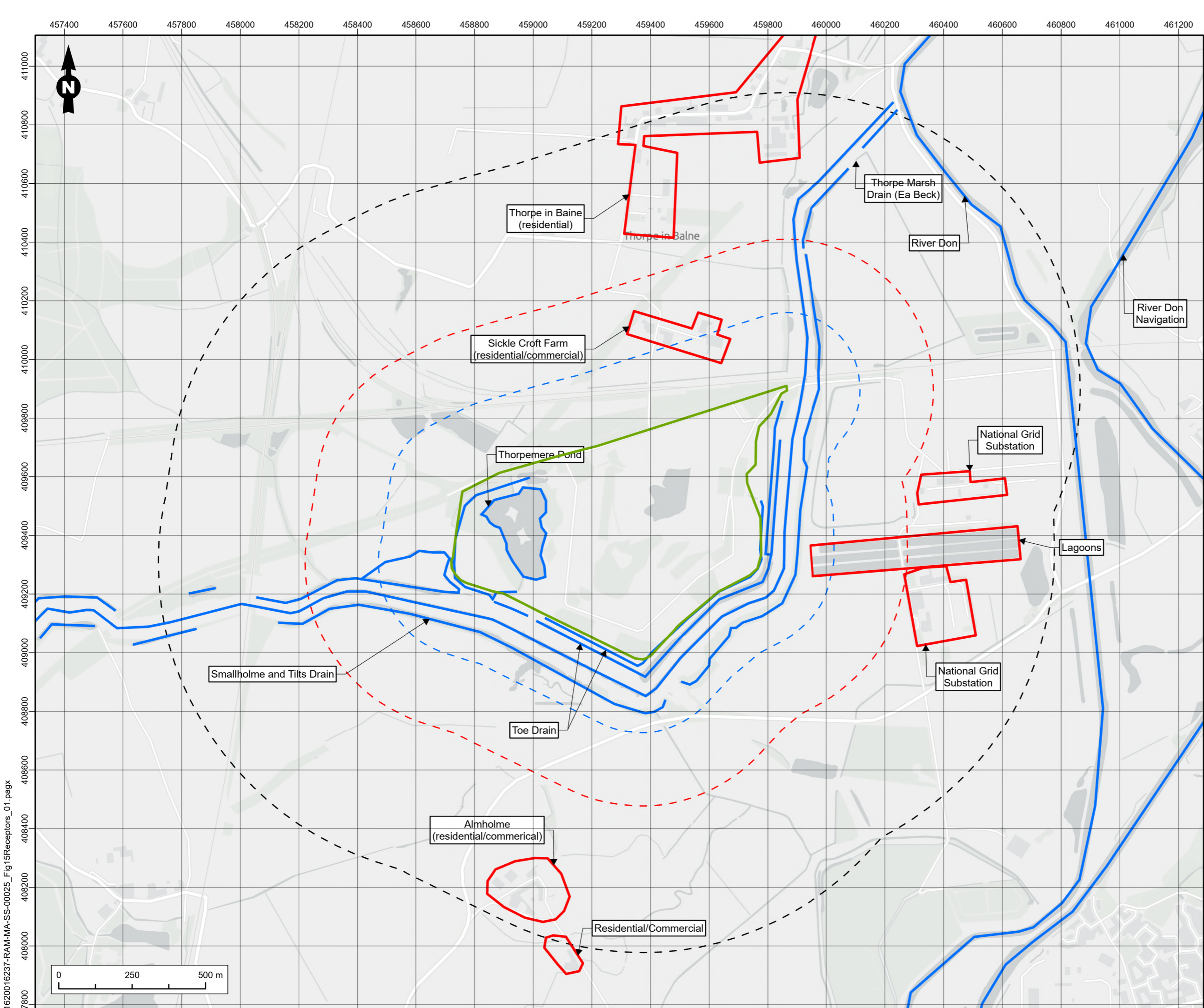
Date	Figure No.	Revision
May 2024	14d	1.0

Prepared By	Scale
PH	1:5,000 @A3

Client
Thorpe Marsh Green Energy Hub Limited

RAMBOLL

1620016237-RAM-MA-SS-00024_Fig14dSST15042024_01.pagx



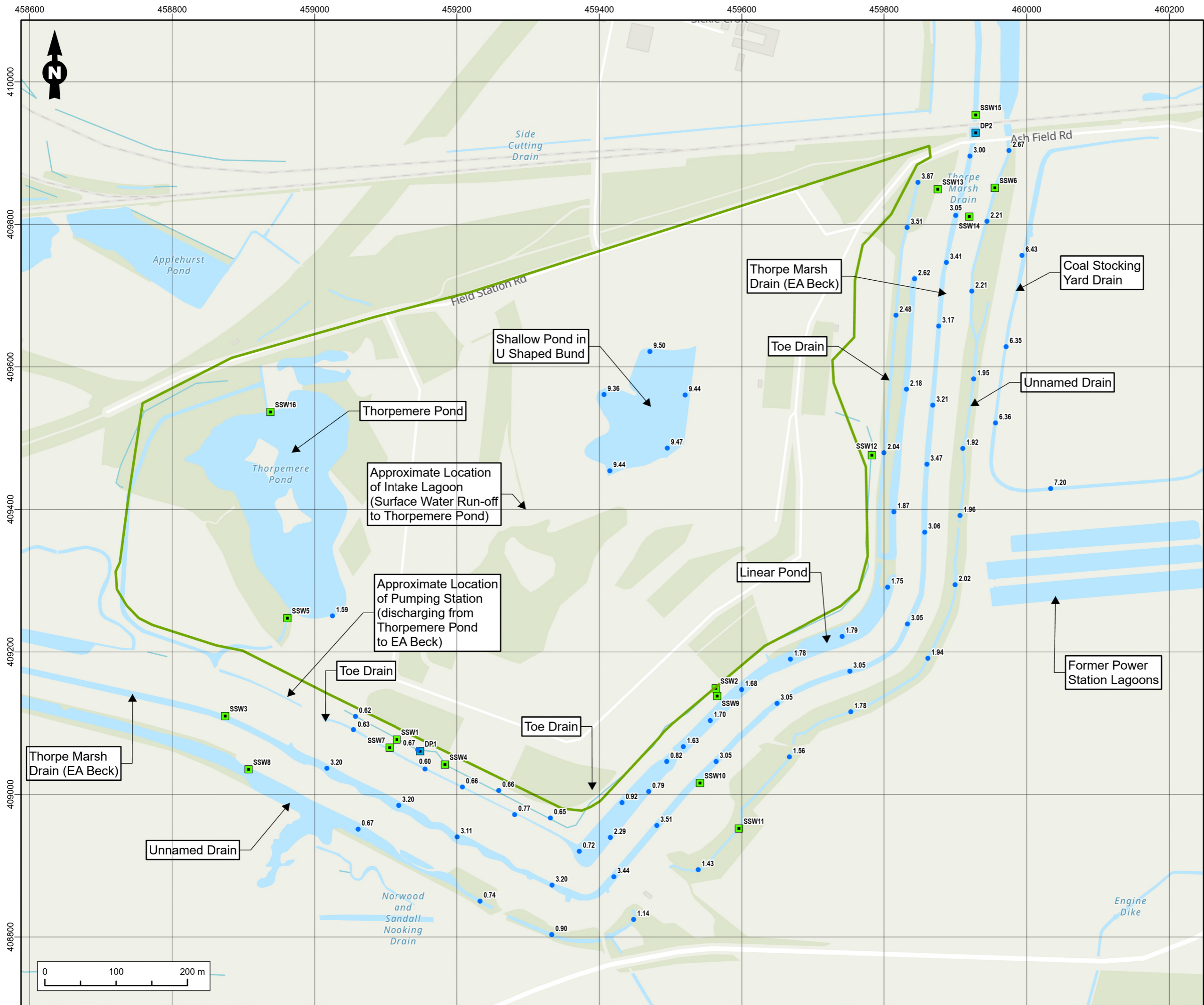
Legend

- Environmental Permit Boundary
- Distance from Permit Boundary**
 - 250 m
 - 500 m
 - 1 km

Name and Address of Operator		
Thorpe Marsh Green Energy Hub Limited 20 St. James's Street, 7th Floor, London, England, SW1A 1ES		
Figure Title		
Conceptual Site Model (CSM) Receptors		
Project Name		
Thorpe Marsh Landfill (EPR/CP3091SC/V002)		
Project No./Filey ID		
1620016237 / REH2023N03018		
Date	Figure No.	Revision
May 2024	15	1.0
Prepared By	Scale	
PH	1:12,000 @A3	
Client	Thorpe Marsh Green Energy Hub Limited	



1620016237-RAM-MA-SS-00025_Fig15Receptors_01.pagx



Legend

- Environmental Permit Boundary
- Environmental Permit Borehole**
 - Surface Water
 - Surface Water (Discharge Consent Monitoring Location)
 - Waterbody Elevation (m AOD)

Note:
Spot heights are derived from survey data. Survey data points may be incomplete within the model due to restricted access. Further, representation of water bodies may be temporal. Therefore, spot heights presented may not be representative of actual waterbody levels.

Name and Address of Operator
Thorpe Marsh Green Energy Hub Limited
20 St. James's Street, 7th Floor, London, England, SW1A 1ES

Figure Title
Surface Water Receptors

Project Name
Thorpe Marsh Landfill (EPR/CP3091SC/V002)

Project No./Filey ID
1620016237 / REH2023N03018

Date	Figure No.	Revision
May 2024	16	1.0

Prepared By	Scale
PH	1:5,000 @A3

Client
Thorpe Marsh Green Energy Hub Limited

RAMBOLL

1620016237-RAM-MA-SS-00026_Fig16ChannelNetwork_01.pagx