Medworth Energy from Waste
Combined Heat and Power Facility

PINS ref. EN010110
Document Reference: Vol 6.3
Revision: 2.0
Deadline: 4
May 2023

Environmental Statement
Chapter 12 Hydrology Figures

Regulation reference: The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 Regulation 5(2)(a)

We inspire with energy.

544000
545000
546000
547000
548000
549000

310000
309000
308000
307000
306000

N

See inset

Key

- Order limits
- EfW CHP Facility Site
- CHP Connection
- Temporary Construction Compound
- Grid Connection
- Access Improvements
- Water Connections
- Study Area
- Main River
- Ponds

King's Lynn IDB

- Maintained watercourse
- Culvert

Hundred of Wisbech IDB

- Maintained watercourse
- Culvert

0 200 400 600 800 1,000 m

Scale at A3: 1:20,000

Client

Medworth CHP Limited
Medworth Energy from Waste Combined Heat and Power Facility DCO
Environmental Statement
Chapter 12 - Hydrology

Figure 12.1
Proposed Development Location and Study Area

May 2023

41310-WOOD-XX-XX-FG-OW-0003_S0_P01

P:\Projects\41310 Wisbech\Design_Technical - GIS\Drawings\ArcGIS\Workspaces\41310-WOOD-XX-XX-FG-OW-0003_S0_P01.mxd Originator: vicki.smith

544000
546000
548000
310000
308000
306000
N

Key

Order limits

Study Area

Elevation (mAOD)

< -3
-3 - -2
-2 - -1
-1 - 0
0 - 1
1 - 2
2 - 3
3 - 4
4 - 5
5 - 6
6 - 7
7 - 8
8 - 9
9 - 10
10 - 11
11 - 12
12 - 13
> 13

0 200 400 600 800 1,000 1,200 m

Scale at A3: 1:22,000

Client

Medworth CHP Limited
Medworth Energy from Waste Combined Heat and Power Facility DCO
Environmental Statement
Chapter 12 - Hydrology

Figure 12.2
LiDAR topography elevations (Proposed Development)

June 2022

wood.

41310-Shr419_v2

H:\Projects\41310 Wisbech\Design_Technical - GIS\Drawings\ArcGIS\Workspaces\41310-Shr419_v2.mxd Originator: jacqui.parkin

544000
545000
546000
547000
548000
549000

310000
309000
308000
307000
306000

N

See inset

Pumping station

Gravity outfall and overspill

Key

- Order limits
- EfW CHP Facility Site
- CHP Connection
- Temporary Construction Compound
- Grid Connection
- Access Improvements
- Water Connections
- Study Area
- Ordinary Water Crossings
- Main River
- Ordinary (non-IDB) watercourses
- Watercourse crossing (underground cable)
- Watercourse crossing (underground cable)
- Maintained watercourse
- Culvert
- Maintained watercourses
- Culverts
- Ponds
- Other structures

0 200 400 600 800 1,000 m

Scale at A3: 1:20,000

Client

Medworth CHP Limited
Medworth Energy from Waste Combined Heat and Power Facility DCO
Environmental Statement
Chapter 12 - Hydrology

Figure 12.3i
Water environment (Proposed Development)

May 2023

41310-WOOD-XX-XX-FG-OW-0004_S0_P01

P:\Projects\41310 Wisbech\Design_Technical - GIS\Drawings\ArcGIS\Workspaces\41310-WOOD-XX-XX-FG-OW-0004_S0_P01.mxd Originator: vicki.smith

545000

546000

547000

309000

308000

N

Key

- Order limits
- EfW CHP Facility Site
- CHP Connection
- Temporary Construction Compound
- Grid Connection
- Access Improvements
- Water Connections
- Study Area
- Main River
- Ordinary Water Crossings
- Ordinary (non-IDB) watercourses
- Watercourse crossing (underground cable)
- Watercourse crossing (underground cable)

King's Lynn IDB

- Maintained watercourse
- Culvert

Hundred of Wisbech IDB

- Maintained watercourses
- Culverts
- Ponds
- Other structures

0 100 200 300 400 m

Scale at A3: 1:8,000

Client

Medworth CHP Limited
Medworth Energy from Waste Combined Heat and Power Facility DCO
Environmental Statement
Chapter 12 - Hydrology

Figure 12.3ii
Water environment (EfW CHP Facility Site and surroundings)

May 2023

P:\Projects\41310 Wisbech\Design_Technical - GI\Drawings\ArcGIS\Workspaces\41310-WOOD-XX-XX-FG-OW-0005_S0_P01.mxd Originator: vicki.smith

544000 545000 546000 547000 548000 549000

310000 309000 308000 307000 306000

N

Key

- Order limits
- EfW CHP Facility Site
- CHP Connection
- Temporary Construction Compound
- Grid Connection
- Access Improvements
- Water Connections
- Study Area

Internal Drainage Board

- Hundred of Wisbech
- Kings Lynn
- North Level
- Waldersey

0 200 400 600 800 1,000 1,200 m

Scale at A3: 1:20,000

Client

Medworth CHP Limited
Medworth Energy from Waste Combined Heat and Power Facility DCO
Environmental Statement
Chapter 12 - Hydrology

Figure 12.4
Internal Drainage Board Districts

June 2022

wood.

41310-Shr422_v2

H:\Projects\41310 Wisbech\Design_Technical - GI\Drawings\ArcGIS\Workspaces\41310-Shr422_v2.mxd Originator: jacqui.parkin

544000
545000
546000
547000
548000
549000

310000
309000
308000
307000
306000

N

AB1

Pumping station

1

Key

- Order limits
- EfW CHP Facility Site
- CHP Connection
- Temporary Construction Compound
- Grid Connection
- Access Improvements
- Water Connections
- Study Area

Receptors

- AB - Water resource Receptors (abstractions)
- P - Aquatic environment Receptors (ponds and lakes)

WC- Aquatic environment receptors (watercourses)

- WC1 River Nene
- WC2 Hundred of Wisbech IDB maintained watercourse
- WC3 King's Lynn IDB maintained watercourse

C - Aquatic environment receptors (nature conservation sites)

- C3 River Nene CWS
- Ordinary watercourses

0 200 400 600 800 1,000 m

Scale at A3: 1:20,000

Client

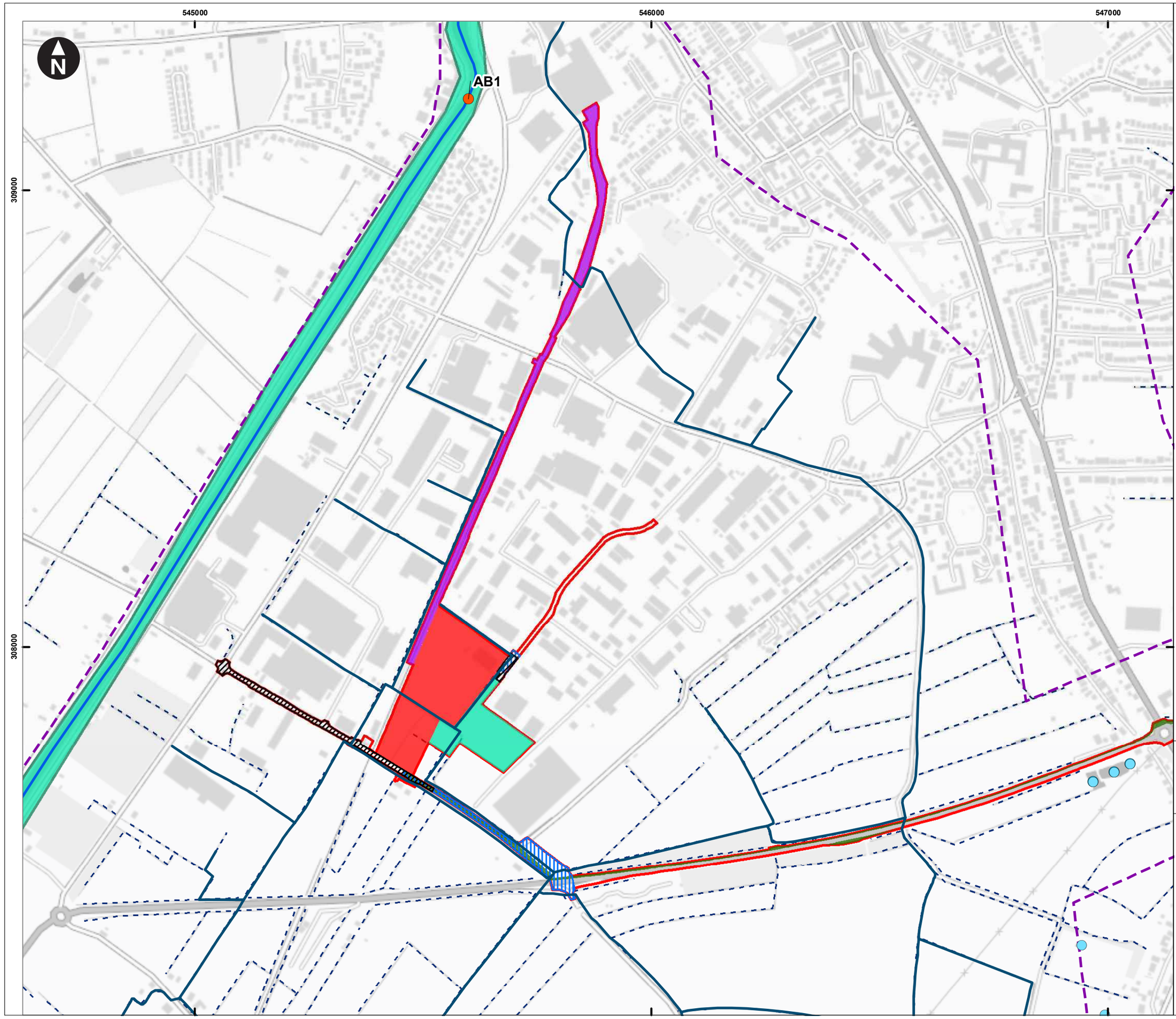
Medworth CHP Limited
Medworth Energy from Waste Combined Heat and Power Facility DCO
Environmental Statement
Chapter 12 - Hydrology

Figure 12.5i
Hydrological receptors within the study area (Proposed Development)

May 2023

41310-WOOD-XX-XX-FG-OW-0006_S0_P01

P:\Projects\41310 Wisbech\Design_Technical - GIS\Drawings\ArcGIS\Workspaces\41310-WOOD-XX-XX-FG-OW-0006_S0_P01.mxd Originator: vicki.smith



Key

- Order limits
- EfW CHP Facility Site
- CHP Connection
- Temporary Construction Compound
- Grid Connection
- Access Improvements
- Water Connections
- Study Area
- Ordinary watercourses

Receptors

- AB - Water resource Receptors (abstractions)
- P - Aquatic environment Receptors (ponds and lakes)

WC- Aquatic environment receptors (watercourses)

- WC1 River Nene
- WC2 Hundred of Wisbech IDB maintained watercourse
- WC3 King's Lynn IDB maintained watercourse

C - Aquatic environment receptors (nature conservation sites)

- C3 River Nene CWS

0 100 200 300 400 m

Scale at A3: 1:8,000

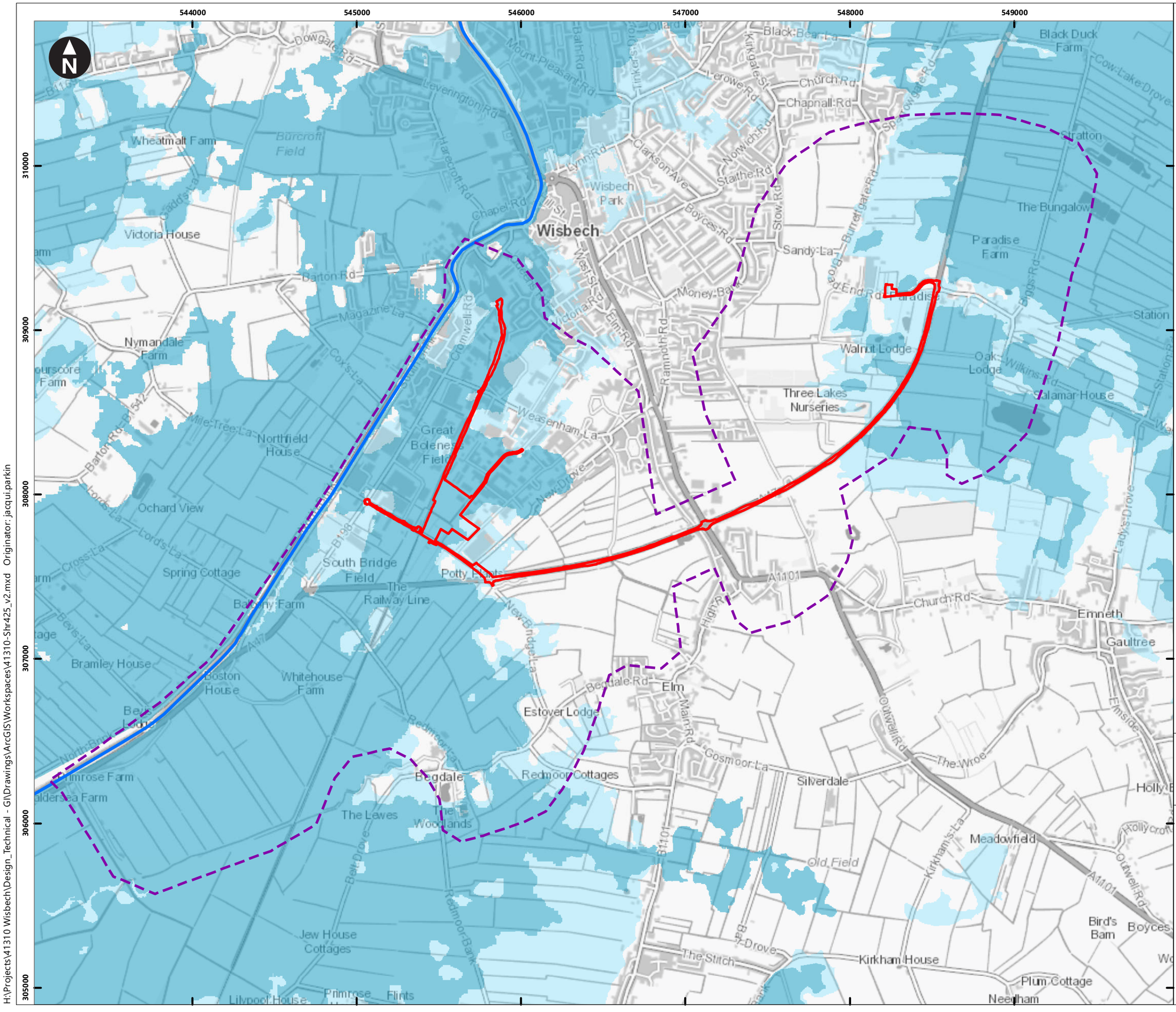
Client

Medworth CHP Limited
Medworth Energy from Waste Combined Heat and Power Facility DCO
Environmental Statement
Chapter 12 - Hydrology

Figure 12.5ii
Hydrological receptors within the study area (EfW CHP Facility Site and surroundings)

May 2023

P:\Projects\41310 Wisbech\Design_Technical - GIS\Drawings\ArcGIS\Workspaces\41310-WOOD-XX-XX-FG-OW-0007_S0_P01.mxd Originator: vicki.smith



Client

Medworth CHP Limited
Medworth Energy from Waste Combined Heat and Power Facility DCO
Environment Statement
Chapter 12 - Hydrology

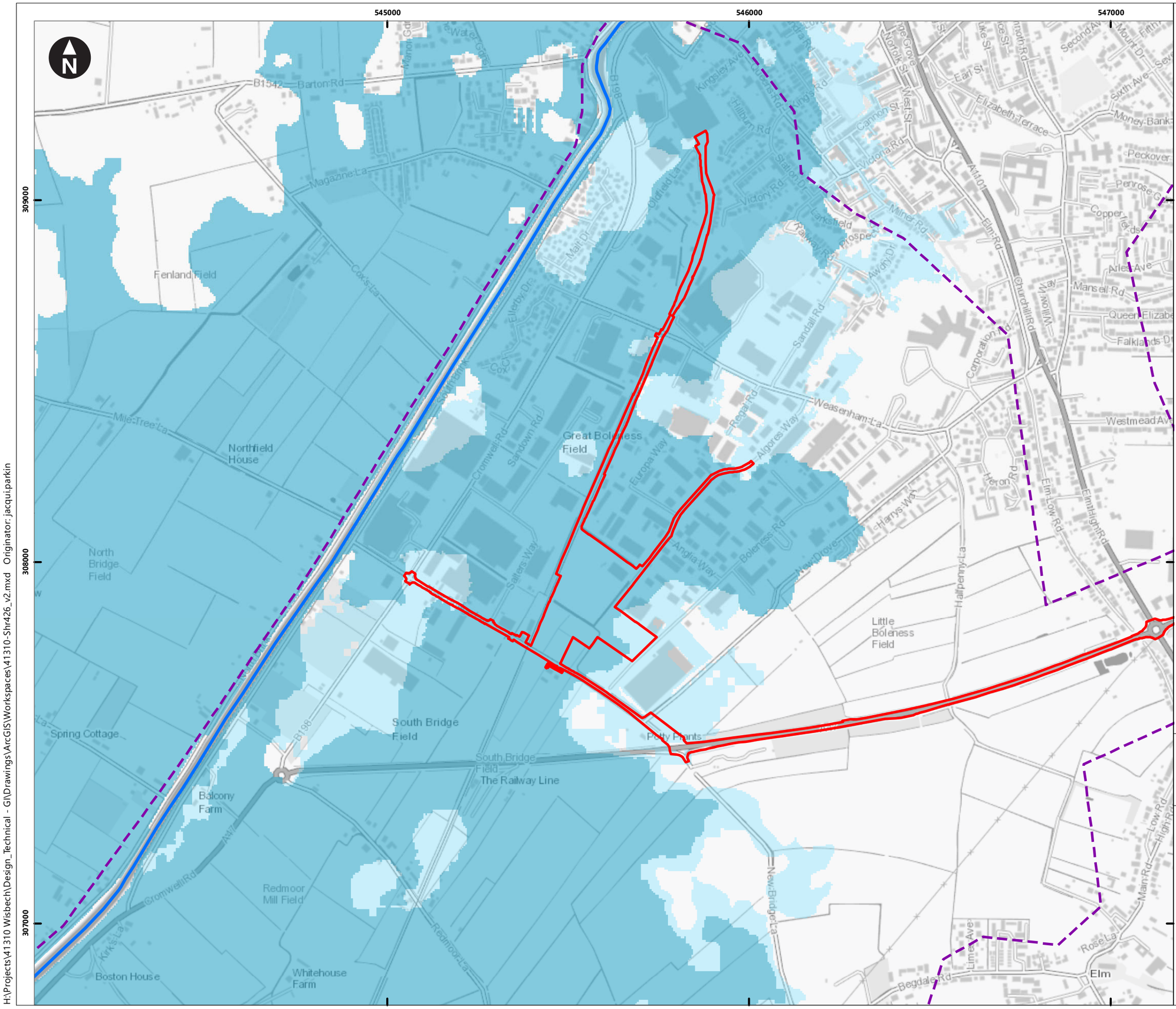
Figure 12.6i
Environment Agency Flood Map for Planning (Proposed Development)

June 2022

wood.

41310-Shr425_v2

H:\Projects\41310 Wisbech\Design_Technical - GI\Drawings\ArcGIS\Workspaces\41310-Shr425_v2.mxd Originator: jacqui.parkin



Key

- Order limits
- Study Area
- Environment Agency Main River
- Flood Zone 3
- Flood Zone 2
- Flood Zone 1

0 200 400 600 m

Scale at A3: 1:10,000

Client

Medworth CHP Limited
Medworth Energy from Waste Combined Heat and Power Facility DCO
Environment Statement
Chapter 12 - Hydrology

Figure 12.6ii
Environment Agency Flood Map for Planning (EfW CHP Facility Site and surroundings)

June 2022

wood.

41310-Shr426_v2

H:\Projects\41310 Wisbech\Design_Technical - G\Drawings\ArcGIS\Workspaces\41310-Shr426_v2.mxd Originator: jacqui.parkin

545000 545500 546000 546500 547000

309000 308500 308000 307500

N

Key

Order limits

Study Area

Risk of Flooding from Surface Water - Extent

> 3.33% AEP - High risk of surface water flooding

3.33% AEP to 1% AEP - Medium risk of surface water flooding

1% AEP to 0.1% AEP - Low risk of surface water flooding

< 0.1% AEP - Very low risk of surface water flooding

0 100 200 300 400 m

Scale at A3: 1:8,000

Client

Medworth CHP Limited
Medworth Energy from Waste Combined Heat and Power Facility DCO
Environmental Statement
Chapter 12 - Hydrology

Figure 12.7i
Environment Agency Surface Water Flood Risk Map (EfW CHP Facility Site and surroundings)

June 2022

wood.

41310-Shr427_v2

H:\Projects\41310 Wisbech\Design_Technical - GI\Drawings\ArcGIS\Workspaces\41310-Shr427_v2.mxd Originator: jacqui.parkin

546500 547000 547500 548000 548500

309500 309000 308500 308000 307500

N

Key

Order limits

Study Area

Risk of Flooding from Surface Water - Extent

> 3.33% AEP - High risk of surface water flooding

3.33% AEP to 1% AEP - Medium risk of surface water flooding

1% AEP to 0.1% AEP - Low risk of surface water flooding

< 0.1% AEP - Very low risk of surface water flooding

0 100 200 300 400 m

Scale at A3: 1:8,000

Client

Medworth CHP Limited
Medworth Energy from Waste Combined Heat and Power Facility DCO
Environmental Statement
Chapter 12 - Hydrology

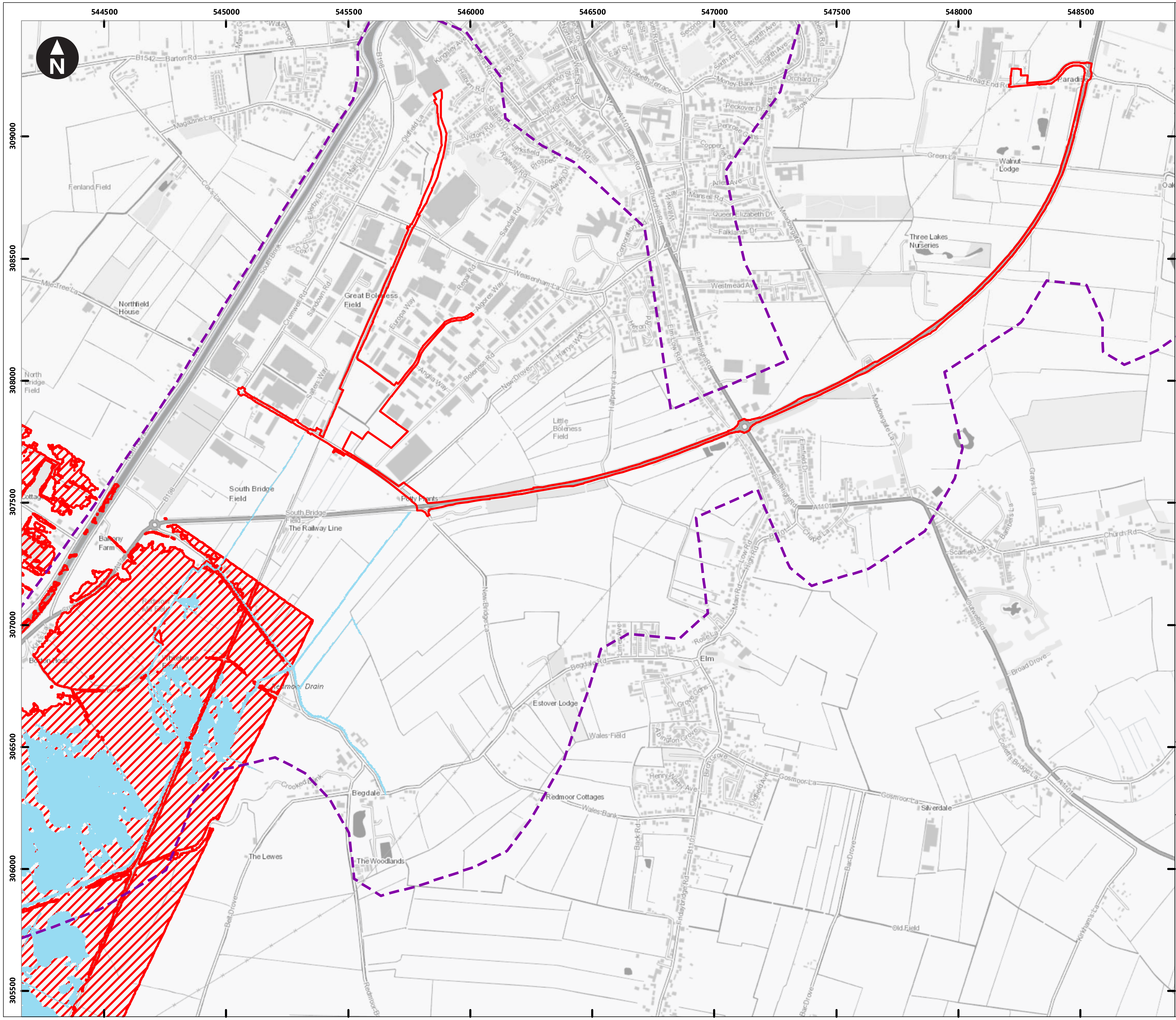
Figure 12.7ii
Environment Agency Surface Water Flood Risk Map (Grid Connection)

June 2022

wood.

41310-Shr428_v2

H:\Projects\41310 Wisbech\Design_Technical - G\Drawings\ArcGIS\Workspaces\41310-Shr428_v2.mxd Originator: jacqui.parkin



H:\Projects\41310 Wisbech\Design_Technical - GI\Drawings\ArcGIS\Workspaces\41310-Shr429_v2.mxd Originator: jacqui.parkin

Key

Order limits

Study Area

Risk of Flooding from Reservoirs - Extent

Normal river levels

Also flooding from rivers

0 200 400 600 800 m

Scale at A3: 1:15,000

Client

Medworth CHP Limited
Medworth Energy from Waste Combined Heat and Power Facility DCO
Environmental Statement
Chapter 12 - Hydrology

Figure 12.8
Environment Agency Reservoir Flood Risk Map

June 2022

wood.

41310-Shr429_v2