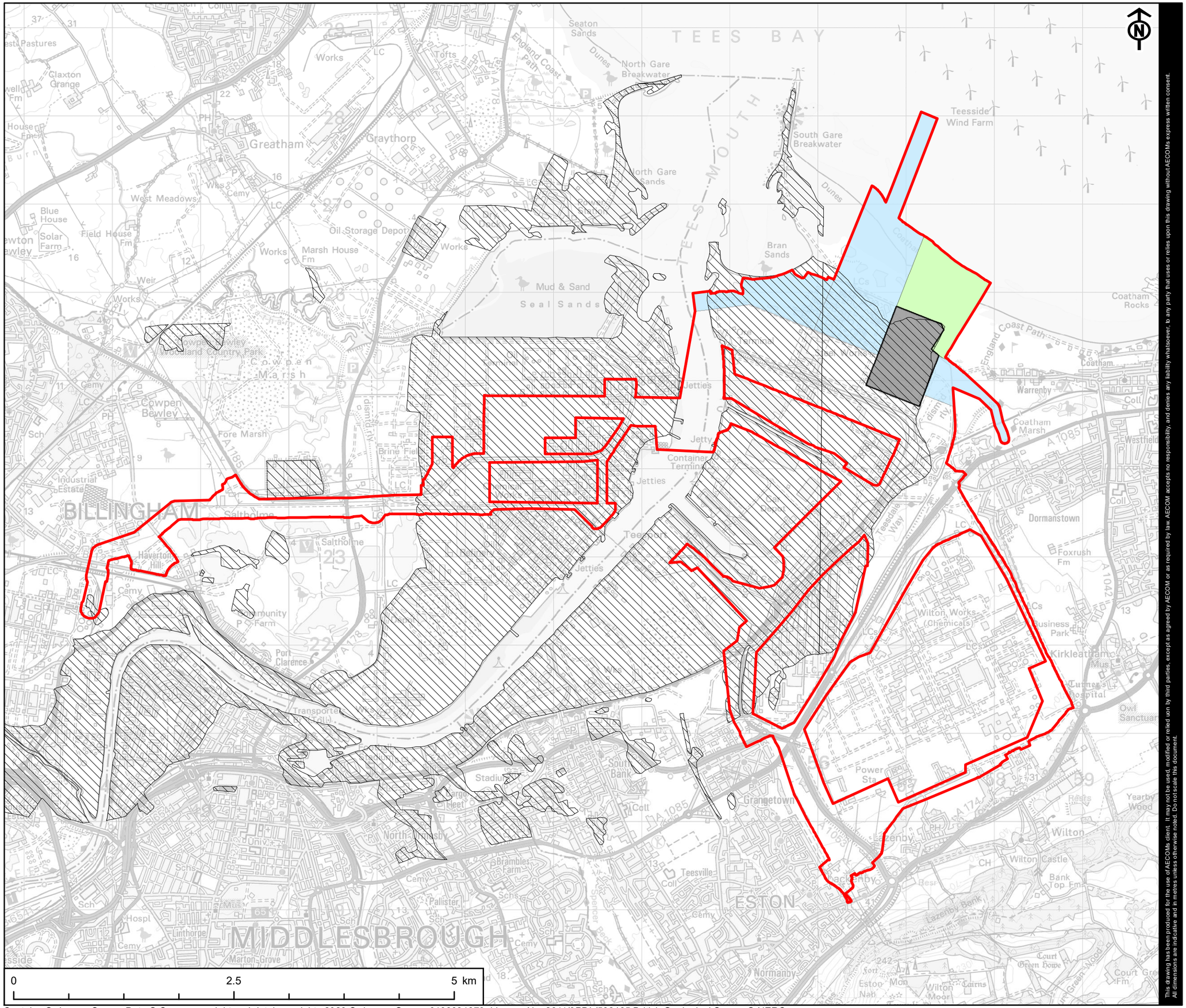
Project Management Initials: RT Designer: LC Checked: AR Approved: CC



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AECOM

PROJECT
NET ZERO TEESSIDE

CLIENT
NZT POWER AND NZNS STORAGE

KEY

- Site Boundary
- Power, Capture and Compressor Site
- Water Connection Corridors
- CO_2 Export Pipeline

Artificial Geology (BGS 50k)

- Made Ground (Undivided) - Artificial Deposit

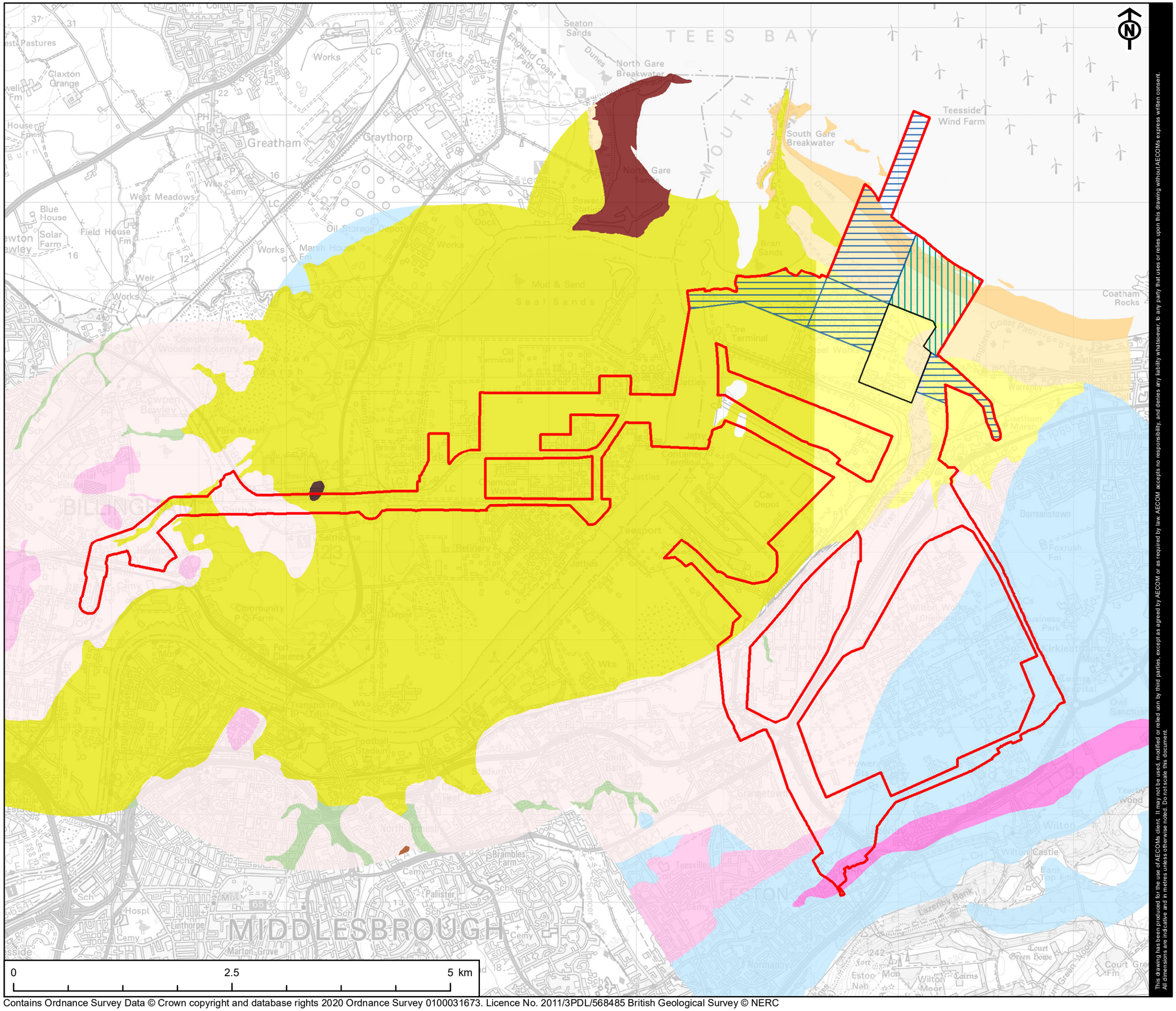
TITLE
FIGURE 10-1
ARTIFICIAL GEOLOGY

REFERENCE
NZT_200618_PEI_S_10-1_v3

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PROJECT
NET ZERO TEESSIDE

CLIENT
NZT POWER AND NZNS STORAGE

KEY

- Site Boundary
- Power, Capture and Compressor Site
- Water Connection Corridors
- CO_2 Export Pipeline

Superficial Geology (BGS 50k)

- Alluvium - Clay, Silt, Sand and Gravel
- Tidal Flat Deposits - Sand and Silt
- Tidal Flat Deposits - Sand, Silt and Clay
- Glaciofluvial Deposits, Devensian - Sand and Gravel
- Glaciolacustrine Deposits, Devensian - Sand
- Glaciolacustrine Deposits, Devensian - Clay and Silt
- Till, Devensian - Diamicton
- Blown Sand - Sand
- Beach and Tidal Flat Deposits (Undifferentiated) - Sand
- Lacustrine Deposits - Clay and Silt
- Marine Beach Deposits - Sand and Gravel
- Peat - Peat

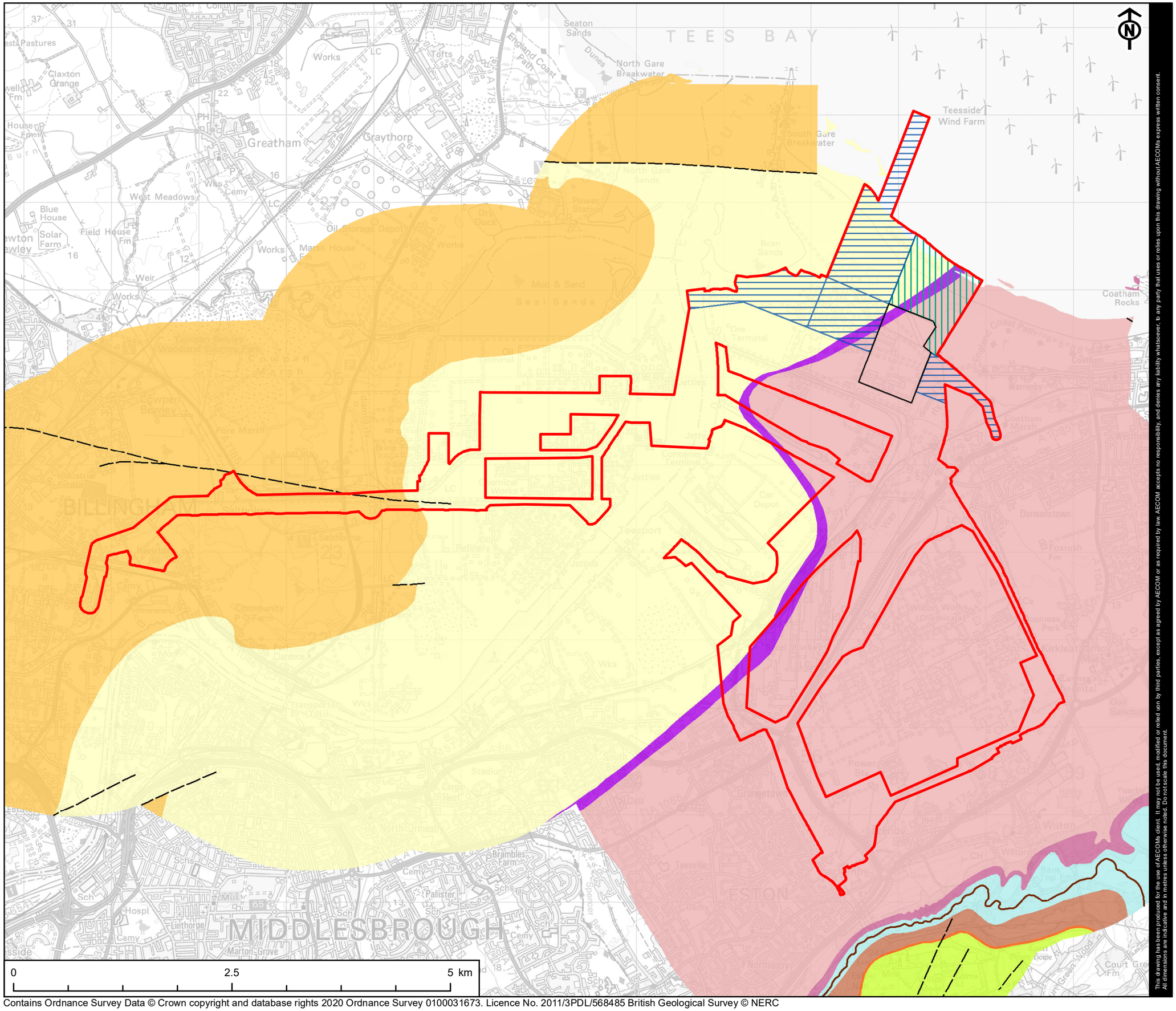
TITLE
FIGURE 10-2
SUPERFICIAL GEOLOGY

REFERENCE
NZT_200618_PEI_S_10-2_v3

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PROJECT
NET ZERO TEESSIDE

CLIENT
NZT POWER AND NZNS STORAGE

KEY

- Site Boundary
- Power, Capture and Compressor Site
- Water Connection Corridors
- CO_2 Export Pipeline

Linear Geology (BGS 50k)

- Fault, inferred, displacement unknown
- Ironstone bed, observed

Bedrock Geology (BGS 50k)

- Dogger Formation - Sandstone
- Saltwick Formation and Cloughton Formation (Undifferentiated) - Sandstone, Siltstone and Mudstone
- Whitby Mudstone Formation - Mudstone
- Cleveland Ironstone Formation - Mudstone, Sandstone and Ironstone
- Staithes Sandstone Formation - Sandstone
- Redcar Mudstone Formation - Mudstone
- Penarth Group - Mudstone
- Mercia Mudstone Group - Mudstone
- Sherwood Sandstone Group - Sandstone

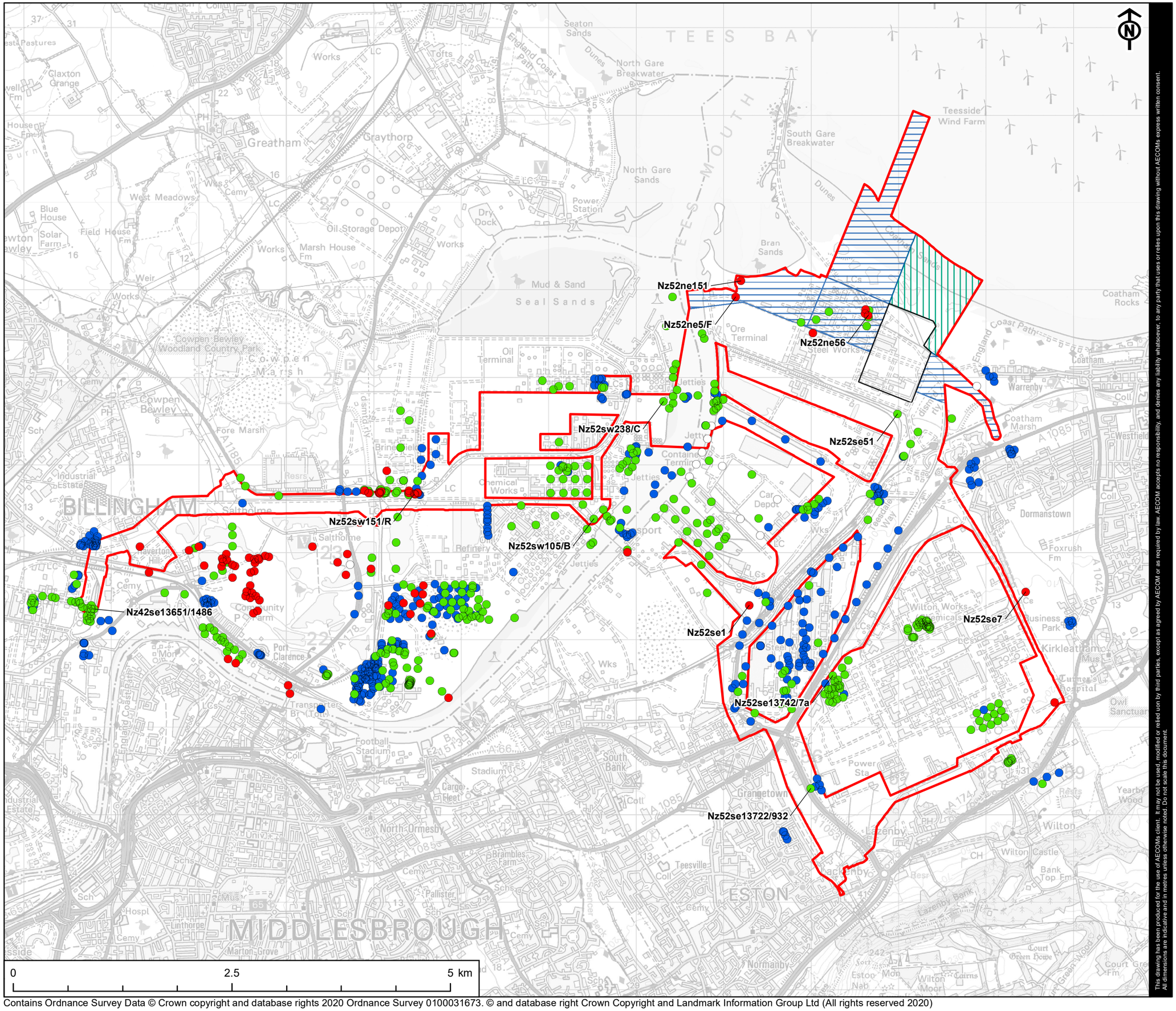
TITLE
FIGURE 10-3
BEDROCK GEOLOGY

REFERENCE
NZT_200618_PEI_S_10-3_v3

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PROJECT
NET ZERO TEESSIDE

CLIENT
NZT POWER AND NZNS STORAGE

KEY

- Site Boundary
- Power, Capture and Compressor Site
- Water Connection Corridors
- CO_2 Export Pipeline

BGS Borehole (Depth m)

- 0 - 10m
- 10 - 30m
- 30m +
- Other

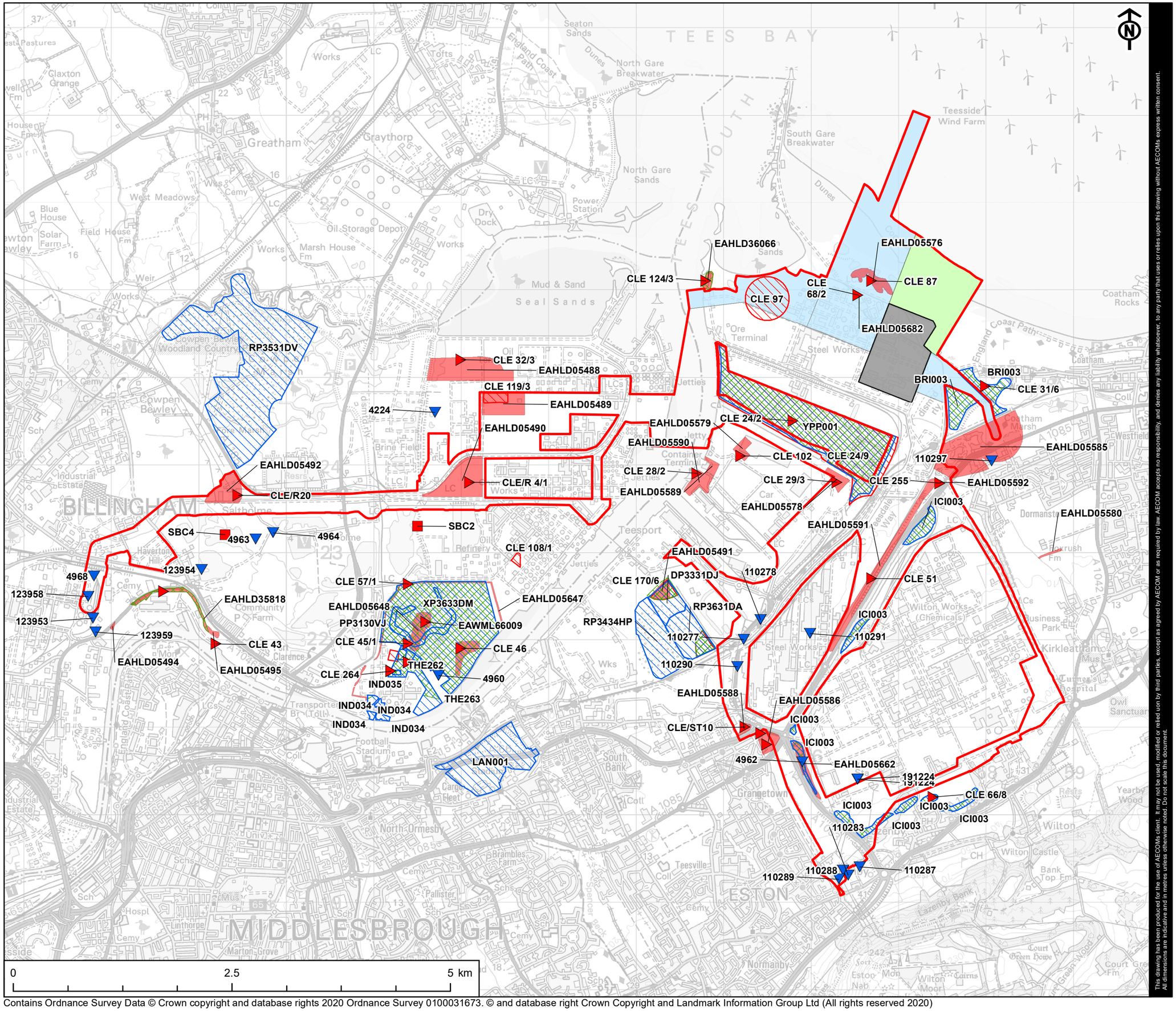
TITLE
FIGURE 10-4
BGS BOREHOLES

REFERENCE
NZT_200618_PEI_10-4_v3

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NZT POWER AND NZNS STORAGE

KEY

- Site Boundary
- Power, Capture and Compressor Site
- Water Connection Corridors
- CO_2 Export Pipeline
- BGS Recorded Mineral Site
- Local Authority Recorded Landfill Site Location
- Registered Landfill Site
- Registered Landfill Site
- EA Permitted Waste Sites Authorised Landfill
- Licensed Waste Management Facility Location (Landfill Boundary)
- EA Historic Landfill

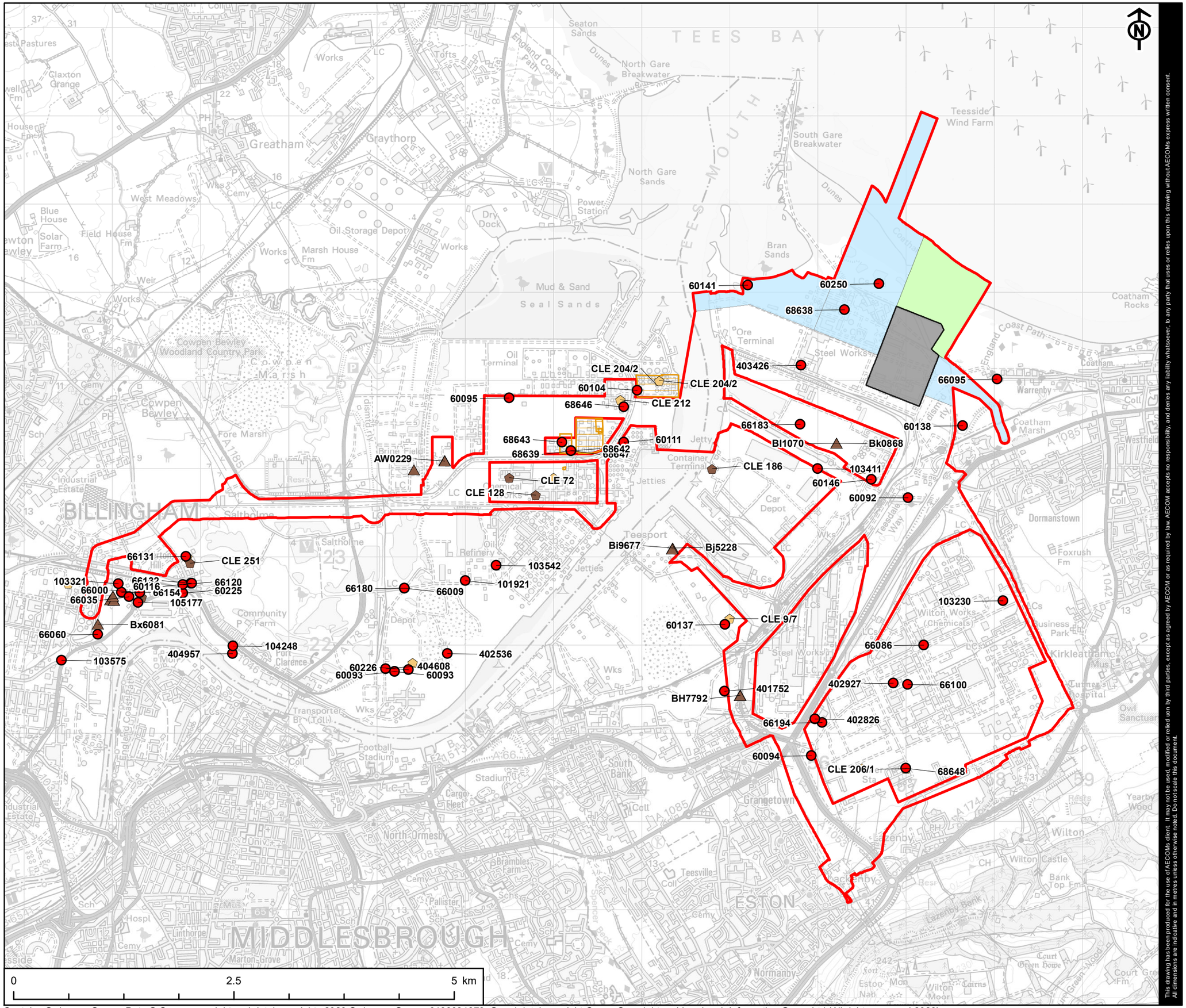
TITLE
FIGURE 10-5
QUARRYING AND LANDFILL

REFERENCE
NZT_200618_PEI_S_10-5_v3

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DATE
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0 2.5 5 km

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PROJECT
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NZT POWER AND NZNS STORAGE

KEY

- Site Boundary
- Power, Capture and Compressor Site
- Water Connection Corridors
- CO_2 Export Pipeline
- Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facility Location
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site
- Registered Waste Treatment or Disposal Site

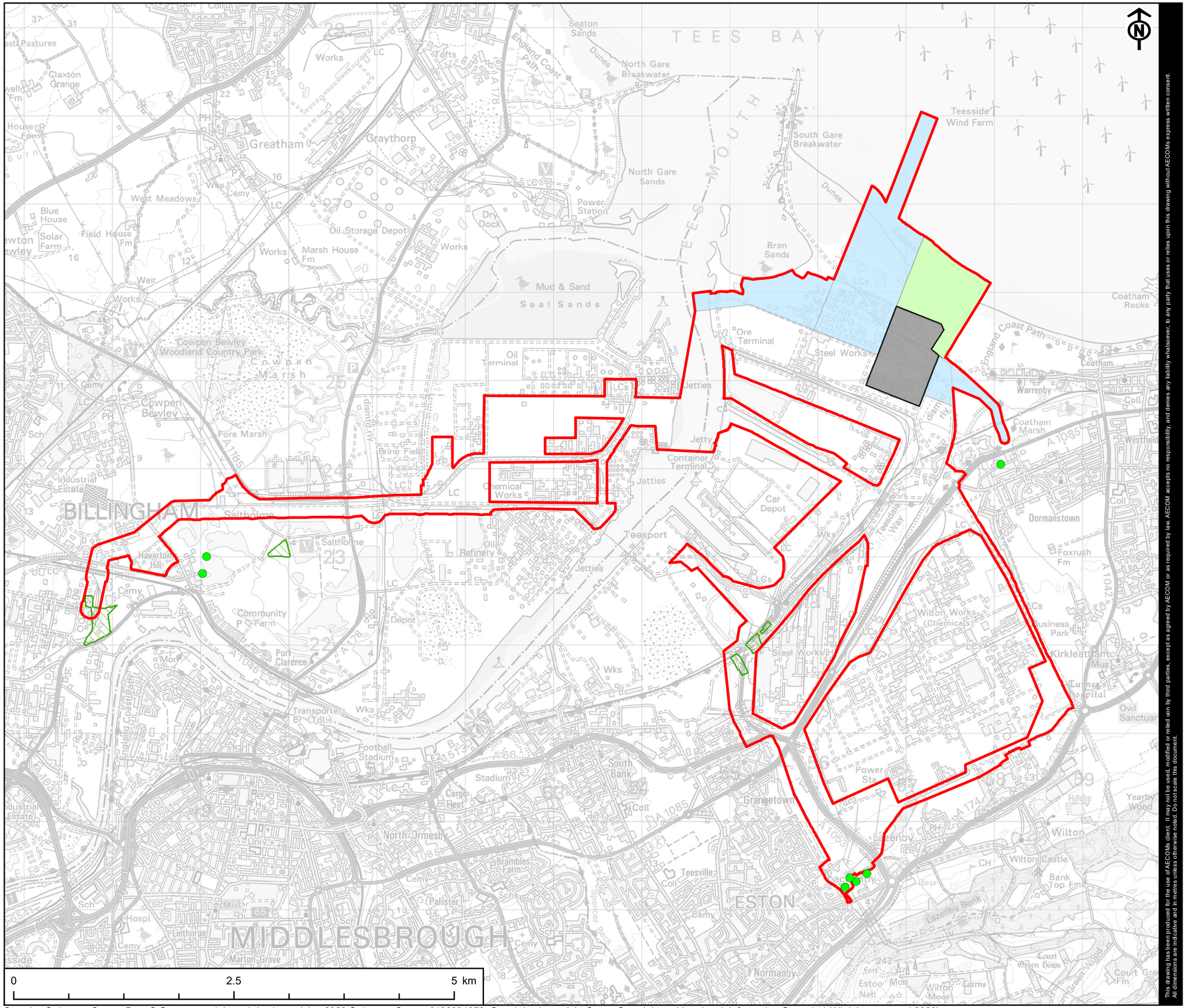
TITLE
FIGURE 10-6
WASTE MANAGEMENT

REFERENCE
NZT_200618_PEI_S_10-6_v3

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PROJECT
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NZT POWER AND NZNS STORAGE

KEY

- Site Boundary
- Power, Capture and Compressor Site
- Water Connection Corridors
- CO_2 Export Pipeline
- Potentially Infilled Land (Non Water)
- Potentially Infilled Land (Non Water)

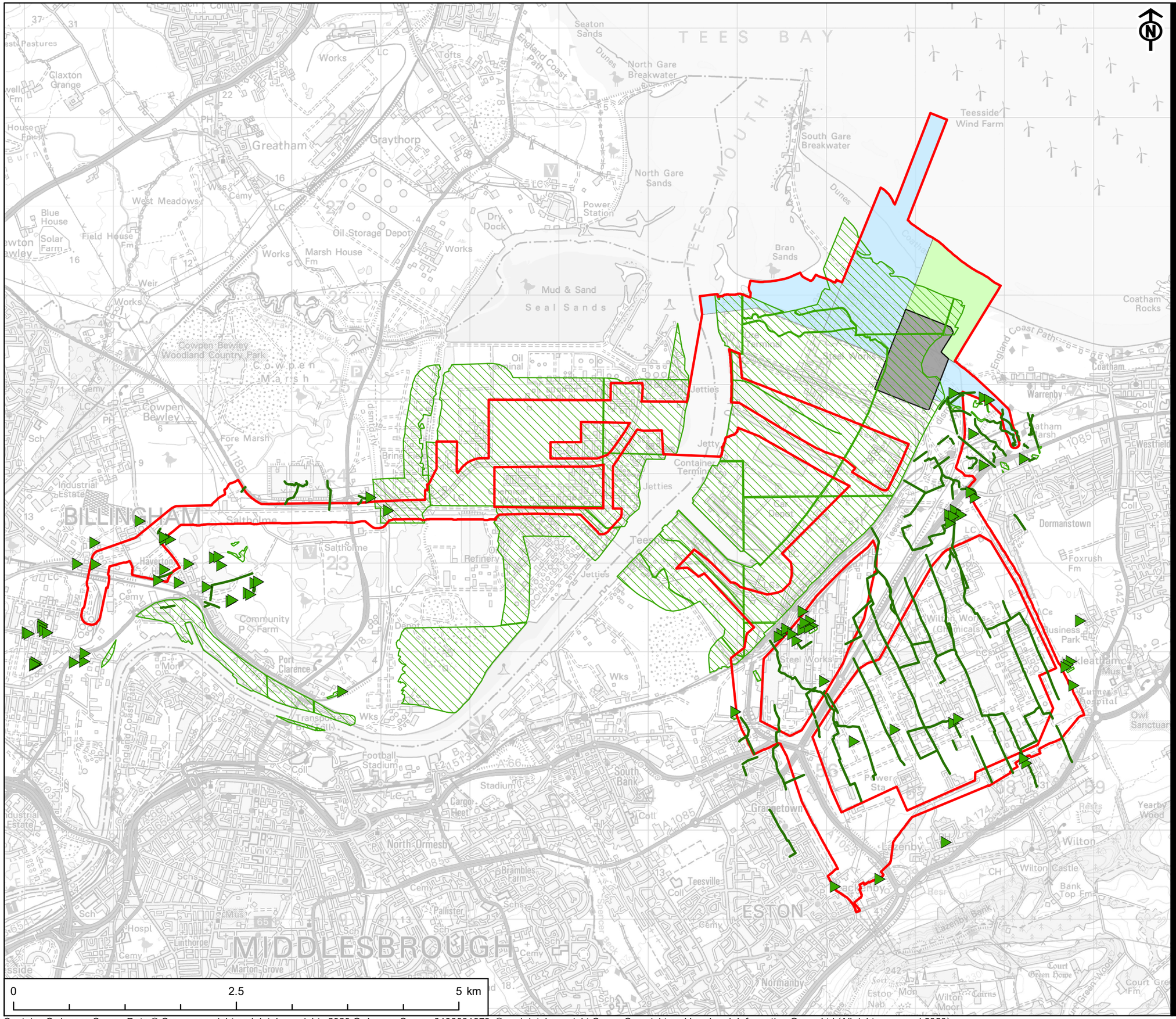
TITLE
FIGURE 10-7
INFILLED LAND - NON WATER

REFERENCE
NZT_200618_PEI_S_10-7_v3

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0 2.5 5 km

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AECOM

PROJECT
NET ZERO TEESSIDE

CLIENT
NZT POWER AND NZNS STORAGE

KEY

- Site Boundary
- Power, Capture and Compressor Site
- Water Connection Corridors
- CO_2 Export
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)

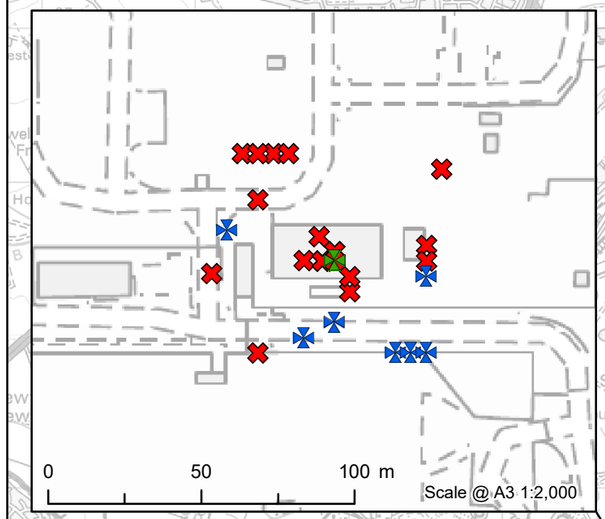
TITLE
FIGURE 10-8
INFILLED LAND - WATER

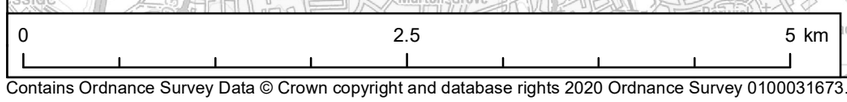
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NZT_200618_PEI_S_10-8_v3

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PROJECT
NET ZERO TEESSIDE

CLIENT
NZT POWER AND NZNS STORAGE

KEY

- Site Boundary
- Power, Capture and Compressor Site
- Water Connection Corridors
- CO_2 Export Pipeline
- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent

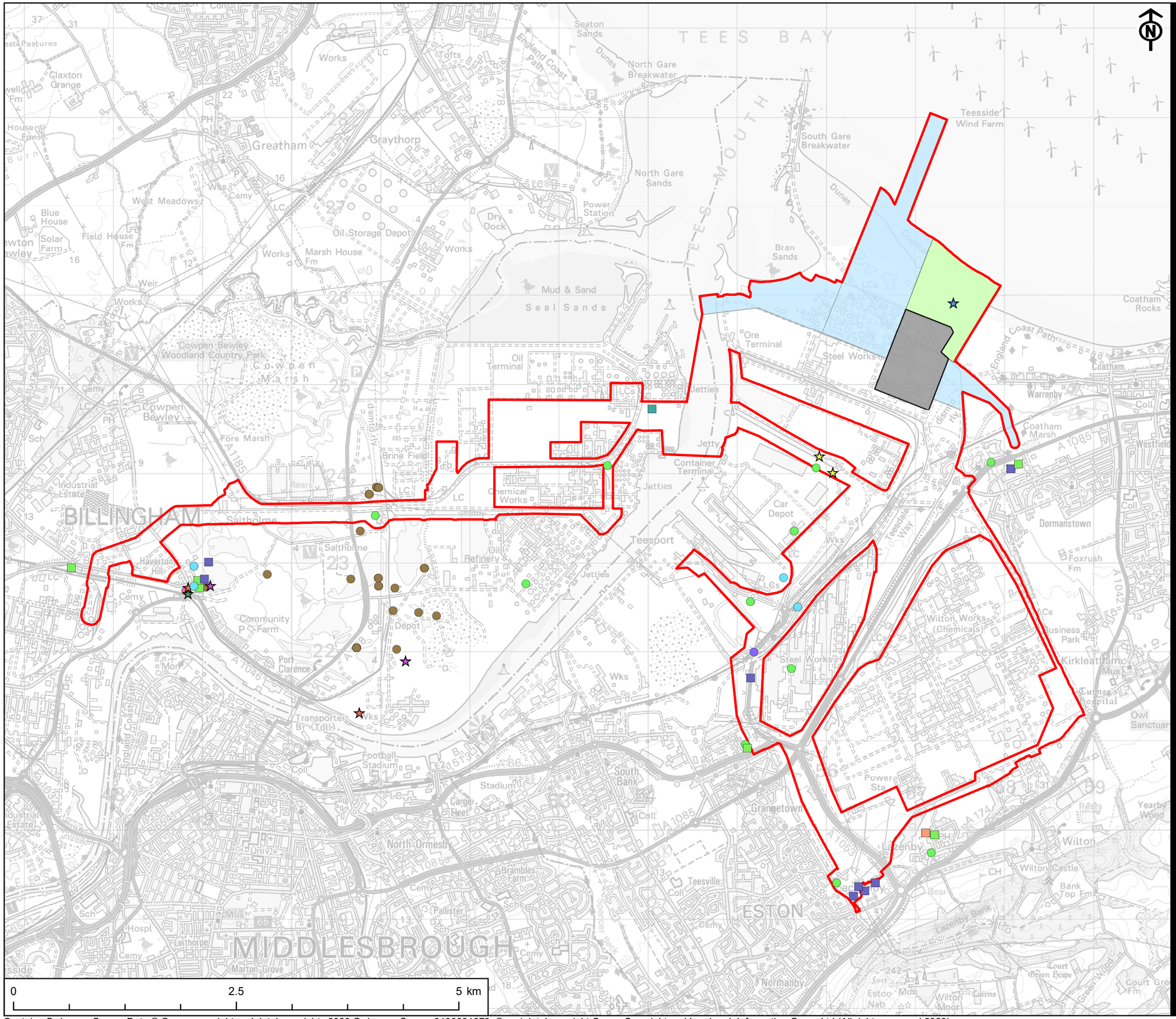
TITLE
FIGURE 10-9
HAZARDOUS

REFERENCE
NZT_200618_PEI_S_10-9_v3

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PROJECT
NET ZERO TEESSIDE

CLIENT
NZT POWER AND NZNS STORAGE

KEY

- Site Boundary
- Power, Capture and Compressor Site
- Water Connection Corridors
- CO_2 Export Pipeline

Contaminated Land Use

- Chemical manufacturing general
- Clay bricks & tiles [manufacture]
- Electricity production & distribution [inc large transformers]
- Factory or works - use not specified
- Gas manufacture & distribution
- Glass & glass products exc. flat glass [manufacture]
- Heap, unknown constituents
- Metal casting/foundries
- Military Land
- Outfalls
- Quarrying of sand & clay, operation of sand & gravel pits
- Road haulage
- Sewage
- Technical & environmental testing & analysis

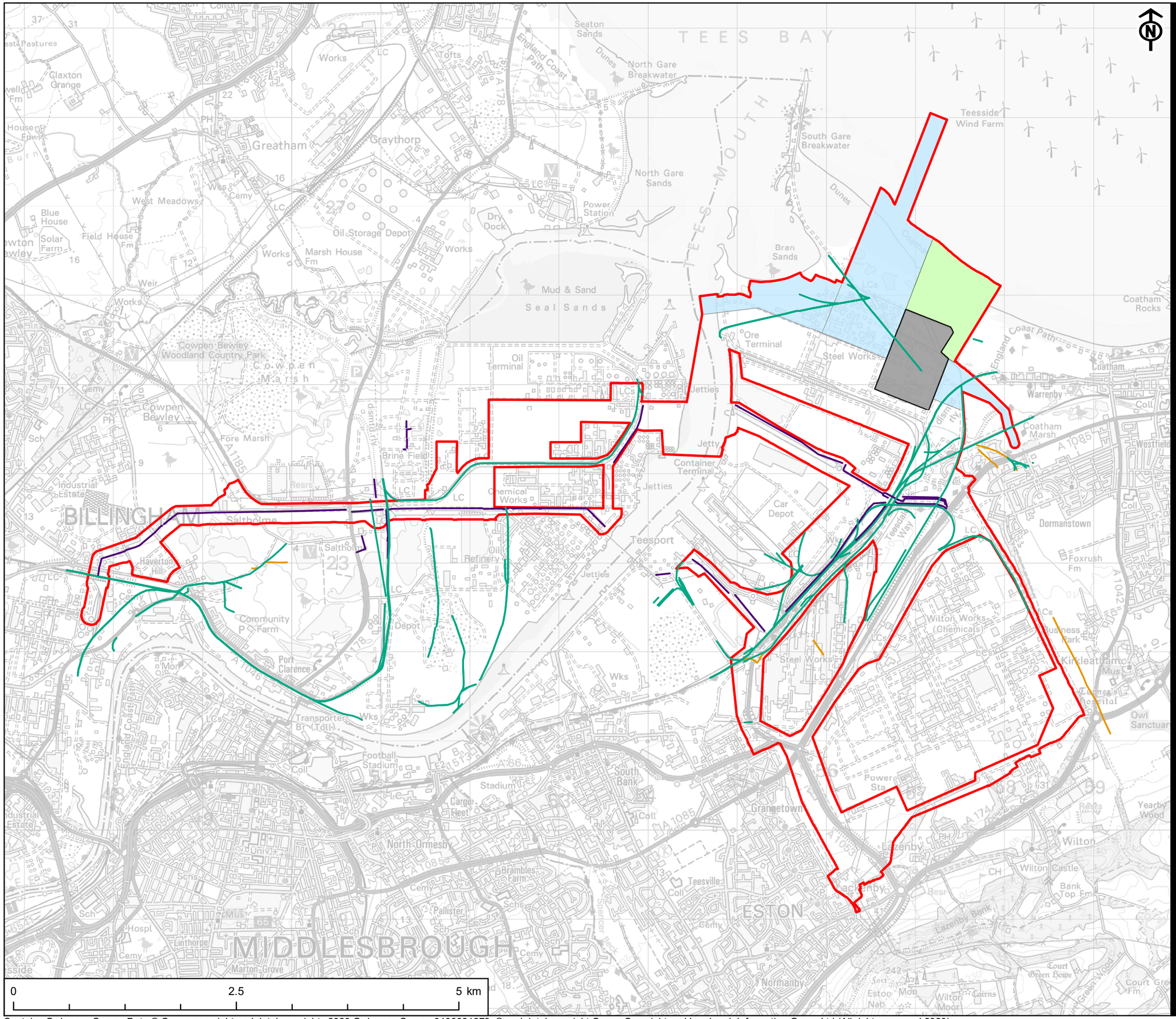
TITLE
FIGURE 10-10
CONTAMINATED LAND - POINT

REFERENCE
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AECOM

PROJECT
NET ZERO TEESSIDE

CLIENT
NZT POWER AND NZNS STORAGE

KEY

- Site Boundary
- Power, Capture and Compressor Site
- Water Connection Corridors
- CO_2 Export Pipeline

Contaminated Land Use

- Mineral railway
- Pipelines [transport via]
- Railways

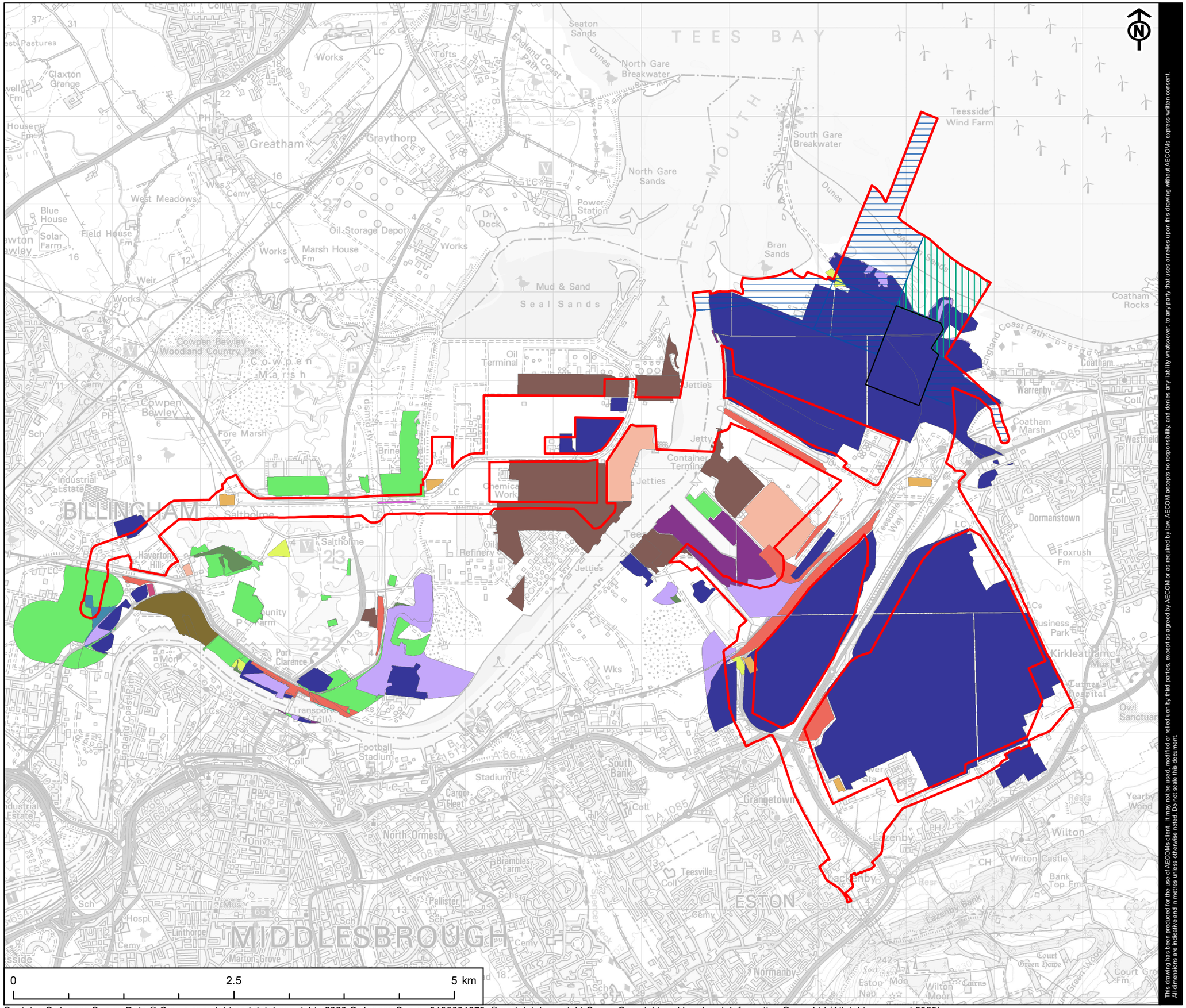
TITLE
FIGURE 10-11
CONTAMINATED LAND - LINE

REFERENCE
NZT_200618_PEI_S_10-11_v3

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AECOM

PROJECT
NET ZERO TEESSIDE

CLIENT
NZT POWER AND NZNS STORAGE

KEY

- Site Boundary
- Power, Capture and Compressor Site
- Water Connection Corridors
- CO_2 Export Pipeline

Contaminated Land Use

- Cemetery or Graveyard
- Chemical manufacturing general
- Clay bricks & tiles [manufacture]
- Electricity production & distribution [inc large transformers]
- Factory or works - use not specified
- Heap, unknown constituents
- Metal casting/foundries
- Military Land
- Mining of coal & lignite
- Oil, petroleum & gas refining & storage
- Quarrying of sand & clay, operation of sand & gravel pits
- Railways
- Road haulage
- Transport manufacturing and repair
- Transport support & cargo handling

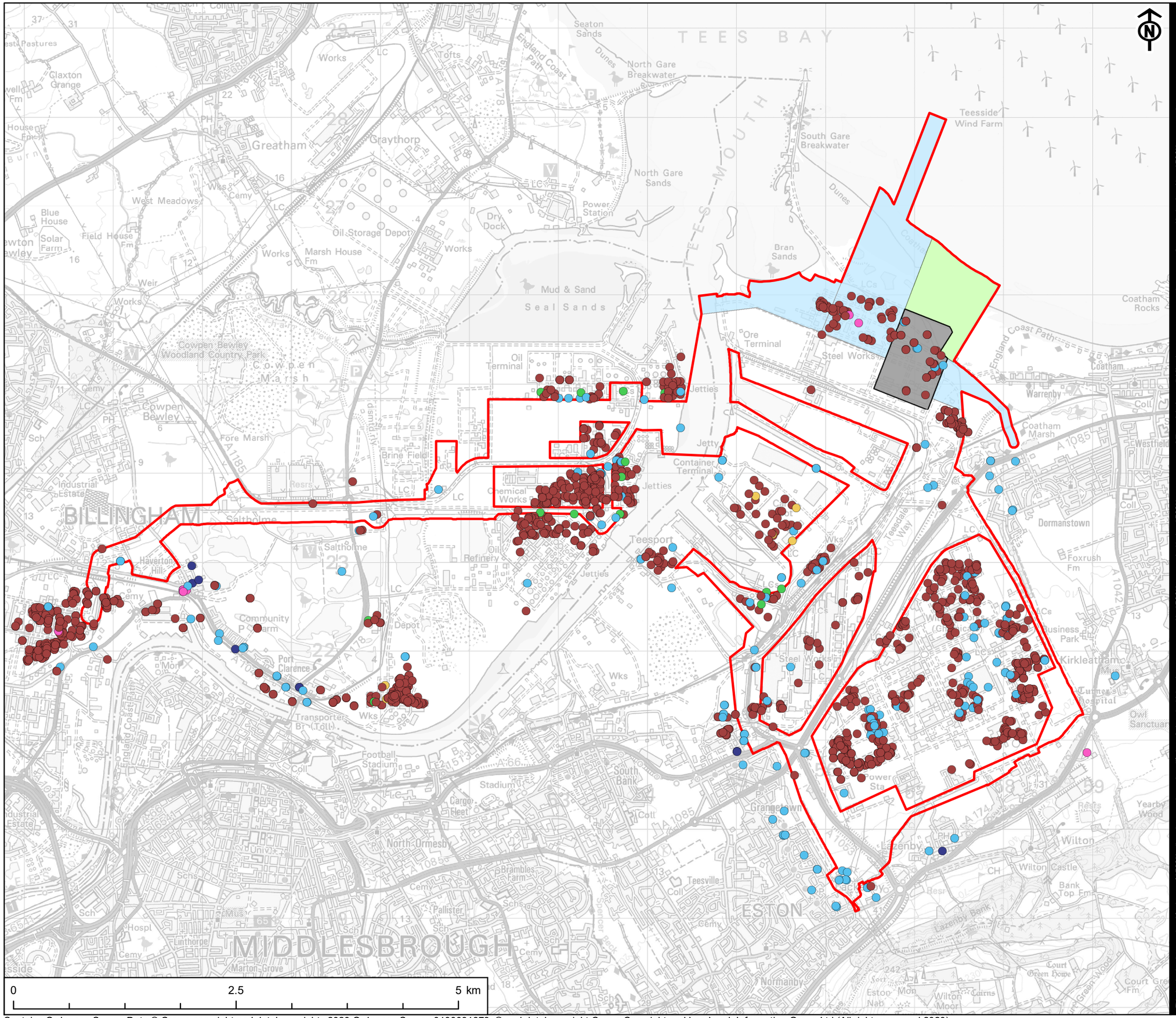
TITLE
FIGURE 10-12
CONTAMINATED LAND - POLYGON

REFERENCE
NZT_200618_PEI_S_10-12_v3

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AECOM

PROJECT
NET ZERO TEESSIDE

CLIENT
NZT POWER AND NZNS STORAGE

KEY

- Site Boundary
- Power, Capture and Compressor Site
- Water Connection Corridors
- CO_2 Export Pipeline

Historic Tank

- Electrical Sub Station Facilities
- Gas Industry Facilities
- Miscellaneous Power Facilities
- Oil Industry Facilities
- Potential Tanks
- Tanks

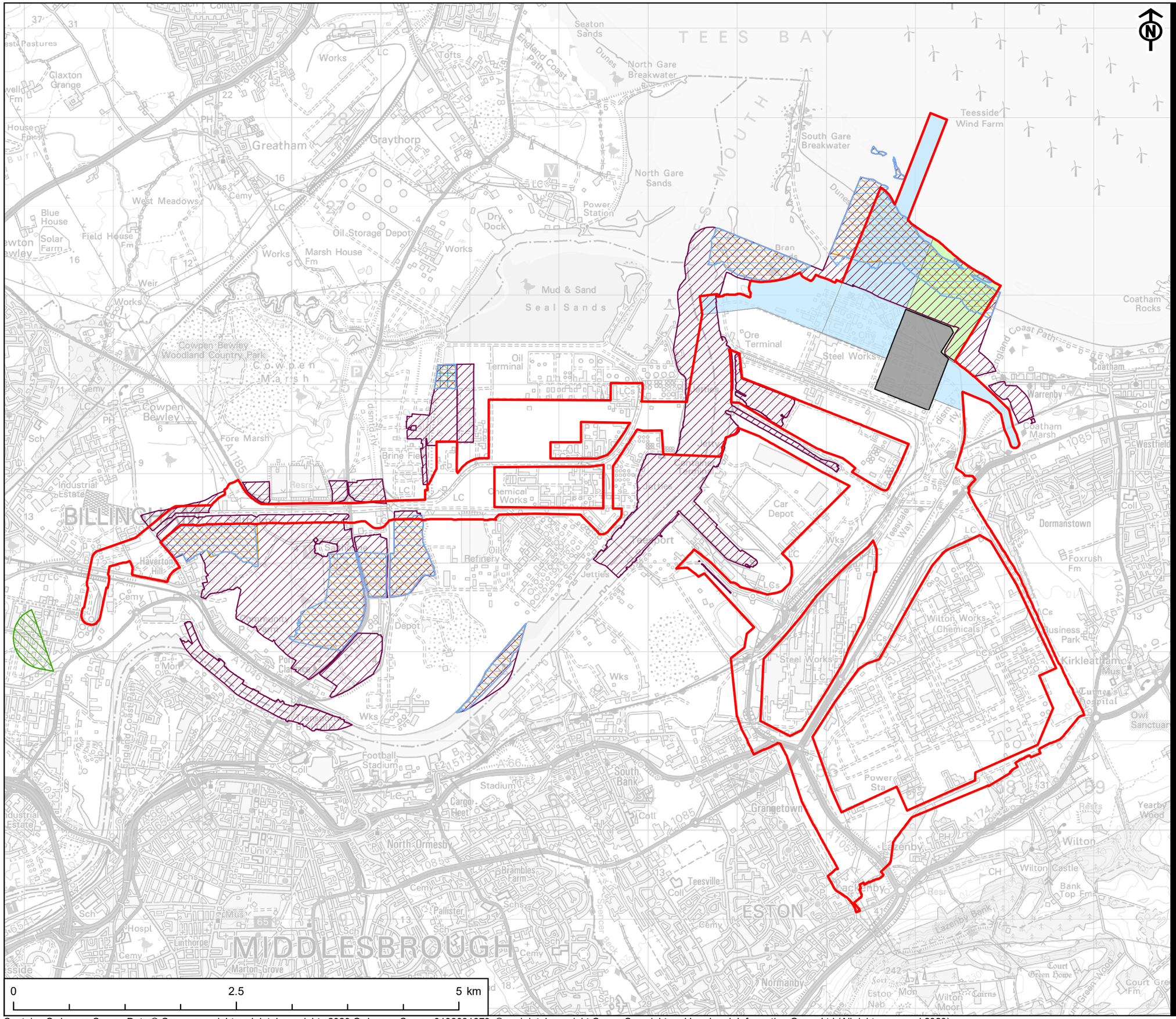
TITLE
FIGURE 10-13
HISTORIC TANKS

REFERENCE
NZT_200618_PEI_S_10-13_v3

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PROJECT
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CLIENT
NZT POWER AND NZNS STORAGE

KEY

- Site Boundary
- Power, Capture and Compressor Site
- Water Connection Corridors
- CO_2 Export Pipeline
- National Nature Reserve
- Nitrate Vulnerable Zone
- Ramsar Site
- Site of Special Scientific Interest
- Special Protection Area

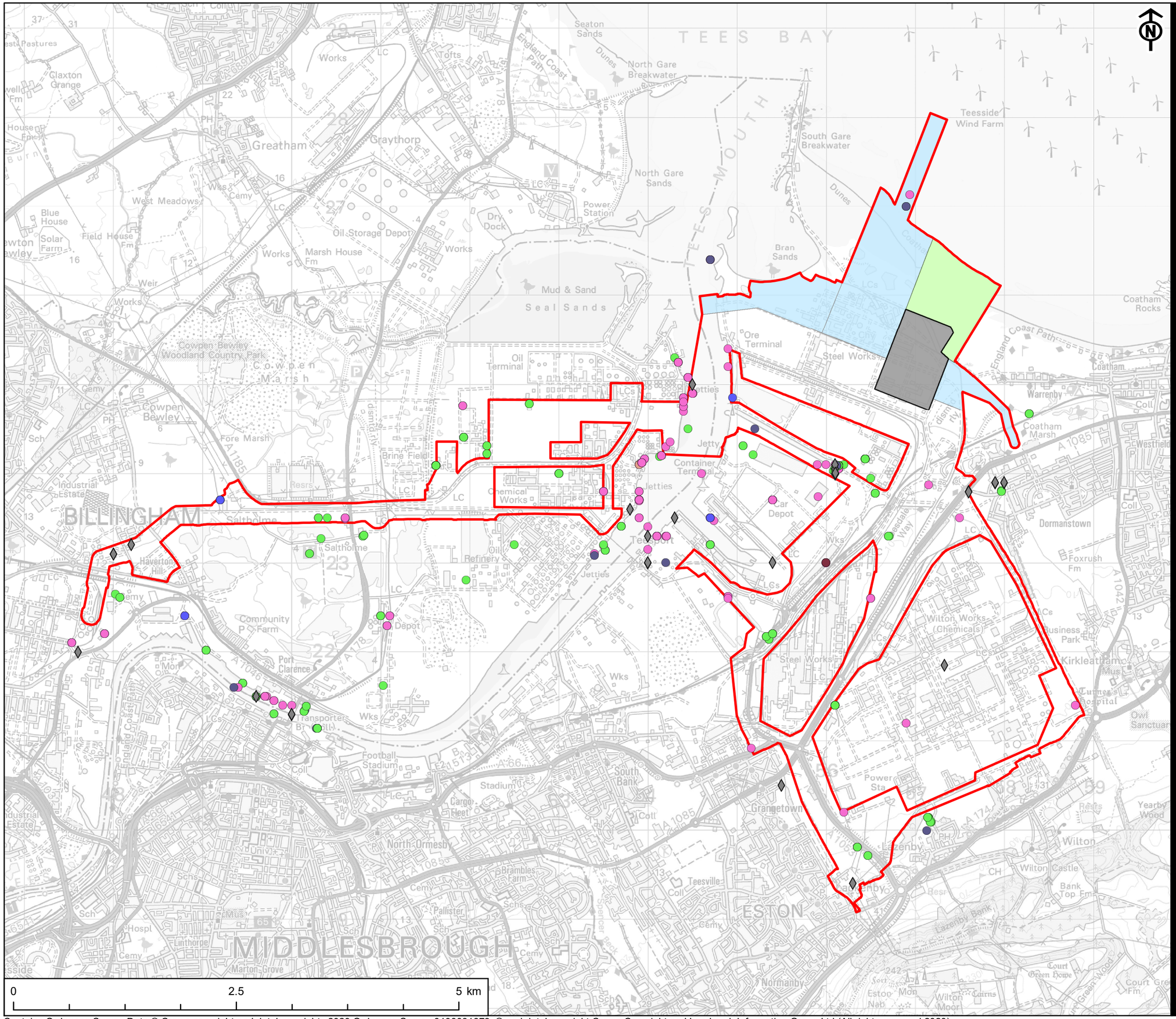
TITLE
FIGURE 10-14
SENSITIVE LAND USE

REFERENCE
NZT_200618_PEI_S_10-14_v3

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PROJECT
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CLIENT
NZT POWER AND NZNS STORAGE

KEY

- Site Boundary
- Power, Capture and Compressor Site
- Water Connection Corridors
- CO_2 Export Pipeline
- Pollution Incident to Controlled Waters

Discharge Consent

- Chemical Discharge
- Miscellaneous Discharge
- Sewage Discharge
- Sewerage Discharge
- Trade Discharge
- Unknown Discharge
- Waste Site Discharge
- Water Industry Discharge

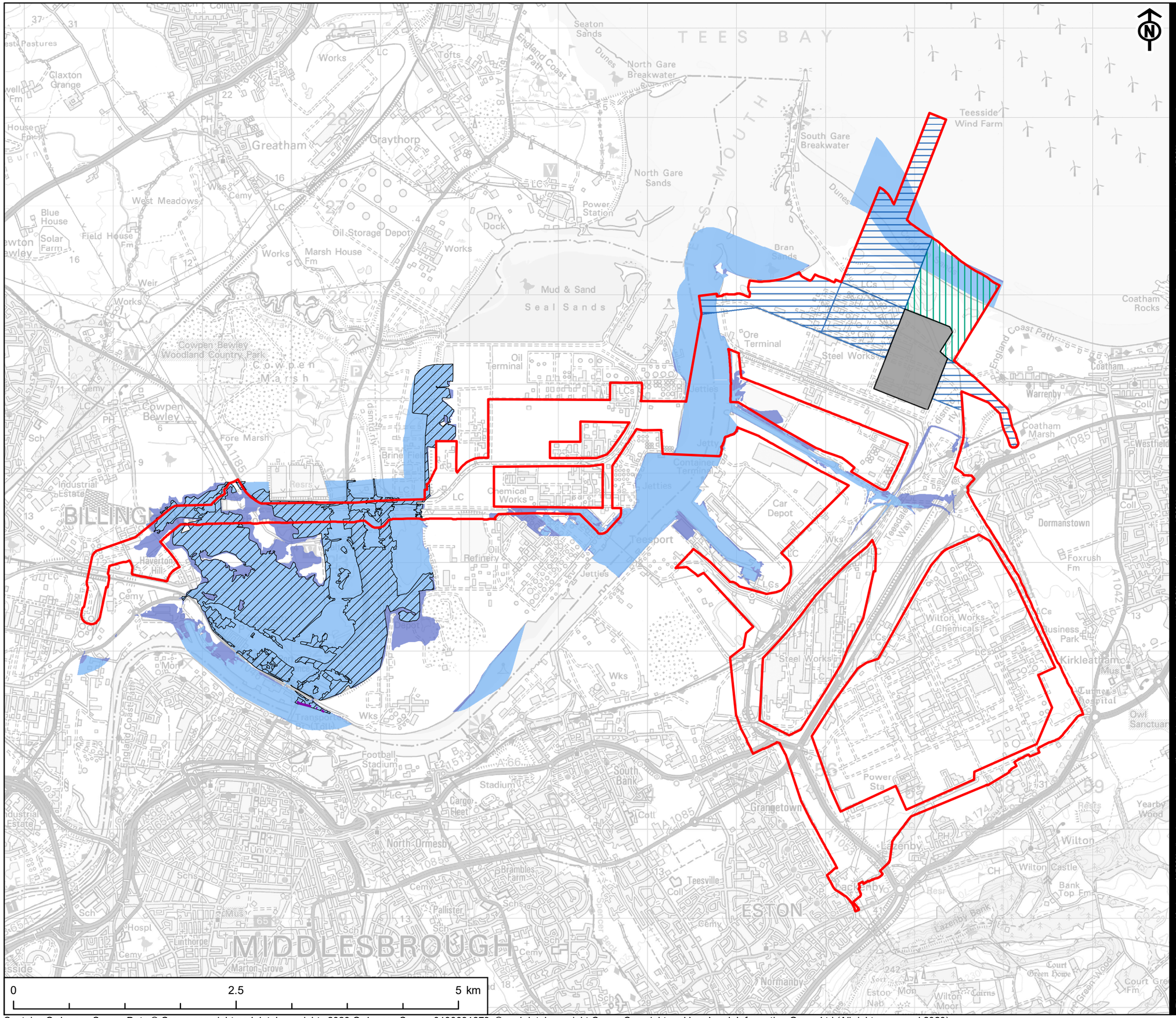
TITLE
FIGURE 10-15
DISCHARGE

REFERENCE
NZT_200618_PEI_S_10-15_v3

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0 2.5 5 km

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PROJECT
NET ZERO TEESSIDE

CLIENT
NZT POWER AND NZNS STORAGE

KEY

- Site Boundary
- Power, Capture and Compressor Site
- Water Connection Corridors
- CO_2 Export Pipeline
- Flood Defence
- Area Benefiting from Flood Defences
- Flooding from Rivers or Seas without Defences (Zone 3)
- Extreme Flooding from Rivers or Seas without Defences (Zone 2)

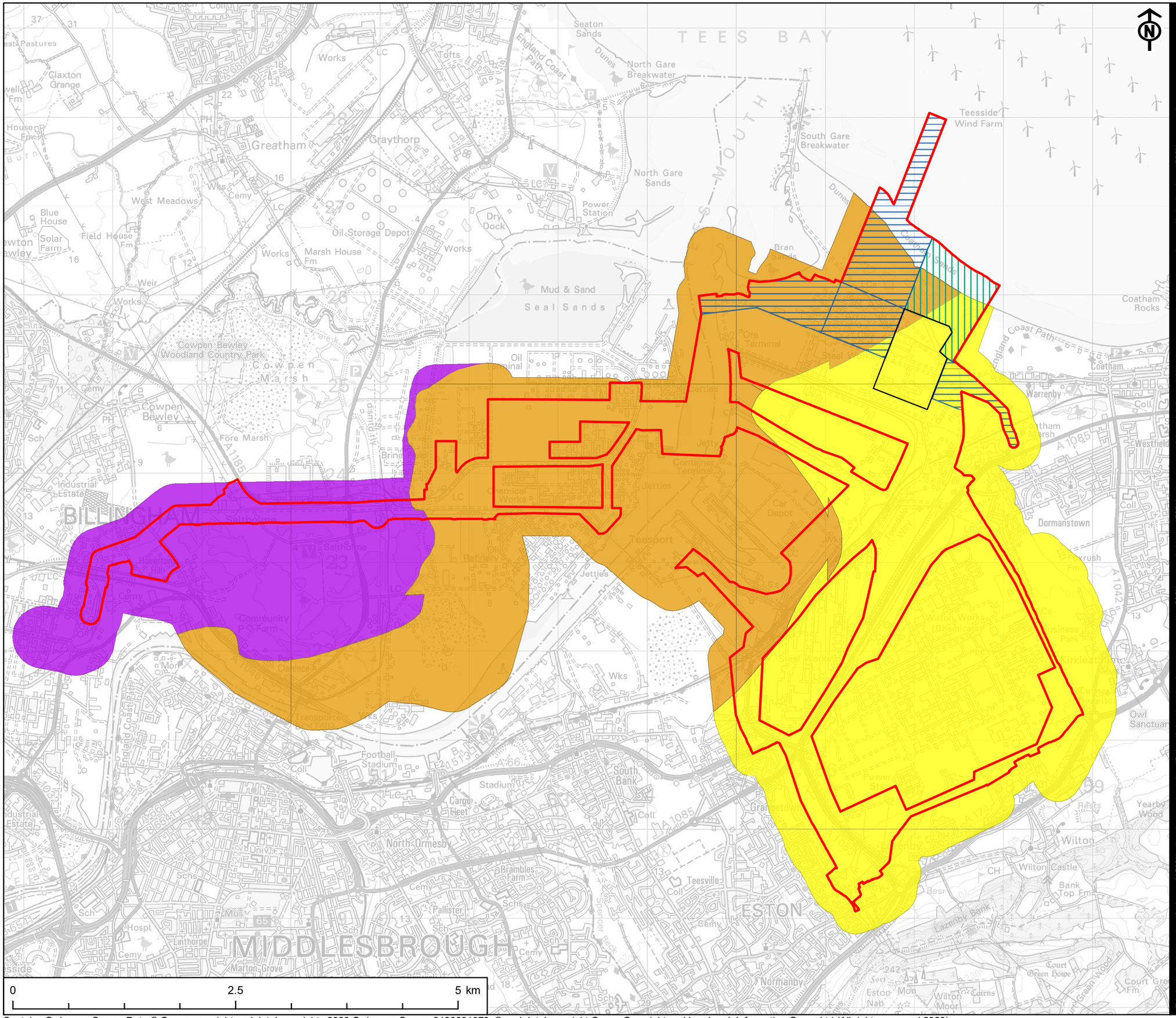
TITLE
FIGURE 10-16
FLOOD RISK

REFERENCE
NZT_200618_PEI_S_10-16_v3

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DATE
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PROJECT
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CLIENT
NZT POWER AND NZNS STORAGE

KEY

- Site Boundary
- Power, Capture and Compressor Site
- Water Connection Corridors
- CO_2 Export Pipeline

BGS Bedrock Aquifer

- Principal Aquifer
- Secondary Aquifer - B
- Secondary Aquifer - Undifferentiated

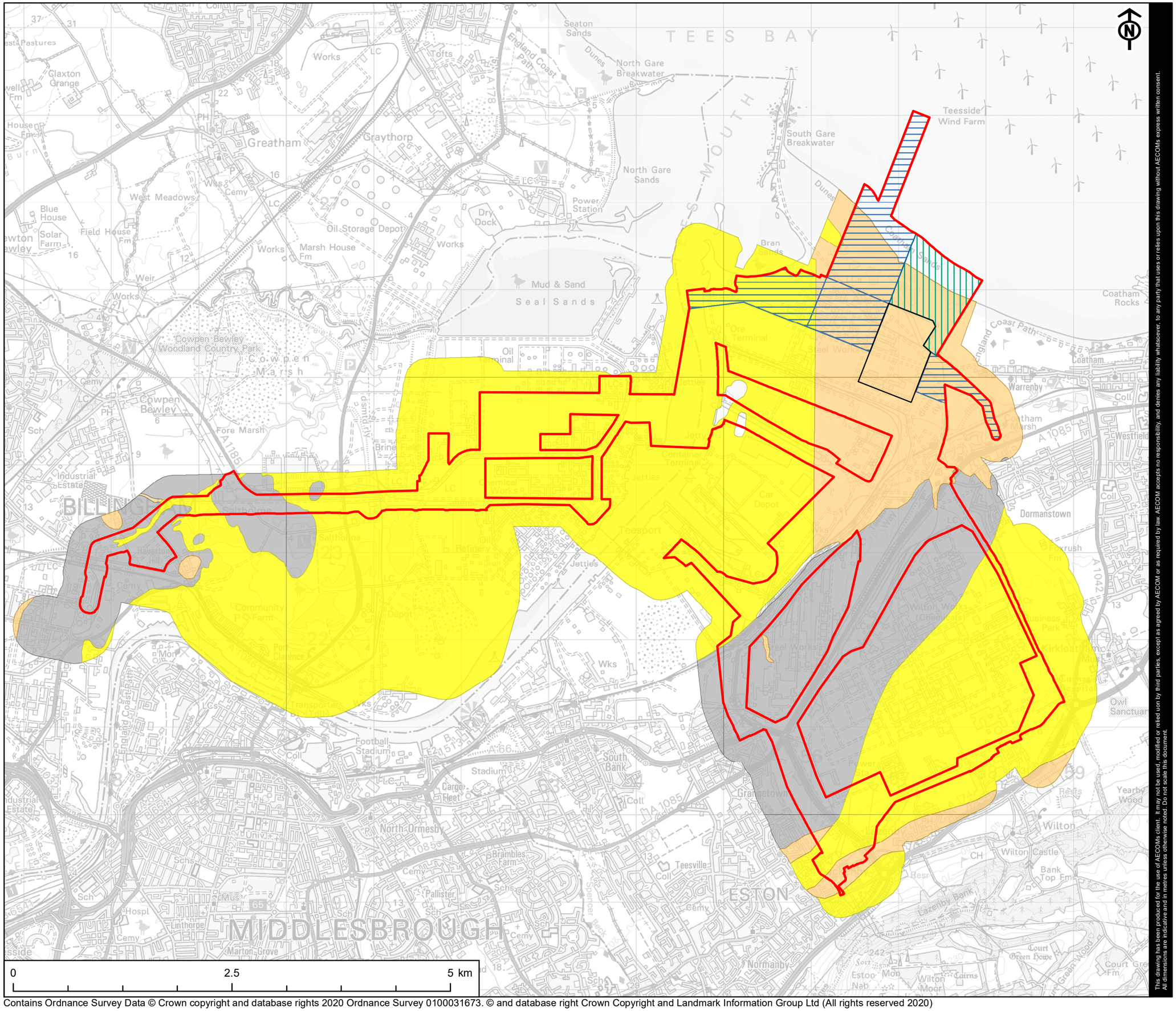
TITLE
FIGURE 10-17
BEDROCK AQUIFER

REFERENCE
NZT_200618_PEI_S_10-17_v3

SHEET NUMBER
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CLIENT
NZT POWER AND NZNS STORAGE

KEY

- Site Boundary
- Power, Capture and Compressor Site
- Water Connection Corridors
- CO_2 Export Pipeline

BGS Superficial Aquifer

- Secondary Aquifer - A
- Secondary Aquifer - Undifferentiated
- Unproductive Strata

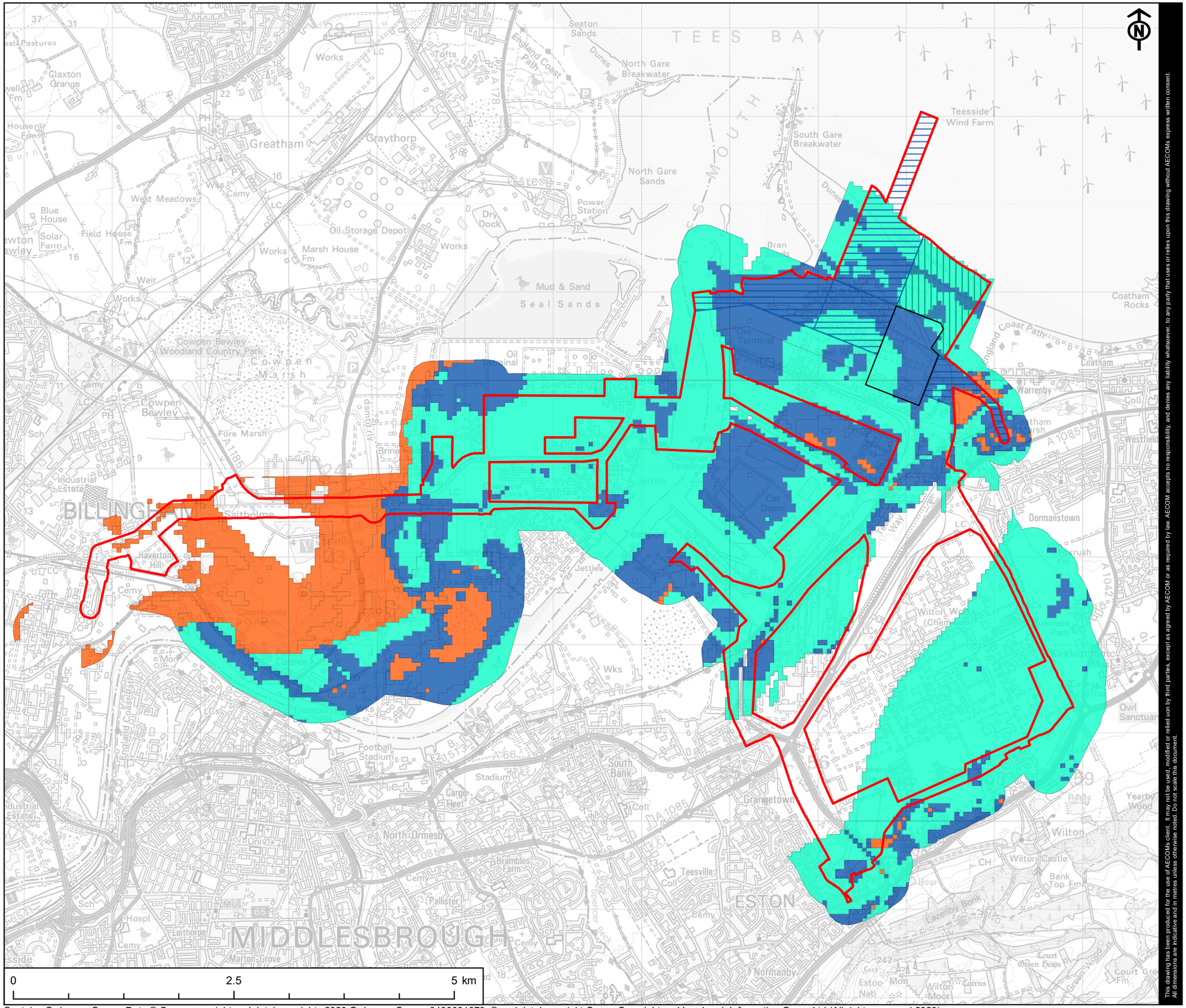
TITLE
FIGURE 10-18
SUPERFICIAL AQUIFER

REFERENCE
NZT_200618_PEI_S_10-18_v3

SHEET NUMBER
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DATE
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PROJECT
NET ZERO TEESSIDE

CLIENT
NZT POWER AND NZNS STORAGE

KEY

- Site Boundary
- Power, Capture and Compressor Site
- Water Connection Corridors
- CO_2 Export Pipeline

BGS Flood Susceptability

- Limited Potential for Groundwater Flooding to Occur
- Potential for Groundwater Flooding of Property Situated Below Ground Level
- Potential for Groundwater Flooding to Occur at Surface

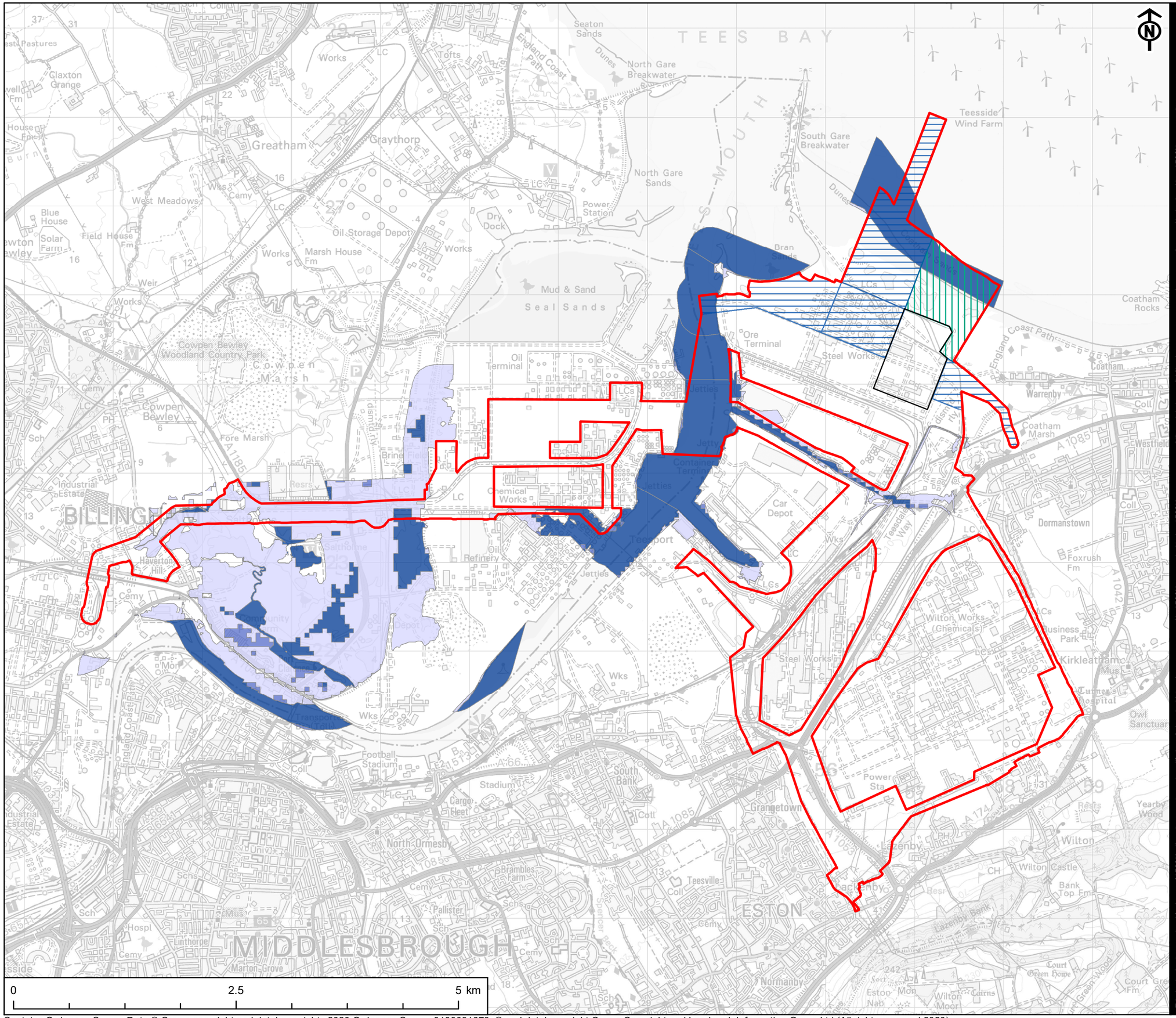
TITLE
FIGURE 10-19
BGS FLOOD SUSCEPTIBILITY

REFERENCE
NZT_200618_PEI_S_10-19_v3

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PROJECT
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CLIENT
NZT POWER AND NZNS STORAGE

KEY

- Site Boundary
- Power, Capture and Compressor
- Water Connection Corridors
- CO_2 Export Pipeline

Risk of Flooding from Rivers and

- High
- Medium
- Low

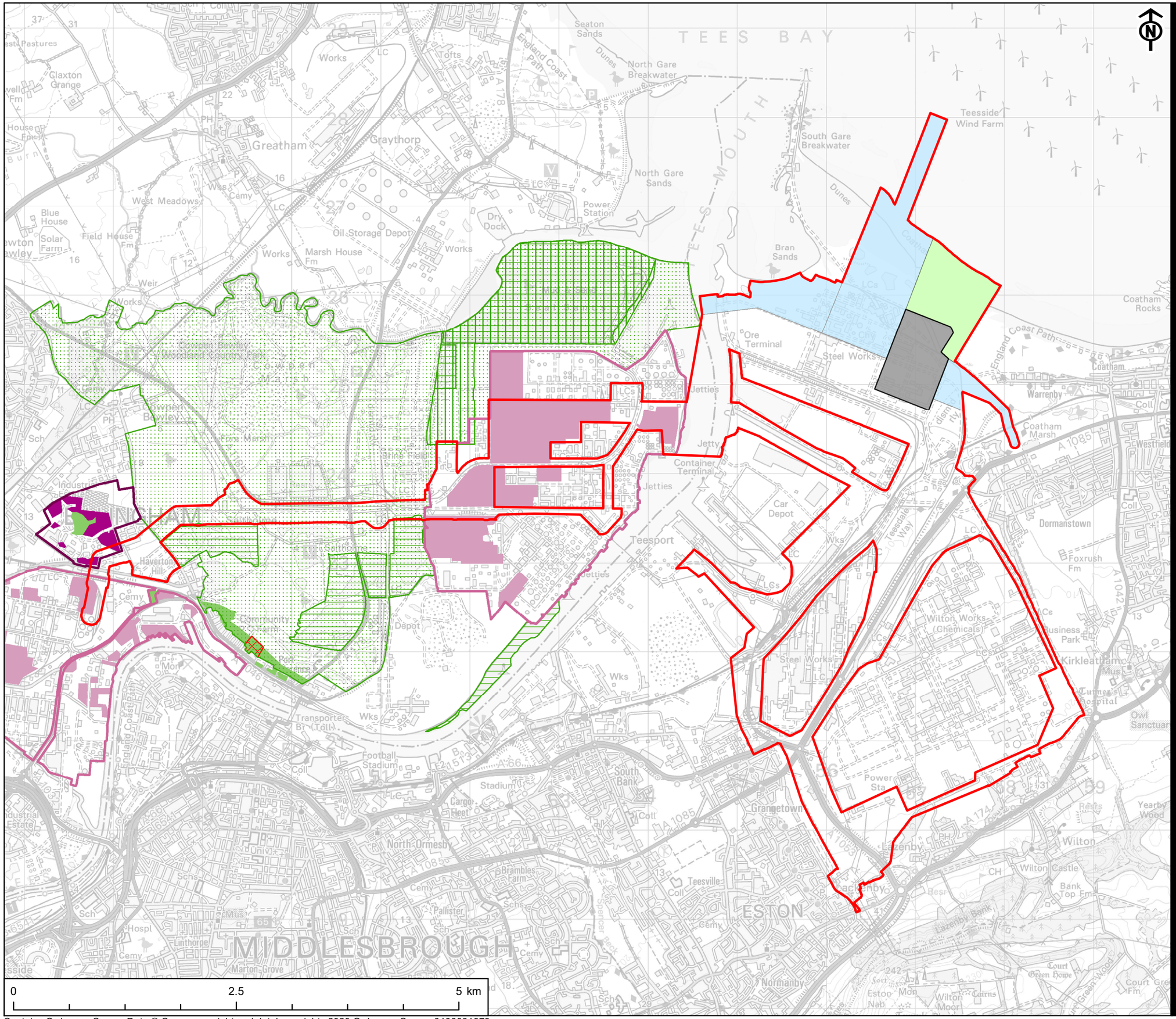
TITLE
FIGURE 10-20
RISK OF FLOODING FROM RIVERS AND SEAS

REFERENCE
NZT_200618_PEI_S_10-20_v3

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PROJECT
NET ZERO TEESSIDE

CLIENT
NZT POWER AND NZNS STORAGE

KEY

- Site Boundary
- Power, Capture and Compressor Site
- Water Connection Corridors
- CO_2 Export Pipeline

Stockton-on-Tees Local Plan

- Specialist Employment Allocations - SD4 EG4
- Specialist Use Locations - SD4 EG4
- General Employment Allocations - SD4 EG1
- General Employment Locations - SD4 EG1
- Playing Fields - TI2
- Countryside - SD3 SD4 SD5
- Open Space - SD5 ENV6
- Internationally Designated Sites (SPA and Ramsar) - SD5 ENV5
- Nationally Designated Sites (SSSI) - SD5 ENV5

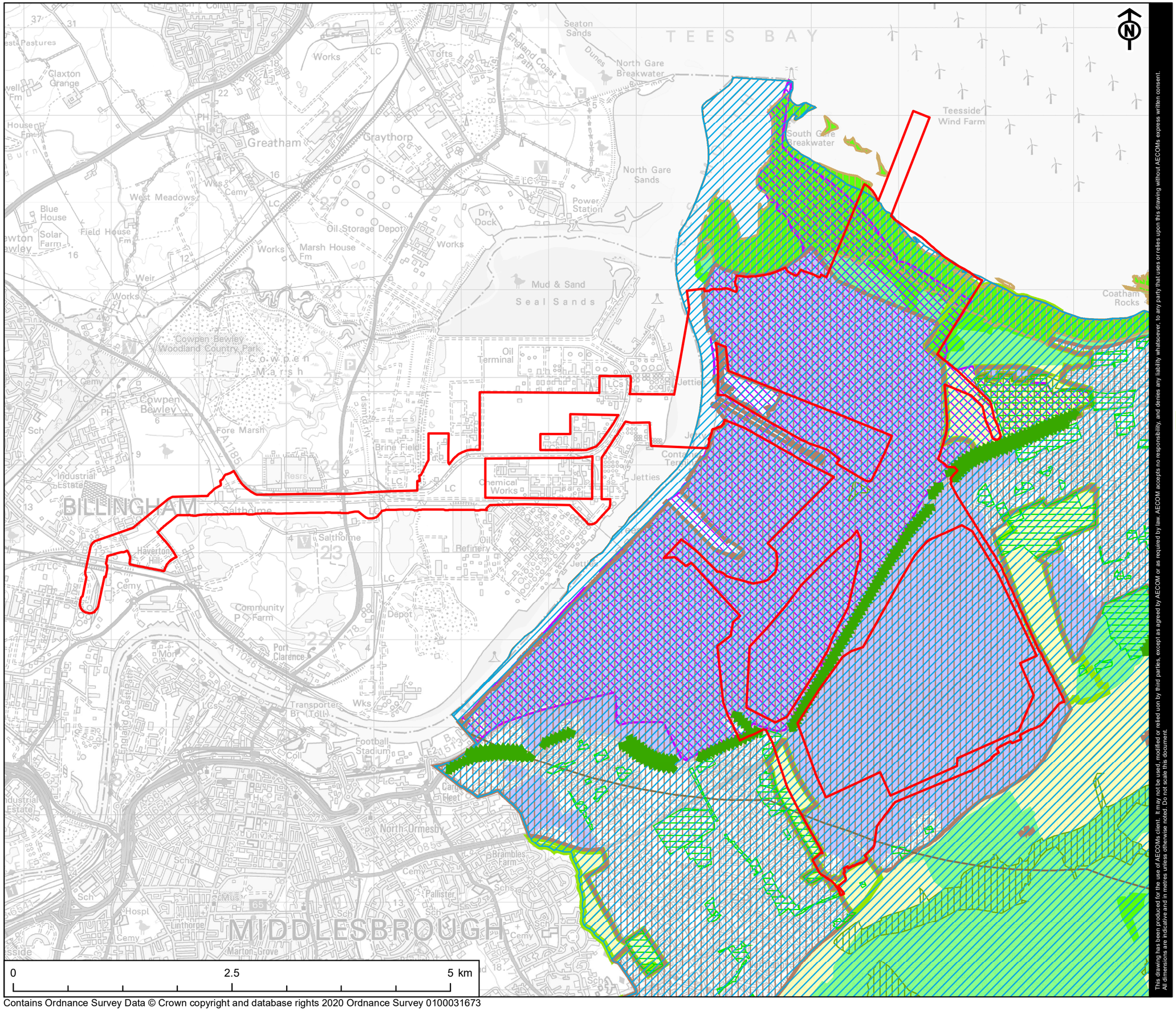
TITLE
FIGURE 10-21
STOCKTON-ON-TEES LOCAL PLAN

REFERENCE
NZT_200618_PEI_S_10-21_v3

SHEET NUMBER
1 of 1

DATE
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0 2.5 5 km

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NZT POWER AND NZNS STORAGE

KEY

- Site Boundary
- N 4 6km Special Protection Areas (SPA) Buffer Zone
- LS 4 & ED 6 South Tees Development Corporation
- SD 6 30km wind farm safeguarding area for Durham Tees Valley Airport
- N 4 Local Wildlife Sites (LWS)
- N 2 Strategic Landscape Areas
- SD 3 Development Limits
- N 4 Sites of Special Scientific Interest (SSSI)
- N 4 Special Protection Areas (SPA)
- ED 6 Protecting Employment Areas
- N 3 Primary Open Spaces
- N 2 Green Wedges
- N 1 Restoration Landscape Areas
- N 1 Sensitive Landscape Areas

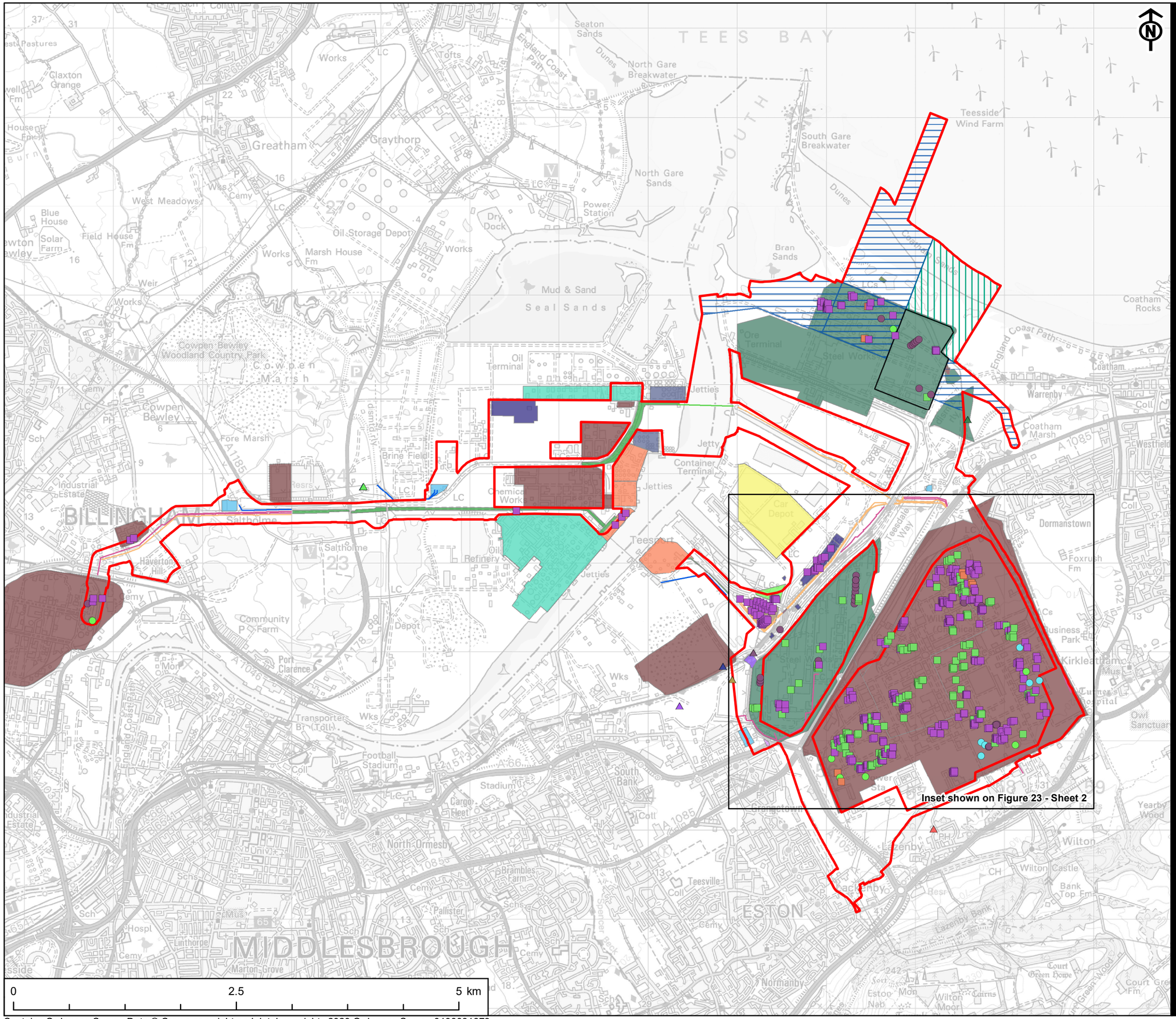
TITLE
FIGURE 10-22
REDCAR AND CLEVELAND LOCAL PLAN

REFERENCE
NZT_200618_PEI_S_10-22_v3

SHEET NUMBER
1 of 1

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AECOM

PROJECT
NET ZERO TEESSIDE

CLIENT
NZT POWER AND NZNS STORAGE

KEY

- Site Boundary
- Power, Capture and Compressor Site
- Water Connection Corridors
- CO_2 Export Pipeline
- Chimney
- Cooling Tower
- Flare Stack
- Possible Tank
- Tank
- Tanks
- Brick Field
- Disused Salt Works
- Disused Works
- Engineering Works
- Iron Works
- Sawmill
- Slag Wool Works
- Tar Macadam Works
- Pipeline
- Pipelines
- Tunnel
- Electrical Transmission
- Fuel Depot
- Oil Depot
- Oil Refinery
- Oil Supply Terminal
- Petroleum Refinery
- Tank Farm
- Pipelines
- Tunnel
- Electrical Substation
- Power Station
- Works
- Chemical
- Iron & Steel
- Slag Works
- Works - Unknown

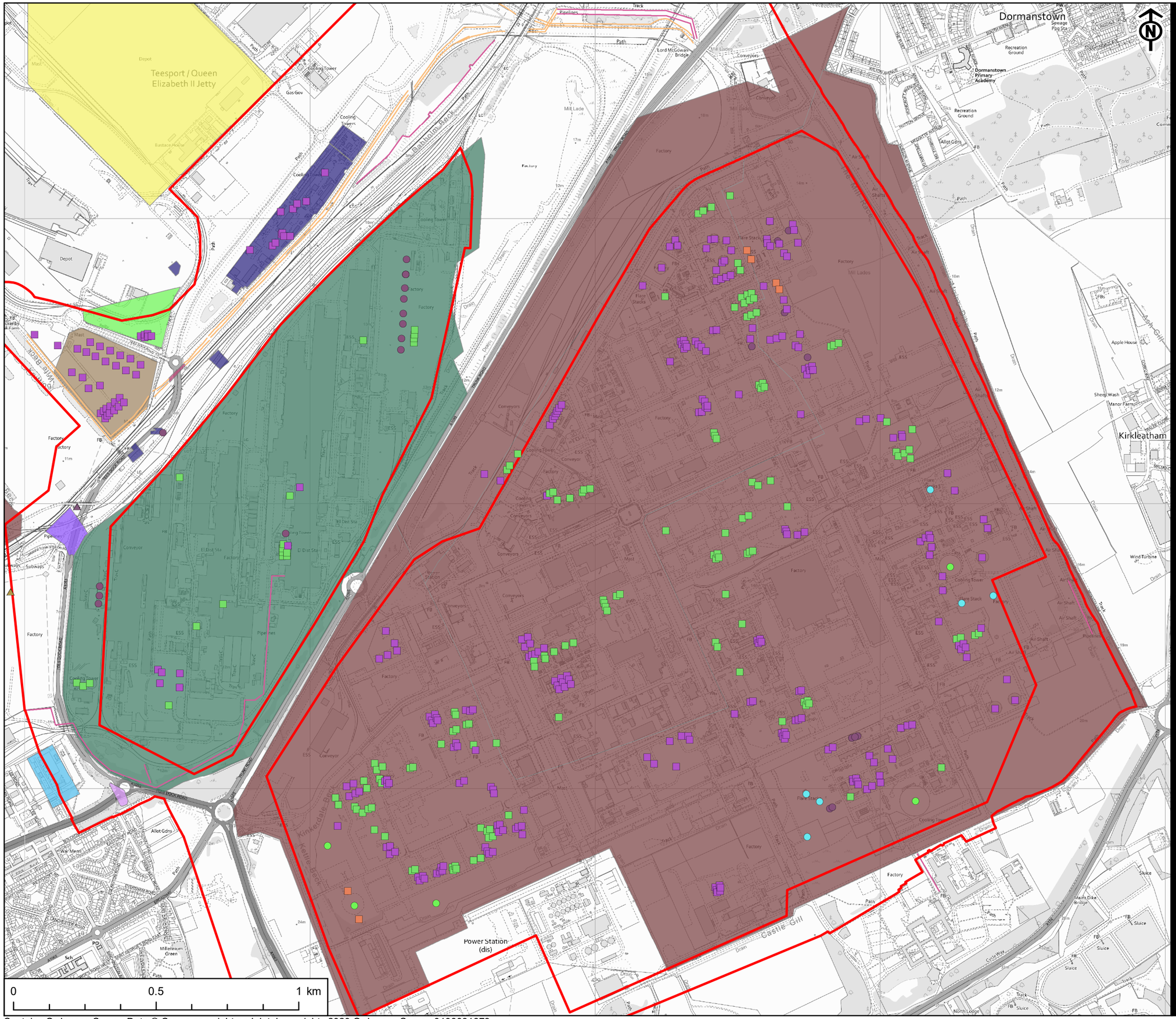
TITLE
FIGURE 10-23
HISTORICAL FEATURES 1

REFERENCE
NZT_200618_PEI_S_10-23_v3

SHEET NUMBER
1 of 4

DATE
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AECOM

PROJECT
NET ZERO TEESSIDE

CLIENT
NZT POWER AND NZNS STORAGE

KEY

- Site Boundary
- Chimney
- Cooling Tower
- Flare Stack
- Possible Tank
- Tank
- Tanks
- Brick Field
- Engineering Works
- Pipeline
- Pipelines
- Oil Supply Terminal
- Petroleum Refinery
- Tank Farm
- Tunnel
- Electrical Substation
- Power Station
- Works
- Chemical
- Iron & Steel
- Works - Unknown

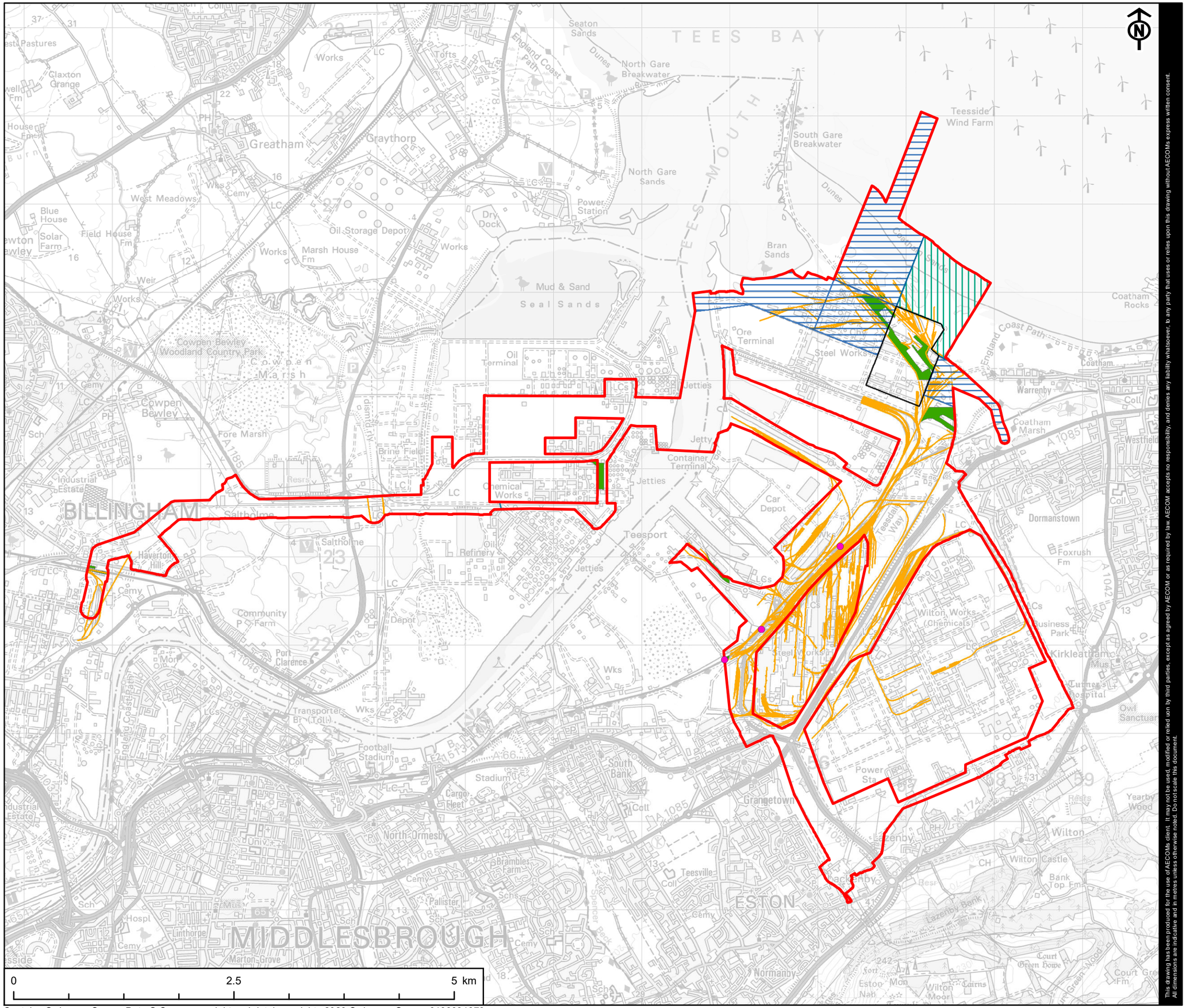
TITLE
FIGURE 10-23
HISTORICAL FEATURES 1 - INSET

REFERENCE
NZT_200618_PEI_S_10-23_v3

SHEET NUMBER
2 of 4

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0 2.5 5 km

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AECOM

PROJECT
NET ZERO TEESSIDE

CLIENT
NZT POWER AND NZNS STORAGE

KEY

- Site Boundary
- Power, Capture and Compressor Site
- Water Connection Corridors
- CO_2 Export Pipeline
- Railway Station
- Railway
- Tramways
- Railway

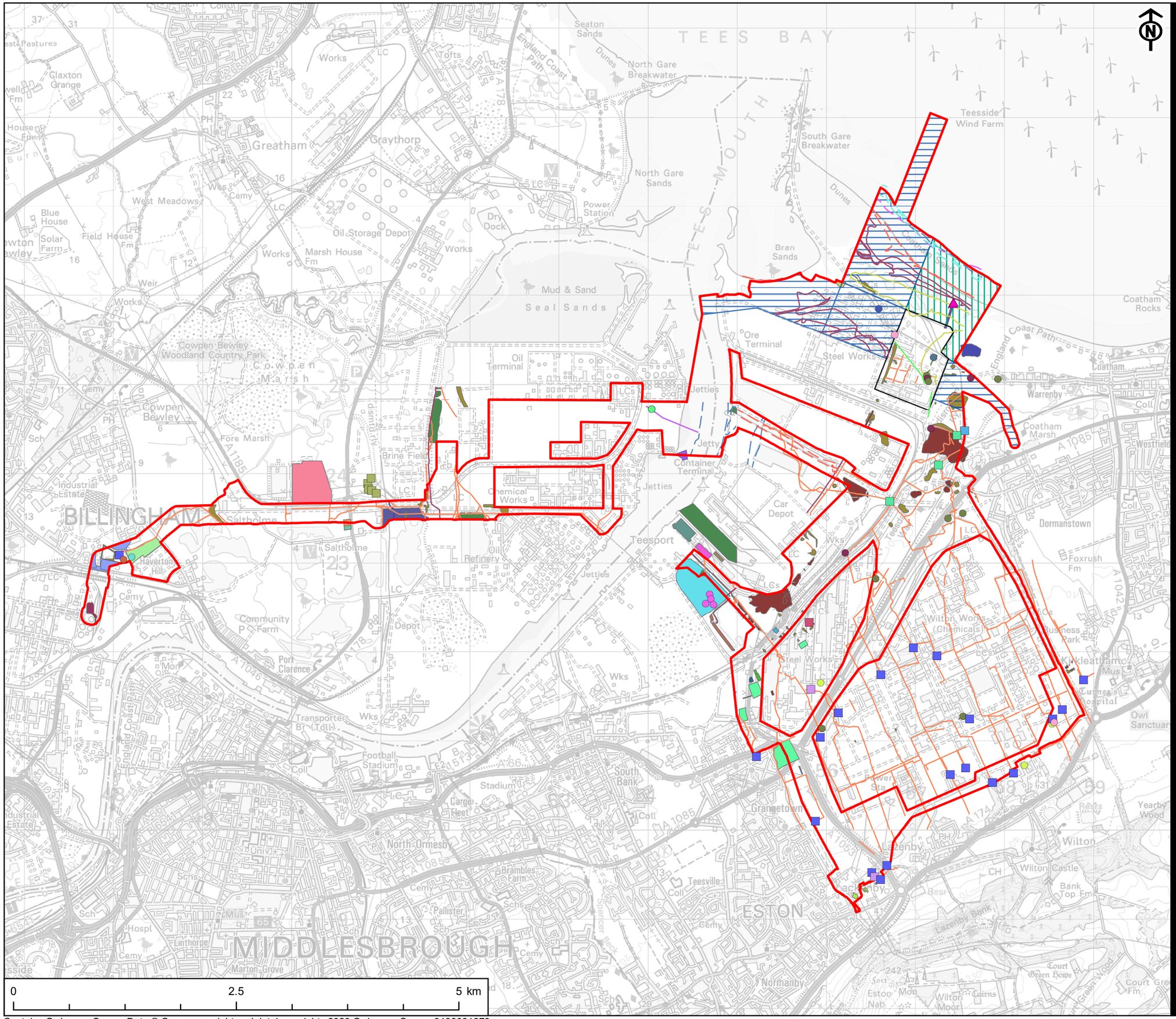
TITLE
FIGURE 10-23
HISTORICAL FEATURES 2

REFERENCE
NZT_200618_PEI_S_10-23_v3

SHEET NUMBER
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DATE
18/06/2020

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PROJECT
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CLIENT
NZT POWER AND NZNS STORAGE

KEY

- Site Boundary
- Power, Capture and Compressor Site
- Water Connection Corridors
- CO_2 Export Pipeline
- Church
- Conveyor
- Council Offices
- Farm
- Hopper
- House
- Laboratory
- Meter House
- Pump
- Water Tower
- Butts
- Brine Will
- Issues/Rises/Spring
- Pond
- Reservoir
- Sluice
- Well
- Beck
- Breakwater
- Channel
- Drain/Watercourse
- H.W.M.O.S.T.
- H.W.M.O.T.
- Headland
- L.W.M.O.S.T.
- L.W.M.O.T.
- Mean High Water
- Mean Low Water
- Mud / Sand Flats
- Allotment Gardens
- Brick Yard
- Depot
- Fire Station
- Recreation Ground
- Residential
- School
- Telephone Exchange
- Transit Shed
- Warehouse
- Infilled Land (non-water)
- Infilled Land (water)
- Battery
- Rifle Range
- Clay Pit
- Gravel Pit
- Infilled Land (non-water)
- Sand Pit
- Waste management / processing facility
- Water
- Brine Reservoir
- Drain/Watercourse
- Muscle Bed
- Pond
- Reservoir

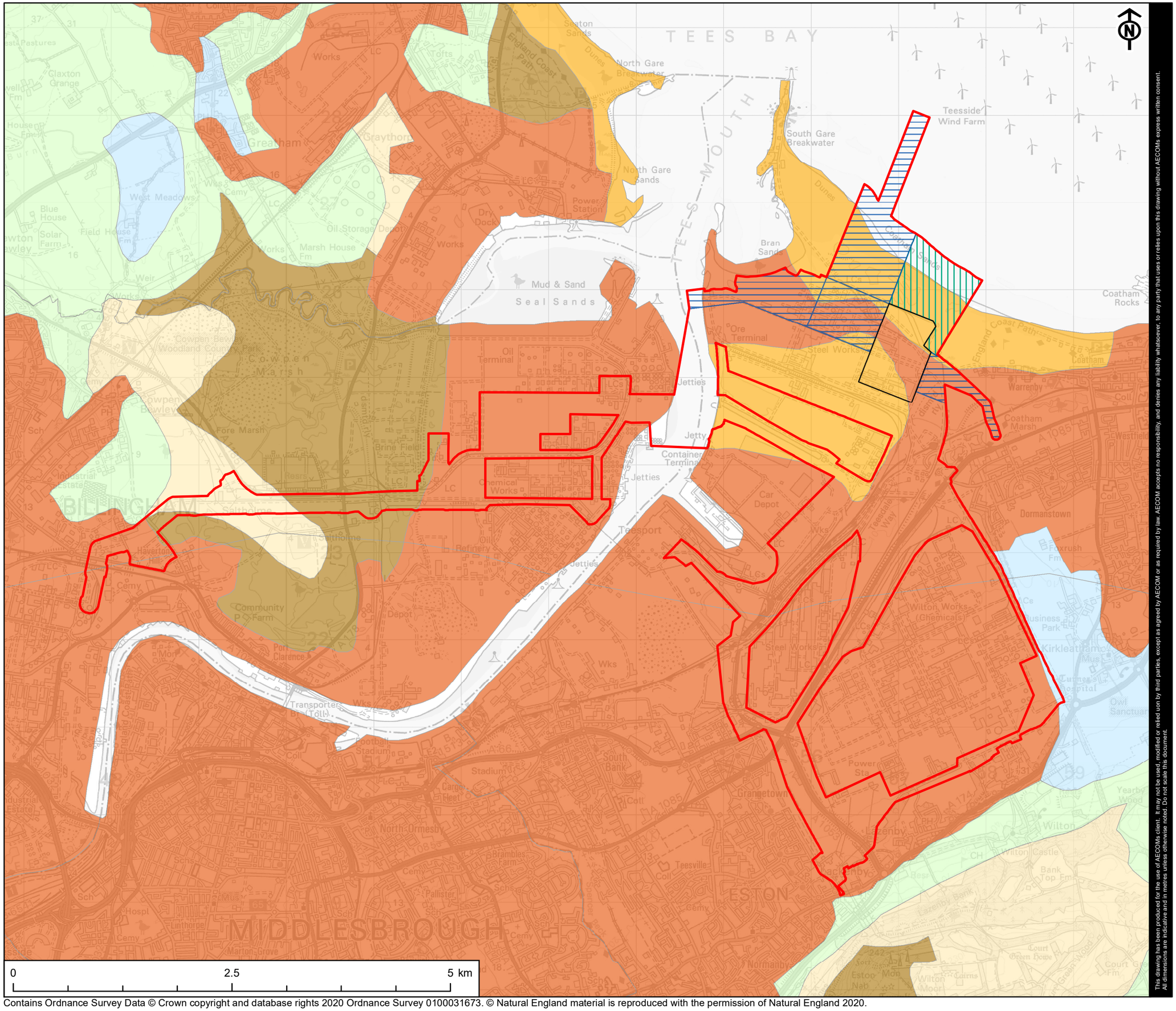
TITLE
FIGURE 10-23
HISTORICAL FEATURES 3

REFERENCE
NZT_200618_PEI_S_10-23_v3

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PROJECT
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CLIENT
NZT POWER AND NZNS STORAGE

KEY

- Site Boundary
- Power, Capture and Compressor Site
- Water Connection Corridors
- CO_2 Export Pipeline

Agricultural Land Classification - Provisional

- Grade 2
- Grade 3
- Grade 4
- Grade 5
- Non Agricultural
- Urban

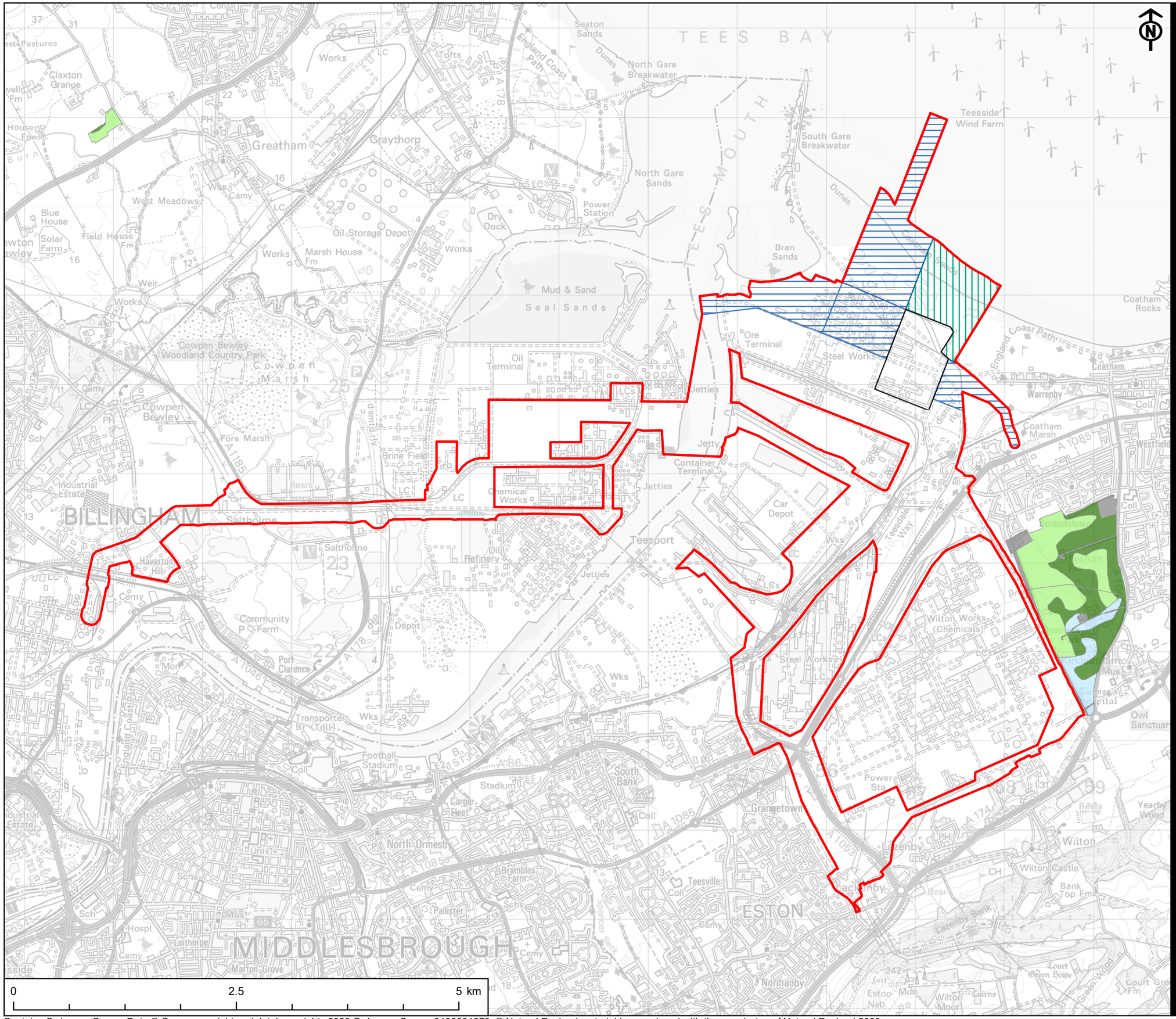
TITLE
FIGURE 10-24
AGRICULTURAL LAND CLASSIFICATION PROVISIONAL

REFERENCE
NZT_200618_PEI_S_10-24_v3

SHEET NUMBER
1 of 2

DATE
18/06/2020

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PROJECT
NET ZERO TEESSIDE

CLIENT
NZT POWER AND NZNS STORAGE

KEY

- Site Boundary
- Power, Capture and Compressor Site
- Water Connection Corridors
- CO_2 Export Pipeline

Post 1988 Agricultural Land

- Grade 2
- Grade 3a
- Grade 3b
- Other

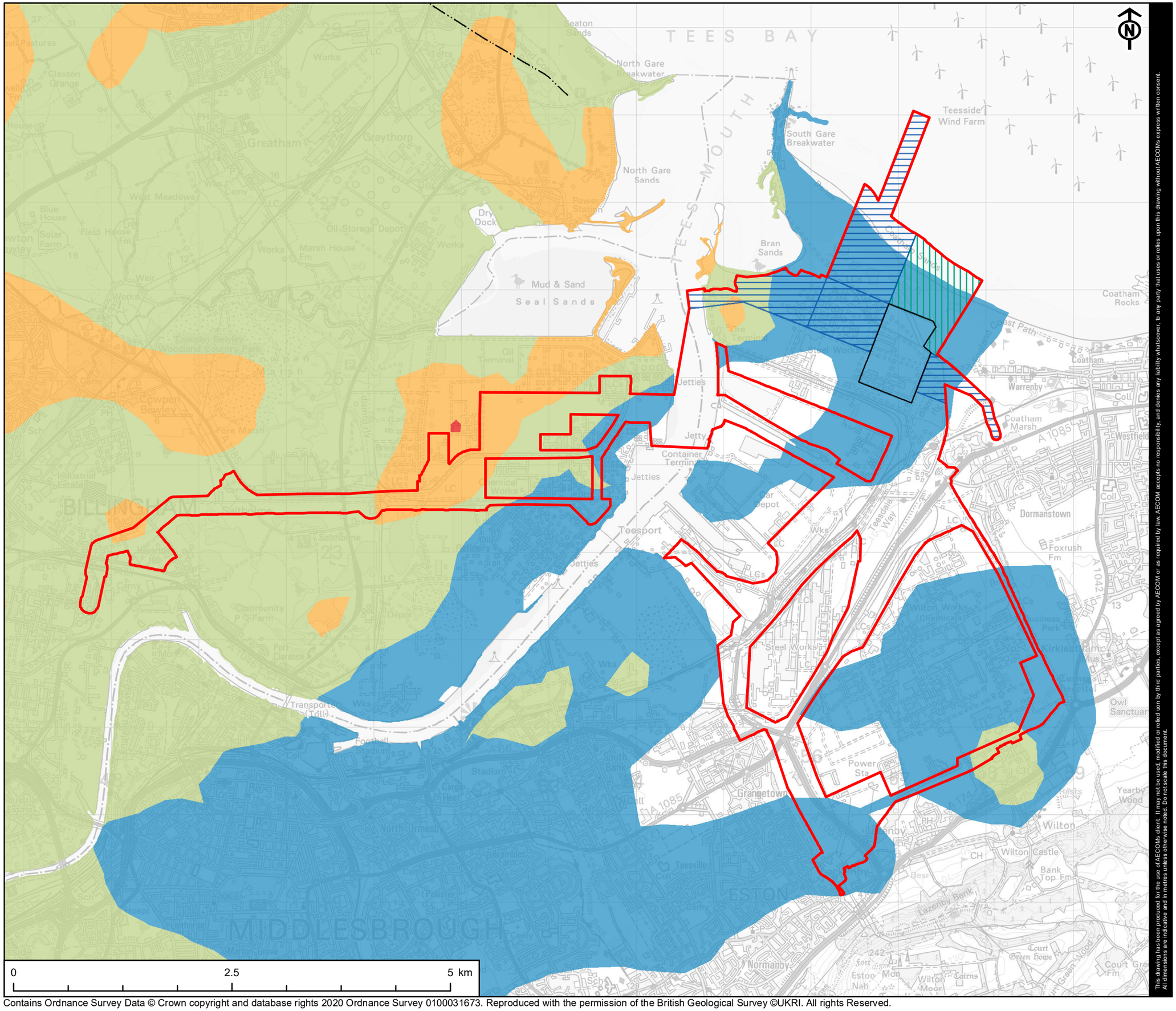
TITLE
FIGURE 10-24
AGRICULTURAL LAND CLASSIFICATION
POST 1988

REFERENCE
NZT_200618_PEI_S_10-24_v3

SHEET NUMBER
2 of 2

DATE
18/06/20

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PROJECT
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CLIENT
NZT POWER AND NZNS STORAGE

KEY

- Site Boundary
- Power, Capture and Compressor Site
- Water Connection Corridors
- CO_2 Export Pipeline
- Buried Valley Historic Centerline

Modelled Thickness of Buried Valleys

- 10m - 20m
- 20m - 30m
- 30m - 40m
- greater than 40m

TITLE
FIGURE 10-25
BGS BURIED VALLEYS

REFERENCE
NZT_200618_PEI_S_10-25_v3

SHEET NUMBER
1 of 1

DATE
18/06/2020