



Frodsham Solar

Environmental Statement: Volume 2

Appendix 9-1: Flood Risk Assessment and Drainage Strategy Part 4 of 5

July 2025

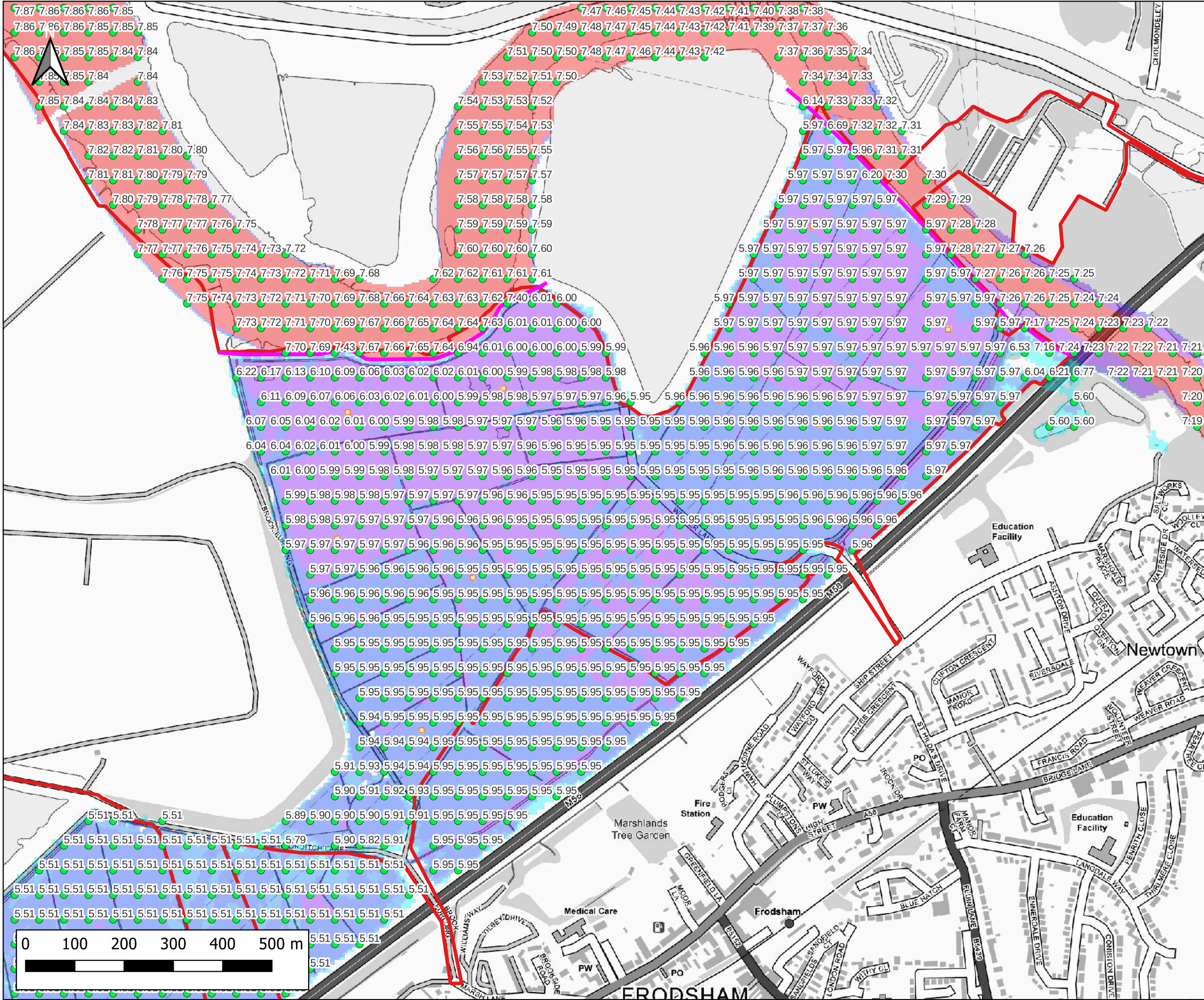


PINS Ref: EN010153

Document Ref: EN010153/DR/6.2

**Planning Act 2008; and Infrastructure Planning (Applications:
Prescribed Forms and Procedure) Regulations Regulation 5(2)(e)**

Revision P02



Notes:
1) All dimensions are in metres and all levels in metres above Ordnance Datum unless stated otherwise

LEGEND

- Site Boundary
- River Weaver Flood Defences
- Proposed Volume Displacement
- Maximum Water Level (m AOD)

Maximum Flood Depth

- < 0.3m
- 0.3m - 0.6m
- 0.6m - 1.2m
- 1.2m - 2.4m
- > 2.4m

CLIENT:

Frodsham Solar Ltd

www.waterco.co.uk

SCHEME:

Frodsham Solar

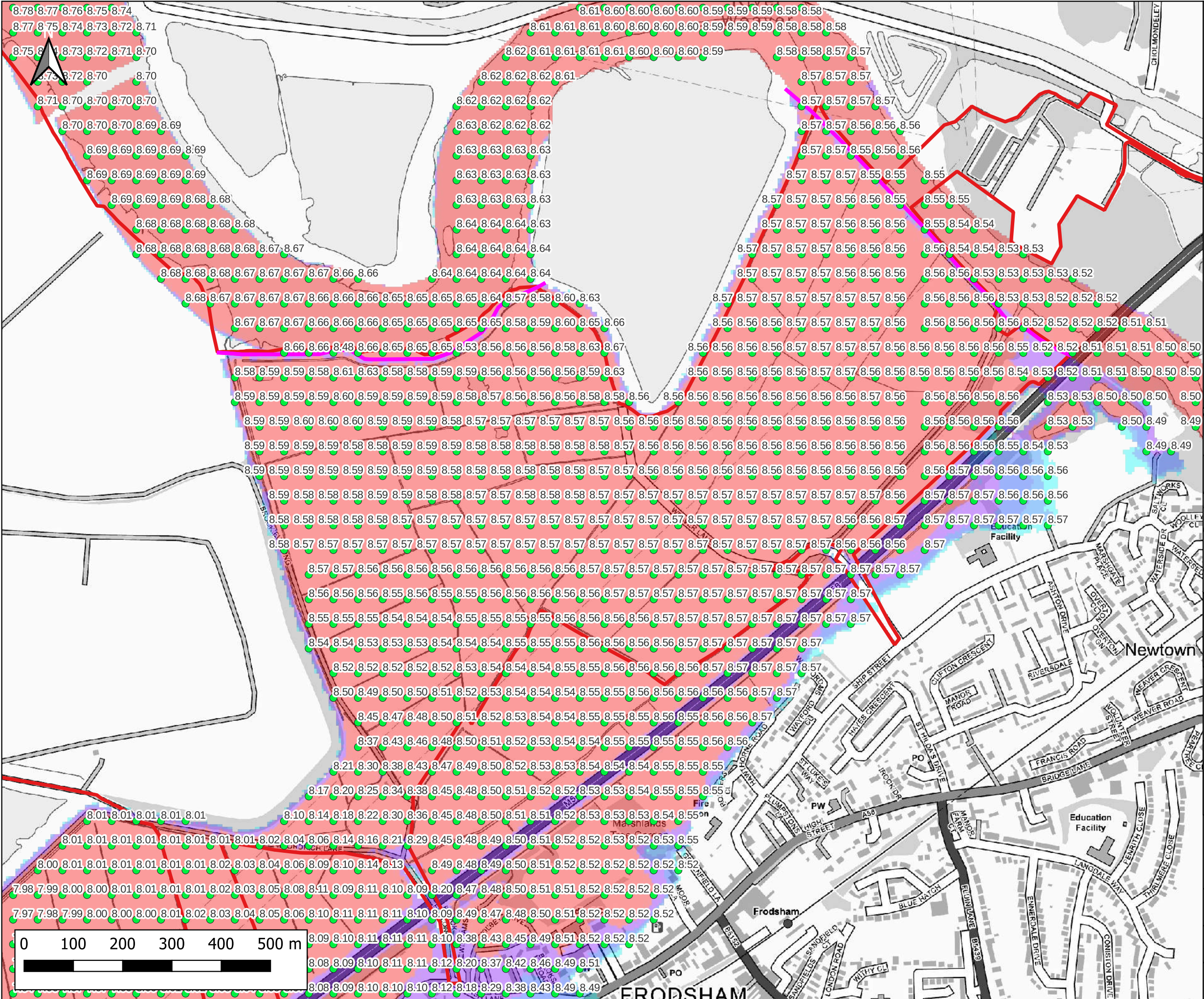
PLOT TITLE:

River Mersey Maximum Flood Water Level
0.5% AEP Tidal Event
2075 Upper End
Breach 1 Proposed Development Scenario (DEV)

PLOT STATUS:		DATE:	
FINAL		30-04-2025	

DRAWN:	CHECKED:	APPROVED:	PLOT SCALE AT A3:
MH	AP	LS	1:7500

PLOT NAME:	REVISION:
14740_MERS_T200HC_2075UE_DEV2_BR1_020_h_Max	-



Notes:
1) All dimensions are in metres and all levels in metres above Ordnance Datum unless stated otherwise

LEGEND

- Site Boundary
- River Weaver Flood Defences
- Maximum Water Level (m AOD)

Maximum Flood Depth

- <- 0.3m
- 0.3m - 0.6m
- 0.6m - 1.2m
- 1.2m - 2.4m
- > 2.4m

CLIENT:

Frodsham Solar Ltd

www.waterco.co.uk

SCHEME:

Frodsham Solar

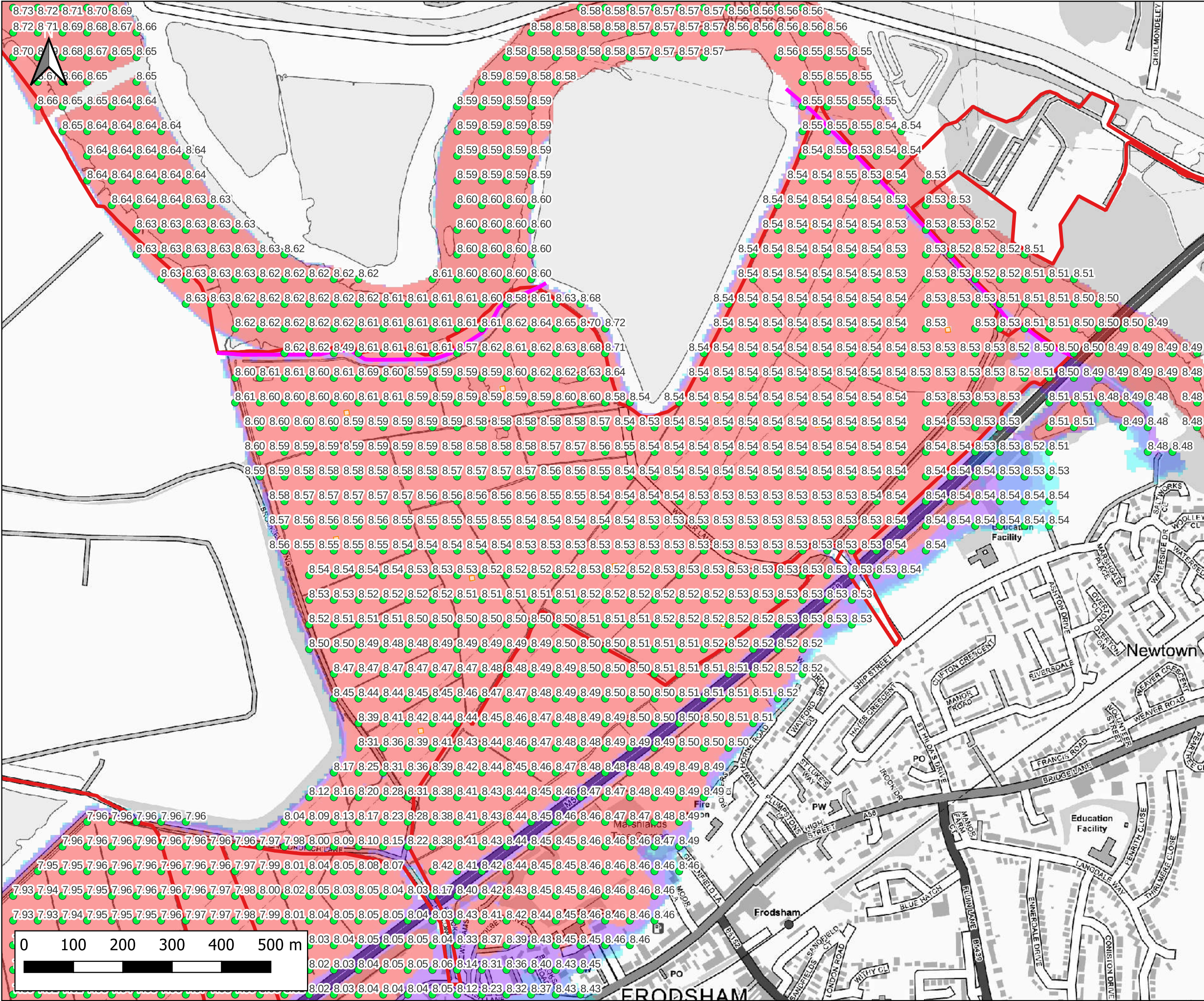
PLOT TITLE:

River Mersey Maximum Flood Water Level
0.5% AEP Tidal Event
H++
Breach 1 Existing Scenario (EXG)

PLOT STATUS:		DATE:	
FINAL		30-04-2025	

DRAWN:	CHECKED:	APPROVED:	PLOT SCALE AT A3:
MH	AP	LS	1:7500

PLOT NAME:	REVISION:
14740_MERS_T200HC_2100H++_EXG_BR1_020_h_Max	-



Notes:
1) All dimensions are in metres and all levels in metres above Ordnance Datum unless stated otherwise

LEGEND

- Site Boundary
- River Weaver Flood Defences
- Proposed Volume Displacement
- Maximum Water Level (m AOD)

Maximum Flood Depth

- <- 0.3m
- 0.3m - 0.6m
- 0.6m - 1.2m
- 1.2m - 2.4m
- > 2.4m

CLIENT:

Frodsham Solar Ltd

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SCHEME:

Frodsham Solar

PLOT TITLE:

River Mersey Maximum Flood Water Level
0.5% AEP Tidal Event
H++
Breach 1 Proposed Development Scenario (DEV)

PLOT STATUS:		DATE:	
FINAL		30-04-2025	

DRAWN:	CHECKED:	APPROVED:	PLOT SCALE AT A3:
MH	AP	LS	1:7500

PLOT NAME:	REVISION:
14740_MERS_T200HC_2100H++_DEV2_BR1_020_h_Max	-



Notes:
1) All dimensions are in metres and all levels in metres above Ordnance Datum unless stated otherwise

LEGEND

- Site Boundary
- River Weaver Flood Defences
- Maximum Water Level (m AOD)

Maximum Flood Depth

- < 0.3m
- 0.3m - 0.6m
- 0.6m - 1.2m
- 1.2m - 2.4m
- > 2.4m

CLIENT:

Frodsham Solar Ltd

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SCHEME:

Frodsham Solar

PLOT TITLE:

River Mersey Maximum Flood Water Level
0.1% AEP Tidal Event
2024 Higher Central
Breach 1 Existing Scenario (EXG)

PLOT STATUS:		DATE:	
FINAL		30-04-2025	

DRAWN:	CHECKED:	APPROVED:	PLOT SCALE AT A3:
MH	AP	LS	1:7500

PLOT NAME:	REVISION:
14740_MERS_T1000HC_2024HC_EXG_BR1_020_h_Max	-



Notes:
1) All dimensions are in metres and all levels in metres above Ordnance Datum unless stated otherwise

LEGEND

- Site Boundary
- River Weaver Flood Defences
- Proposed Volume Displacement
- Maximum Water Level (m AOD)

Maximum Flood Depth

- <- 0.3m
- 0.3m - 0.6m
- 0.6m - 1.2m
- 1.2m - 2.4m
- > 2.4m

CLIENT:

Frodsham Solar Ltd

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SCHEME:

Frodsham Solar

PLOT TITLE:

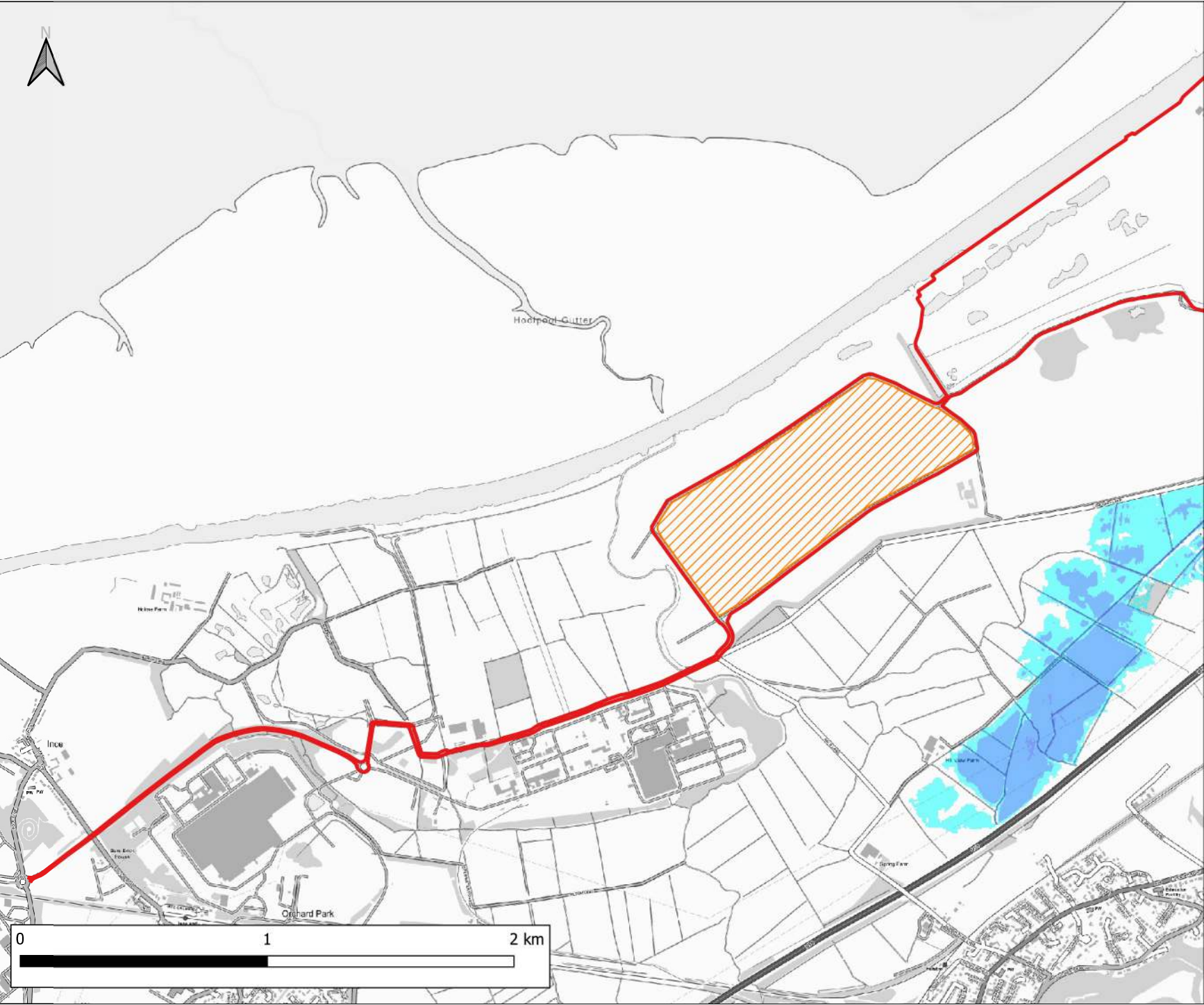
River Mersey Maximum Flood Water Level
0.1% AEP Tidal Event
2024 Higher Central
Breach 1 Proposed Development Scenario (DEV)

PLOT STATUS:			DATE:
FINAL			30-04-2025

DRAWN:	CHECKED:	APPROVED:	PLOT SCALE AT A3:
MH	AP	LS	1:7500

PLOT NAME:	REVISION:
14740_MERS_T1000HC_2024HC_DEV2_BR1_020_h_Max	-

Site Access Route Mapping



Notes:
1) All dimensions are in metres and all levels in metres above Ordnance Datum unless stated otherwise

LEGEND

- Site Boundary
- Land Not Within Site Boundary

Maximum Flood Depth

- <= 0.3m
- 0.3m - 0.6m
- 0.6m - 1.2m
- 1.2m - 2.4m
- > 2.4m

Inset Map: A small map showing the location of the site within the region of Chester, England. The site is highlighted with a green box. Labels include: DUNELM, Halton, Weston, River Weaver, Frodsham, Newton, Helsby, Hapsford, Eton, Chester East Services, Ince, Ince Banks, Dungeon Banks, and Ince Moors.

CLIENT:

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SCHEME:

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PLOT TITLE:

River Weaver Maximum Flood Depth
1% AEP + 106% CC Fluvial Event
Existing Breach Scenario

PLOT STATUS:

FINAL

DATE:

21-10-2024

DRAWN: MJW

CHECKED: AW

APPROVED: MW

PLOT SCALE AT A3:

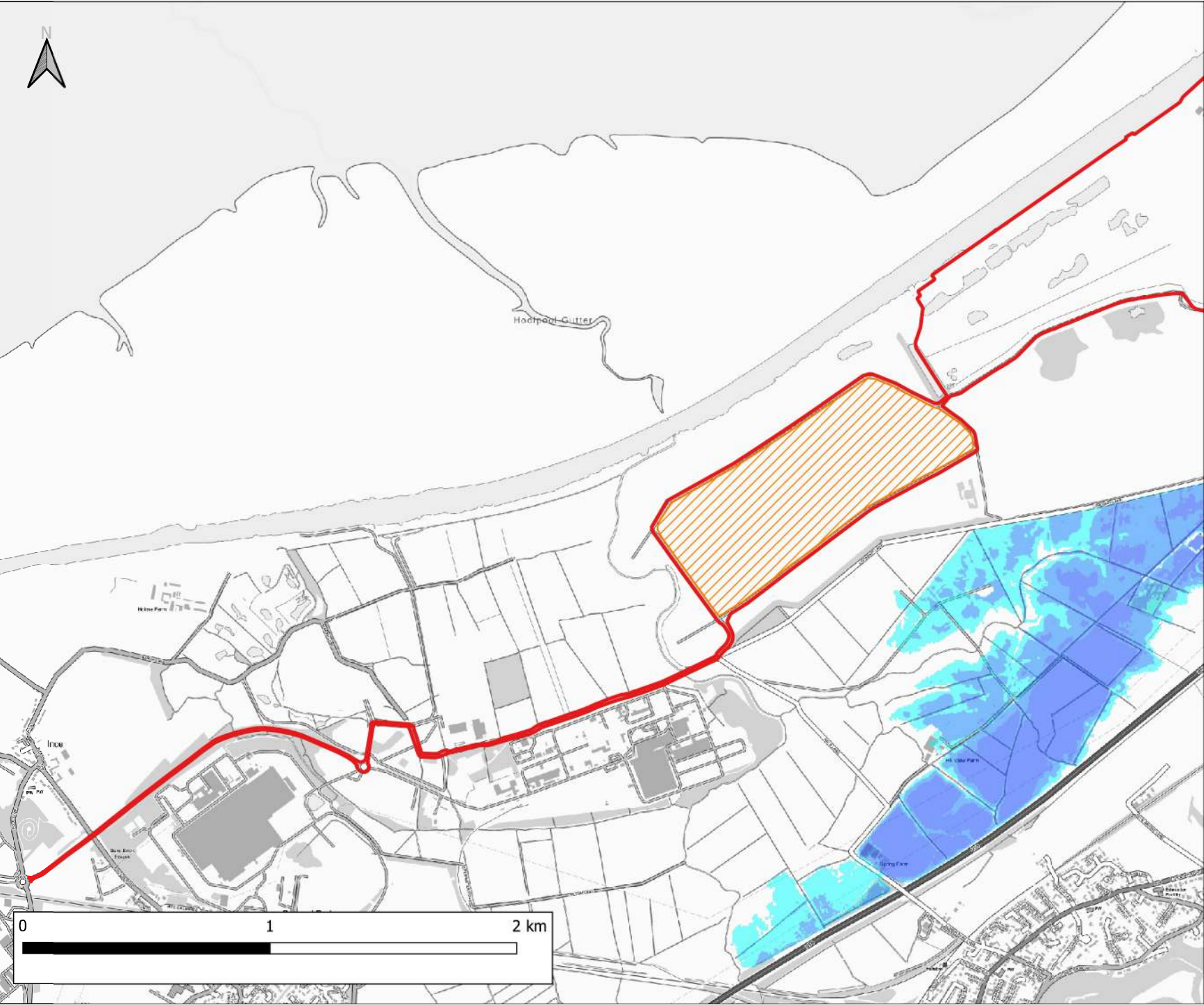
1:15000

PLOT NAME:

14740_LW_BR2_6M_Q100CC106_d_Max

REVISION:

-



Notes:
1) All dimensions are in metres and all levels in metres above Ordnance Datum unless stated otherwise

LEGEND

Site Boundary

Land Not Within Site Boundary

Maximum Flood Depth

- <= 0.3m
- 0.3m - 0.6m
- 0.6m - 1.2m
- 1.2m - 2.4m
- > 2.4m

CLIENT:

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SCHEME:

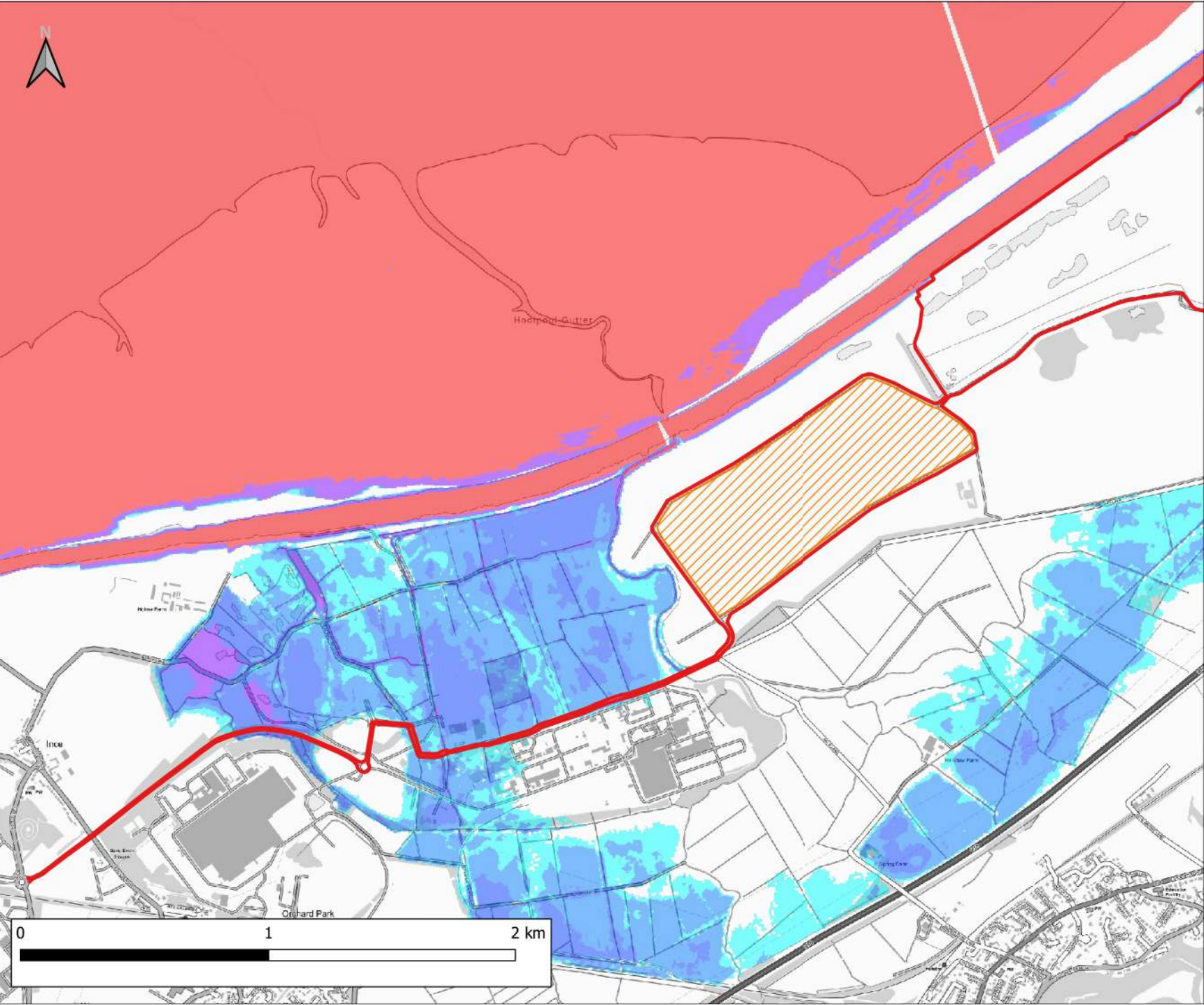
Frodsham Solar

PLOT TITLE:

River Weaver Maximum Flood Depth
1% AEP + 67% CC Fluvial Event
0.5% AEP Tidal Event (2075)
Breach 2 Existing Scenario

PLOT STATUS: FINAL			DATE: 21-10-2024
DRAWN: MJW	CHECKED: AW	APPROVED: MW	PLOT SCALE AT A3: 1:15000

PLOT NAME:	REVISION:
14740_LW_BR2_6M_Q100CC67_M(LOW)_ME(T200HC_2075UE)_d_Max	-



Notes:
1) All dimensions are in metres and all levels in metres above Ordnance Datum unless stated otherwise

LEGEND

Site Boundary

Land Not Within Site Boundary

Maximum Flood Depth

- <= 0.3m
- 0.3m - 0.6m
- 0.6m - 1.2m
- 1.2m - 2.4m
- > 2.4m

CLIENT:

Frodsham Solar Ltd

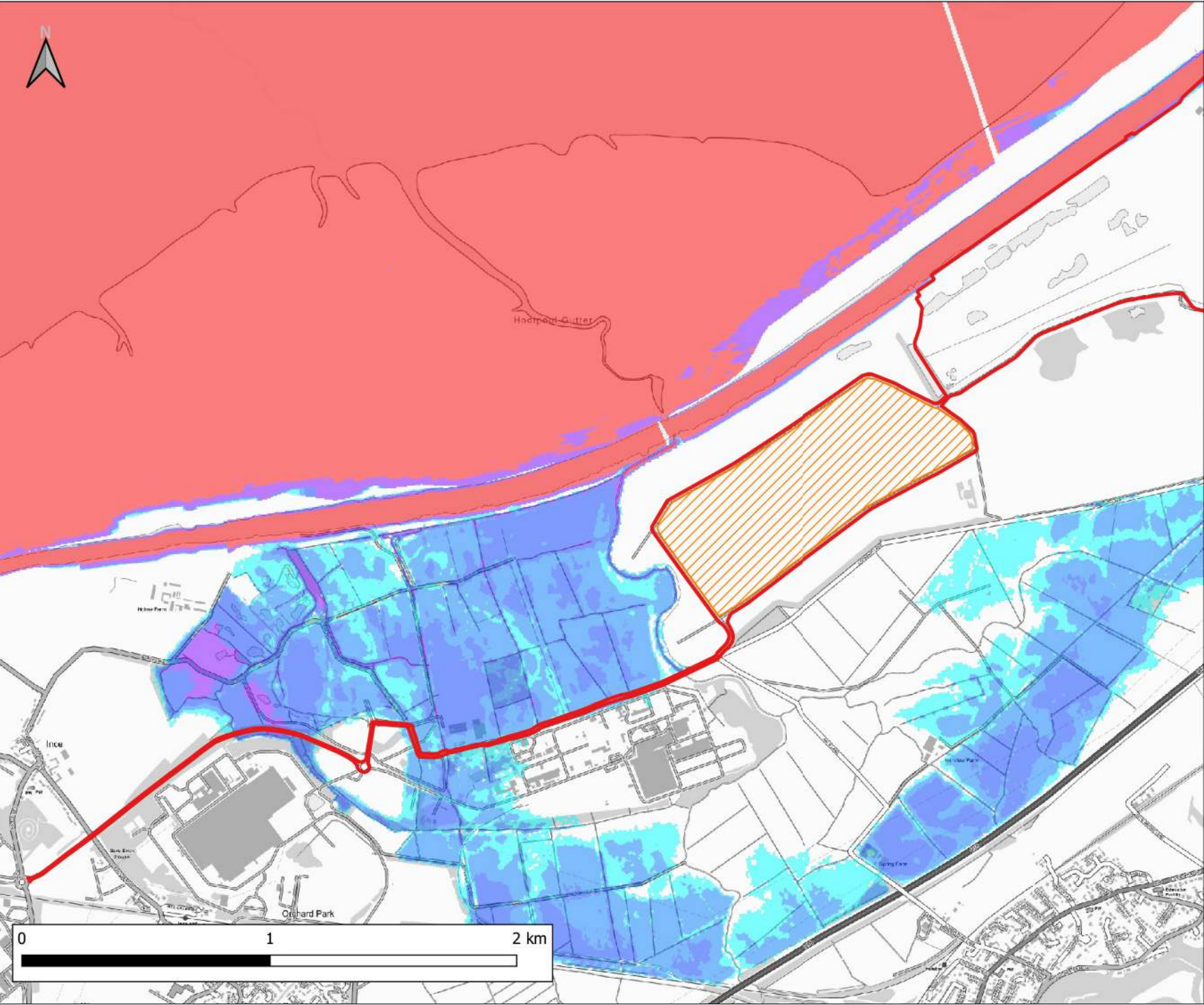
www.waterco.co.uk

SCHEME:

Frodsham Solar

PLOT TITLE:
River Mersey Maximum Flood Depth
0.5% AEP Tidal Event
2075 Upper End
Defended Existing Scenario

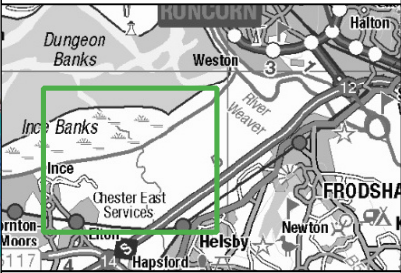
PLOT STATUS:		FINAL	DATE:	21-10-2024
DRAWN:	CHECKED:	APPROVED:	PLOT SCALE:	AT
MJW	AW	MW	A3: 1:15000	
PLOT NAME: 14740_MERS_T200HC_2075UE_EXG_DEF_d_Max				REVISION:



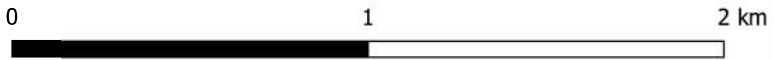
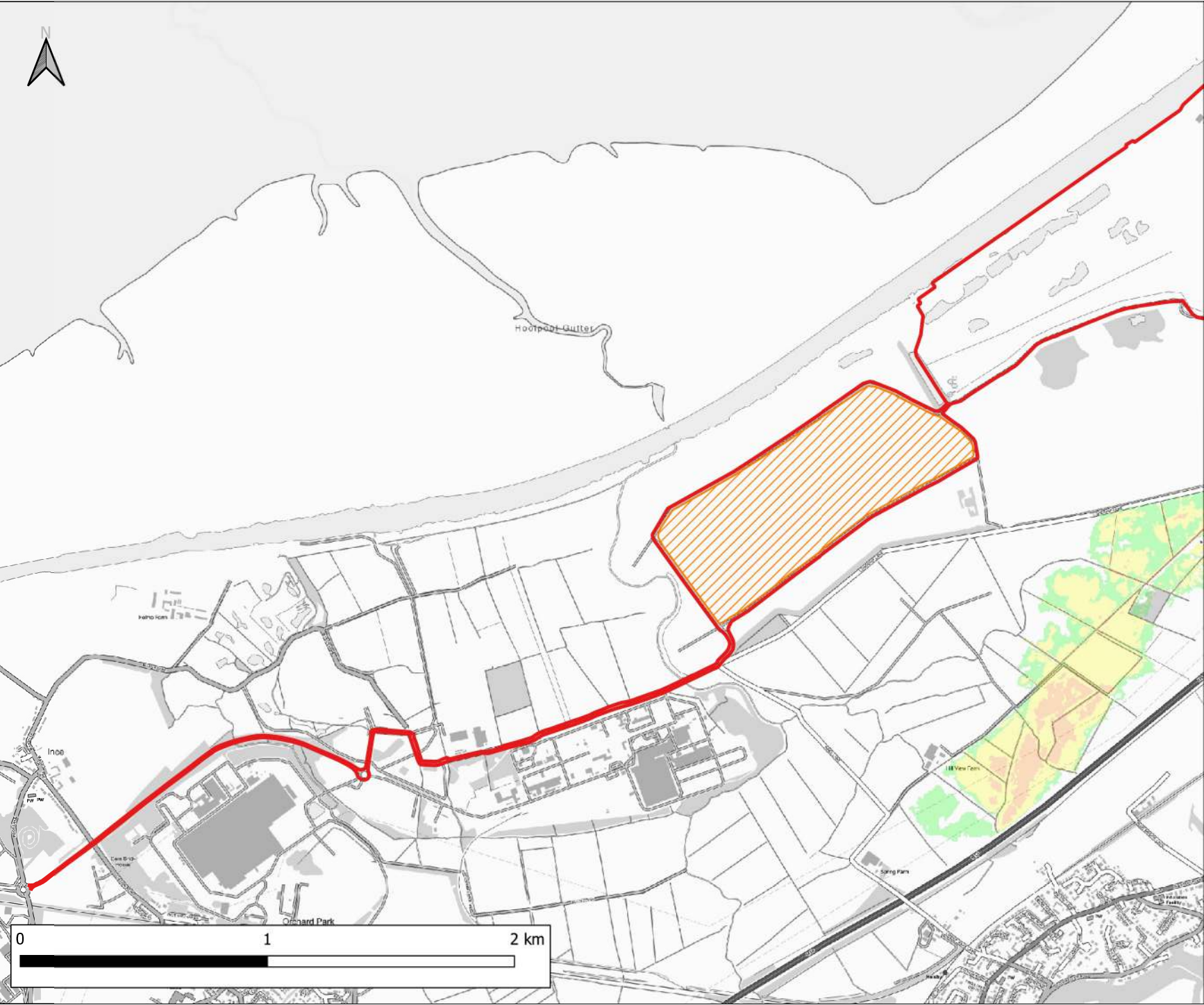
Notes:
1) All dimensions are in metres and all levels in metres above Ordnance Datum unless stated otherwise

LEGEND

- Site Boundary
- Land Not Within Site Boundary
- Maximum Flood Depth
 - <= 0.3m
 - 0.3m - 0.6m
 - 0.6m - 1.2m
 - 1.2m - 2.4m
 - > 2.4m



CLIENT:		Frodsham Solar Ltd	
waterco www.waterco.co.uk			
SCHEME:		Frodsham Solar	
PLOT TITLE: River Mersey Maximum Flood Depth 0.5% AEP Tidal Event 2075 Upper End Existing Breach Scenario			
PLOT STATUS:		FINAL	DATE: 21-10-2024
DRAWN: MJW	CHECKED: AW	APPROVED: MW	PLOT SCALE A3: 1:15000 AT
PLOT NAME: 14740_MERS_T200HC_2075UE_EXG_BR1_d_Max			REVISION -



Notes:
1) All dimensions are in metres and all levels in metres above Ordnance Datum unless stated otherwise

LEGEND

- Site Boundary
- Land Not Within Site Boundary
- Maximum Flood Hazard Rating (FD2320)
 - Caution
 - Danger for Some
 - Danger for Most
 - Danger for All

CLIENT:
Frodsham Solar Ltd

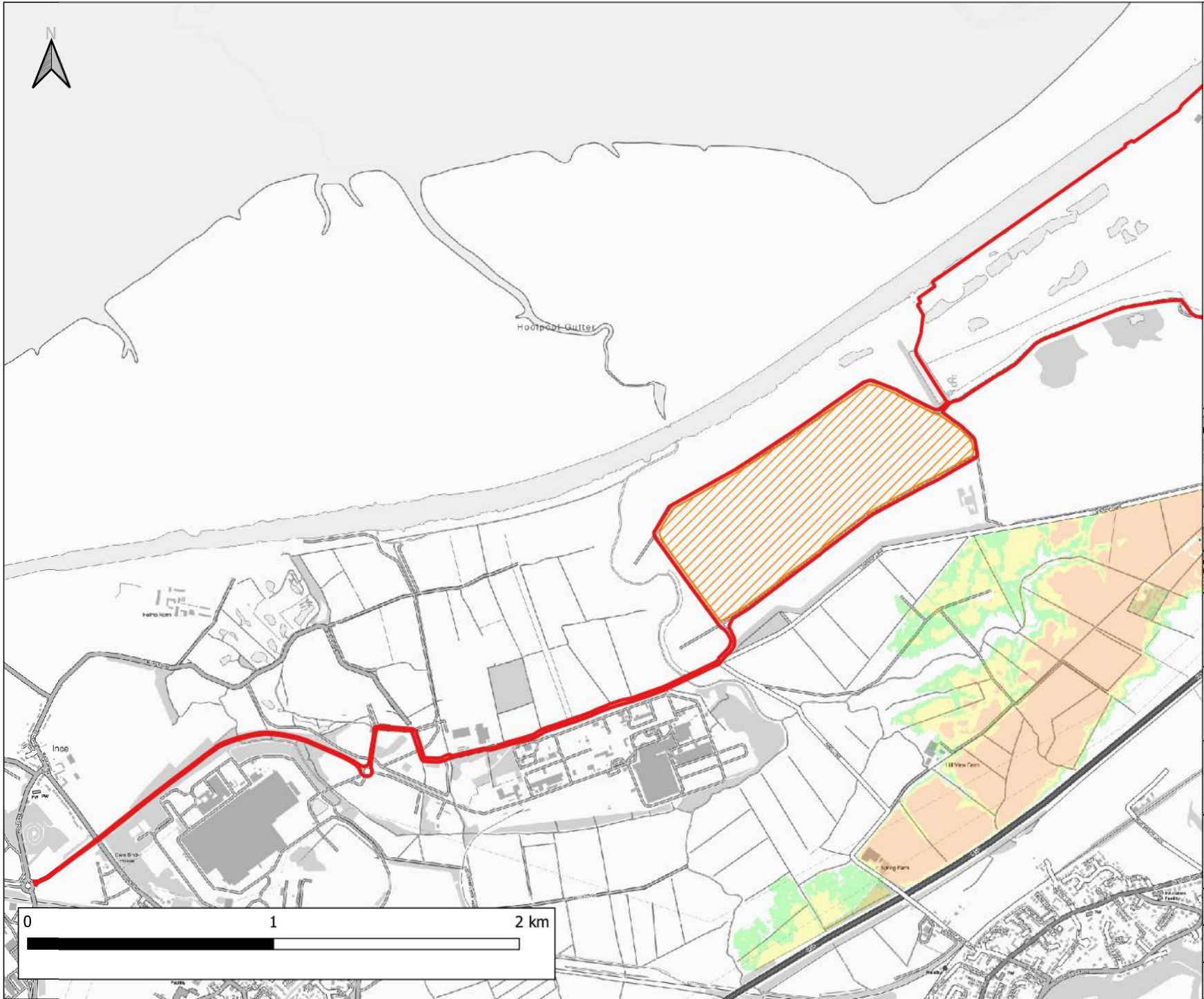
SCHEME:
Frodsham Solar

PLOT TITLE:
River Weaver Maximum Flood Hazard Rating
1% AEP + 106% CC Fluvial Event
Existing Breach Scenario

PLOT STATUS: FINAL **DATE:** 21-10-2024

DRAWN: MJW	CHECKED: AW	APPROVED: MW	PLOT SCALE AT A3: 1:15000
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PLOT NAME: 14740_LW_BR2_6M_Q100CC106_ZUK0_Max **REVISION:** -



Notes:
1) All dimensions are in metres and all levels in metres above Ordnance Datum unless stated otherwise

LEGEND

- Site Boundary
- Land Not Within Site Boundary
- Maximum Flood Hazard Rating (FD2320)
- Caution
- Danger for Some
- Danger for Most
- Danger for All

Inset Map: A small map showing the location of the site within the wider area, including locations like Ince, Chester East Services, Helsby, and Frodsham.

CLIENT:
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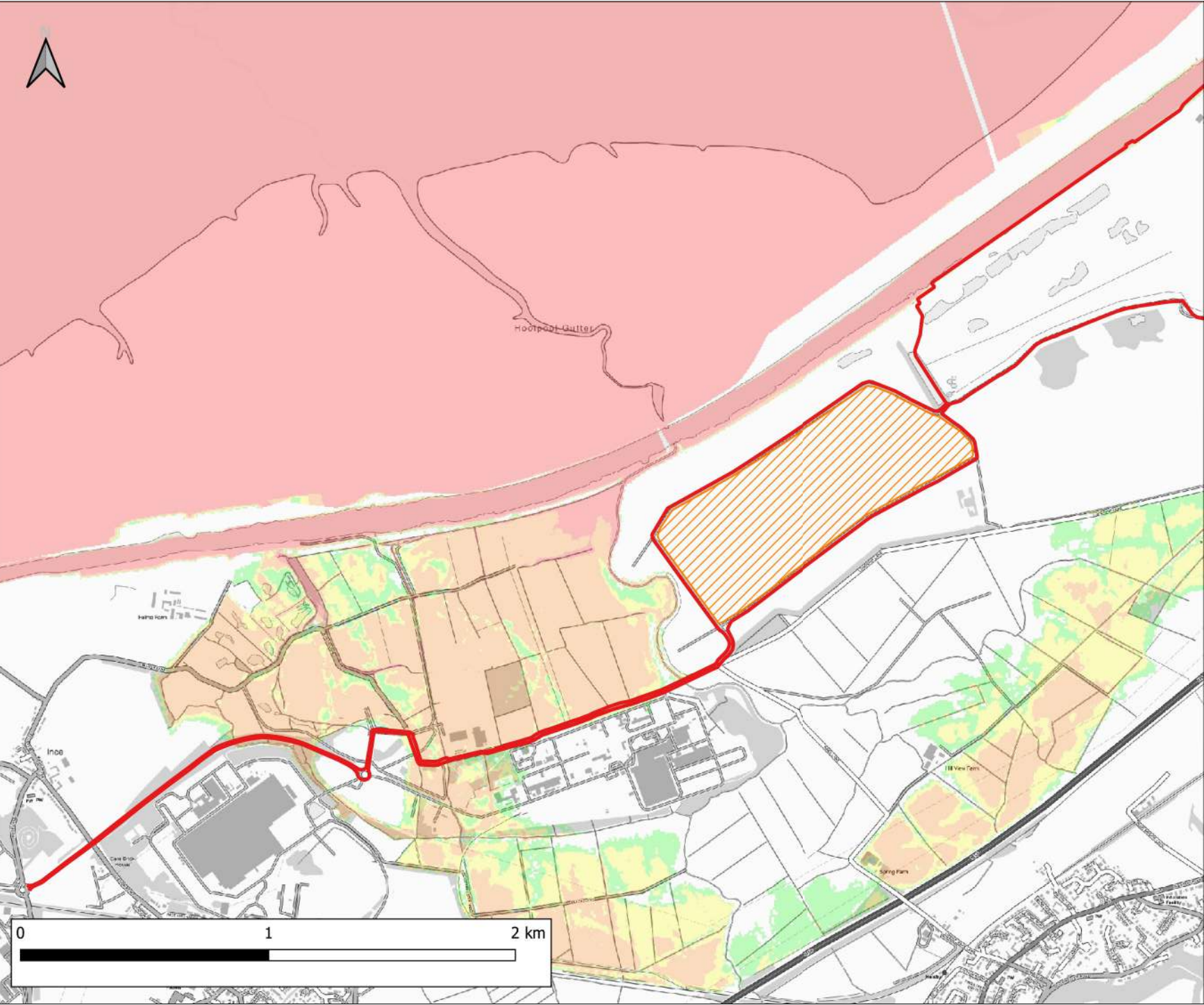
SCHEME:
Frodsham Solar

PLOT TITLE:
River Weaver Maximum Flood Hazard Rating
1% AEP + 67% CC Fluvial Event
0.5% AEP Tidal Event (2075)
Breach 2 Existing Scenario

PLOT STATUS: FINAL DATE: 21-10-2024

DRAWN: MJW	CHECKED: AW	APPROVED: MW	PLOT SCALE AT A3: 1:15000
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PLOT NAME: 14740_LW_BR2_6M_Q100CC67_M(LOW)_ME(T200HC_2075UE)_ZUKO_Max REVISION: -



Notes:
1) All dimensions are in metres and all levels in metres above Ordnance Datum unless stated otherwise

LEGEND

- Site Boundary
- Land Not Within Site Boundary
- Maximum Flood Hazard Rating (FD2320)
 - Caution
 - Danger for Some
 - Danger for Most
 - Danger for All

CLIENT:
Frodsham Solar Ltd

waterco
www.waterco.co.uk

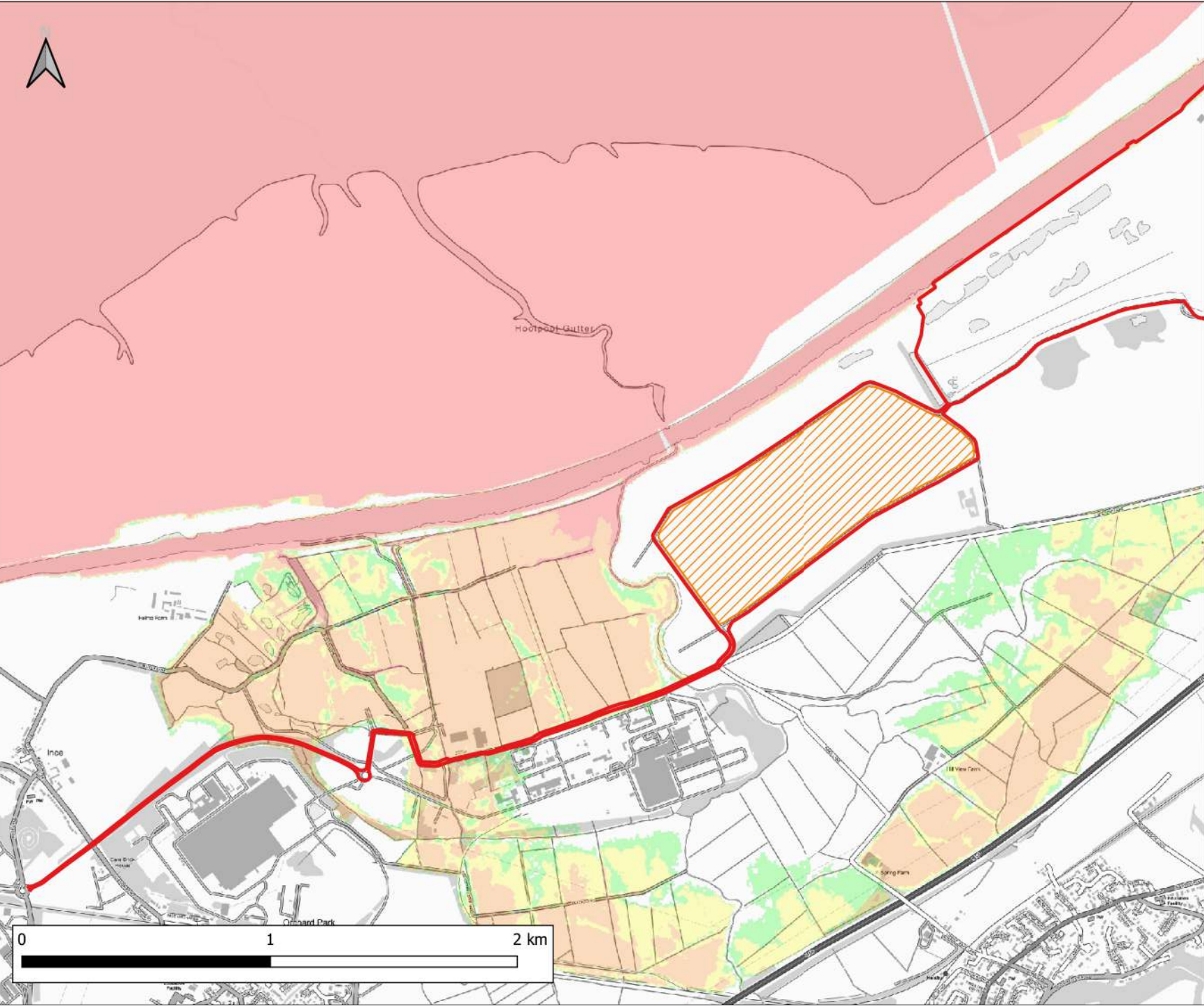
SCHEME:
Frodsham Solar

PLOT TITLE:
River Mersey Maximum Flood Hazard Rating
0.5% AEP Tidal Event
2075 Upper End
Defended Existing Scenario

PLOT STATUS: FINAL DATE: 21-10-2024

DRAWN: MJW CHECKED: AW APPROVED: MW PLOT SCALE: A3 1:15000 AT

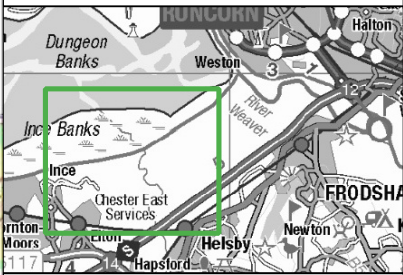
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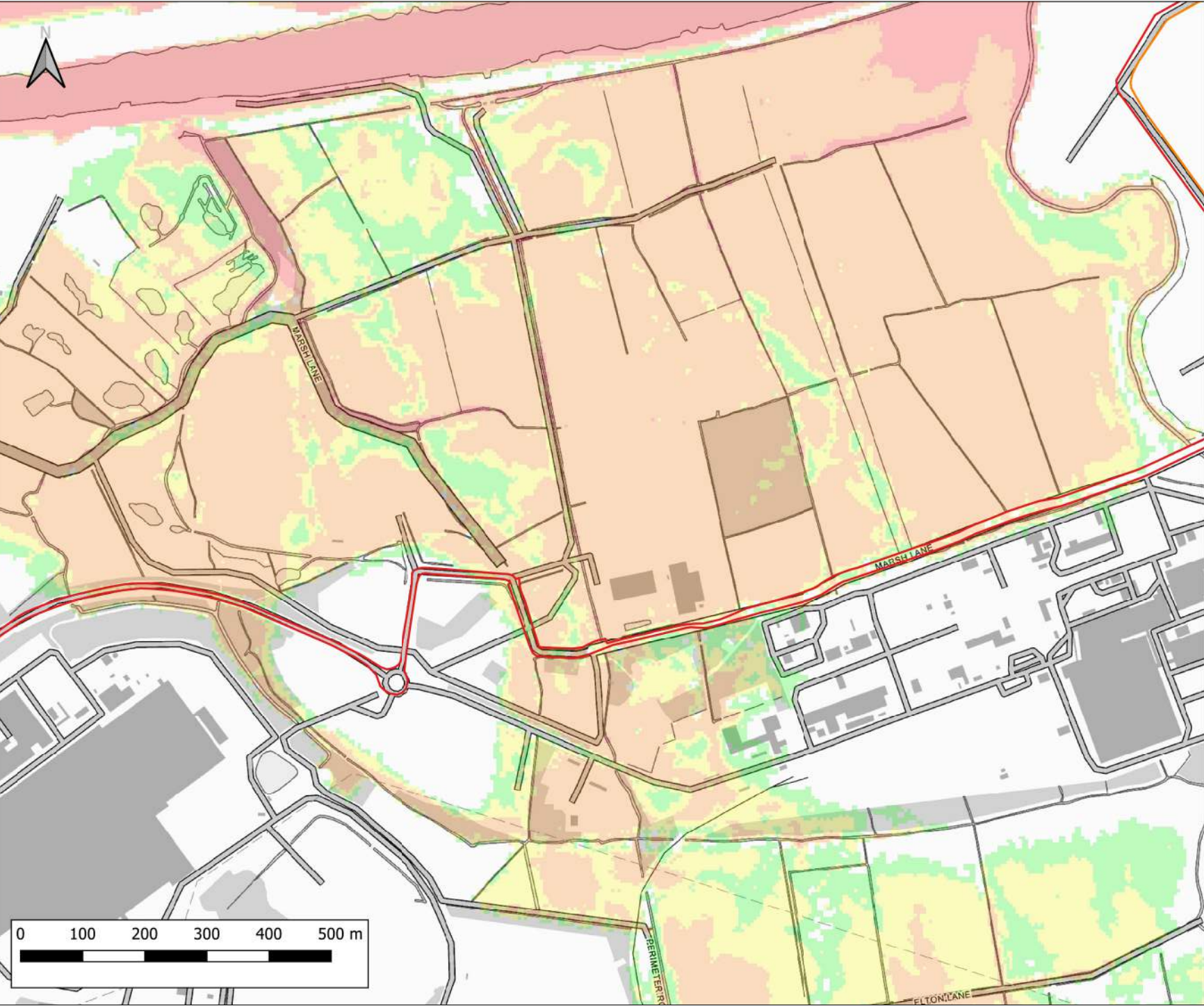
Notes:
1) All dimensions are in metres and all levels in metres above Ordnance Datum unless stated otherwise

LEGEND

- Site Boundary
- Land Not Within Site Boundary
- Maximum Flood Hazard Rating (FD2320)
- Caution
- Danger for Some
- Danger for Most
- Danger for All



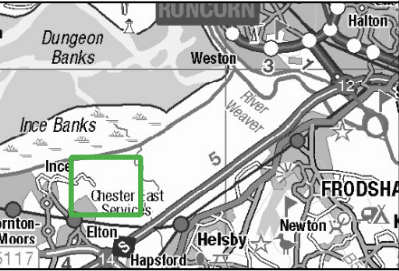
CLIENT:				Frodsham Solar Ltd	
				www.waterco.co.uk	
SCHEME:				Frodsham Solar	
PLOT TITLE:				River Mersey Maximum Flood Hazard Rating 0.5% AEP Tidal Event 2075 Upper End Existing Breach Scenario	
PLOT STATUS:				FINAL	DATE: 21-10-2024
DRAWN: MJW	CHECKED: AW	APPROVED: MW	PLOT: A3	SCALE: 1:15000	AT
PLOT NAME: 14740_MERS_T200HC_2075UE_EXG_BR1_ZUK0_Max				REVISION: -	



Notes:
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LEGEND

- Site Boundary
- Land Not Within Site Boundary
- Maximum Flood Hazard Rating (FD2320)
 - Caution
 - Danger for Some
 - Danger for Most
 - Danger for All



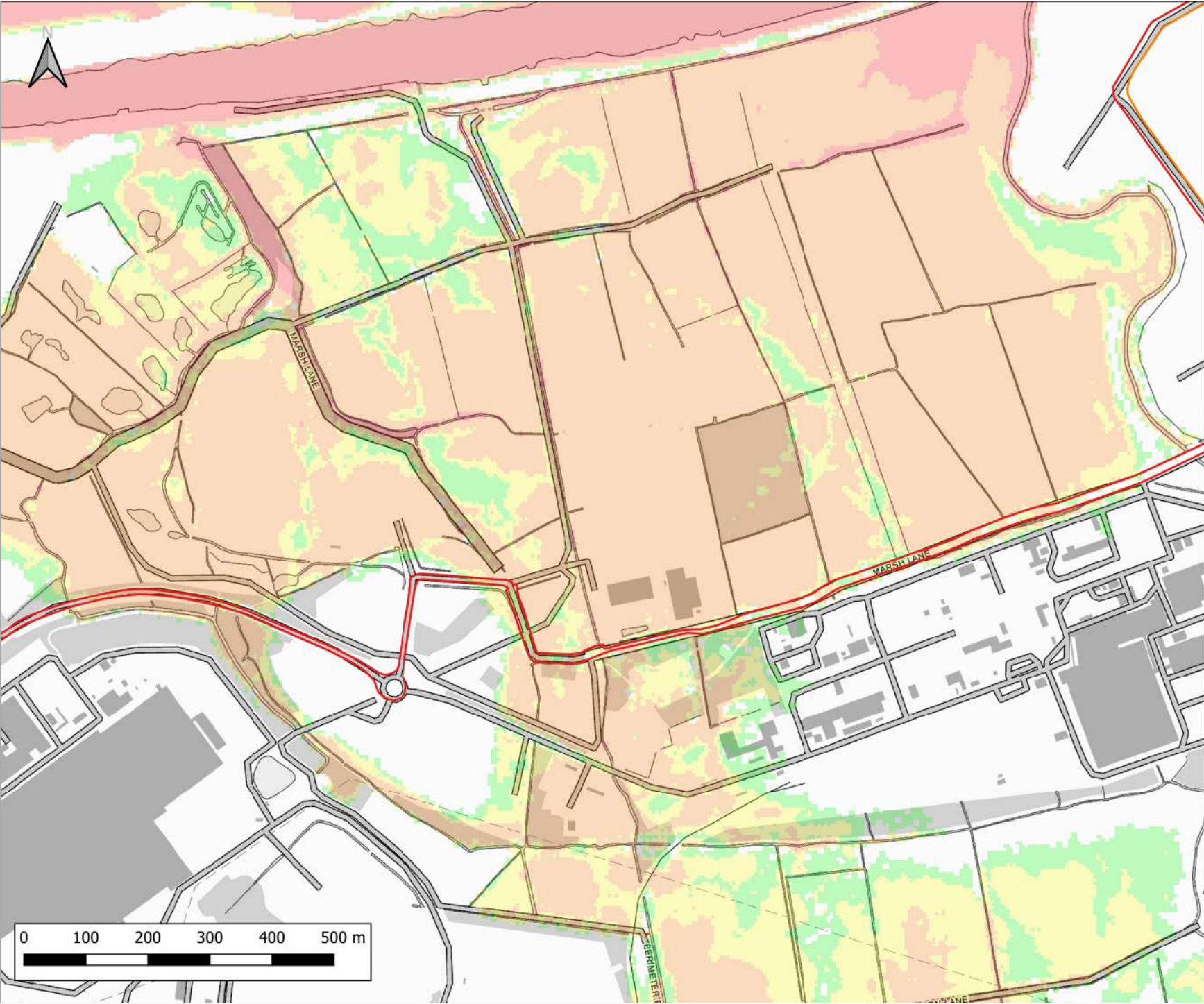
CLIENT: Frodsham Solar Ltd


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SCHEME: Frodsham Solar

PLOT TITLE: River Mersey Maximum Flood Hazard Rating
0.5% AEP Tidal Event
2075 Upper End
Defended Existing Scenario

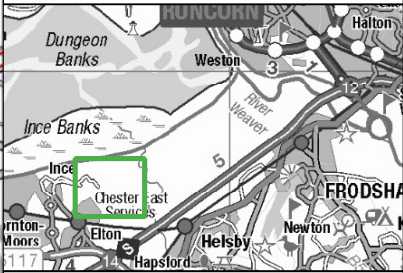
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REVISION:		



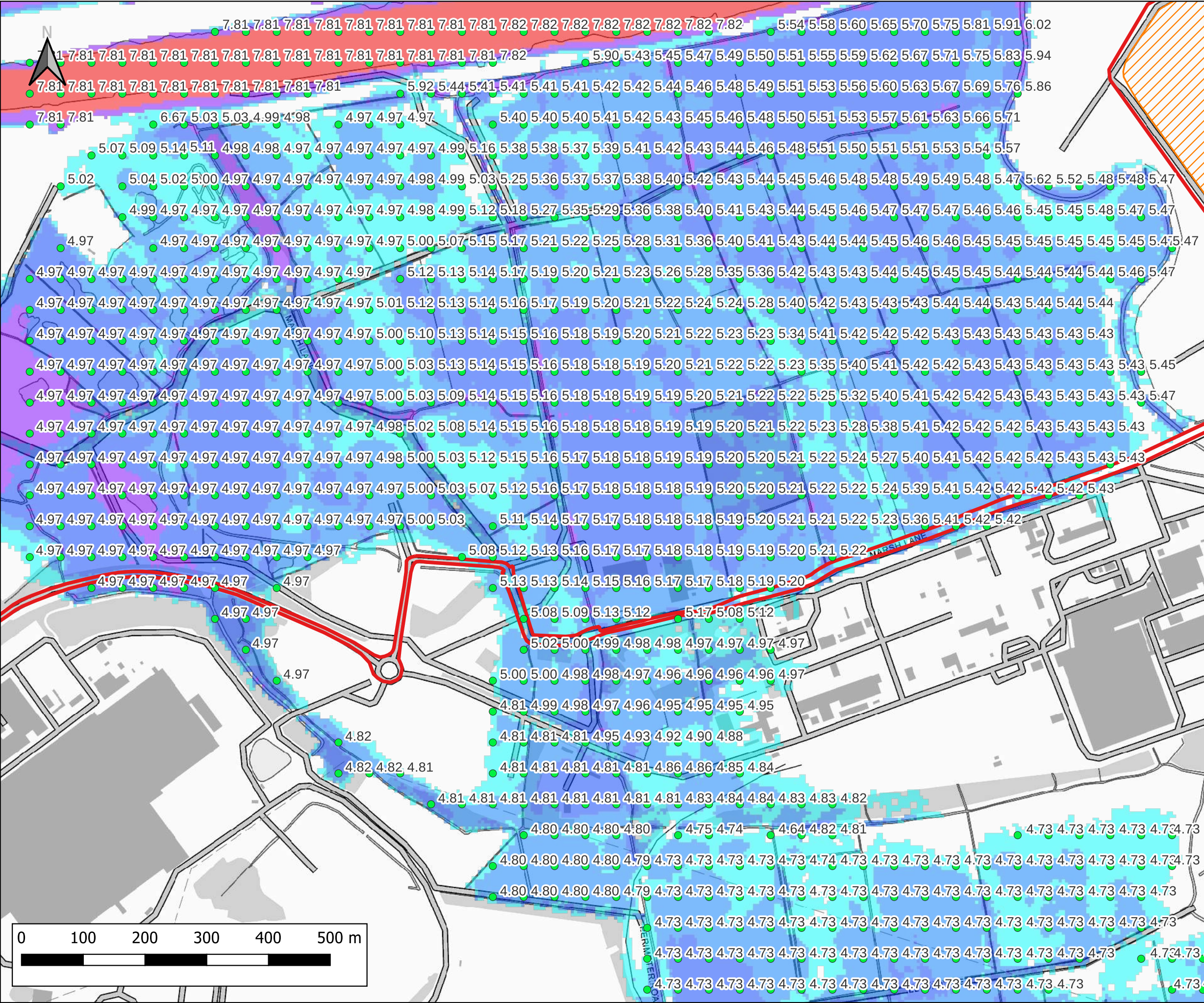
Notes:
1) All dimensions are in metres and all levels in metres above Ordnance Datum unless stated otherwise

LEGEND

- Site Boundary
- Land Not Within Site Boundary
- Maximum Flood Hazard Rating (FD2320)
 - Caution
 - Danger for Some
 - Danger for Most
 - Danger for All



CLIENT:				Frodsham Solar Ltd	
				 www.waterco.co.uk	
SCHEME:				Frodsham Solar	
PLOT TITLE:				River Mersey Maximum Flood Hazard Rating 0.5% AEP Tidal Event 2075 Upper End Existing Breach Scenario	
PLOT STATUS:				FINAL	DATE: 22-10-2024
DRAWN:	CHECKED:	APPROVED:	PLOT:	SCALE:	AT:
MJW	AW	MW	A3:	1:6000	
PLOT NAME:				REVISION:	
14740_MERS_T200HC_2075UE_EXG_BR1_ZUK0_Max					



Notes:

1) All dimensions are in metres and all levels in metres above Ordnance Datum unless stated otherwise

LEGEND

Site Boundary

Land Not Within Site Boundary

Maximum Water Level (m AOD)

Maximum Flood Depth

- <= 0.3m
- 0.3m - 0.6m
- 0.6m - 1.2m
- 1.2m - 2.4m
- > 2.4m

CLIENT:

Frodsham Solar Ltd

www.waterco.co.uk

SCHEME:

Frodsham Solar

PLOT TITLE:

River Mersey Maximum Water Level
0.5% AEP Tidal Event
2075 Upper End
Defended Existing Scenario

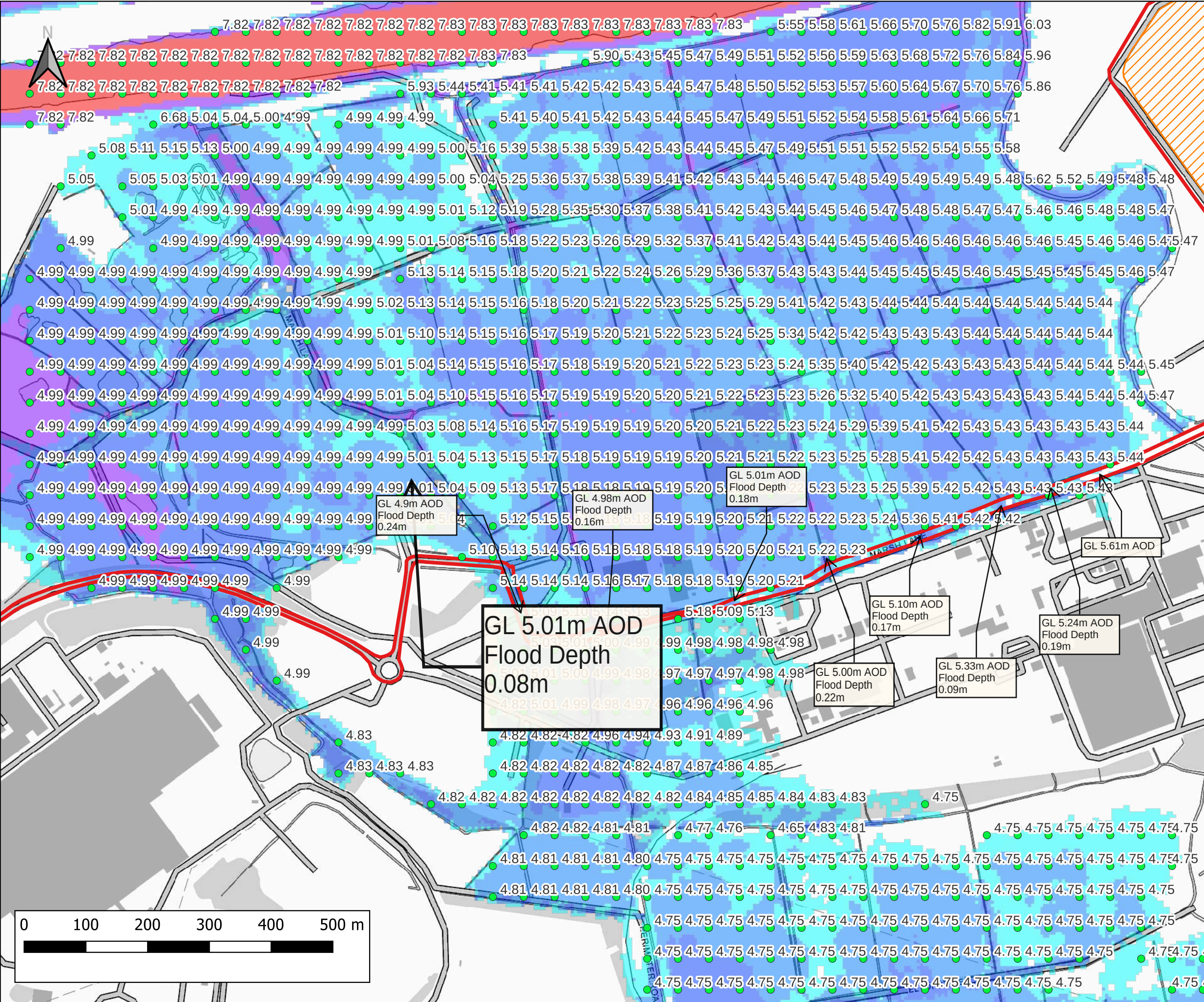
PLOT STATUS:		FINAL		DATE:		22-10-2024	
DRAWN:	CHECKED:	APPROVED:	PLOT SCALE AT A3:				
MJW	AW	MW	1:6000				

PLOT NAME:

14740_MERS_T200HC_2075UE_EXG_DEF_h_Max

REVISION:

-



Notes:
1) All dimensions are in metres and all levels in metres above Ordnance Datum unless stated otherwise

LEGEND

- Site Boundary
- Land Not Within Site Boundary
- Maximum Water Level (m AOD)

Maximum Flood Depth

- <= 0.3m
- 0.3m - 0.6m
- 0.6m - 1.2m
- 1.2m - 2.4m
- > 2.4m

CLIENT:

Frodsham Solar Ltd

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SCHEME:

Frodsham Solar

PLOT TITLE:

River Mersey Maximum Flood Hazard Rating
0.5% AEP Tidal Event
2075 Upper End
Existing Breach Scenario

PLOT STATUS:		DATE:	
FINAL		22-10-2024	

DRAWN:	CHECKED:	APPROVED:	PLOT SCALE AT A3:
MJW]	AW	MW	1:6000

PLOT NAME:	REVISION:
14740_MERS_T200HC_2075UE_EXG_BR1_h_Max	-