Drax Power Limited

DRAX REPOWER PROJECT

Preliminary Environmental Information Report Volume 2 - Figures

Public

70037047

January 2018

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<th>Final</th>
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<tr>
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<td>January 2018</td>
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<td>Location of Short List of other Developments considered for Cumulative Assessment</td>
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FIGURE 1.2
AERIAL VIEW OF THE SITE
**FIGURE 1.3**
CURRENT AND PROPOSED LAND USE

**DRAX REPOWER**

**TABLE:**

<table>
<thead>
<tr>
<th>Area</th>
<th>Current Description of Use</th>
<th>Intended and Potential Use (key elements only)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Parking land</td>
<td>Laydown, construction compound and construction car park. Land safeguarded for potential CCR.</td>
</tr>
<tr>
<td>B</td>
<td>Scrub land</td>
<td>Laydown, construction compound and construction car park. Land safeguarded for potential CCR.</td>
</tr>
<tr>
<td>C</td>
<td>Business Park and old wood yard</td>
<td>Construction offices - waste location, Battery Storage Facility.</td>
</tr>
<tr>
<td>D</td>
<td>Roadway</td>
<td>Construction staff roadway bridge. Plant interface connections between Area A, F and B if required for CCR.</td>
</tr>
<tr>
<td>E</td>
<td>Scrub land</td>
<td>Battery storage facility. Lift pipe work for associated sludge basins.</td>
</tr>
<tr>
<td>F</td>
<td>Existing coal fire power units</td>
<td>Location for units and return to both units and Y. Connection to 400kV substation.</td>
</tr>
<tr>
<td>G</td>
<td>Dismantle loading / unloading area</td>
<td>Dismantle / unloading of abnormal loads.</td>
</tr>
<tr>
<td>H</td>
<td>Mostly hard standing, recycling centre, fuel oil</td>
<td>Site contractor village and car parks, stores compound.</td>
</tr>
<tr>
<td>I</td>
<td>Plant land</td>
<td>Gas Receiving Facility.</td>
</tr>
</tbody>
</table>

**Key:**
- Site Boundary
- Development Parcels
- Gas Receiving Facility
- Gas Pipeline Route Options
  - Gas Pipeline A
  - Gas Pipeline B

**Legend:**
- Final

**Drawn by:**
CTCS 15,000 @ A3

**Stamp:**
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FIGURE 3.1c
ENVIRONMENTAL CONSTRAINTS - ACCESS ROUTES WITHIN 1KM

Key
- Site Boundary
- 500m Study Area
- 1km Study Area

Access Routes Within 1km
- Trans-Pennine Trail (Long Distance Walking Trail)
- Trans-Pennine Trail (National Cycle Route)
- Public Rights of Way (PRoW)
**FIGURE 3.2**  
**SITE LAYOUT**

**PROPOSED SINGLE UNIT CONFIGURATION**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>GAS TURBINE BUILDING</td>
</tr>
<tr>
<td>2</td>
<td>BYPASS STACKS</td>
</tr>
<tr>
<td>3</td>
<td>HIPS BUILDING</td>
</tr>
<tr>
<td>4</td>
<td>TRANSFORMER AREA</td>
</tr>
<tr>
<td>5</td>
<td>POWER CONTROL CENTRES</td>
</tr>
<tr>
<td>6</td>
<td>FEEDWATER PUMPHOUSE</td>
</tr>
<tr>
<td>7</td>
<td>FUEL GAS STATION WAIN</td>
</tr>
<tr>
<td>8</td>
<td>WAN PIPE RACK</td>
</tr>
<tr>
<td>9</td>
<td>GAS RECEIVING FACILITY</td>
</tr>
<tr>
<td>10</td>
<td>GAS COMPRESSOR BUILDING</td>
</tr>
<tr>
<td>11</td>
<td>GAS INSULATED SWITCH GEAR</td>
</tr>
<tr>
<td>12</td>
<td>NOT USED</td>
</tr>
<tr>
<td>13</td>
<td>BATTERY ENERGY STORAGE FACILITY</td>
</tr>
<tr>
<td>14</td>
<td>TURBINE OUTAGE STORE (TOS) BUILDING</td>
</tr>
<tr>
<td>15</td>
<td>CONNECTION POINT TO 400kV SUBSTATION FOR NEW UNITS</td>
</tr>
</tbody>
</table>

**LEGEND**

- **SITE BOUNDARY**
- **400kV SUBSTATION BOUNDARY**
- **INDICATIVE FUEL GAS PIPELINE ROUTE**
- **PIPELINE CORRIDOR**
- **UNIT X**
- **FENCING (IN CONTRACTOR'S VILLA)**

**NOTES**

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<thead>
<tr>
<th>ID</th>
<th>Existing buildings / structures</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Contractors (Doosan) compound. Steel framed sheds and modular office buildings.</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Turbine Outage Store. Steel framed and clad building.</td>
<td>18m high</td>
</tr>
<tr>
<td>3</td>
<td>Learning / Visitors Centre and hard standing car park.</td>
<td>18m high</td>
</tr>
<tr>
<td>4</td>
<td>Contractors compound - range of contractors portable cabins used for offices, storage and mess rooms. Brick built single storey welfare facility to the north of the compound. Hard standing over entire area.</td>
<td>2.5 - 5m high depending upon single or double stacked</td>
</tr>
<tr>
<td>5</td>
<td>Car Park - hard standing.</td>
<td>N/A</td>
</tr>
<tr>
<td>6</td>
<td>Contractors compound - Steel framed work sheds and modular office buildings.</td>
<td>2.5m - 5m high</td>
</tr>
<tr>
<td>7</td>
<td>Modular buildings, 1st storey welfare (canteen) facilities, 2nd storey offices. Brick built single storey washroom facilities.</td>
<td>Approx. 5m high</td>
</tr>
<tr>
<td>8</td>
<td>Sludge lagoons</td>
<td>Approx. 3m deep below ground</td>
</tr>
<tr>
<td>9</td>
<td>Riggers Store and Drawing Archive - Steel framed and cladding</td>
<td>Approx. 3m high to apex of roof</td>
</tr>
</tbody>
</table>
FIGURE 5.2
ABNORMAL LOAD ROUTE FROM GOOLE

KEY
- Site Boundary
- Preliminary Assumption Abnormal Load Route from Goole

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70037047 PH RMcC 13/12/2017
CTPH40,000 @ A3
FIGURE 5.2
ABNORMAL LOAD ROUTE FROM GOOLE

Client:
DRAX REPPOWER

Drawn by:
RMcC

Approval:
CT

Check:
PH

Scale @ A3:
1,000 2,000 3,000 4,000 500 m

±

0 500 1,000 2,000 3,000 4,000 m

Goole

Camlesforth

Carlton

Hales

Hull

Hook

Howden

Hemming

Hemn

Hemn
dough

Pasture

Clough

A63

A63

A63

A614

M62

M18

35

36

37

±
FIGURE 5.3
ABNORMAL LOAD ROUTE FROM JETTY

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FIGURE 7.1
OPERATIONAL NOISE CONTOUR PLOT

Key
- Site Boundary
- Noise Sensitive Receptor (NSR)

L Aeq 1hr
- 60 - 65 dB
- 55 - 60 dB
- 50 - 55 dB
- 45 - 50 dB
- 40 - 45 dB
- 35 - 40 dB
- 30 - 35 dB
- 25 - 30 dB
- < 25 dB
FIGURE 7.2
NOISE SENSITIVE RECEPTORS
FIGURE 7.3
ECOLOGICAL NOISE SENSITIVE RECEPTORS

Note:
No Ancient Woodland located within 2km of the Site Boundary
Key
- Site Boundary
- 10km Buffer
- East Riding of Yorkshire Council Conservation Area

Listed Building
- Grade I
- Grade II*
- Grade II

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FIGURE 8.1o
DESIGNATED HERITAGE ASSET
CONSTRAINTS PLAN
SHEET 15

DRAX REPOWER

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FIGURE 9.1
STATUTORY ECOLOGICAL DESIGNATED SITES

- Humber Estuary SSSI
- Thorne, Crowle and Goole Moors SSSI
- Burr Closes, Selby SSSI
- Eskamhorn Meadows SSSI
- Forlorn Hope Meadow SSSI
- Went Ings Meadows SSSI
- River Derwent SSSI
- Barn Hill Meadows SSSI
- Barlow Common LNR
- Eastrington Ponds LNR
- Howden Marsh LNR
- Mayfield & Broom Park LNR
- Sugar Mill Ponds LNR
- Humber Estuary SPA
- Lower Derwent Valley SPA
- Lower Derwent Valley SAC
- Barlow Common SAC
- Humber Estuary SAC
- Lower Derwent Valley SAC
- River Derwent SAC
- Thorne Moor SAC
- Thorne & Hatfield Moors SPA
- Lower Derwent Valley SPA
FIGURE 9.2
NON-STATUTORY DESIGNATED SITES AND HABITATS OF PRINCIPAL IMPORTANCE

Site Boundary
1km Buffer
2km Buffer
Sites of Importance for Nature Conservation (SINC)
Priority Habitats
- Coastal and floodplain grazing marsh
- Deciduous woodland
- Lowland fens
- Lowland meadows
- Mudflats
- Traditional orchard
- No main habitat but additional habitats
- Pond
- River

Note:
No Ancient Woodland located within 2km of the Site Boundary.

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FIGURE 9.3a
PHASE 1 HABITAT MAP SHEET 1 OF 13

PROJECT: DRAX REPOWER

TITLE: FIGURE 9.3a

DRAWING No: 70037047

DECLARATION: This document does not form part of the planning application. It is provided for information only.

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Key
- Site Boundary
- Phase 1 Habitats
- Target Note (see Sheet 13 for descriptions)
  - Semi-improved grassland
  - Defunct hedge - species-poor
  - Dry ditch
  - Hard standing
  - Broadleaved Parkland/scattered trees
  - Buildings
  - Cultivated/disturbed land - amenity grassland
  - Cultivated/disturbed land - arable
  - Improved grassland
  - Introduced shrub
  - Mixed woodland - plantation
  - Other tall herb and fern - ruderal
  - Semi-improved grassland
  - Scrub - dense/continuous
  - Standing water

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FIGURE 9.4
PRELIMINARY BAT SURVEY RESULTS

Note:
Other than those identified, all buildings within the Site have been assessed as negligible bat roost potential.

Scheme Area C - Building 1
Scheme Area B - trees with suitability for roosting bats
Pipeline B Area - trees with suitability for roosting bats
Scheme Area F - Buildings 1 & 2

Trees With Suitability for Roosting Bats
- High
- Moderate
- Low

Site Boundary
Scheme Areas
Buildings Surveyed
Surveyor Position

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FIGURE 10.1
LANDSCAPE DESIGNATIONS AND NATIONAL ACCESS ROUTES

Key
- Site Boundary
- 10km Study Area
- District Boundary

Built Environment Designations
- Grade I Listed Building
- Grade II* Listed Building
- Grade II Listed Building
- Conservation Area
- Registered Parks and Gardens
- Scheduled Monument

National Access Routes
- Trans-Pennine Trail (Long Distance Walking Trail)
- Trans-Pennine Trail (National Cycle Route)
FIGURE 10.4
DIGITAL SURFACE MODEL

Key
- Site Boundary
- 10km Study Area
- LIDAR Data Unavailable - Gap Filled
  - With OS Terrain 5 Data (Bare Earth)
- LIDAR Digital Surface Model (DSM)
  (2m Resolution) and OS Terrain 5
  (DTM) (Resampled to 2m Resolution)

Elevation (mAOD)
- High : 309.674
- Low : -8.192
Assumptions and Limitations:

Viewshed analysis based upon:
- EA LIDAR (2m resolution) Digital Surface Model. Model uses OS Terrain 5 (resampled from 5m to 2m resolution) where LIDAR data unavailable (area indicated on map).
- Screening not considered in these areas:
  - Key infrastructure of Units X and Y modelled at heights indicated in inset;
  - Observer height of 1.6m.

Modelled Height of Proposed Development

Assumptions and Limitations:

Viewshed analysis based upon:
- EA LIDAR (2m resolution) Digital Surface Model. Model uses OS Terrain 5 (resampled from 5m to 2m resolution) where LIDAR data unavailable (area indicated on map).
- Screening not considered in these areas:
  - Key infrastructure of Units X and Y modelled at heights indicated in inset;
  - Observer height of 1.6m.

Unit X and Y

Height of Modelled Features (m)

- 25.5m
- 37.5m
- 120m
Assumptions and Limitations:

Viewshed analysis based upon:
- EA LIDAR (2m resolution) Digital Surface Model. Model uses OS Terrain 5 (resampled from 5m to 2m resolution) where LIDAR data unavailable (area indicated on map).
- Screening not considered in these areas;
- Final location of MOC and PIG infrastructure unknown as this time. Therefore the viewshed assesses the entire area of potential siting, modelled at 4m;
- Observer height of 1.6m.
Assumptions and Limitations:

Viewshed analysis based upon:
- EA LIDAR (2m resolution) Digital Surface Model. Model uses OS Terrain 5 (resampled from 5m to 2m resolution) where LIDAR data unavailable (area indicated on map).
- Final location of MOC and PIG infrastructure unknown as this time. Therefore the viewshed assesses the entire area of potential siting, modelled at 4m.
- Observer height of 1.6m.

Modelled Area of Potential Location of MOC and PIG Infrastructure

Figure 10.7
ZONE OF THEORETICAL VISIBILITY (ZTV) OF PIPELINE B / PIG AND MOC
Assumptions and Limitations:

- Viewshed analysis based upon:
  - EA LIDAR (2m resolution) Digital Surface Model. Model uses OS Terrain 5 (resampled from 5m to 2m resolution) where LIDAR data unavailable (area indicated on map).
  - Screening not considered in these areas; ZTV does not consider screening effect of other elements of the Proposed Scheme (e.g. Units X and Y), and
  - Observer height of 1.6m.

---

**FIGURE 10.8**

ZONE OF THEORETICAL VISIBILITY (ZTV) OF PROPOSED BATTERY STORAGE AREA - DIGITAL SURFACE MODEL

- Assumptions and Limitations:
  - Viewshed analysis based upon:
    - EA LIDAR (2m resolution) Digital Surface Model. Model uses OS Terrain 5 (resampled from 5m to 2m resolution) where LIDAR data unavailable (area indicated on map).
    - Screening not considered in these areas; ZTV does not consider screening effect of other elements of the Proposed Scheme (e.g. Units X and Y), and
    - Observer height of 1.6m.
Assumptions and Limitations:

Viewshed analysis based upon:
- EA LiDAR (2m resolution) Digital Surface Model. Model uses OS Terrain 5 (resampled from 5m to 2m resolution) where LiDAR data unavailable (area indicated on map).
- Screening not considered in these areas:
  - ZTV does not consider screening effect of other elements of the Proposed Scheme (e.g. Units X and Y) and
  - Observer height of 1.6m.

FIGURE 10.9
ZONE OF THEORETICAL VISIBILITY (ZTV) OF PROPOSED GAS RECEIVING FACILITY - DIGITAL SURFACE MODEL

Proposed Gas Receiving Facility

Drax Repower

FIGURE 10.9
ZONE OF THEORETICAL VISIBILITY (ZTV) FOR PROPOSED BATTERY STORAGE AREA FOR GAS RECEIVING FACILITY
Figure 2: Viewpoint Photographs

Photography Date: 26/09/2017  Time: 16:11
Lens: 55 mm full frame equivalent

FIGURE 10.12.1 (AUTUMN)

Viewpoint Location: Detailed Viewpoint Location

Receptor type: Users of PRoW (Howden 20)/ Residents nearby
Distance from site (Approximate): 9 km
Elevation (Approximate): 5 m
Grid reference: SE 70797 35469
ST. JAMES & LANGSTONE CAMPUS PLOT 1

LANDSCAPE AND VISUAL APPRAISAL

FIGURE 2 VIEWPOINT PHOTOGRAPHS

Photography Date: 26/09/2017  Time: 16:11
Lens: 55mm full frame equivalent

Location of visual receptor

DRAX REPOWERING PROJECT

LANDSCAPE AND VISUAL IMPACT ASSESSMENT

Receptor type: Users of PRoW/ Residents nearby

Distance from site (Approximate): 4km

Elevation (Approximate): 5m

Grid reference: SE 70486 30080

VIEW 2: VIEW FROM PRoW CLOSE TO LOFTSOME BRIDGE

FIGURE 10.12.2 (AUTUMN)
LANDSCAPE AND VISUAL IMPACT ASSESSMENT

Receptor type: Users of PRoW/ Residents nearby
Distance from site (Approximate): 4km
Elevation (Approximate): 5m
Grid reference: SE 70486 30080

Lens: 55mm full frame equivalent

VIEW 2: VIEW FROM PRoW CLOSE TO LOFSOME BRIDGE

FIGURE 10.12.2 (WINTER)
Figure 2: Viewpoint Photographs
Photography Date: 26/09/2017  Time: 16:11
Lens: 55mm full frame equivalent

VP1, VP2, VP3, VP4, VP5, VP6, VP7, VP8, VP9, VP10, VP13, VP11, VP14, VP15, VP16, VP17, VP18, VP20, VP12, VP21

Approximate extent of Unit X and Y

Figure 10.12.3 (Autumn)

Location of visual receptor

Viewpoint Location

Photography Date: 04.10.2017  Time: 11:20

Lens: 55mm full frame equivalent
Receptor type: Road users/ Users of PRoW/ Residents nearby
Distance from site (Approximate): 0.5km
Elevation (Approximate): 5m
Grid reference: SE 67284 28201

Drax Repowering Project
Landscape and Visual Impact Assessment
View 3: View from Pear Tree Avenue (Winter View)
Figure 10.12.3 (Autumn)
ST. JAMES & LANGSTONE CAMPUS PLOT 1
LANDSCAPE AND VISUAL APPRAISAL

FIGURE 2 VIEWPOINT PHOTOGRAPHS
Photography Date: 26/09/2017  Time: 16:11
Lens: 55mm full frame equivalent

VP1  VP2  VP3  VP4  VP5  VP6  VP7  VP8  VP9  VP10  VP11  VP12  VP13  VP14  VP15  VP16  VP17  VP18  VP19  VP20  VP21

± 02468 1 01  km

Location of visual receptor

VIEWPOINT LOCATION

DRAX REPOWERING PROJECT
LANDSCAPE AND VISUAL IMPACT ASSESSMENT
VIEW 3: VIEW FROM PEAR TREE AVENUE

Approximate extent of Unit X and Y

Receptor type: Road users/ Users of PRoW/ Residents nearby
Distance from site (Approximate): 0.5km
Elevation (Approximate): 5m
Grid reference: SE 67284 28201

13.12.2017 14:22

FIGURE 10.12.3 (WINTER)
St. James & Langstone Campus Plot 1

**Landscape and Visual Appraisal**

**Figure 2: Viewpoint Photographs**

Photography Date: 26/09/2017  Time: 16:11
Lens: 55mm full frame equivalent

VP1  VP2  VP3  VP5  VP4  VP6  VP7  VP8  VP9  VP10  VP13  VP11  VP14  VP15  VP16  VP17  VP18  VP19  VP20  VP12  VP21

Location of visual receptor

**Viewpoint Location**

- Users of PRoW (Trans Pennine Trail and Howden 20/ Residents nearby
- Distance from site (Approximate): 2km
- Elevation (Approximate): 5m
- Grid reference: SE 68056 28634

**Approximate extent of Unit X and Y**

DRAX REPOWERING PROJECT
LANDSCAPE AND VISUAL IMPACT ASSESSMENT
VIEW 4: VIEW FROM THE BARRAGE CLOSE TO BARMBY ON THE MARSH
FIGURE 10.12.4 (AUTUMN)
Approximate extent of Unit X and Y

Location of visual receptor
Viewpoint Location
Detailed Viewpoint Location

Photography Date: 14.12.2017  Time: 14:43
Lens: 55mm full frame equivalent
Receptor type: Users of PRoW (Trans Pennine Trail and Howden 20)’ Residents nearby
Distance from site (Approximate): 2km
Elevation (Approximate): 5m
Grid reference: SE 68056 28634

DRAX REPOWERING PROJECT
LANDSCAPE AND VISUAL IMPACT ASSESSMENT

VIEW 4: VIEW FROM THE BARRAGE CLOSE TO BARMBY ON THE MARSH
FIGURE 10.12.4 (WINTER)
LANDSCAPE AND VISUAL IMPACT ASSESSMENT

Receptor type: Residents/ Road users
Distance from site (Approximate): 2km
Elevation (Approximate): 5m
Grid reference: SE 68684 28721

DRAX REPOWERING PROJECT
LANDSCAPE AND VISUAL IMPACT ASSESSMENT
VIEW 5: VIEW FROM BARMBY ON THE MARSH
FIGURE 10.12.5 (AUTUMN)
LANDSCAPE AND VISUAL IMPACT ASSESSMENT

Receptor type: Residents/ Road users
Distance from site (Approximate): 2km
Elevation (Approximate): 5m
Grid reference: SE 68684 28721

Photography Date: 14.12.2017    Time: 14:34
Lens: 55mm full frame equivalent

VIEW 5: VIEW FROM BARMBY ON THE MARSH
FIGURE 10.12.5 (WINTER)
Location of visual receptor

Viewpoint Location

Photography Date: 04.10.2017  Time: 09:56
Lens: 55mm full frame equivalent
Receptor type: Users of PRoW (Trans Pennine Trail and Howden 20)/ Residents within Asselby
Distance from site (Approximate): 2.5km
Elevation (Approximate): 5m
Grid reference: SE 71921 27634

DRAX REPOWERING PROJECT
LANDSCAPE AND VISUAL IMPACT ASSESSMENT
VIEW 6: VIEW FROM PRoW ALONG LANDING LANE
FIGURE 10.12.6 (AUTUMN)
Photography Date: 26/09/2017  Time: 16:11
Lens: 55mm full frame equivalent
Receptor type: Residents of properties nearby/ Road Users – local road and M62/
Users of PRoW (Trans Pennine Trail and Howden 20)/ Workers in warehouse nearby
Distance from site (Approximate): 7.5km
Elevation (Approximate): 5m
Grid reference: SE 75856 27391

Approximate extent of Unit X and Y

Location of visual receptor

Viewpoint Location

Detailed Viewpoint Location

VIEW 7: VIEW FROM BROAD LANE, SOUTH EAST OF HOWDEN

DRAX REPOWERING PROJECT
LANDSCAPE AND VISUAL IMPACT ASSESSMENT
FIGURE 10.12.7 (AUTUMN)
Location of visual receptor

Photography Date: 04.10.2017  Time: 09:29
Lens: 55mm full frame equivalent
Receptor type: Residents/ Users of PRoW
Distance from site (Approximate): 2.5km
Elevation (Approximate): 5m
Grid reference: SE 72458 25188
ST. JAMES & LANGSTONE CAMPUS PLOT 1
LANDSCAPE AND VISUAL APPRAISAL
FIGURE 2 VIEWPOINT PHOTOGRAPHS
Photography Date: 26/09/2017  Time: 16:11
Lens: 55mm full frame equivalent

VP1 VP2 VP3 VP4 VP5 VP6 VP7 VP8 VP9 VP10 VP13 VP11 VP14 VP15 VP16 VP17 VP18 VP19 VP20 VP12 VP21

± 02468 1 01 km

Location of visual receptor

Viewpoint Location

LANDSCAPE AND VISUAL IMPACT ASSESSMENT
Receptor type: Users of PRoW/ Residents
Distance from site (Approximate): 0.5km
Elevation (Approximate): 6m
Grid reference: SE 67475 26635

DRAX REPOWERING PROJECT
LANDSCAPE AND VISUAL IMPACT ASSESSMENT
VIEW 9: VIEW FROM PRoW CLOSE TO DRAX VILLAGE
FIGURE 10.12.9 (AUTUMN)
LANDSCAPE AND VISUAL IMPACT ASSESSMENT

Receptor type: Users of PRoW/ Residents
Distance from site (Approximate): 0.5km
Elevation (Approximate): 6m
Grid reference: SE 67475 26635

Approximate extent of Unit X and Y

Location of visual receptor

Photography Date: 14.12.2017    Time: 15:24
Lens: 55mm full frame equivalent

VIEW 9: VIEW FROM PRoW CLOSE TO DRAX VILLAGE
FIGURE 10.12.9 (WINTER)
Location of visual receptor

Viewpoint Location

Detailed Viewpoint Location

Photography Date: 04.10.2017 Time: 10:51
Lens: 55mm full frame equivalent
Receptor type: Users of PRoW/ Residents users/ Visitors to Carlton schools/ Road users
Distance from site (Approximate): 2.5km
Elevation (Approximate): 5m

Grid reference: SE 64903 24811
VIEW 10: VIEW FROM LONG HEDGE LANE

Photography Date: 13.12.2017   Time: 12:55
Lens: 55mm full frame equivalent
Receptor type: Users of PROW/ Residents users/ Visitors to Carlton schools/ Road users
Distance from site (Approximate): 2.5km
Elevation (Approximate): 5m
Grid reference: SE 64903 24811

Location of visual receptor

DRAX REPOWERING PROJECT
LANDSCAPE AND VISUAL IMPACT ASSESSMENT
VIEW 10: VIEW FROM LONG HEDGE LANE
FIGURE 10.12.10 (WINTER)
ST. JAMES & LANGSTONE CAMPUS PLOT 1

LANDSCAPE AND VISUAL APPRAISAL

FIGURE 2 VIEWPOINT PHOTOGRAPHS

Photography Date: 26/09/2017   Time: 16:11
Lens: 55mm full frame equivalent

VP1 - VP20

LOCATION OF VISUAL RECEPTOR

Viewpoint Location

Receptor type: Users of PRoW/ Users of New Junction Canal/ Residents nearby
Distance from site (Approximate): 8.5km
Elevation (Approximate): 5m
Grid reference: SE 64927 18314

DRAX REPOWERING PROJECT
LANDSCAPE AND VISUAL IMPACT ASSESSMENT
VIEW 11: VIEW FROM WENT END FOOTBRIDGE
FIGURE 10.12.11 (AUTUMN)
ST. JAMES & LANGSTONE CAMPUS PLOT 1

LANDSCAPE AND VISUAL APPRAISAL

FIGURE 2 VIEWPOINT PHOTOGRAPHS

Photography Date: 26/09/2017  Time: 16:11
Lens: 55mm full frame equivalent

VP1 VP2 VP3 VP4 VP5 VP6 VP7 VP8 VP9 VP10 VP13 VP11 VP14 VP15 VP16 VP17 VP18 VP19 VP20 VP21

±  02468 1 01

km

Location of visual receptor

Viewpoint Location

Receptor type: Residents/ Road users
Distance from site (Approximate): 10km
Elevation (Approximate): 5m
Grid reference: SE69283 16261

LANDSCAPE AND VISUAL IMPACT ASSESSMENT

DRAX REPOWERING PROJECT
VIEW 12: VIEW FROM JOHNNY MOOR LONG LANE
FIGURE 10.12.12 (AUTUMN)
Approximate extent of Unit X and Y

Location of visual receptor

Viewpoint Location

Photography Date: 03.10.2017  Time: 13:36
Lens: 55mm full frame equivalent
Receptor type: Residents/ Users of PRoW/ Road users
Distance from site (Approximate): 5km
Elevation (Approximate): 9m
Grid reference: SE 65286 21713

DRAX REPOWERING PROJECT
LANDSCAPE AND VISUAL IMPACT ASSESSMENT
VIEW 13. VIEW FROM FISH BALK LANE
FIGURE 10.12.13 (AUTUMN)
**ST. JAMES & LANGSTONE CAMPUS PLOT 1**

**LANDSCAPE AND VISUAL APPRAISAL**

**FIGURE 2 VIEWPOINT PHOTOGRAPHS**

- **Photography Date:** 26/09/2017  Time: 16:11
- **Lens:** 55mm full frame equivalent

**VP1**  
VP2  
VP3  
VP4  
VP5  
VP6  
VP7  
VP8  
VP9  
VP10  
VP13  
VP11  
VP14  
VP15  
VP16  
VP17  
VP18  
VP19  
VP20  
VP12  
VP21

**Location of visual receptor**

**Viewpoint Location**

**Detailed Viewpoint Location**

- **Photography Date:** 03.10.2017  Time: 12:30
- **Lens:** 55mm full frame equivalent
- **Receptor type:** Users of PROW (close to Trans Pennine Trail)  
  Rail users/ Users of disused airfield/ Residents
- **Distance from site (Approximate):** 6km
- **Elevation (Approximate):** 6m
- **Grid reference:** SE 60646 27123

**Approximate extent of Unit X and Y**

**DRAX REPOWERING PROJECT**

**LANDSCAPE AND VISUAL IMPACT ASSESSMENT**

**VIEW 14: VIEW FROM PROW NEAR DISUSED AIRFIELD**

**FIGURE 10.12.14 (AUTUMN)**
ST. JAMES & LANGSTONE CAMPUS PLOT 1
LANDSCAPE AND VISUAL APPRAISAL

FIGURE 2 VIEWPOINT PHOTOGRAPHS

Photography Date: 26/09/2017  Time: 16:11
Lens: 55mm full frame equivalent

Location of visual receptor
Viewpoint Location

Approximate extent of Unit X and Y

DRAX REPOWERING PROJECT
LANDSCAPE AND VISUAL IMPACT ASSESSMENT
VIEW 14. VIEW FROM PRoW NEAR DISUSED AIRFIELD
FIGURE 10.12.14 (WINTER)
Location of visual receptor

Viewpoint Location

Photography Date: 03.10.2017    Time: 11:13
Lens: 55mm full frame equivalent
Receptor type: Users of Country Park and surrounding PRoW/ Road users/ Users of Selby Golf Course/ Residents nearby
Distance from site (Approximate): 7.5km
Elevation (Approximate): 15m
Grid reference: SE 58730 30260

Figure 10.12.15 (Autumn)
LANDSCAPE AND VISUAL IMPACT ASSESSMENT

Receptor type: Road users (A1041 and Braunton Lane)/ Residents nearby

Approximate extent of Unit X and Y

Photography Date: 04.10.2017  Time: 06:41
Lens: 55mm full frame equivalent

Distance from site (Approximate): 3km
Elevation (Approximate): 5m

Grid reference: SE 63371 27216

DRAX REPOWERING PROJECT
LANDSCAPE AND VISUAL IMPACT ASSESSMENT
VIEW 16: VIEW FROM BRAUNTON LANE CLOSE TO A1041
FIGURE 10.12.16 (AUTUMN)
Approximate extent of Unit X and Y

Photography Date: 04.10.2017  Time: 06:50
Lens: 55mm full frame equivalent
Receptor type: Road users/ Residents nearby
Distance from site (Approximate): 2km
Elevation (Approximate): 5m
Grid reference: SE 64405 29235
Photography Date: 14.12.2017  Time: 12:40
Lens: 55mm full frame equivalent
Receptor type: Road users/ Residents nearby
Distance from site (Approximate): 2km
Elevation (Approximate): 5m
Grid reference: SE 64405 29235
Photography Date: 04.10.2017    Time: 07:19
Lens: 55mm full frame equivalent
Receptor type: Road users/ Rail users/ Residents nearby
Distance from site (Approximate): 4.5km
Elevation (Approximate): 11m
Grid reference: SE 66195 31971
Approximate extent of Unit X and Y

Drax Repowering Project
Landscape and Visual Impact Assessment

View 19: View from Church Hill, Holme on Spalding

Figure 10.12.19 (Autumn)

Photography Date: 04.10.2017  Time: 08:35

Lens: 55mm Full Frame Equivalent

Receptor type: Users of PRoW/ Congregation to All Saints Church (Grade I Listed Building)

Distance from site (Approximate): 13km

Elevation (Approximate): 35m

Grid reference: SE 82056 38921
DRAX REPOWERING PROJECT
LANDSCAPE AND VISUAL IMPACT ASSESSMENT

VIEW 20: VIEW FROM JULIAN BOWER SCHEDULED MONUMENT, ALKBOROUGH
FIGURE 10.12.20 (AUTUMN)

Approximate extent of Unit X and Y

Location of visual receptor

Viewpoint Location

Detailed Viewpoint Location

Photography Date: 03.10.2017 Time: 15:57
Lens: 55mm full frame equivalent
Receptor type: Users of PRoW/ Visitors to the SM
Distance from site (Approximate): 19km
Elevation (Approximate): 45m
Grid reference: SE 88030 21764
ST. JAMES & LANGSTONE CAMPUS PLOT 1

LANDSCAPE AND VISUAL APPRAISAL

FIGURE 2 VIEWPOINT PHOTOGRAPHS

Photography Date: 26/09/2017  Time: 16:11
Lens: 55mm full frame equivalent

VP1  VP2  VP3  VP4  VP5  VP6  VP7  VP8  VP9  VP10  VP13  VP11  VP14  VP15  VP16  VP17  VP18  VP19  VP20  VP12  VP21

± 02468 1 01

km

Location of visual receptor

Viewpoint Location

Detailed Viewpoint Location

LANDSCAPE AND VISUAL IMPACT ASSESSMENT

Receptor type: Users of PRoW/ Visitors to the SM
Distance from site (Approximate): 19km
Elevation (Approximate): 45m
Grid reference: SE 88030 21764

DRAX REPOWERING PROJECT

VIEWPOINT LOCATION

VIEW 21: VIEW FROM PRoW THROUGH DRAX GOLF COURSE

FIGURE 10.12.21 (WINTER)
Viewpoint 3
OS Grid Ref.: 467436, 428143
Direction of view: South Westerly
Ground elevation: 3.12m AOD
Time taken: 14:18pm
Date taken: 13/12/2017
Site distance: 1050m
Camera: Nikon D3200 with a fixed 35mm lens
Horizontal field of view: 36.66 degrees
Camera height: 1.6m

When printed at A3 and viewed at a comfortable arm’s length (Approx 500mm), this printed image is representative of our detailed central vision, but not representative of scale and distance.
Viewpoint 3

OS Grid Ref: 467436, 428143
Direction of view: South Westerly
Ground elevation: 3.12m AOD
Time taken: 14:18pm
Date taken: 13/12/2017
Site distance: 1050m
Camera: Nikon D3200 with a fixed 35mm lens
Horizontal field of view: 36.66 degrees
Camera height: 1.6m

When printed at A3 and viewed at a comfortable arm’s length (Approx 500mm), this printed image is representative of our detailed central vision, but not representative of scale and distance.
Viewpoint 5

OS Grid Ref: 468648, 428731
Direction of view: South Westerly
Ground elevation: 5.155m AOD
Time taken: 14:29pm
Date taken: 14/12/2017
Site distance: 2375m
Camera: Nikon D3200 with a fixed 35mm lens
Horizontal field of view: 36.66 degrees
Camera height: 1.6m

When printed at A3 and viewed at a comfortable arm’s length (Approx 500mm), this printed image is representative of our detailed central vision, but not representative of scale and distance.
Viewpoint 5
OS Grid Ref: 468648, 428731
Direction of view: South Westerly
Ground elevation: 5.155m AOD
Time taken: 14:29pm
Date taken: 14/12/2017
Site distance: 2375m
Camera: Nikon D3200 with a fixed 35mm lens
Horizontal field of view: 36.66 degrees
Camera height: 1.6m

When printed at A3 and viewed at a comfortable arm's length (Approx 500mm), this printed image is representative of our detailed central vision, but not representative of scale and distance.
**Viewpoint 6**

- **OS Grid Ref.**: 471920, 427637
- **Direction of view**: Westerly
- **Ground elevation**: 4.675m AOD
- **Time taken**: 14:15pm
- **Date taken**: 14/12/2017
- **Site distance**: 5280m
- **Camera**: Nikon D3200 with a fixed 35mm lens
- **Horizontal field of view**: 36.66 degrees
- **Camera height**: 1.6m

When printed at A3 and viewed at a comfortable arm’s length (Approx 500mm), this printed image is representative of our detailed central vision, but not representative of scale and distance.
Viewpoint 6

**OS Grid Ref:** 471920, 427637

**Direction of view:** Westerly

**Ground elevation:** -4.675m AOD

**Time taken:** 14:15pm

**Date taken:** 14/12/2017

**Site distance:** 5280m

**Camera:** Nikon D3200 with a fixed 35mm lens

**Horizontal field of view:** 36.66 degrees

**Camera height:** 1.6m

When printed at A3 and viewed at a comfortable arm’s length (Approx 500mm), this printed image is representative of our detailed central vision, but not representative of scale and distance.
**Viewpoint 13**

- **OS Grid Ref:** 465286, 421712
- **Direction of view:** North Easterly
- **Ground elevation:** 8.922m AOD
- **Time taken:** 11:55am
- **Date taken:** 13/12/2017
- **Site distance:** 5935m
- **Camera:** Nikon D3200 with a fixed 35mm lens
- **Horizontal field of view:** 36.66 degrees
- **Camera height:** 1.6m

When printed at A3 and viewed at a comfortable arm’s length (Approx 500mm), this printed image is representative of our detailed central vision, but not representative of scale and distance.
Viewpoint 13

OS Grid Ref: 465286, 421712
Direction of view: North Easterly
Ground elevation: 8.922m AOD
Time taken: 11:55am
Date taken: 13/12/2017
Site distance: 5935m
Camera: Nikon D3200 with a fixed 35mm lens
Horizontal field of view: 36.66 degrees
Camera height: 1.6m

When printed at A3 and viewed at a comfortable arm’s length (Approx 500mm), this printed image is representative of our detailed central vision, but not representative of scale and distance.
Viewpoint 15
OS Grid Ref. : 458801, 430586
Direction of view : South Easterly
Ground elevation : 15.582m AOD
Time taken : 10:45am
Date taken : 14/12/2017
Site distance : 8475m
Camera : Nikon D3200 with a fixed 35mm lens
Horizontal field of view : 36.66 degrees
Camera height : 1.6m

When printed at A3 and viewed at a comfortable arm’s length (Approx 500mm), this printed image is representative of our detailed central vision, but not representative of scale and distance.
**Viewpoint 15**

OS Grid Ref: 458801, 430586
Direction of view: South Easterly
Ground elevation: 15.582m AOD
Time taken: 10:45am
Date taken: 14/12/2017
Site distance: 8475m
Camera: Nikon D3200 with a fixed 35mm lens
Horizontal field of view: 36.66 degrees
Camera height: 1.6m

When printed at A3 and viewed at a comfortable arm's length (Approx 500mm), this printed image is representative of our detailed central vision, but not representative of scale and distance.
Superficial Deposits

- Alluvium - Clay, Silt, Sand and Gravel
- Breighton Sand Formation - Sand
- Hemingbrough Glaciolacustrine Formation - Clay, Silty
- Lacustrine Beach Deposits - Sand and Gravel
- Warp - Clay and Silt

Key
- Site Boundary
- 250m Buffer of Site Boundary

Figures 11.1
Superficial Geology

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Key

- Site Boundary
- 1km Buffer

Source Protection Zones
- Zone I - Inner Protection Zone
- Zone II - Outer Protection Zone
- Zone III - Total Catchment

Watercourses

Risk of Flooding from Surface Water
- 1 in 30 annual chance
- 1 in 100 annual chance
- 1 in 1000 annual chance

Note:
Flood Zones 2 & 3 are included in Figure 12.2
FIGURE 12.2
FLOOD ZONES AND AREAS BENEFITING FROM DEFENCES
Key

- Site Boundary

Agricultural Land Class

- Grade 1
- Grade 2
- Grade 3

FIGURE 14.1
AGRICULTURAL LAND CLASS

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<th>© WSP UK Ltd</th>
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