Nigg East Quay

Volume 2: Figures

June 2019

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Legend

Site Boundary

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Project
Nigg East Quay

Title
Figure 1.1 - Site Location Plan

Status
FINAL

Drawing No.	Revision
671906-001	

Scale		Date
1:15,000	A3	12 Feb 2019

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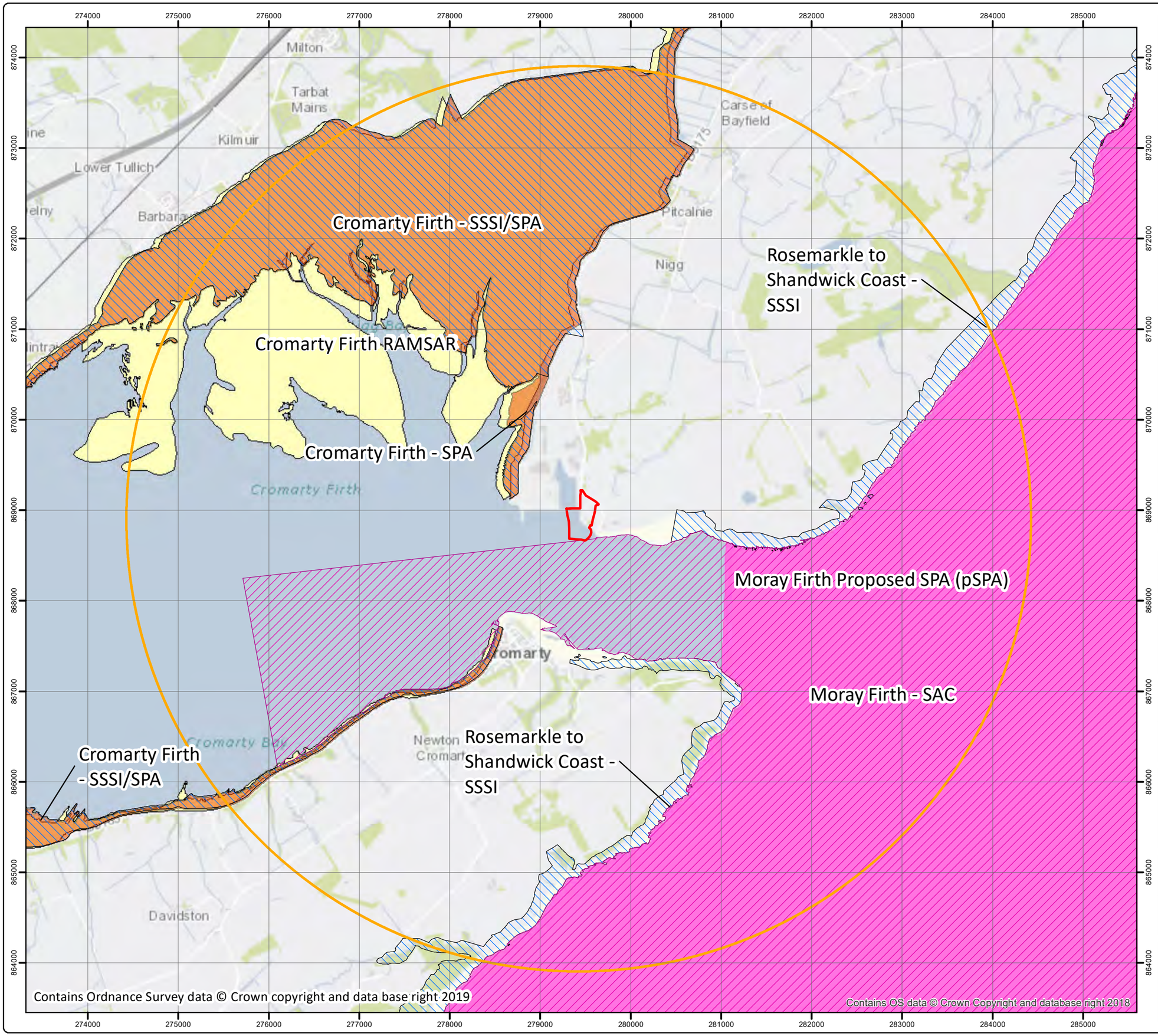

Legend

- 5km Buffer
- Site Boundary
- Special Areas of Conservation
- Sites of Special Scientific Interest
- Special Protection Areas
- Proposed Special Protection Areas
- RAMSAR Site

Do not scale this map

Client
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Project
Nigg East Quay

Title
Figure 1.2 - Environmental Designations

Status
FINAL

Drawing No.
671906-003

Revision

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1:40,000

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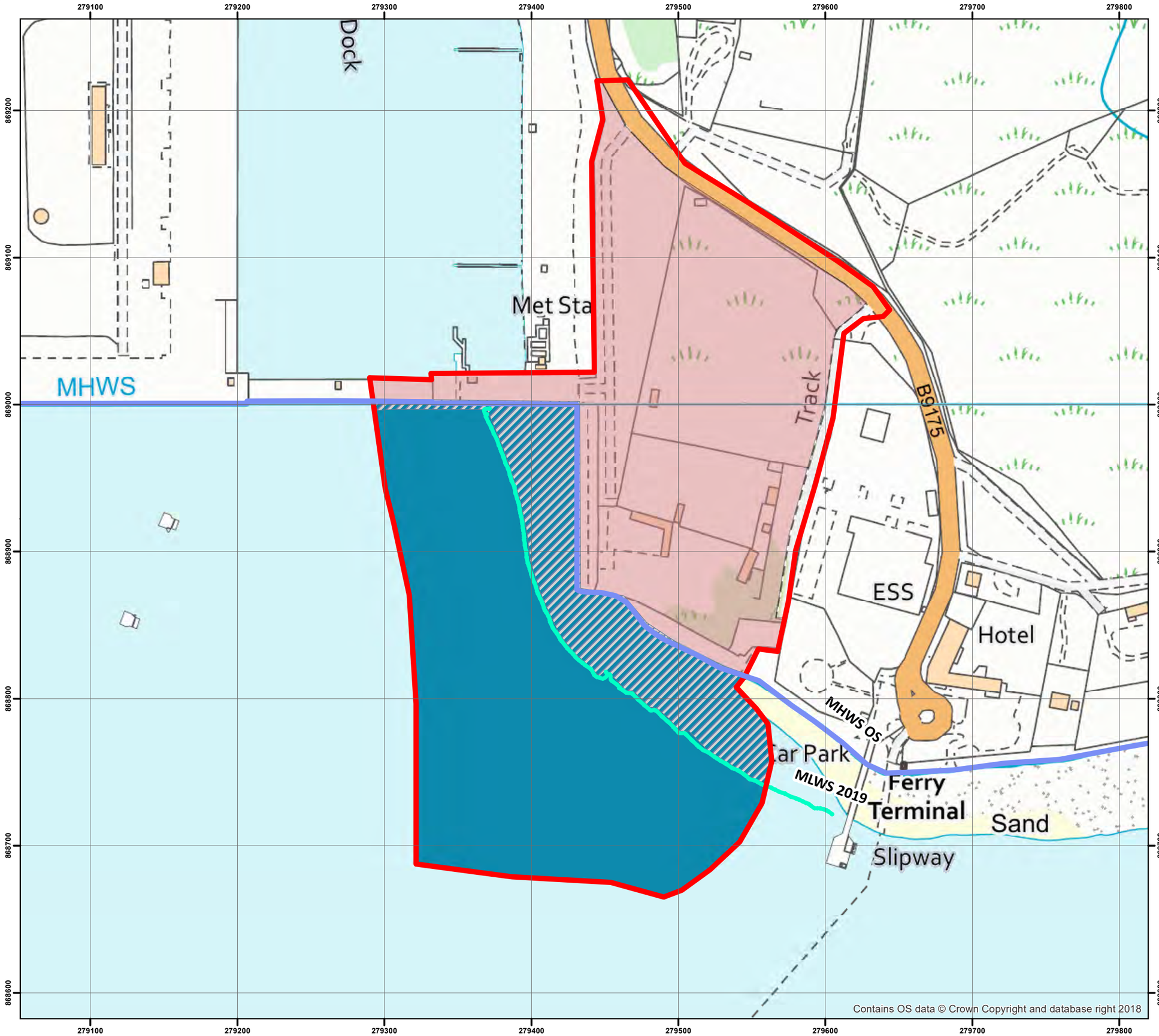

Legend

- Site Boundary
- MHWS OS Mapping
- MLWS Feb 2019
- Intertidal Zone (overlapping of consenting boundaries)
- Marine Scotland Licencing (below MHWS)
- Town and Country Planning (above MLWS)

MHWS derived from OS mapping.

MHLS derived from merged 'February 2019' and 'April 2018' Clyde Surveys bathymetry surveys.

Do not scale this map

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Nigg East Quay

Title
Figure 1.3 - Consenting Context Plan

Status
FINAL

Drawing No.
671906-009

Revision

Scale
1:2,500

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Proposed Development Figures by Arch Henderson and GH Johnson

Figure 2.1 Proposed Site Layout

Figure 2.2 Existing Site Layout

Figure 2.3 Entrance Feature

Figure 2.4 Quay Layout

Figure 2.5 Quay Dredge Areas

Figure 2.6 Quay General Arrangement

Figure 2.7 Quay Cross-Sections

Figure 2.8 Illustrative External Lighting

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Planning Application

Client
Global Energy Nigg Ltd

Project
Formation of East Quay
Nigg

Drawing
Proposed Site Plan

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1:750@A1	06.2019	ca
Project no	Dwg no	Rev
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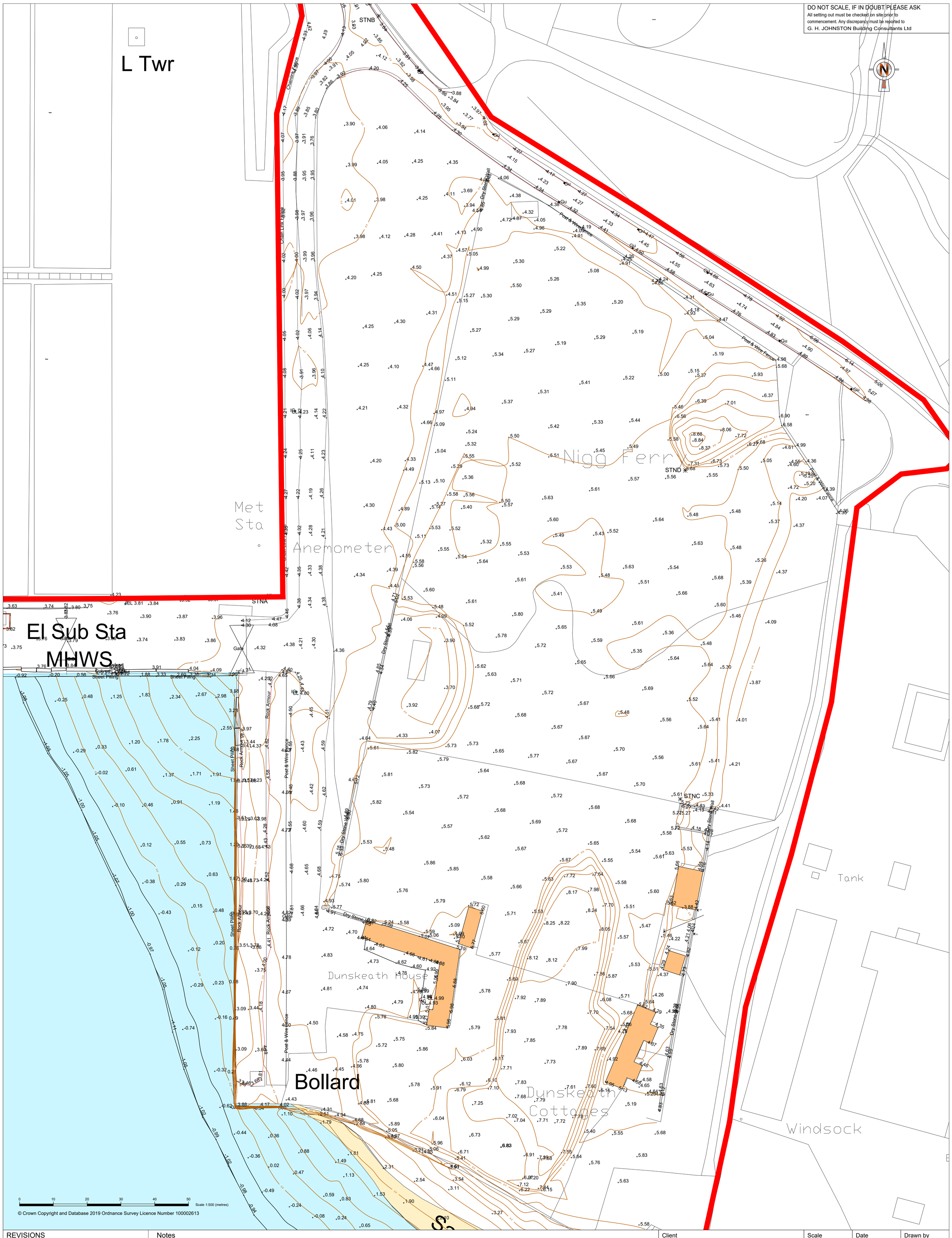

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REVISIONS

Rev.	Description	Drawn	Date

Notes

LEGEND
- site
- existing road - adopted
- existing road - private
- existing buildings
- existing grass track
- existing scrub land

Planning Application

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Global Energy Nigg Ltd

Project
Formation of East Quay
Nigg

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Existing Site Plan

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1:500@A1	06.2019	ca
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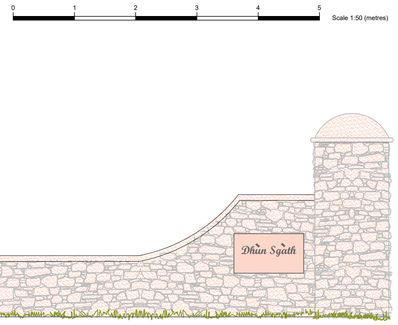
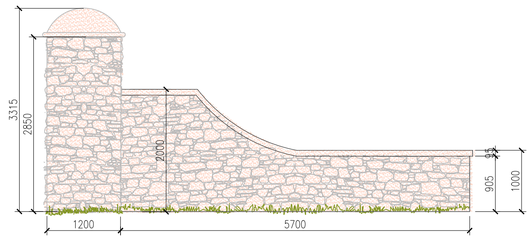
SITE ENTRANCE
scale 1:50



LEFT HAND SIDE ENTRANCE FEATURE WALL
scale 1:50



RIGHT HAND SIDE ENTRANCE FEATURE WALL
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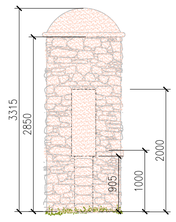

SIDE ELEVATION
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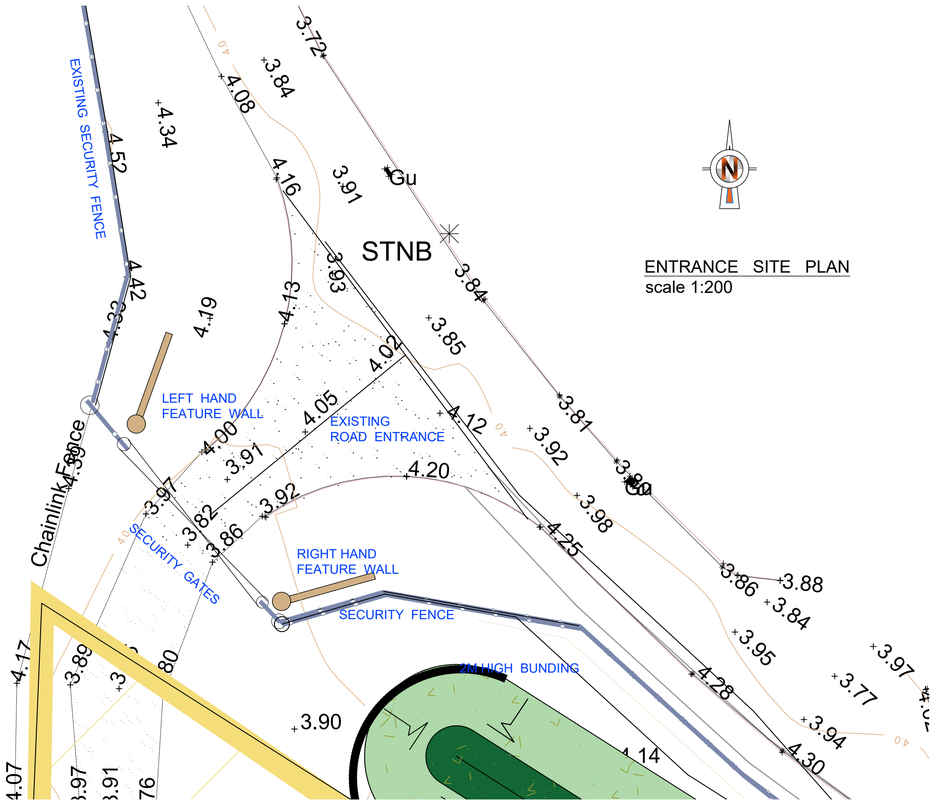
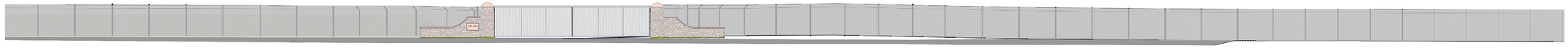


ENTRANCE SITE PLAN
scale 1:200

Planning Application



OVERALL VIEW
scale 1:200

REVISIONS

Rev.	Description	Drawn	Date

Client
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Project
Formation of East Quay
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Feature Entrance Wall

Scale	Date	Drawn by
various@A1	06.2019	ca
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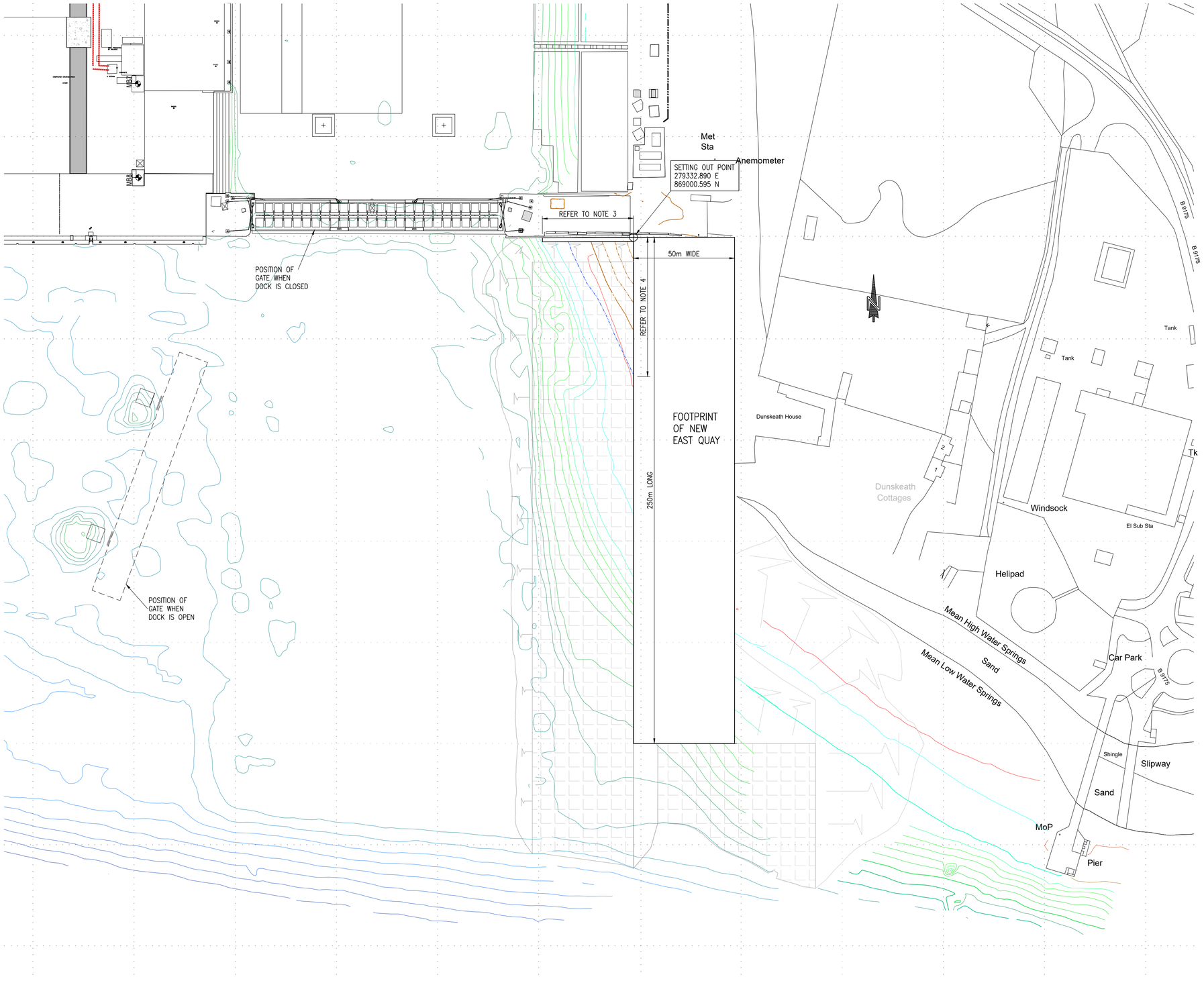

NOTES

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4. THE CONTRACTOR IS TO ALLOW FOR PRE-BORING OF ROCK WHERE BEDROCK IS ANTICIPATED TO BE ENCOUNTERED. APPROX. LENGTH = 69m.

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PROJECT : NIGG ENERGY PARK — NIGG EAST QUAY DEVELOPMENT

TITLE :
DEFINITION DRAWING
LAYOUT & DESCRIPTION OF QUAY

DRAWN :	DATE :	VERIFIED :	APPROVED :
W.J.	16.04.19	M.S.	A.A.K.

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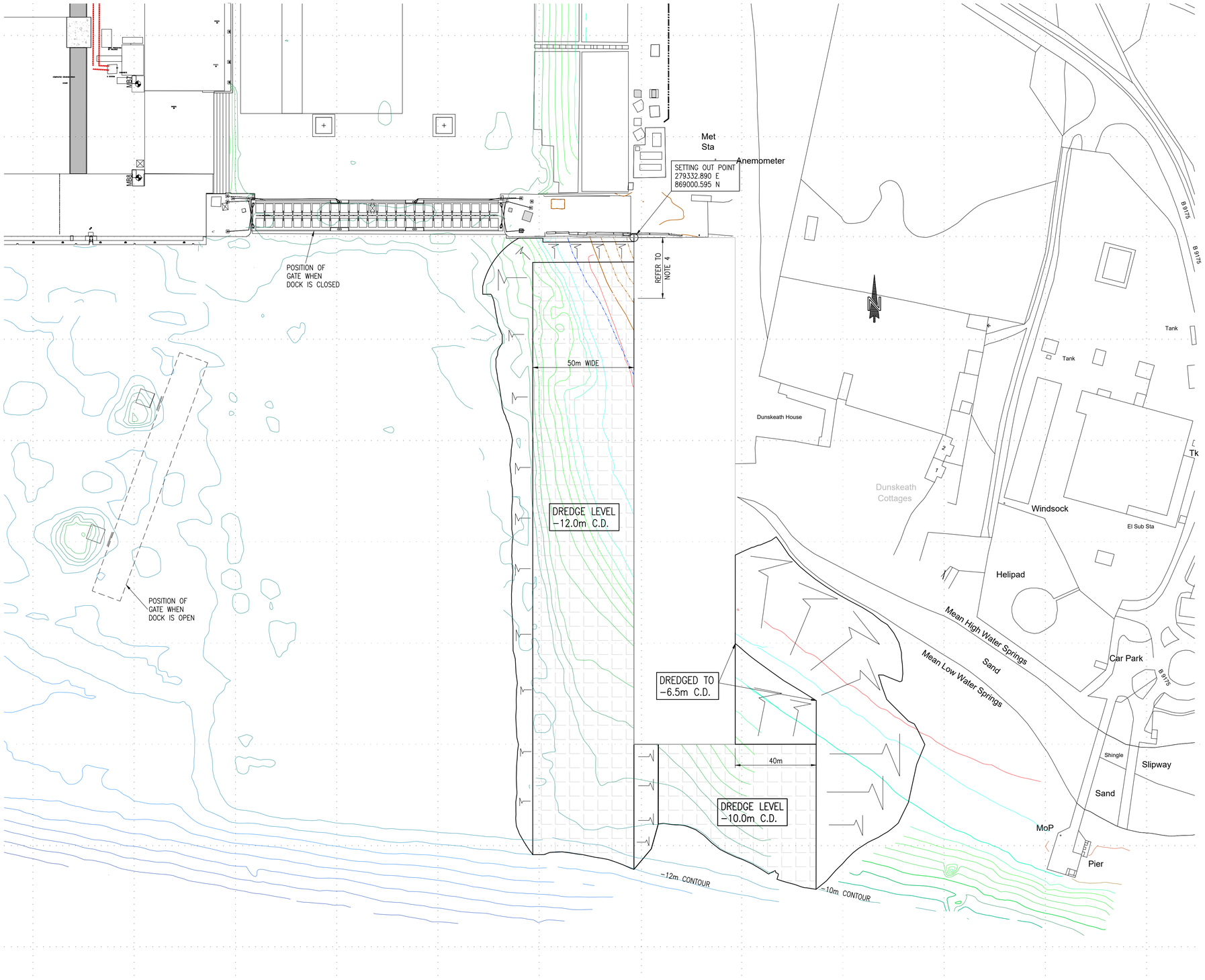

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3. FOR DETAILS OF DREDGING REQUIREMENTS REFER TO PART 2 OF THE WORKS INFORMATION.
4. THE EMPLOYER WILL ACCEPT UP TO 30m LENGTH LOSS OF BERTHING TO ALLOW THE CONTRACTOR THE OPTION OF PROVIDING OTHER SUITABLE DESIGNS TO PROTECT THE EXISTING SHEET PILED WALL AND SERVICES WHILST MAINTAINING A MINIMUM BERTH LENGTH OF 220m.

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PROJECT : NIGG ENERGY PARK

NIGG EAST QUAY DEVELOPMENT

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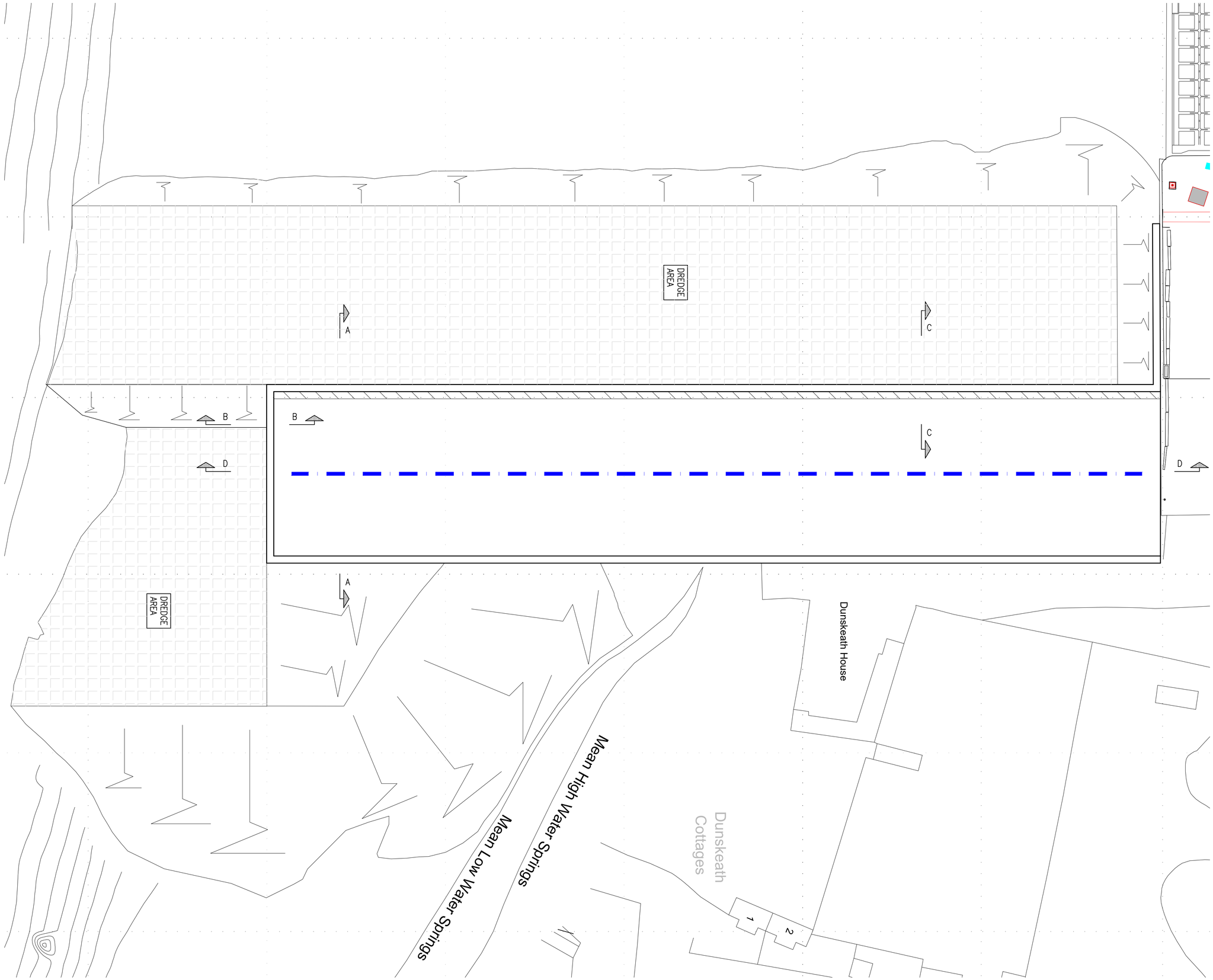

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2. FOR ILLUSTRATIVE DETAILS OF SECTION D – D REFER TO DRAWING NUMBER 185062/022.
3. FOR ILLUSTRATIVE DETAILS OF PROTECTION OF EXISTING SHEET PILED WALL REFER TO DRAWING NUMBER 185062/023.
4. FOR ILLUSTRATIVE DETAILS OF DECK FURNITURE REFER TO DRAWING NUMBER 185062/024.

LEGEND

DENOTES DREDGING AREAS

DENOTES NOMINAL SERVICES STRIP

DENOTES LINE OF FRENCH DRAIN

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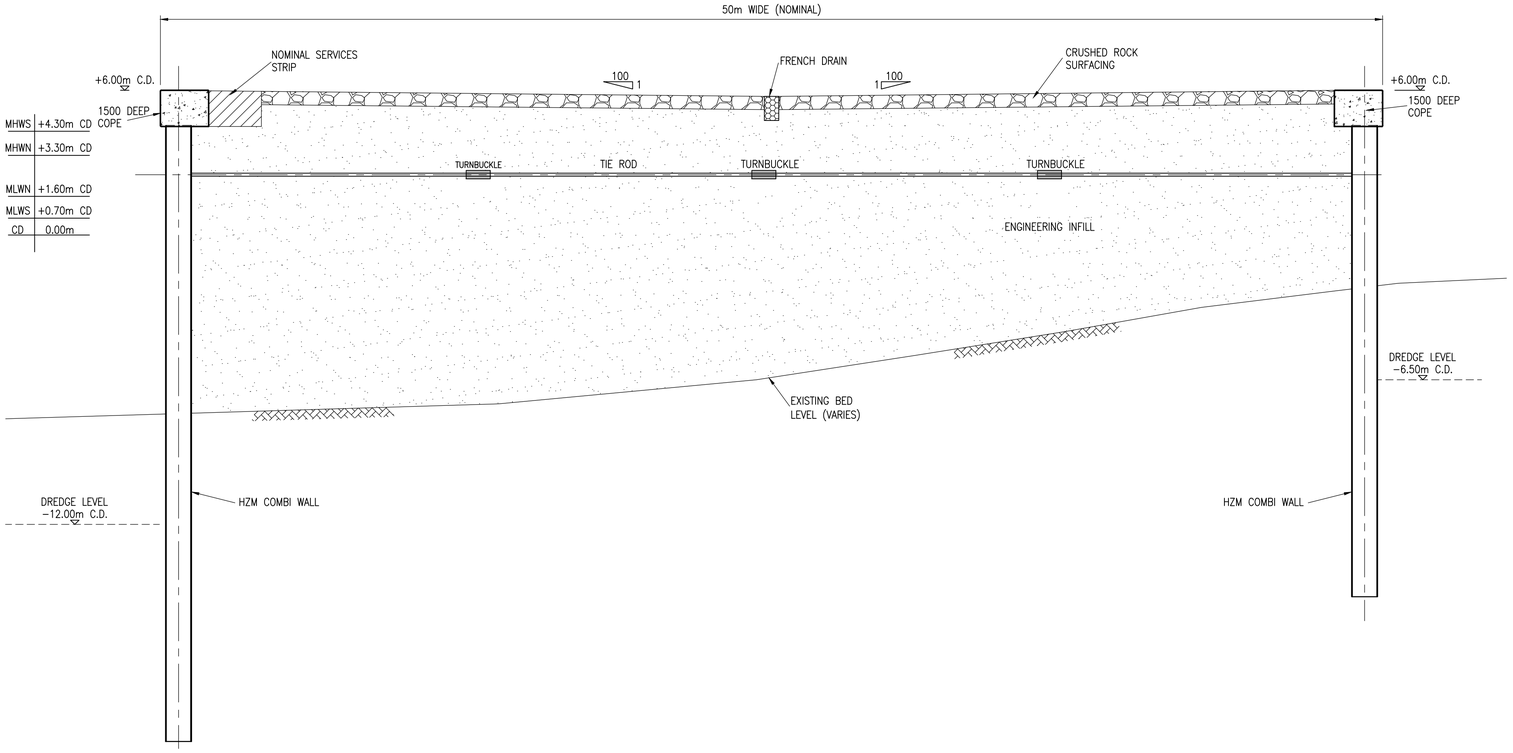

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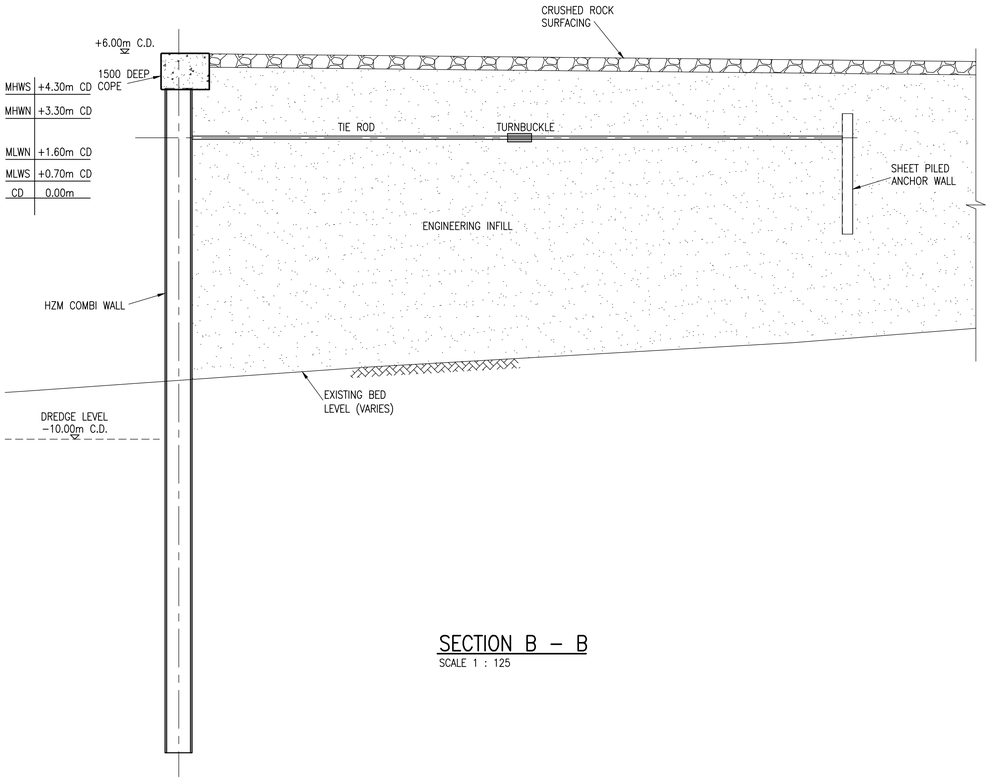

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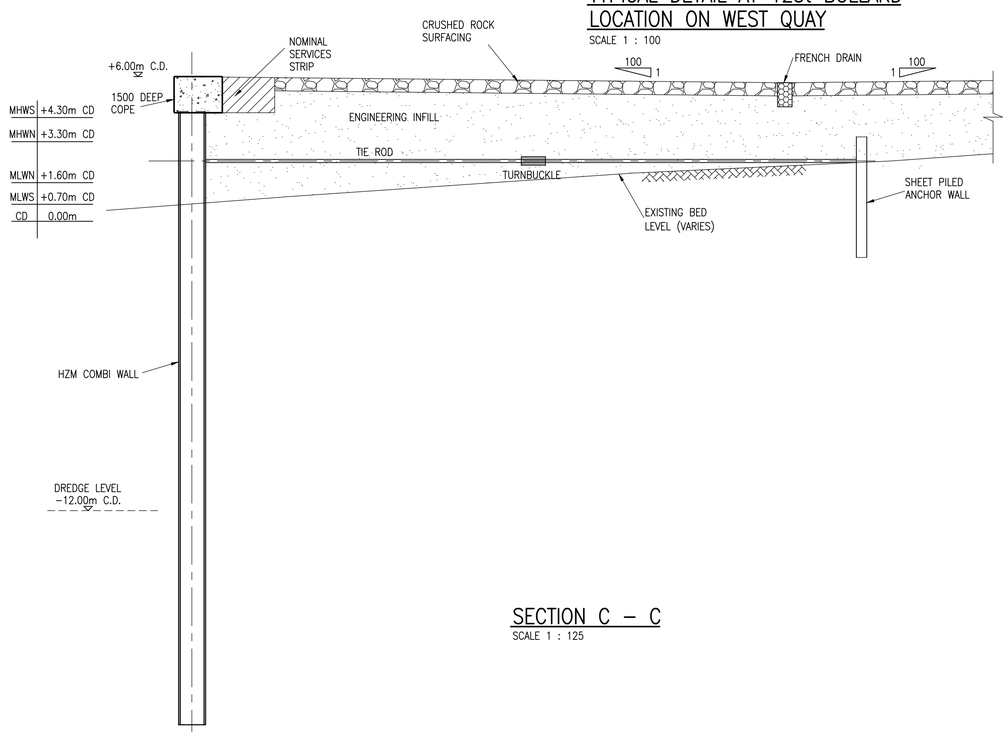

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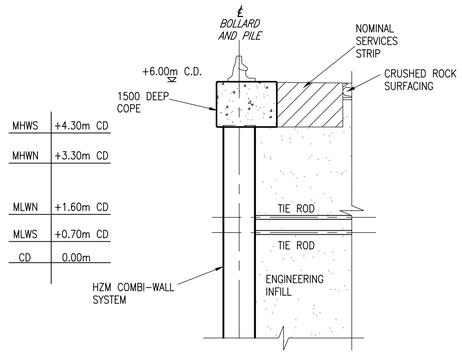
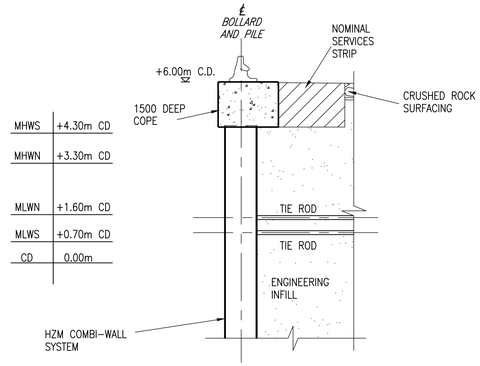


TYPICAL DETAIL AT 200t BOLLARD LOCATION

SCALE 1 : 100



TYPICAL DETAIL AT 125t BOLLARD LOCATION ON WEST QUAY

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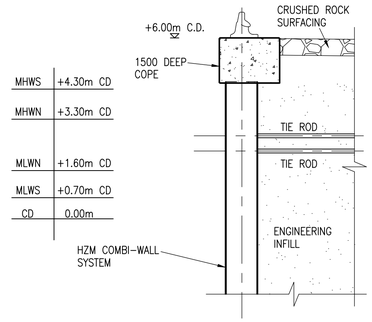

TYPICAL DETAIL AT 125t BOLLARD LOCATION ON SOUTH QUAY

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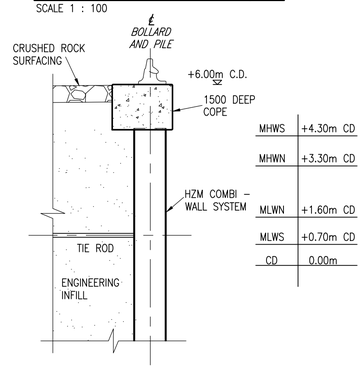

TYPICAL DETAIL AT 60t BOLLARD LOCATION

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PROJECT : NIGG ENERGY PARK — NIGG EAST QUAY DEVELOPMENT

TITLE : ILLUSTRATIVE DRAWING CROSS SECTIONS AND DETAILS

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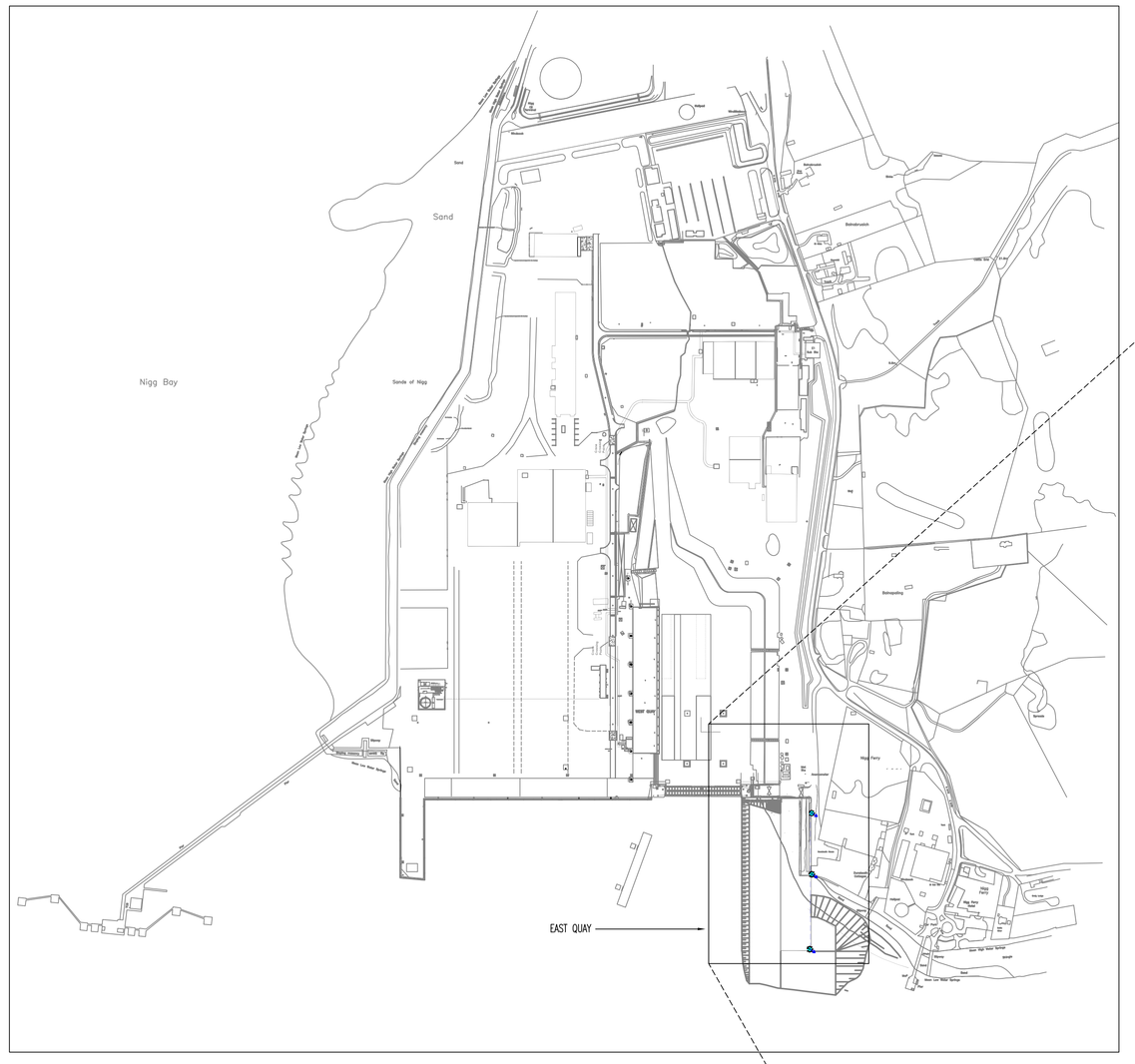
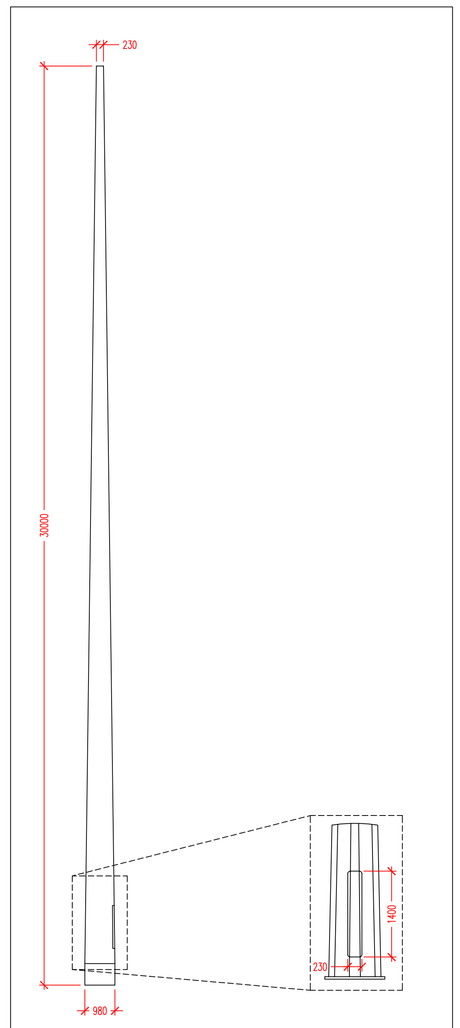
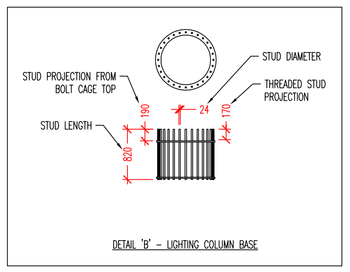


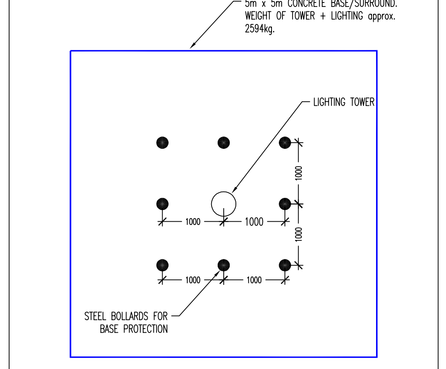
SITE MASTER PLAN



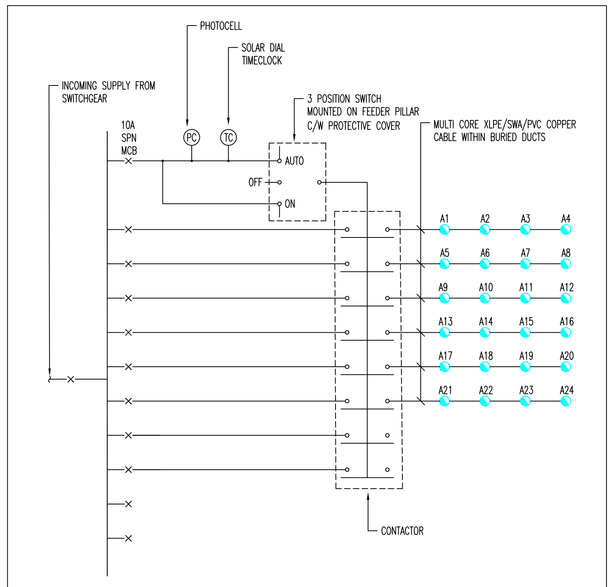
DETAIL 'A' – LIGHTING COLUMN



DETAIL 'B' – LIGHTING COLUMN BASE



DETAIL 'C' – CONCRETE SURROUND/BASE C/W STEEL BOLLARDS AT THE BASE OF LIGHTING TOWERS. DIMENSIONS ARE INDICATIVE.



INDICATIVE EXTERNAL LIGHTING SCHEMATIC

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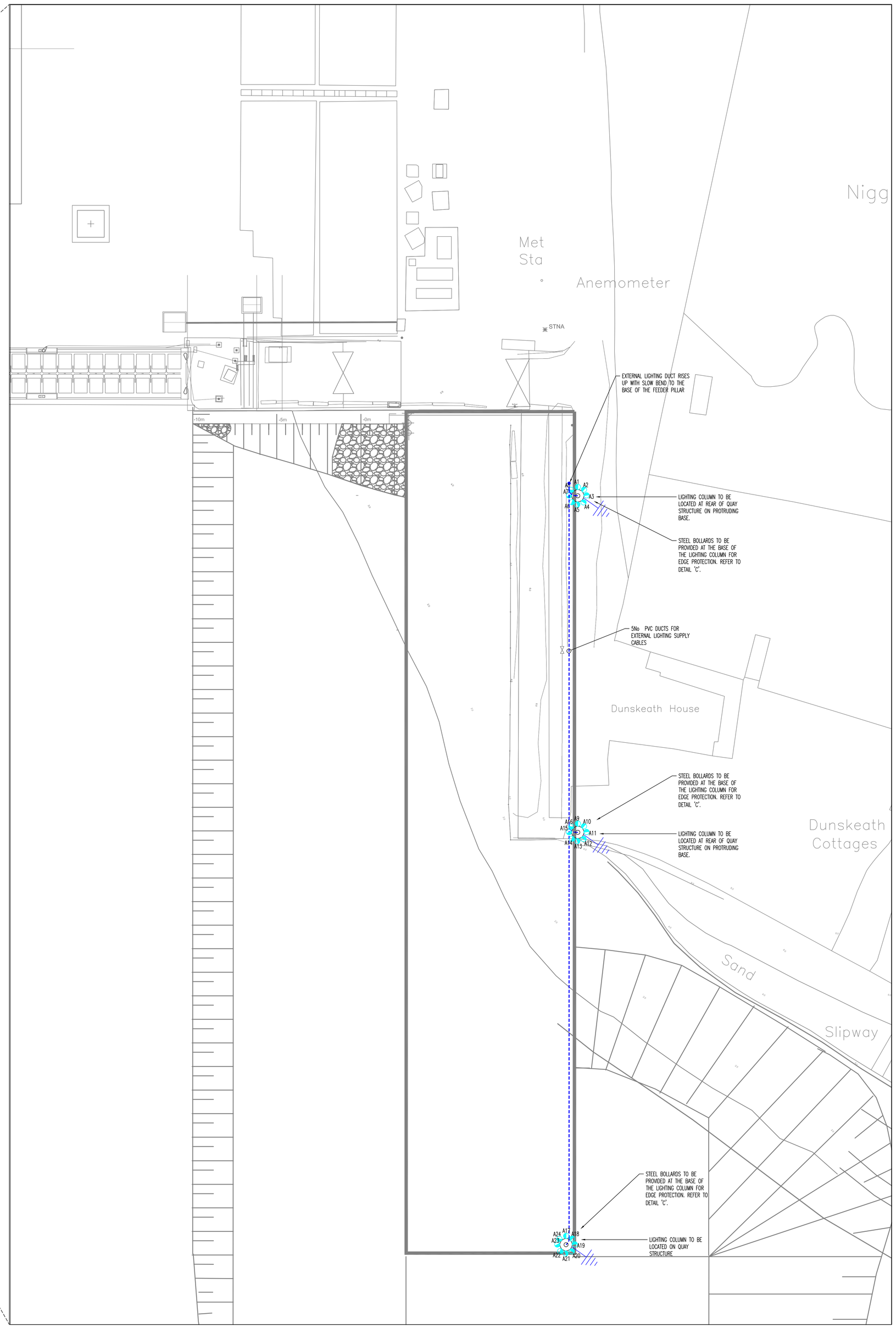

EAST QUAY DETAIL @ 1:500

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N

ORIENTATION

LEGEND

8No IP66, IK07, 4000K HIGH EFFICIENCY LED LUMINAIRE C/W PRISMATIC GLASS REFRACTORS, SURGE PROTECTION, LONG & NARROW LIGHT DISTRIBUTION AS HOLOPHANE HIGH MAST ADVANCED OPTIX LUMINAIRE HMAD.3L1704.NR ON 30 METERS HIGH CORROSIVE RESISTANT LIGHTING TOWER C/W TOP LATCHING HEAD FRAME, MAST, TOP LATCHING SELF-CENTERING LANTERN CARRIAGE, MAST AND WINCH PLATE ASSEMBLY AS HOLOPHANE HIGH MAST SYSTEM HMS.30m.

END OF LINE EARTH ROD C/W WITH INSPECTION CHAMBER AND LIGHTNING PROTECTION AT THE TOP OF THE LIGHTING TOWER.

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3. DO NOT SCALE FROM THIS DRAWING.
4. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTATION & DRAWINGS/SCHEDULES, & IN PARTICULAR THE DSSR SPECIFICATIONS.
5. ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE LATEST EDITION OF THE IEE WIRING REGULATIONS (FORMALLY KNOWN AS BS 7671 – 18TH EDITION AND ALL SUBSEQUENT AMENDMENTS INCLUDING THE IEE ON-SITE GUIDE)
6. THE EXTERNAL LIGHTING INSTALLATION SHALL BE DESIGNED IN ACCORDANCE WITH CIBSE/ SLL GUIDE – CODE FOR LIGHTING TO ACHIEVE MIN AVERAGE LIGHTING LEVEL OF 50 LUX.
7. LIGHT FROM THE DEVELOPMENT SHALL COMPLY WITH THE INSTITUTE OF LIGHTING ENGINEERS GUIDANCE NOTE FOR THE REDUCTION OBTRUSIVE LIGHT FOR ENVIRONMENTAL ZONE 3 AND SHALL NOT GIVE RISE TO :–
   A. AN 'UPWARD WASTE LIGHT RATIO' (MAXIMUM PERMITTED PERCENTAGE OF LUMINAIRE LUX THAT GOES DIRECTLY TO SKY) IN EXCESS OF 5%
   B. A 'LIGHT INTO WINDOWS' MEASUREMENT IN EXCESS OF 10Ev (LUX); PRE–CURFEW AND 2Ev; POST–CURFEW (LUX). (Ev IS THE VERTICAL LUMINANCE IN LUX.)
   C. 'SOURCE INTENSITY' MEASUREMENT IN EXCESS OF 10Kcd; PRE–CURFEW AND 1Kcd; POST–CURFEW. (SOURCE INTENSITY APPLIES TO EACH SOURCE IN THE POTENTIALLY OBTRUSIVE DIRECTION OF THE AREA BEING LIT.)
8. CABLING TO EXTERNAL LIGHTING COLUMNS SHALL BE MULTICORE XLPE/SWA/PVC CABLES TO BS 5467.
9. ALL LIGHTING COLUMNS TO COMPLY WITH IEE REGULATIONS, SECTION 611, REGULATION 611–02.02.
10. CABLES TO BE GENERALLY CONCEALED WITHIN STEEL CONDUIT / CONTAINMENT.
11. THE EXTERNAL LIGHTING INSTALLATION SHALL BE SENSOR CONTROLLED WITH THE CAPABILITY OF MANUAL OVERRIDE AND SHALL OPERATE WHEN REQUIRED 24/7 DUE TO THE WORK PATTERNS ASSOCIATED WITH THE FACILITY.
12. LIGHTING DUCTS TO BE CO–ORDINATED WITH OTHER IN–GROUND SERVICES ON SITE.
13. THE CONTRACTOR SHALL CARRY OUT A SITE SURVEY TO FAMILIARISE THEMSELVES WITH THE SITE BEFORE COMMENCING WORKS.

REV	DATE	BY	DESCRIPTION
V1	29/04/19	SO	RE–ISSUE INCORPORATING AH COMMENTS.
P0	24/04/19	SO	FIRST ISSUE.

DRAWING STATUS:
For Comment (by NIGG)

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

READERS OF THIS DRAWING:
ALL EFFORTS HAVE BEEN TAKEN BY DSSR TO DESIGN OUT SIGNIFICANT HAZARDS WITHIN THE DESIGN RISK ASSESSMENT PROCESS. IT IS OUR OPINION THAT THE HAZARDS DETAILED BELOW CANNOT BE DESIGNED OUT BY US GIVEN THE CONSTRAINTS OF THE BRIEF AND ARE HIGHLIGHTED SO THAT OTHER MEANS CAN BE DEVELOPED TO MITIGATE THE RESIDUAL RISKS IDENTIFIED.

NO SIGNIFICANT HAZARDS ASSOCIATED WITH THIS DRAWING

IT IS ASSUMED THAT A COMPETENT M&E CONTRACTOR OR USER WILL BE AWARE OF THE STANDARD FORESEEABLE RISKS ASSOCIATED WITH WORKING WITH THE TYPE OF SERVICES DETAILED ON THIS DRAWING.

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NIGG ENERGY PARK
GLOBAL ENERGY NIGG LIMITED
PART OF THE GLOBAL ENERGY GROUP

CONSULTANT:
Arch Henderson LLP
142 St. Vincent Street
Glasgow
G2 5LA

PROJECT:
NIGG Energy Park
East Quay

TITLE:
Illustrative External Lighting Layout

Designed	SO	Date Apr 19	Checked	GAS	Date Apr 19
Drawn	SO	Date Apr 19	Sheet Size A0		Scale(s) 1:500

CAD File: 185062-037.dwg

DRAWING No: 185062-037 REV: V1

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IssueSheet

Legend

- Potential Marine Mammal Observer Point
- Approximate Piling Location
- 500m Marine Mammal Mitigation Zone

Do not scale this map

Client
Global Energy Nigg Limited

Project
Nigg East Quay

Title
Figure 4.1
Marine Mammal Mitigation Zone, Nigg

Status
FINAL

Drawing No.	Revision
671906-034	

Scale		Date
1:8,274	A3	13 June 2019

Drawn	Checked	Approved
AL	NH	CP

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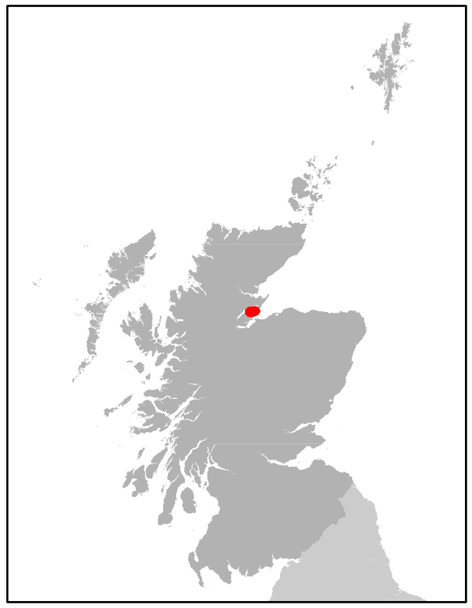
Figure 4.2 Shellfish Protected Areas

Scotland River Basin District

Map 11

Cromarty Bay

Area identified as a shellfish water protected area



This map identifies an area of coastal water or transitional water within the Scotland River Basin District for the purposes of the Water Environment (Shellfish Water Protected Areas: Designation) (Scotland) Order 2013. The Order designates this area of coastal water or transitional water as a shellfish water protected area for the purposes of Part 1 of the Water Environment and Water Services Act (Scotland) 2003.

Signed _____

Dated _____

A member of the staff of the Scottish Ministers

Sources: Shellfish Waters, Scottish Government 2013
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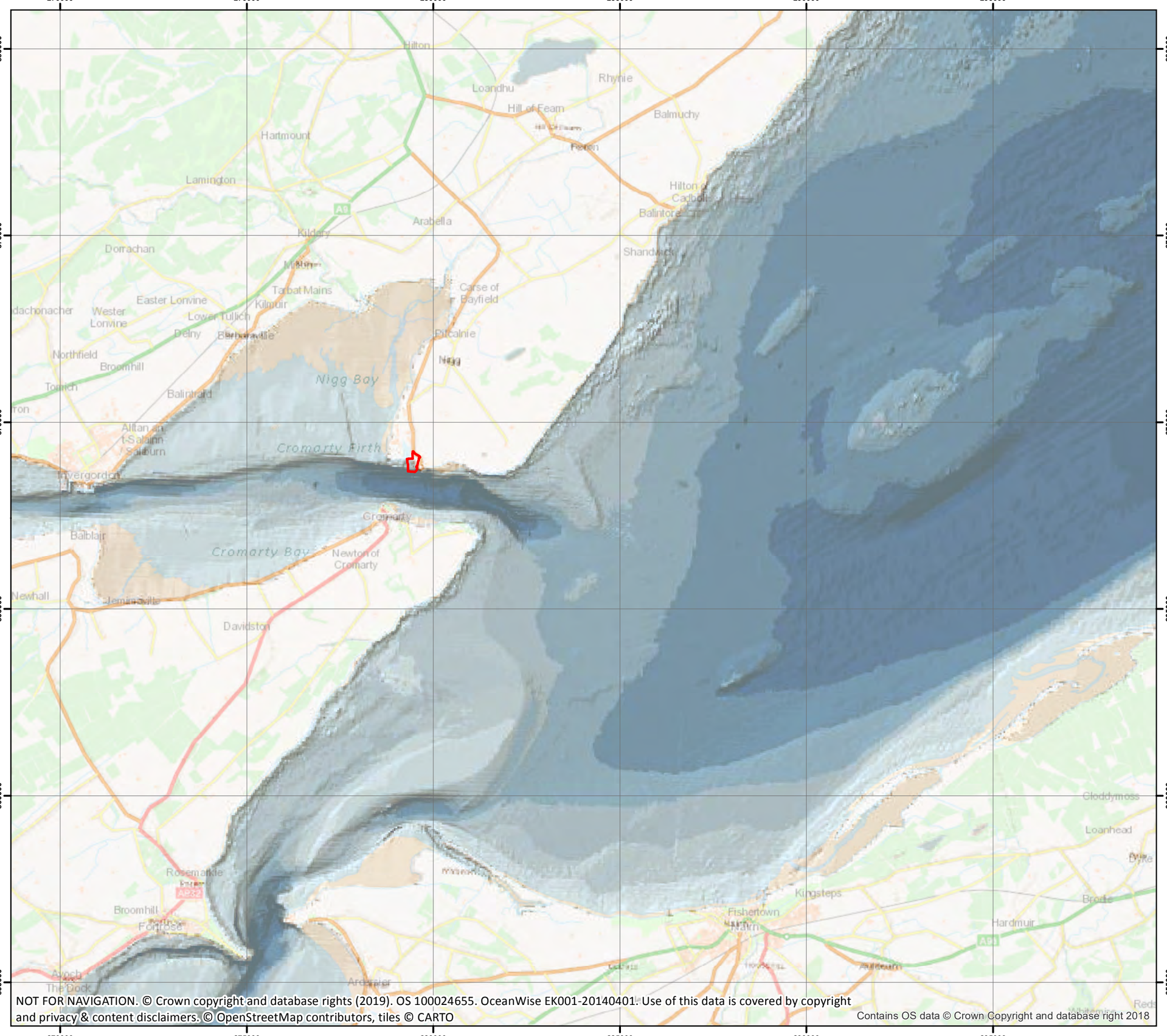
Scottish Government GI Science & Analysis Team
November 2013, Job: 5362ac



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Legend

Site Boundary

Note:
Darker colours represent greater depths and lighter colours represent shallower depths

Do not scale this map

Client
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Project
Nigg East Quay

Title
Figure 5.1 - Bathymetry

Status
FINAL

Drawing No.
671906-027

Revision

Scale
1:100,000

A3

Date
30 May 2019

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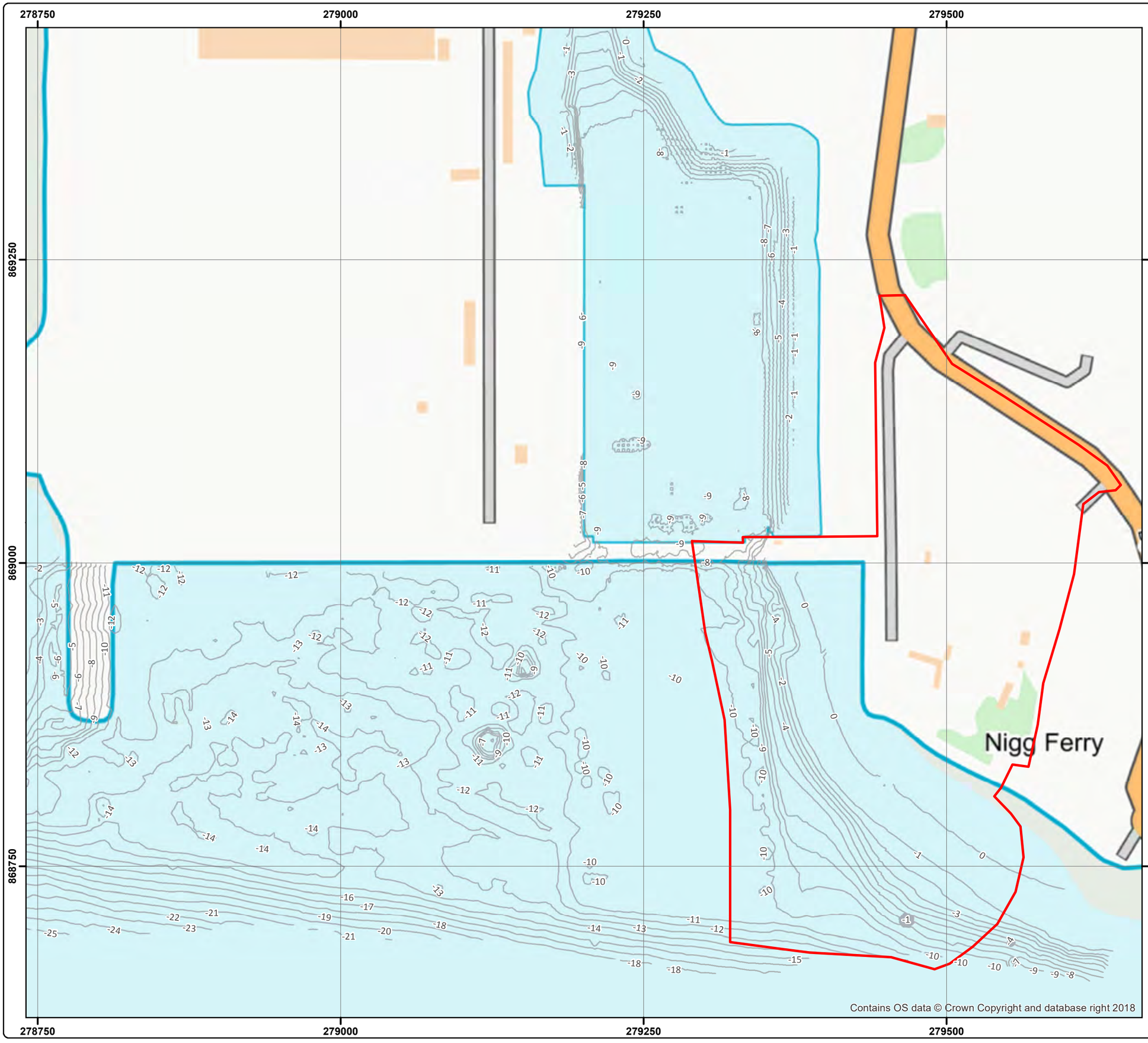

Legend

Site Boundary

1mCD Contours

Contours based on merged April 2018 and Feb 2019 Clydeside Surveys Ltd's surveys.

Do not scale this map

Client
Global Energy Nigg Limited

Project
Nigg East Quay

Title
Figure 5.2 - Local Bathymetry

Status
FINAL

Drawing No.
671906-028

Revision

Scale
1:3,000

A3

Date
17 May 2019

Drawn
SMC

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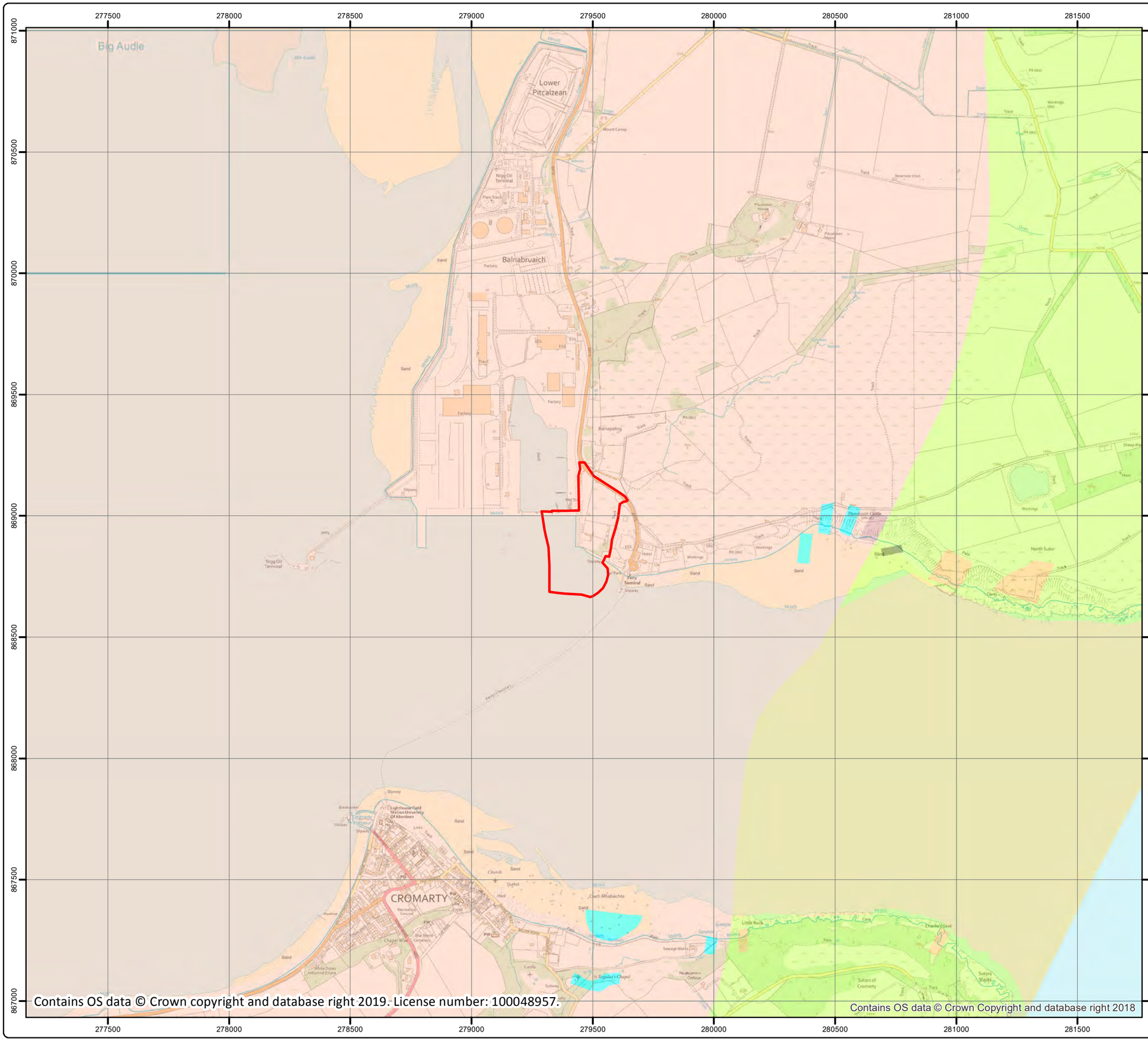

Legend

- Site Boundary
- Caledonian Supersuite-Granite
- Caledonian Supersuite-Lamprophyre
- Cromarty Fish Bed-Limestone
- Kilmuir Conglomerate Formation-Conglomerate
- Moine Supergroup-Psammite and Pelite
- Moine Supergroup-Psammite and Semipelite
- Raddery Sandstone Formation-Sandstone

Do not scale this map

Client	Global Energy Nigg Limited
Project	Nigg East Quay
Title	Figure 5.3 - Bedrock Geology
Status	FINAL
Drawing No.	671906-029
Revision	
Scale	1:15,000
A3	
Date	30 May 2019
Drawn	AZ
Checked	MB
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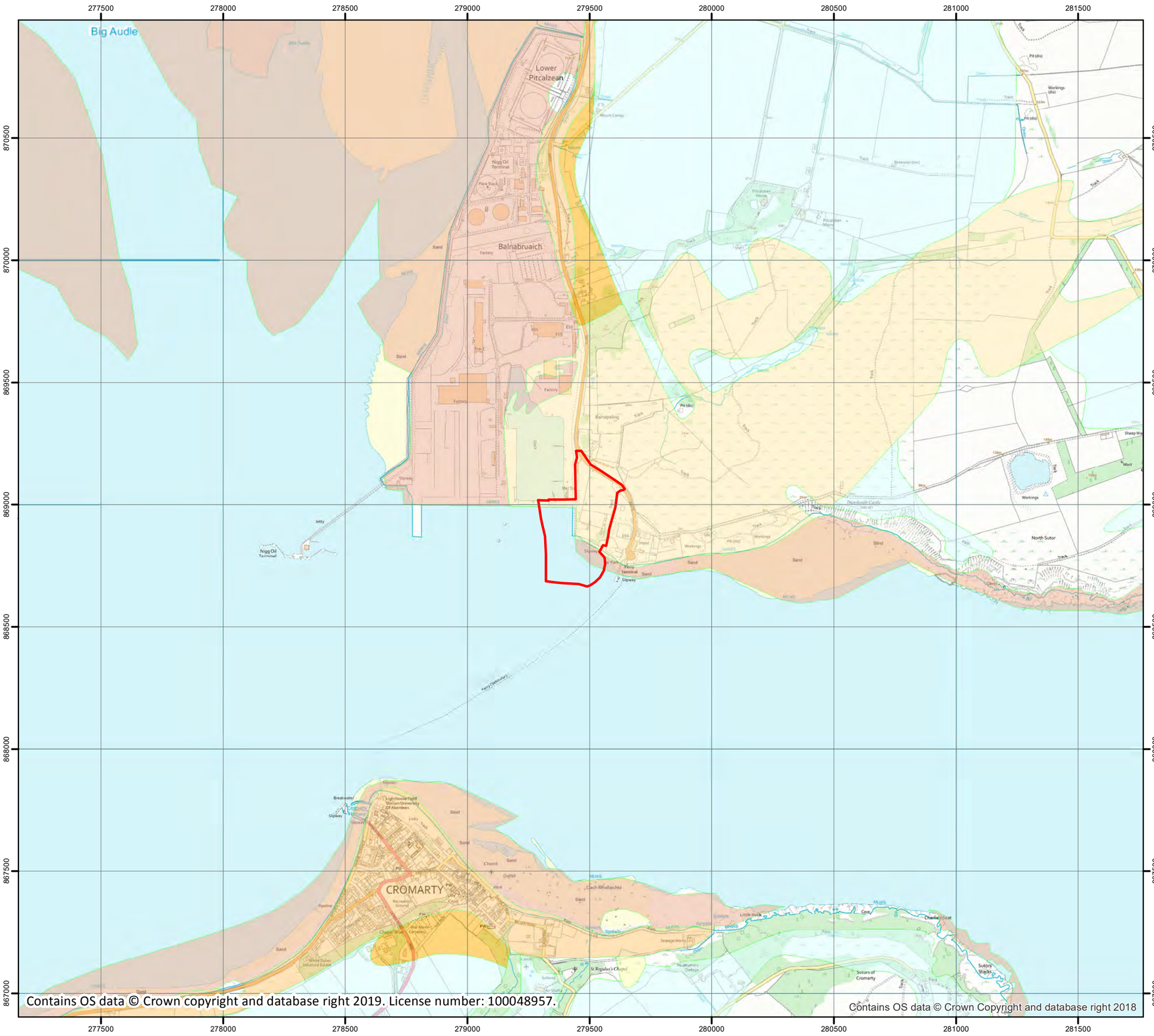

Legend

- Site Boundary
- Blown Sand-Sand
- Devensian Till (Diamicton)
- Marine Beach Deposits-Gravel, Sand and Silt
- Raised Marine Deposits, Devensian-Gravel, Sand and Silt
- Raised Marine Deposits of Holocene Age-Gravel, Sand and Silt

Do not scale this map

Client
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Project
Nigg East Quay

Title
Figure 5.4 - Superficial Deposits

Status
FINAL

Drawing No.	Revision
671906-030	

Scale		Date
1:15,000	A3	30 May 2019

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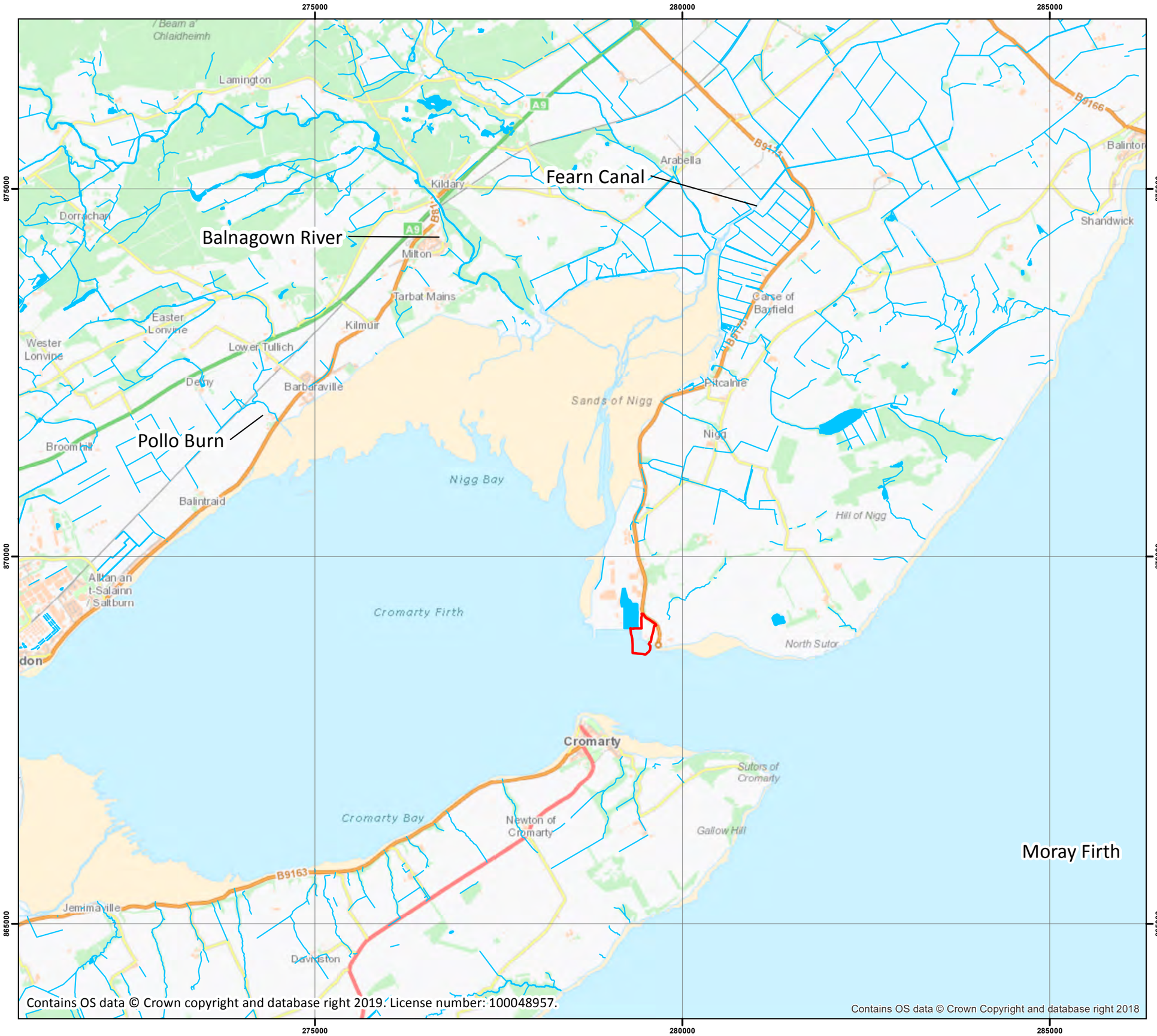

Legend

- Site Boundary
- Watercourse
- Surface Waterbody

Do not scale this map

Client
Global Energy Nigg Limited

Project
Nigg East Quay

Title
Figure 5.5 - Hydrological Features Overview

Status
FINAL

Drawing No.
671906-031

Revision

Scale
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Date
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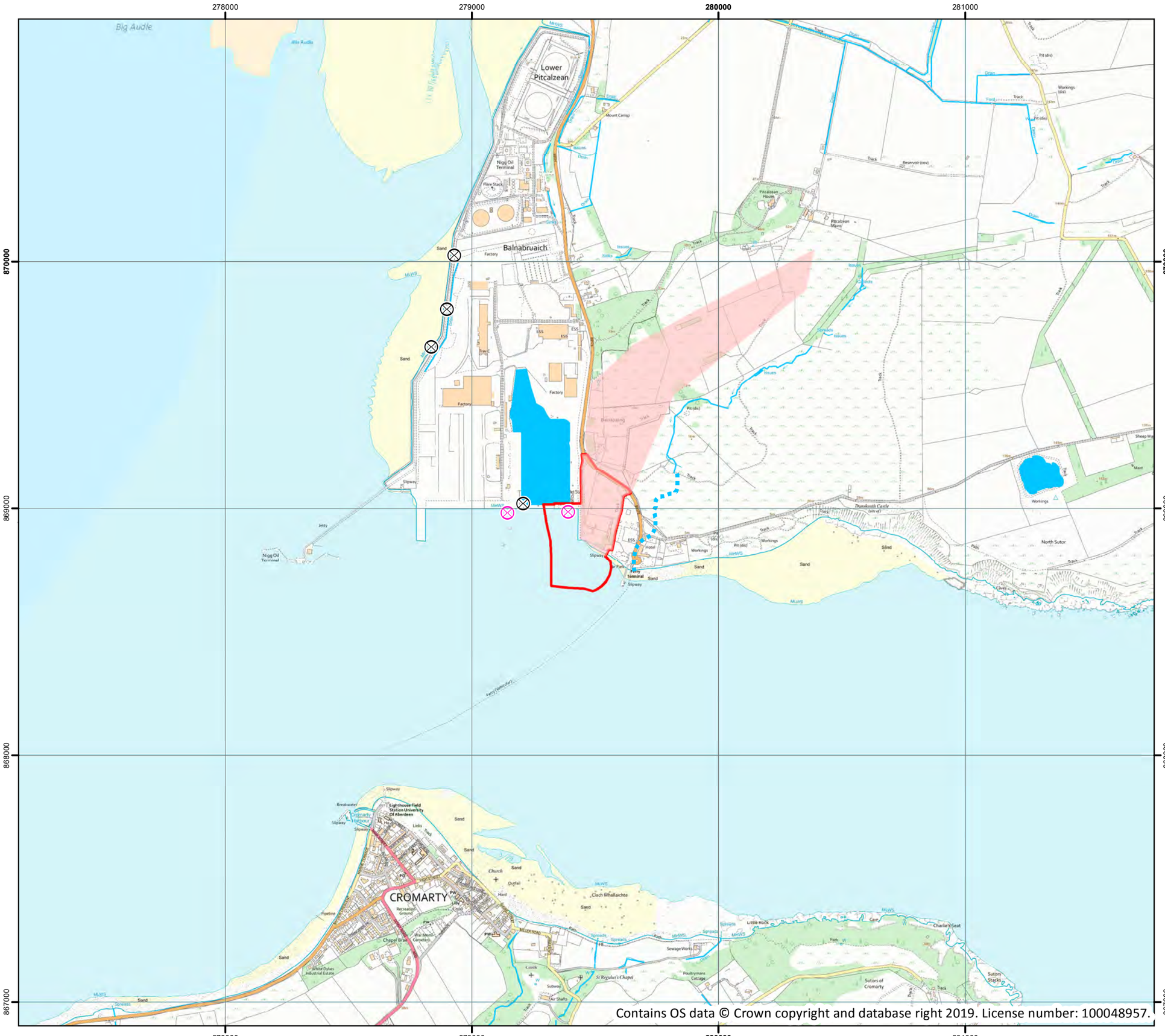

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Legend

- Site Boundary
- Watercourse
- Indicative Watercourse Route
- Surface Waterbody
- Indicative Surface Water Catchment
- Surface Water Sewer Outfall
- Foul Sewer Outfall

Do not scale this map

Client
Global Energy Nigg Limited

Project
Nigg East Quay

Title
Figure 5.6 - Local Hydrological Features Overview

Status
FINAL

Drawing No.
671906-032

Revision

Scale
1:15,000

A3

Date
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Legend

Site Boundary

Noise Monitoring Locations

Do not scale this map

Client

Global Energy Nigg Limited

Project

Nigg East Quay

Title

Figure 6.1A

Noise Monitoring Locations, Nigg

Status

FINAL

Drawing No.	Revision
671906-007A	

Scale		Date
1:7,500	A3	12 Feb 2019

Drawn	Checked	Approved
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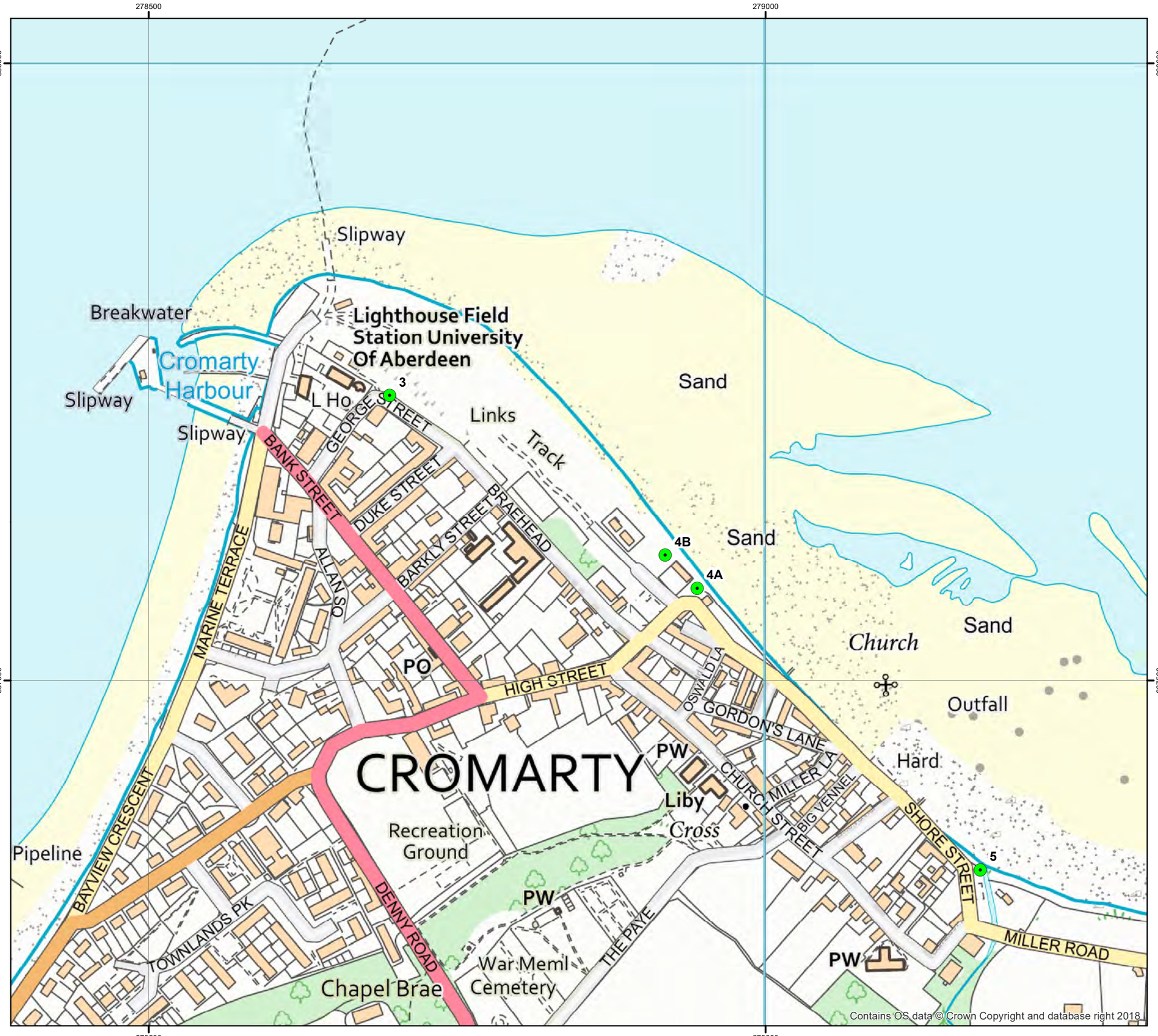

Legend

- Site Boundary
- Noise Monitoring Locations

Do not scale this map

Client	Global Energy Nigg Limited
Project	Nigg East Quay
Title	Figure 6.1B Noise Monitoring Locations, Cromarty
Status	FINAL
Drawing No.	671906-007B
Revision	
Scale	1:3,000
A3	
Date	12 Feb 2019
Drawn	AH
Checked	CC
Approved	CP

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Legend

Site Boundary

Noise Sensitive Receptors

Do not scale this map

Client

Global Energy Nigg Limited

Project

Nigg East Quay

Title

Figure 6.2A

Noise Sensitive Receptor Plan, Nigg

Status

FINAL

Drawing No.	Revision
671906-023A	

Scale		Date
1:7,500	A3	08 May 2019

Drawn	Checked	Approved
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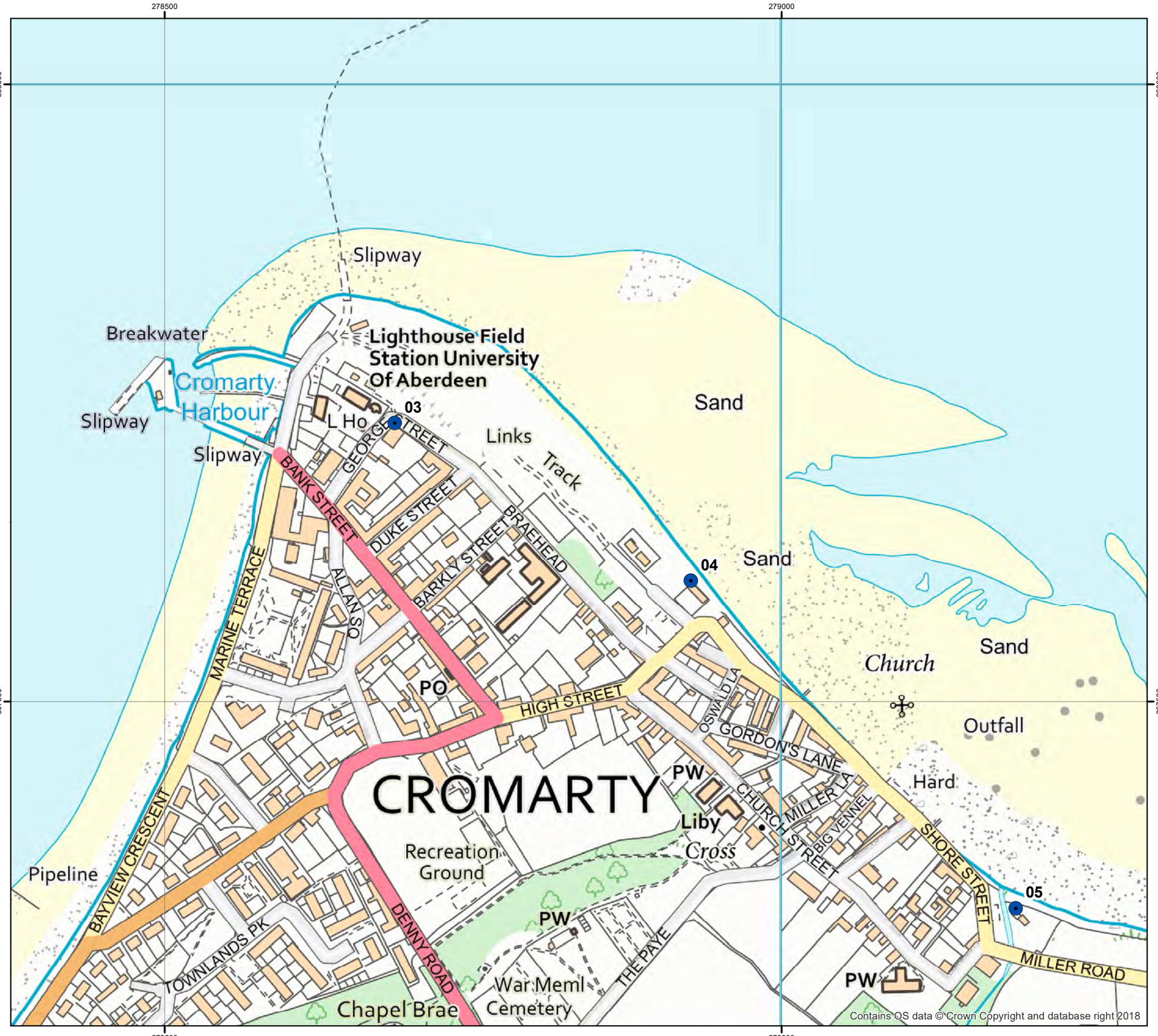

Legend

- Site Boundary
- Noise Sensitive Receptors

Do not scale this map

Client
Global Energy Nigg Limited

Project
Nigg East Quay

Title
Figure 6.2B
Noise Sensitive Receptor Plan, Cromarty

Status
FINAL

Drawing No.
671906-023B

Revision

Scale
1:3,000

A3

Date
08 May 2019

Drawn
CC

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AH

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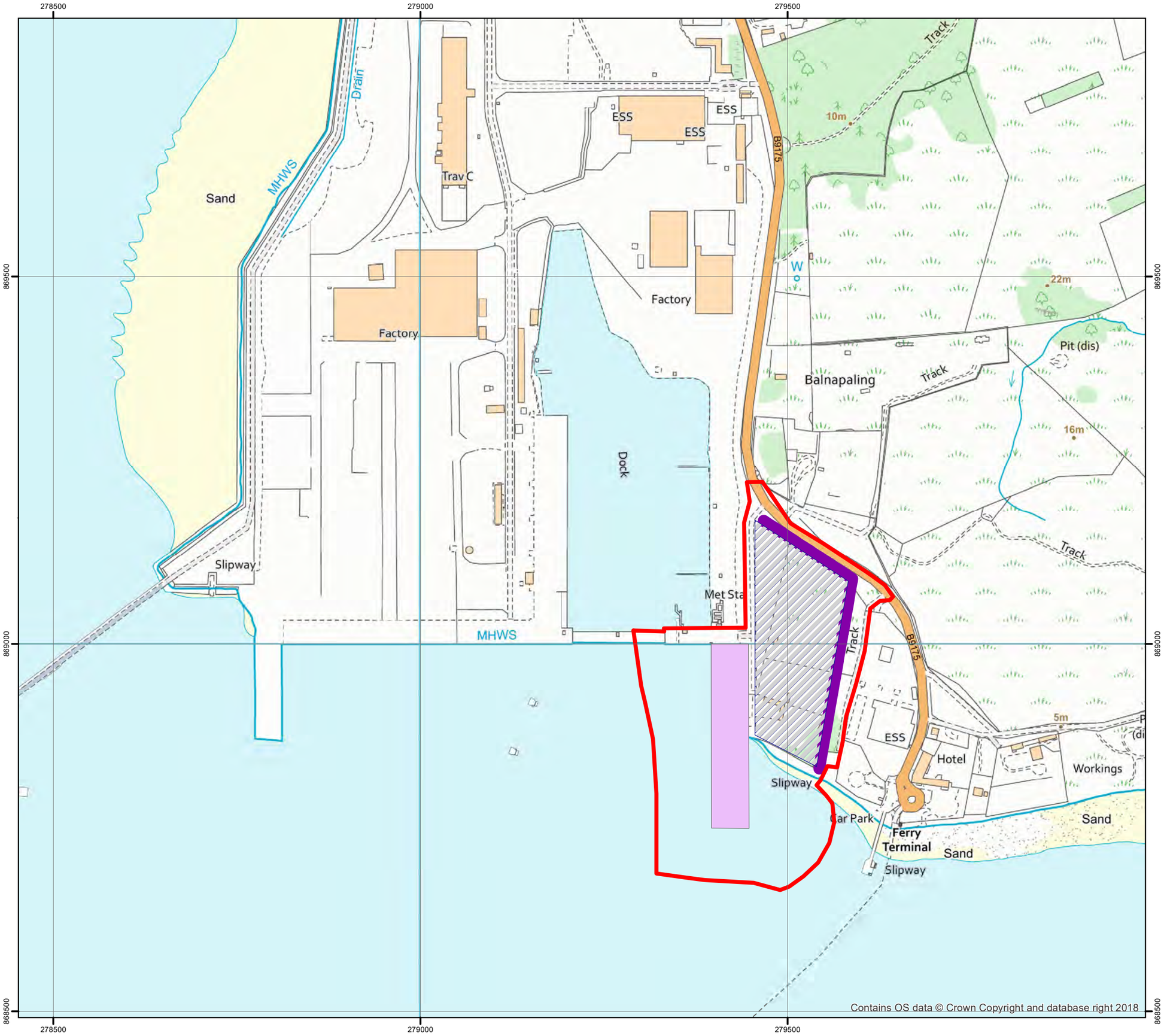

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Legend

- Site Boundary
- Proposed East Quay
- Laydown / Storage Area
- 2m High Acoustic Bund

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Client
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Project
Nigg East Quay

Title
Figure 6.3
Site Noise Mitigation Design

Status
Final

Drawing No.
671906-024

Revision

Scale
1:5,000

A3

Date
08 May 2019

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Sands of Nigg
NIGG BAY
Cromarty Bay
Udale Bay
INVERGORDON
CROMARTY
Saltburn/
Allt an t-Salainn
Oil Terminal
Fabrication
Yard
Nigg
North Sutor
Balintore
Arabella
Fearn
Hill of
Fearn
Loans of Tullich
Scotsburn Wood
The Wilderness
Lamington Park
Leinster Park
Pitmaduthy
Kildary
Milton
Tullich Wood
Dorrachan
Tullich
Muir
Kilmuir
Delny
Barbaraville
Pollo
Ord
Balintraid
Balintraid
Pier
Broomhill
Northfield
Coillemore
Wester
Lonvine
Badachonacher
Ankerville
Cornar
Shandwick
Pitcalnie
Nigg
Mount
Canisp
Balnapaling
Balnabruaich
Dunskeath Castle
Newton
Nielston
Rosefarm
Shore Mill
Allerton
Jemimaville
Balblair
Kirkton
Newhall
Point
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Ho
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Ardoch
Poyntzfield
Udale Fm
Ferness
Davidston
Peddieston
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Ardeville
Barnans
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McFarquhar's
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Red Nose
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Blackhill
Culnaha
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Allan
Glastullich
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Woods
Mains of
Calrossie
Loandhu
Midoxgate
Balnagore
Holdings
Balindrum
Clashnamuiach
Balmuchy
Muldearg
Newfield
Logie Hill
Brenachie
Marybank
Hartmount
Lamington
Scotsburn
Dalnaclach
Druminault
Mains of
Balnagown
Meddat
Knockgarty
Auchoyle
Garty
Rhives
Pothicol
Tarbat
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Shandwick
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Mains
Tainfield
Grantfield
Gravel Pit
Weir
Balnagown
Castle
Dorrachan
Badachonacher
Moss
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Stonyfield
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Heathfield
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Bearn
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Delny
Broomhill
Northfield
Coillemore
Wester
Lonvine
Badachonacher
Wester
Catrichie
Sand &
Gravel
Pit
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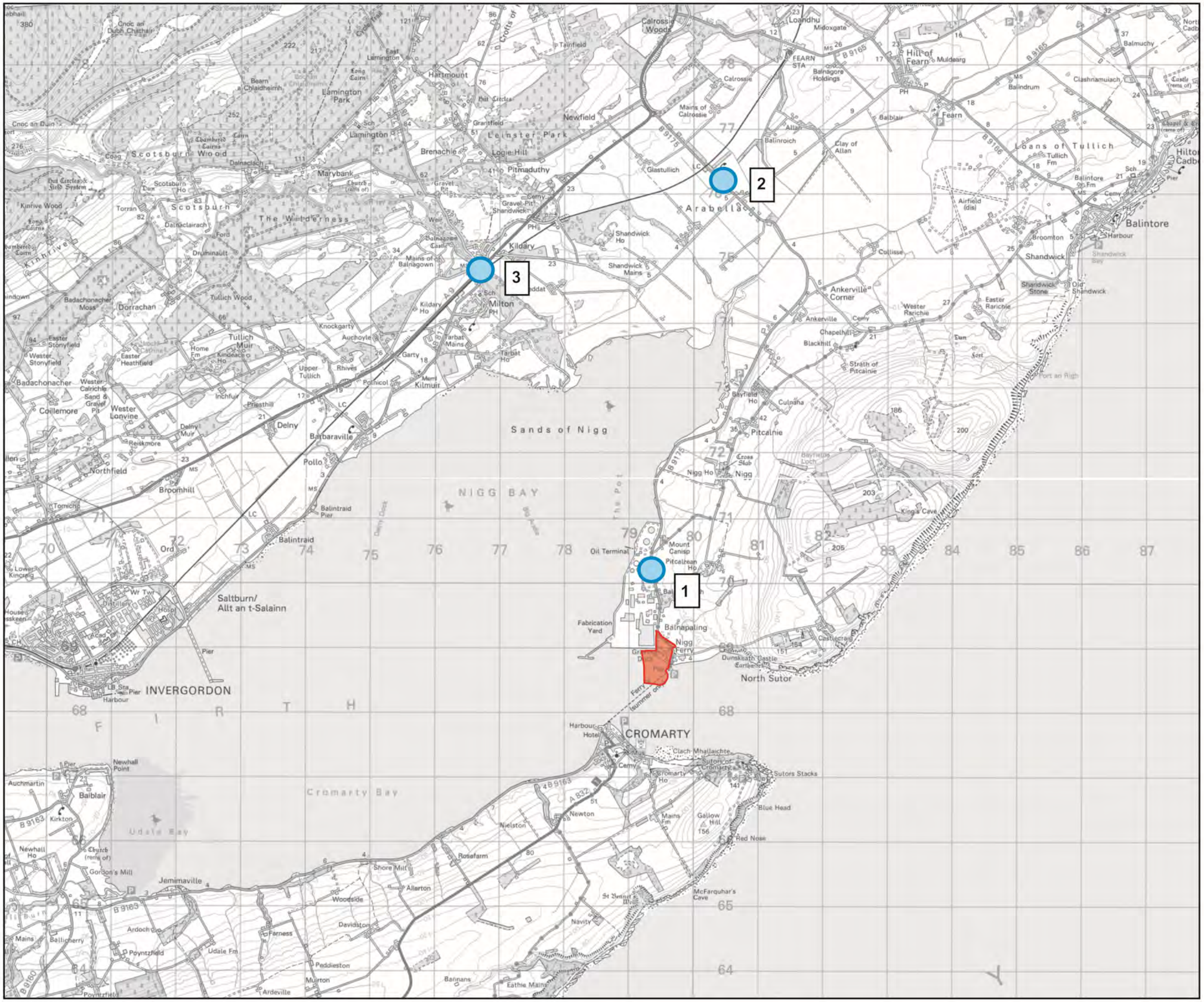
INVERGORDON
Saltburn/
Allt an t-Salainn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NIGG BAY
Cromarty Bay
Udale Bay
INVERGORDON
CROMARTY
Saltburn/
Allt an t-Salainn
Nigg Ferry
Oil Terminal
Fabrication Yard
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Pitcalnie
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Balblair
Jemimaville
Newhall Point
Auchmartin
Kirkton
Newhall Ho
Gordon's Mill
Ardoch
Poyntzfield
Udale Fm
Ardeville
Muirton
Peddieston
Davidston
Woodside
Shore Mill
Allerton
Rosefarm
Nielston
Newton
Navity
Eathie Mains
Barnans
Farness
Ballicherry
Mains
Sutors Stacks
Blue Head
Red Nose
McFarquhar's Cave
St Bennet's Mill
Gallow Hill
Mains Fm
Cromarty Ho
Clach Mhallaichte
Sutor of Cromarty
Harbour Hotel
Ferry
Balintraid
Balintraid Pier
Ord
Pollo
Delny
Barbaraville
Kilmuir
Tarbat Mains
Tarbat Ho
Knockgarty
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Tullich Wood
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Coillemore
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Dalnaclach
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Pitmaduthy
Leinster Park
Newfield
Calrossie
Calrossie Woods
Mains of Calrossie
Glastullich
Balnroich
Clay of Allan
Balblair
Fearn
Hill of Fearn
Loanhu
Midoxgate
Balindrum
Clashnamuiach
Loans of Tullich
Tullich Fm
Balintore Fm
Airfield (dis)
Broomton
Shandwick
Shandwick Stone
Old Shandwick
Ankerville Corner
Ankerville
Chapelhill
Blackhill
Wester Raritchie
Easter Raritchie
Strath of Pitcalnie
Culnaha
Bayfield Ho
Cullisse
Balnagown Castle
Mains of Balnagown
Shandwick Ho
Shandwick Mains
Knockgarty
Badachonacher Moss
Easter Stonyfield
Wester Stonyfield
Easter Heathfield
Home Fm
Kindeach Ho
Wester Catrichie
Sand & Gravel Pit
Inchfuir
Priesthill
Delny Muir
Reiskmore
Wr Twr
Distillery
Hospl
Acad
Pier
Harbour
LB Sta
Newfield
Calrossie
Balnagore Holdings
FEARN STA
Balmuchy
Castle (rems of)
Chapel & cem (rems of)
Hilton Cadb
Sch
Cemy
PH
Fort an Righ
Cross Slab
Nigg Ho
King's Cave
Castlecraig
Dunskeath Castle
Earlsmill
Balintraid Pier
Cnoc an Duin
Cnoc an Dubh Chathair
Bearn Chlaidheimh
Long Cairn
East Lamington
Croftes of
Croftes Trail
Tainfield
Grantfield
Gravel Pit
Shandwick
Weir
Druid Circles & Stone System
Kinhrive Wood
Coeg
Chambered Cairns
Cairn
Druid Circles
Bay of Nigg
The Pot
Delny Coast
Balnapaling Loch
Bayfield Loch
Fort an Righ
Shandwick Bay
Harbour
Pier
Newhall Point
Church (rems of)
Gordon's Mill
Ardoch
Poyntzfield
Udale Fm
Ardeville
Muirton
Peddieston
Davidston
Woodside
Shore Mill
Allerton
Rosefarm
Nielston
Newton
Navity
Eathie Mains
Barnans
Farness
Ballicherry
Mains
Sutors Stacks
Blue Head
Red Nose
McFarquhar's Cave
St Bennet's Mill
Gallow Hill
Mains Fm
Cromarty Ho
Clach Mhallaichte
Sutor of Cromarty
Harbour Hotel
Ferry
Balintraid
Balintraid Pier
Ord
Pollo
Delny
Barbaraville
Kilmuir
Tarbat Mains
Tarbat Ho
Knockgarty
Auchoyle
Garty
Rhives
Upper Tullich
Pothicol
Tullich Muir
Tullich Wood
Dorrachan
Badachonacher
Coillemore
Wester Lonvine
Northfield
Broomhill
Tomich
Lower Kincraig
Scotsburn
Scotsburn Wood
The Wilderness
Kinhrive
Torran
Druminault
Dalnactairach
Dalnaclach
Marybank
Lamington
Lamington Park
Hartmount
Brenachie
Logie Hill
Pitmaduthy
Leinster Park
Newfield
Calrossie
Calrossie Woods
Mains of Calrossie
Glastullich
Balnroich
Clay of Allan
Balblair
Fearn
Hill of Fearn
Loanhu
Midoxgate
Balindrum
Clashnamuiach
Loans of Tullich
Tullich Fm
Balintore Fm
Airfield (dis)
Broomton
Shandwick
Shandwick Stone
Old Shandwick
Ankerville Corner
Ankerville
Chapelhill
Blackhill
Wester Raritchie
Easter Raritchie
Strath of Pitcalnie
Culnaha
Bayfield Ho
Cullisse
Balnagown Castle
Mains of Balnagown
Shandwick Ho
Shandwick Mains

Legend

- Site Boundary
- TargetNote

JNCC Phase 1 Habitat Code

- A2.1 Dense/Continuous Scrub
- A2.2 Scattered Scrub
- A3.1 Parkland/Scattered Broad-leaved Trees
- B2.2 Neutral Semi-Improved Grassland
- B4 Improved Grassland
- C3.1 Tall Ruderal Vegetation
- H1.1 Intertidal Mud/Sand
- H3 Shingle above High Tide Mark
- H6.5 Dune Grassland
- H6.8 Open Dune - Grey Dune
- J1.3 Ephemeral/Short Perennial
- J2.4 Fence
- J2.5 Wall
- J3.5 Sea Wall
- J3.6 Building
- J4 Bare Ground
- J5 Other Habitat

Do not scale this map

Client
Global Energy Nigg Limited

Project
Nigg East Quay

Title
Figure 8.1 - Phase 1 Habitat Survey Map

Status
FINAL

Drawing No.
671906-004

Revision

Scale
1:2,200

A3

Date
12 Feb 2019

Drawn
ED

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JEP

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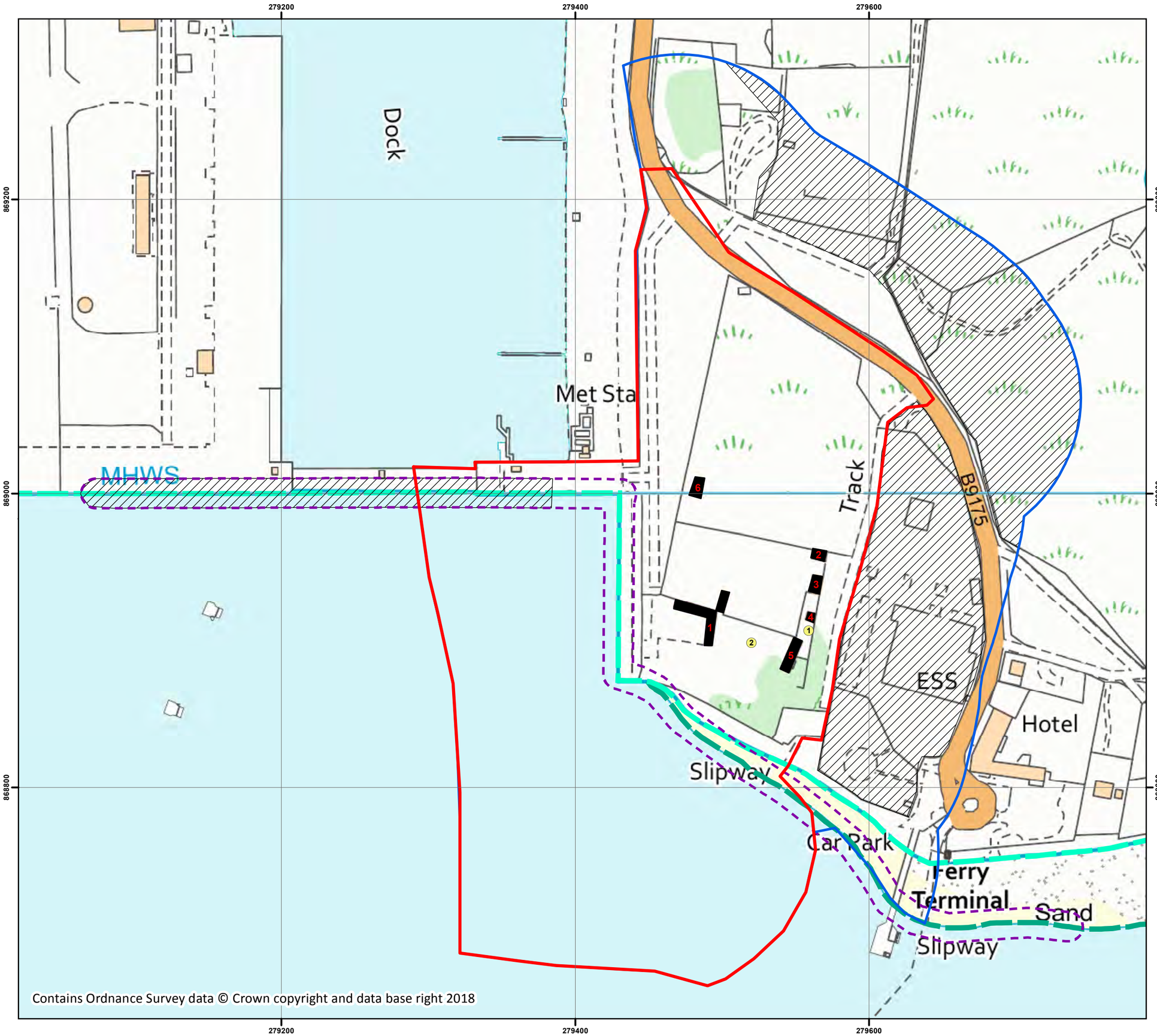

Legend

- Site Boundary
- 100m Survey Buffer
- 250m Survey Buffer
- Inaccessible Areas
- Buildings
- Trees With Potential Roost Features
- MHWS
- MLWS

Do not scale this map

Client
Global Energy Nigg Limited

Project
Nigg East Quay

Title
Figure 8.2 - Protected Species Survey Area

Status
FINAL

Drawing No.
671906-005

Revision

Scale
1:2,500

A3

Date
12 Feb 2019

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JEP

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JEM

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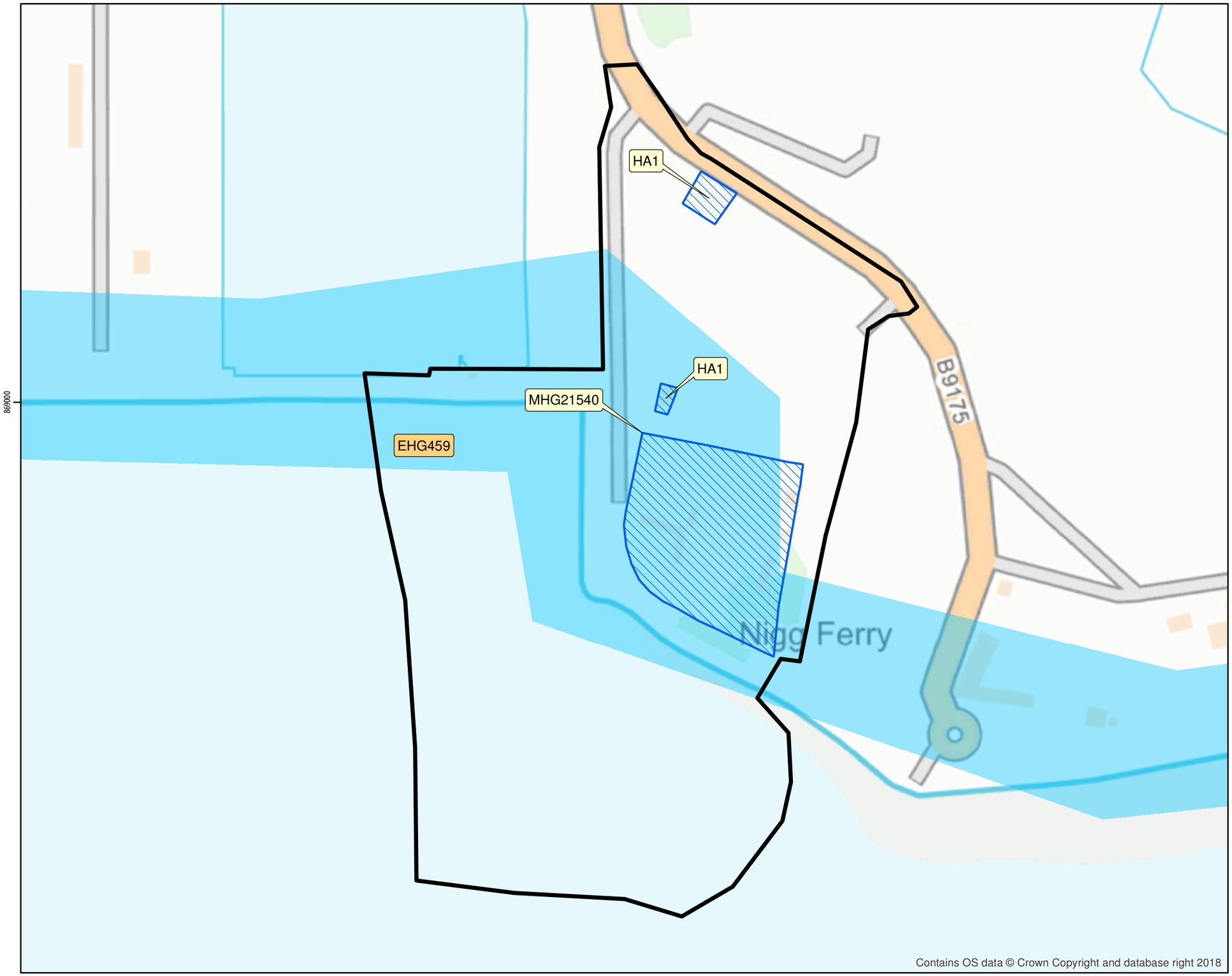

HEADLAND ARCHAEOLOGY
SCOTLAND
13 Jane Street
Edinburgh EH6 5HE
0131 467 7705
www.headlandarchaeology.com

KEY

- Heritage Asset
- HER Event Record
- Inner Study Area

Non-designated heritage asset information derived from NRHE data via Pastmap website dated 2019 and from Highland Council HER data received 4/3/19.
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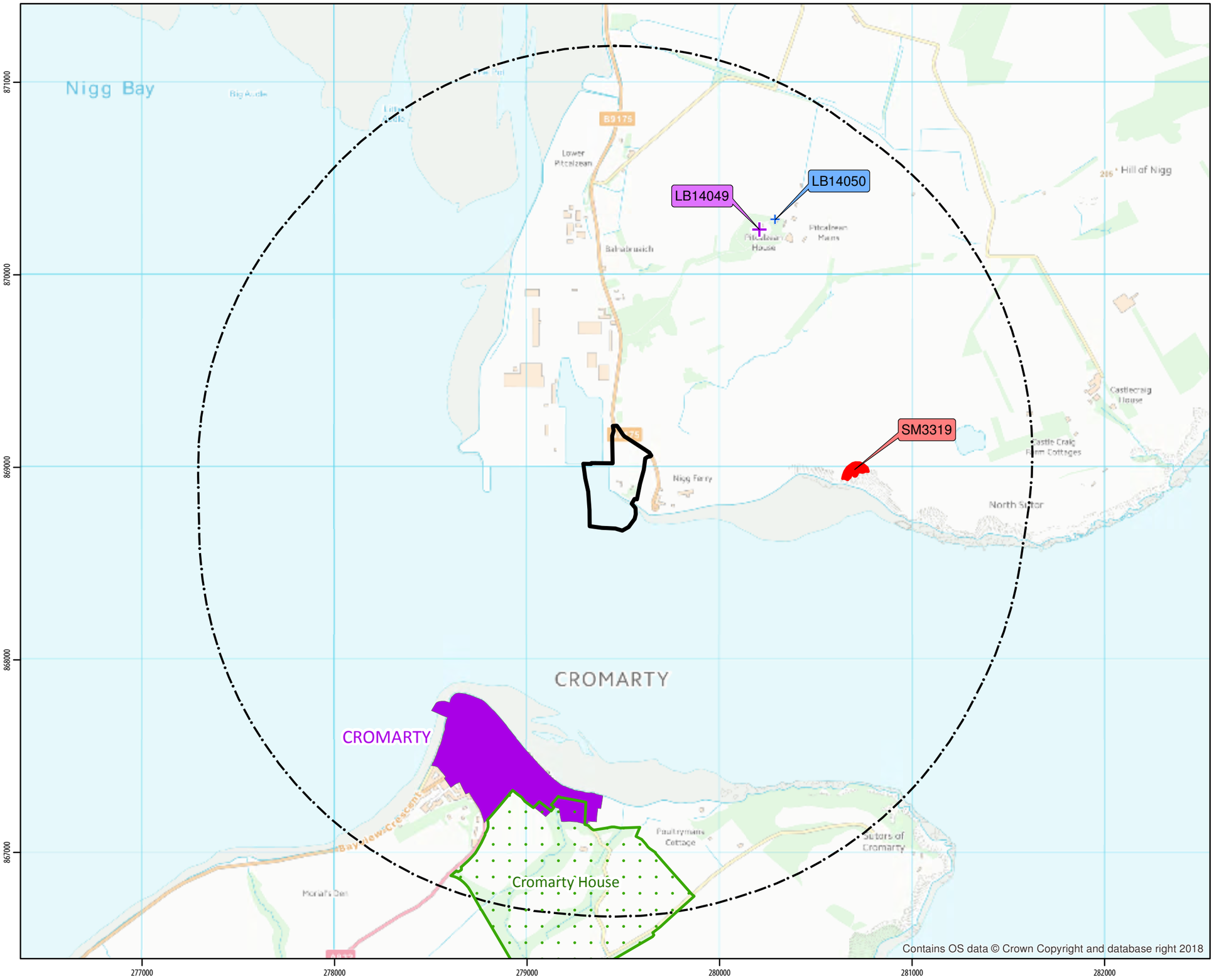
1:2,500 @ A3

0 15 30 60 m

N

Figure 8.3
Cultural Heritage Inner Study Area



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SCOTLAND
13 Jane Street
Edinburgh EH6 5HE
0131 467 7705
www.headlandarchaeology.com

KEY

- Scheduled Monument
- Category B LIsted Building
- Category C LIsted Building
- Inventory Garden and Designed Landscape
- Conservation Area
- Inner Study Area

Designations area information derived from HES data downloaded 4/3/19.
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1:20,000 @ A3

0 125 250 500 m

N

Figure 8.4
Cultural Heritage Outer Study Area

Legend

- Site Location
- 15km Buffer
- 5km Buffer

Do not scale this map

Client
Global Energy Nigg Limited

Project
Nigg East Quay

Title
Figure 8.5 - Study Area

Status
FINAL

Drawing No.
671906-010

Revision

Scale
1:115,000

A3

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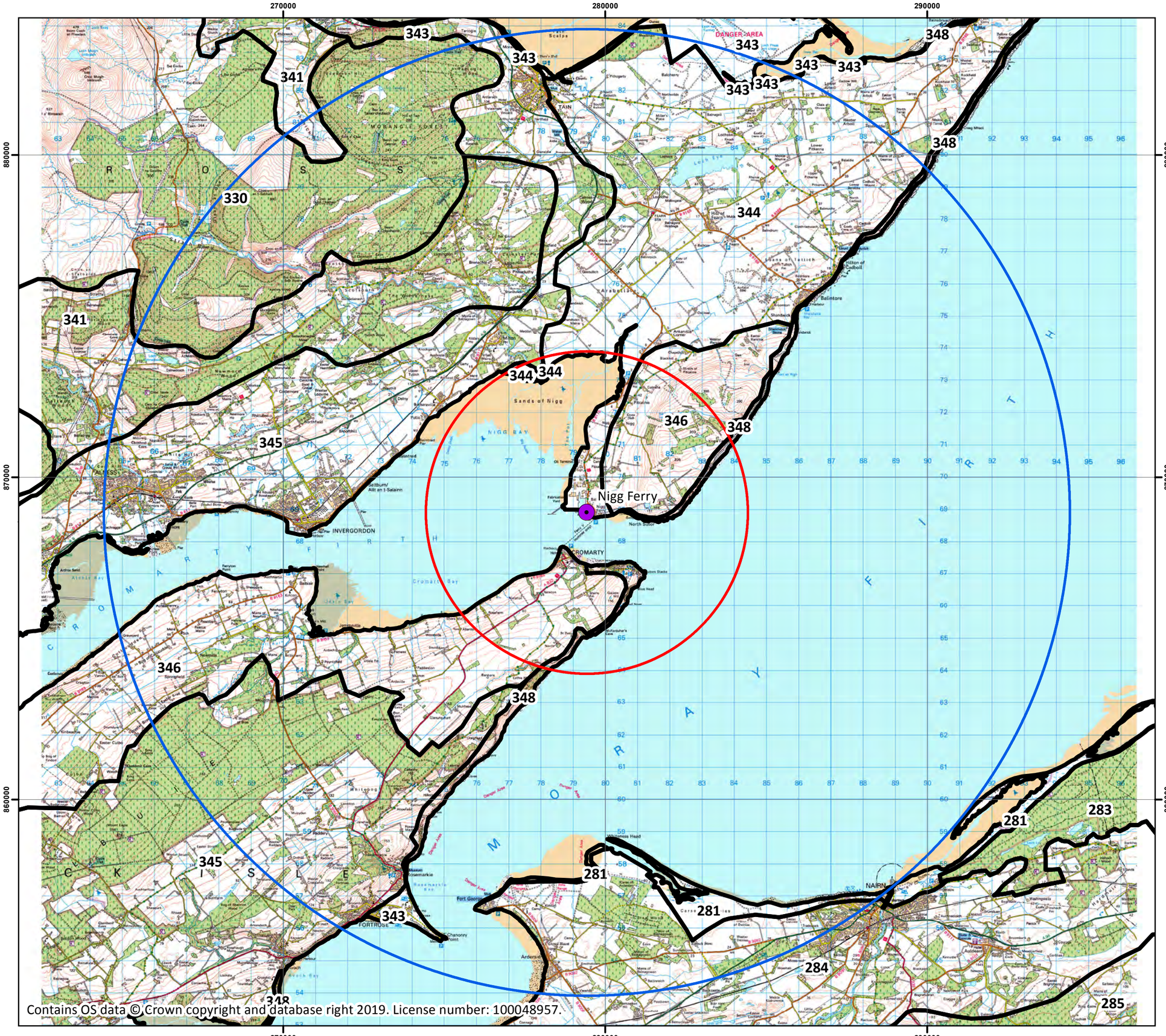

Legend

- Site Location
- 15km Buffer
- 5km Buffer

Landscape Character Types

- Landscape Character Types

LCT No.

281	Beaches, Dunes and Links
348	Cliffs and Rocky Coasts
345	Farmed and Forested Slopes
343	Coastal Shelf
284	Coastal Farmlands
283	Coastal Forest
341	Forest Edge Farming
344	Lowland Farmed Plain
346	Open Farmed Slopes
330	Rounded Hills and Moorland Slopes
285	Rolling Farmland and Forests

Do not scale this map

Client
Global Energy Nigg Limited

Project
Nigg East Quay

Title
Figure 8.6 - Landscape Character

Status
FINAL

Drawing No.
671906-011

Revision

Scale
1:115,000

A3

Date
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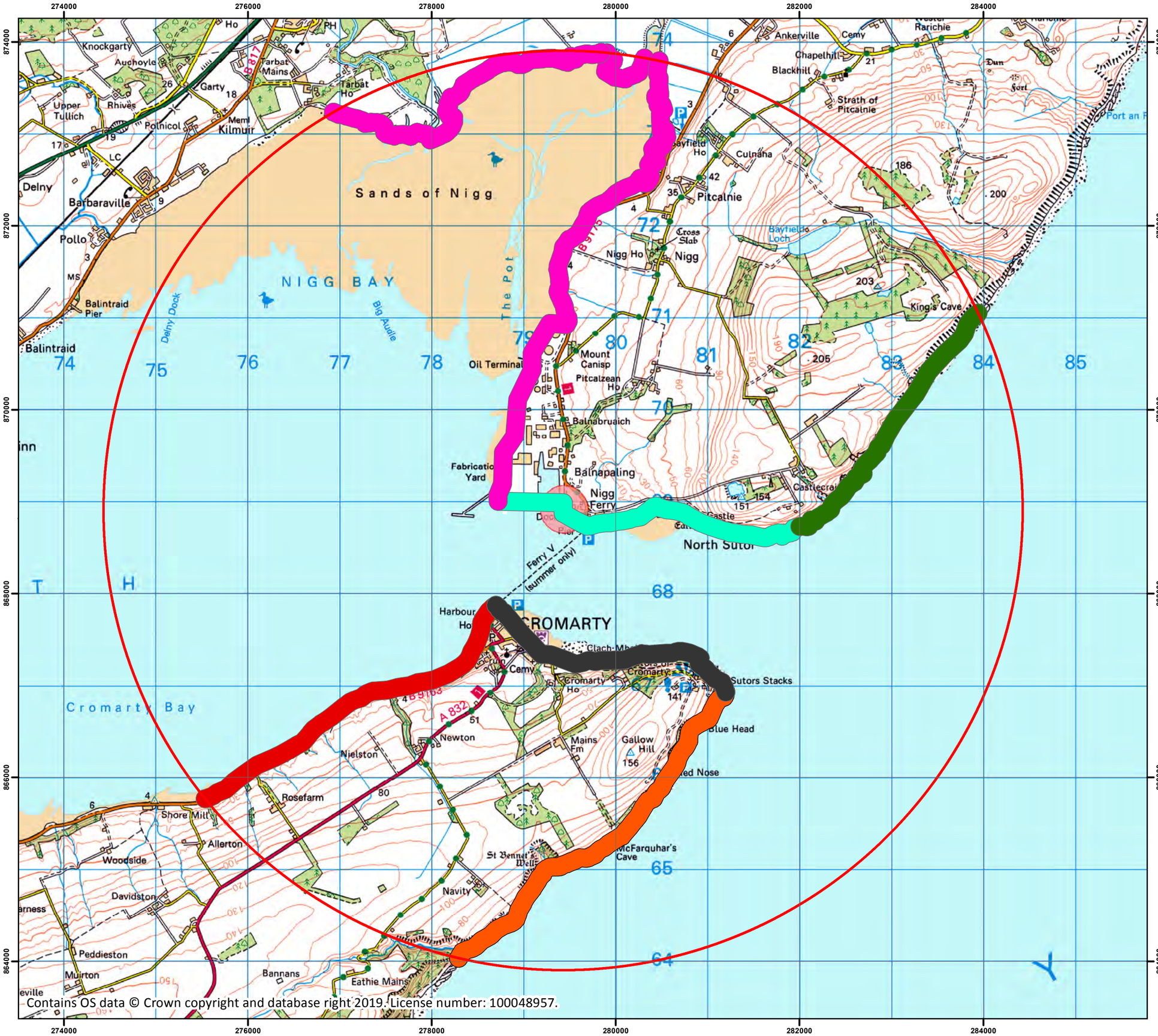

Legend

- 5km Buffer

Coastal Character

- Cromarty Bay
- Cromarty Coast
- Nigg Bay
- Northern Outer Firth
- North Sutor Coast
- Southern Outer Firth

Do not scale this map

Client	Global Energy Nigg Limited
Project	Nigg East Quay
Title	Figure 8.7 - Coastal Character
Status	FINAL
Drawing No.	671906-0012
Revision	
Scale	1:40,000
A3	
Date	03 April 2019
Drawn	SMC
Checked	CP
Approved	CP

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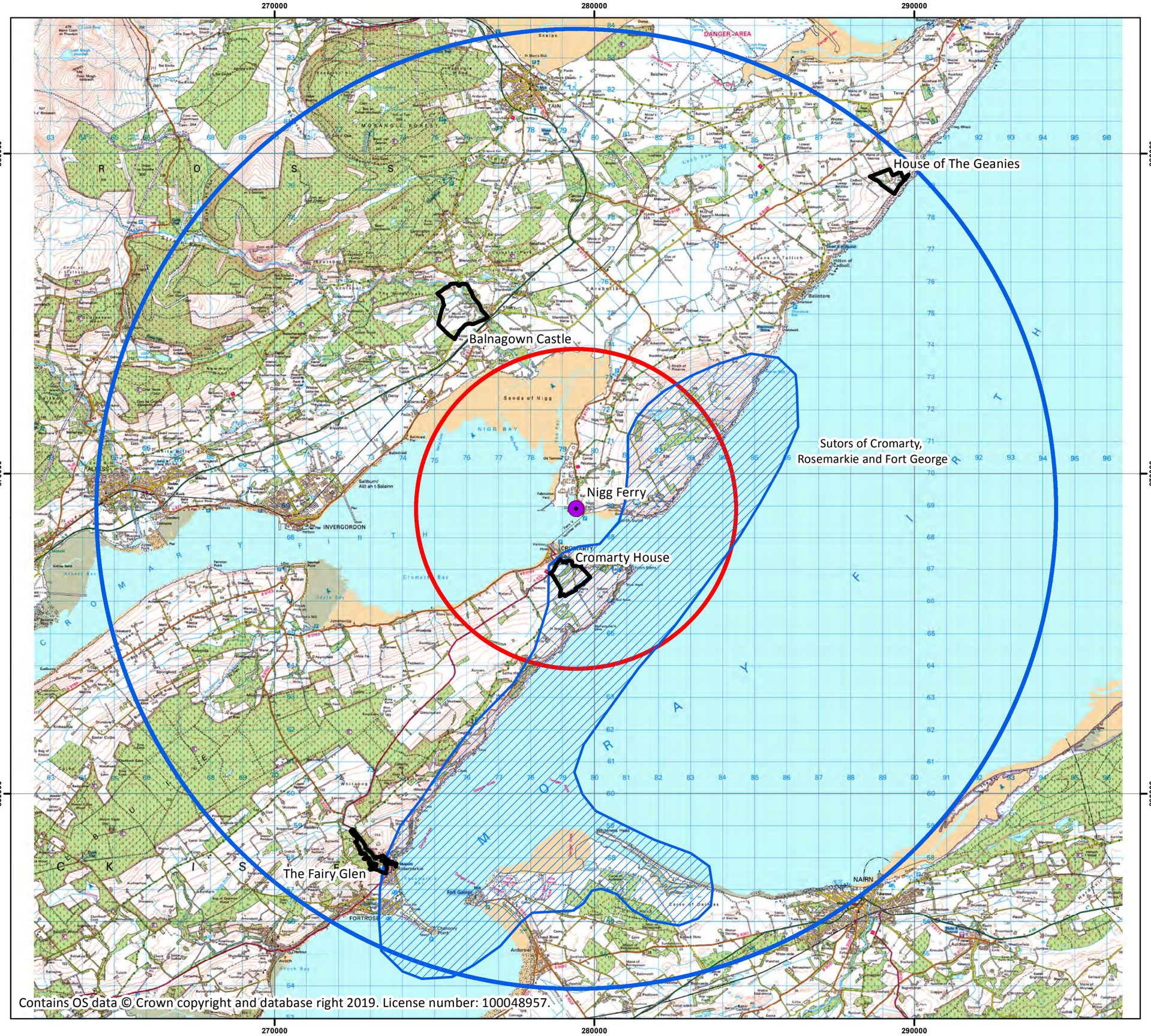

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Legend

- Site Location
- Gardens & Designed Landscapes
- Special Landscape Areas
- 15km Buffer
- 5km Buffer

Do not scale this map

Client
Global Energy Nigg Limited

Project
Nigg East Quay

Title
Figure 8.8 - LV Designations

Status
FINAL

Drawing No.
671906-013

Revision

Scale
1:115,000

A3

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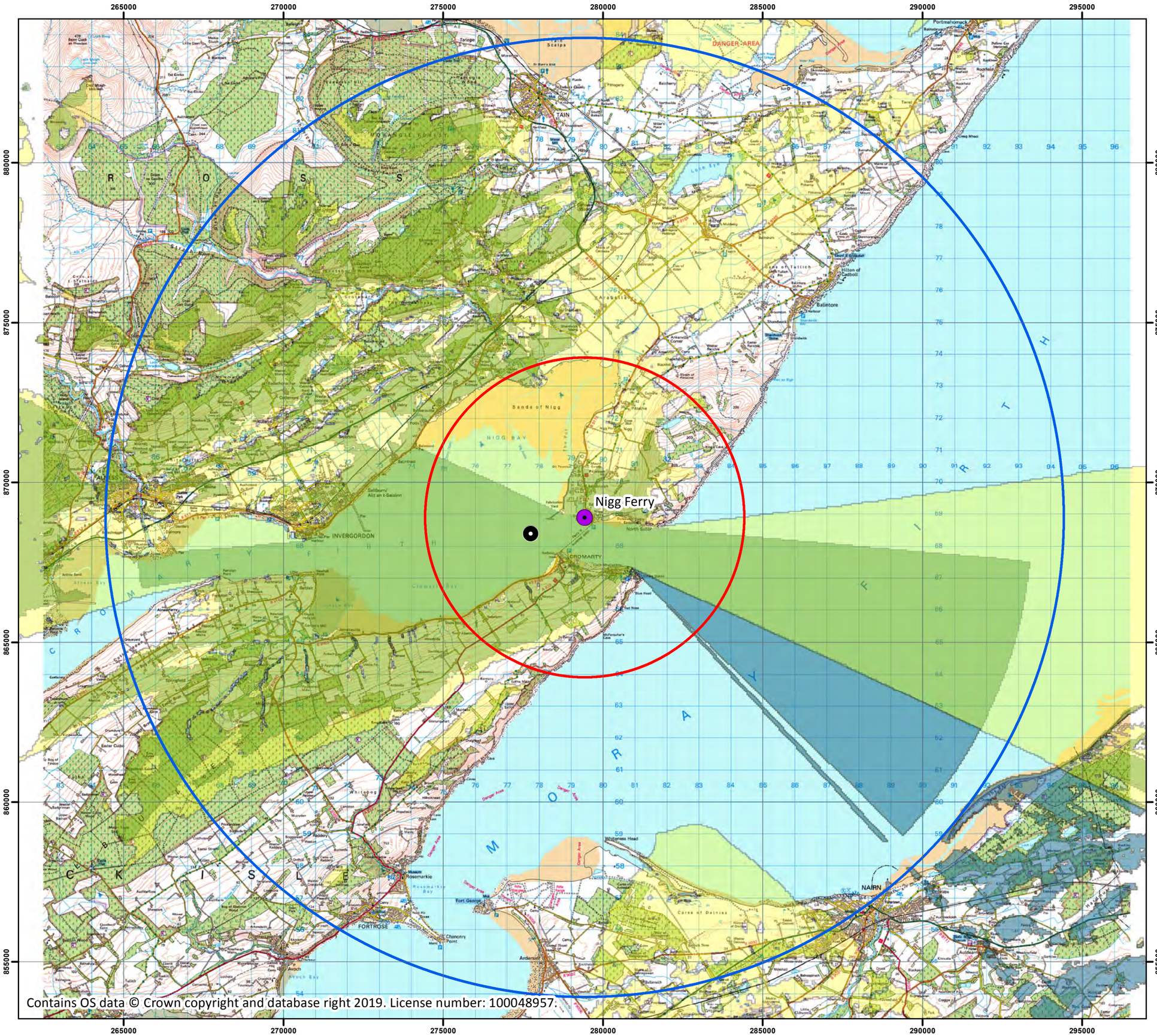

Legend

- Site Location
- Jack-up Rig Potential Location
- 15km Buffer
- 5km Buffer
- East Quay theoretical visibility
- East Quay & Jack-up Rig theoretical visibilty
- Jack-up Rig theoretical visibility

Do not scale this map

Client
Global Energy Nigg Limited

Project
Nigg East Quay

Title
Figure 8.9 - Zone of Theoretical Visibility

Status
FINAL

Drawing No.
671906-014

Revision

Scale
1:115,000

A3

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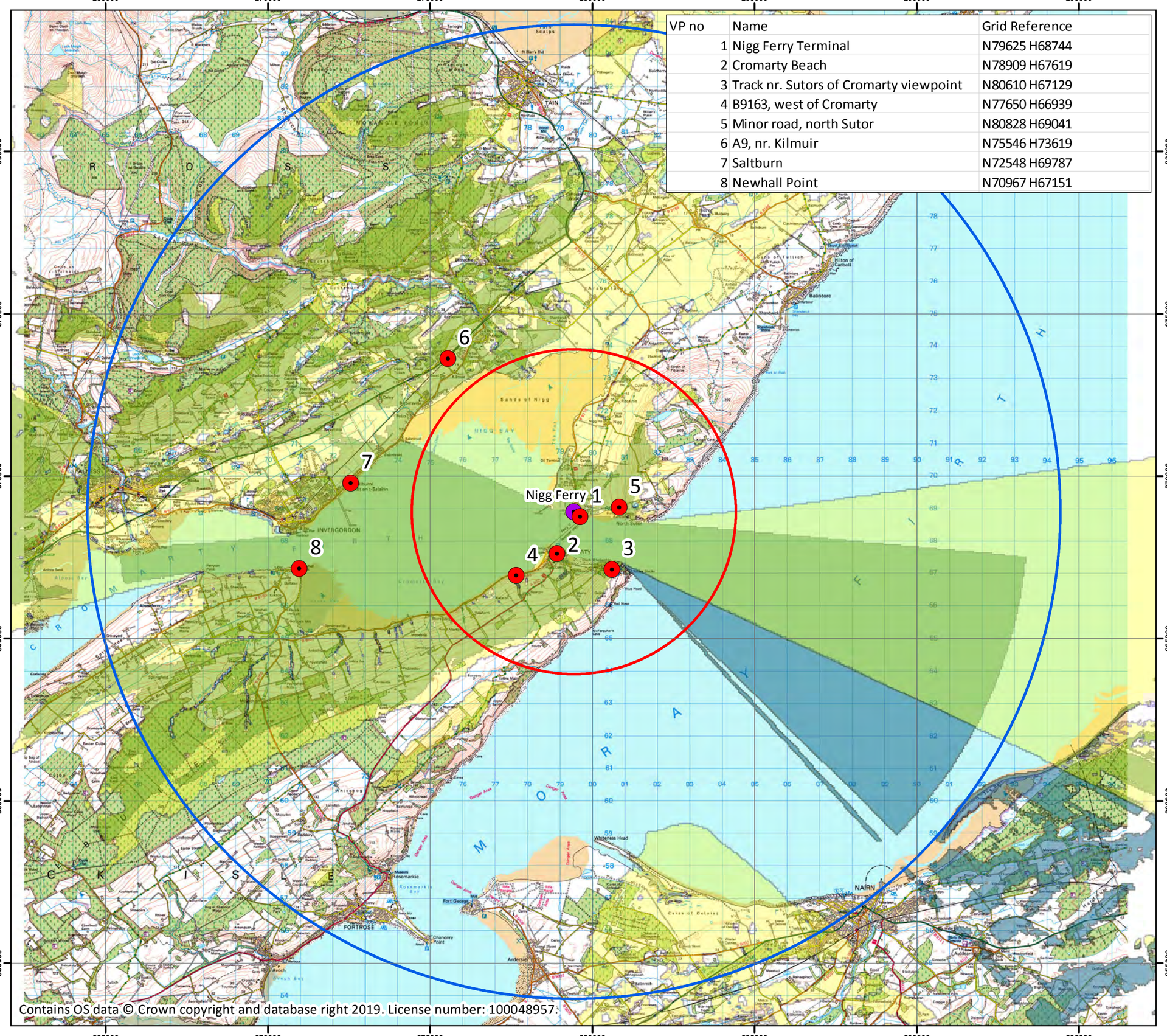

VP no	Name	Grid Reference
1	Nigg Ferry Terminal	N79625 H68744
2	Cromarty Beach	N78909 H67619
3	Track nr. Sutors of Cromarty viewpoint	N80610 H67129
4	B9163, west of Cromarty	N77650 H66939
5	Minor road, north Sutor	N80828 H69041
6	A9, nr. Kilmuir	N75546 H73619
7	Saltburn	N72548 H69787
8	Newhall Point	N70967 H67151

Legend

- 15km Buffer
- 5km Buffer
- Site Location
- Viewpoints
- East Quay theoretical visibility
- East Quay & Jack-up Rig theoretical visibilty
- Jack-up Rig theoretical visibility

Do not scale this map

Client
Global Energy Nigg Limited

Project
Nigg East Quay

Title
Figure 8.10 - Proposed Viewponts with ZTV

Status
FINAL

Drawing No.
671906-015

Revision

Scale
1:115,000

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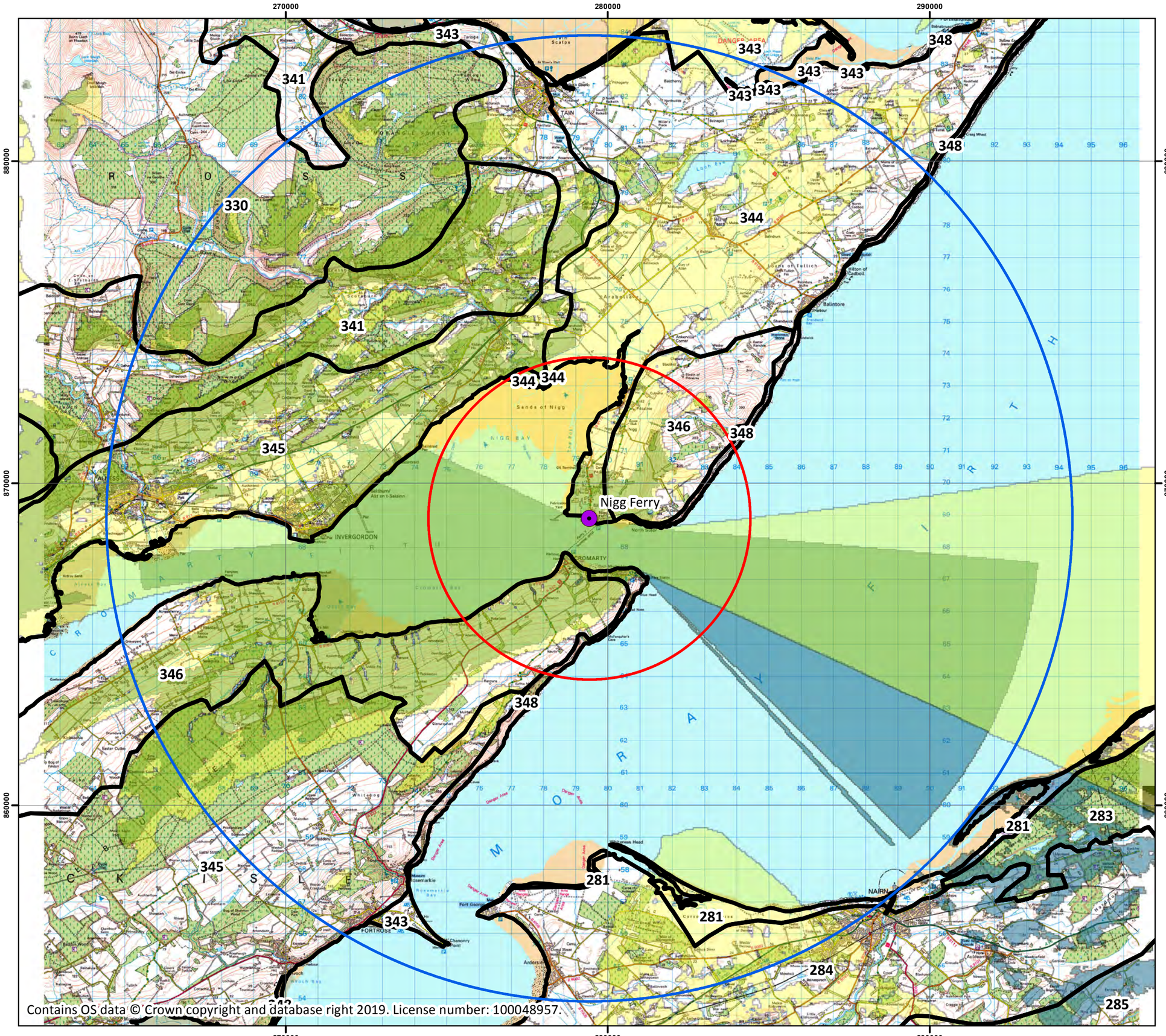

Legend

- Site Location
- 15km Buffer
- 5km Buffer
- Landscape Character Types
- East Quay theoretical visibility
- East Quay & Jack-up Rig theoretical visibilty
- Jack-up Rig theoretical visibility

LCT No.

281	Beaches, Dunes and Links
348	Cliffs and Rocky Coasts
345	Farmed and Forested Slopes
343	Coastal Shelf
284	Coastal Farmlands
283	Coastal Forest
341	Forest Edge Farming
344	Lowland Farmed Plain
346	Open Farmed Slopes
330	Rounded Hills and Moorland Slopes
285	Rolling Farmland and Forests

Do not scale this map

Client
Global Energy Nigg Limited

Project
Nigg East Quay

Title
Figure 8.11 - Proposed Landscape Character with ZTV

Status
FINAL

Drawing No.
671906-016

Revision

Scale
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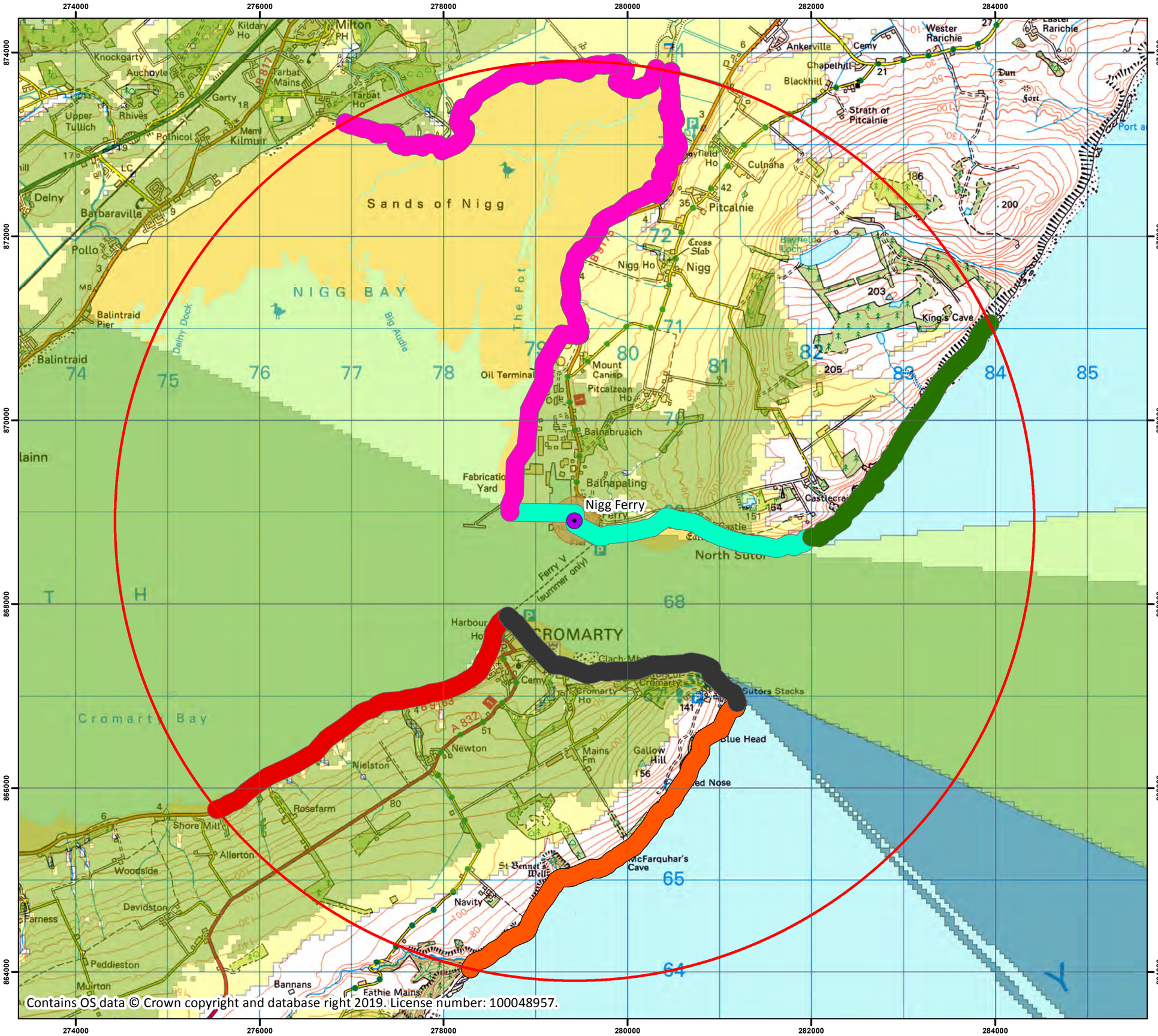

Legend

- Site Location
- 5km Buffer
- East Quay theoretical visibility
- East Quay & Jack-up Rig theoretical visibilty
- Jack-up Rig theoretical visibility

Coastal Character

- Cromarty Bay
- Cromarty Coast
- Nigg Bay
- Northern Outer Firth
- North Sutor Coast
- Southern Outer Firth

Do not scale this map

Client
Global Energy Nigg Limited

Project
Nigg East Quay

Title
Figure 8.12 -Proposed Coastal Character with ZTV

Status
FINAL

Drawing No.
671906-017

Revision

Scale
1:40,000

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Date
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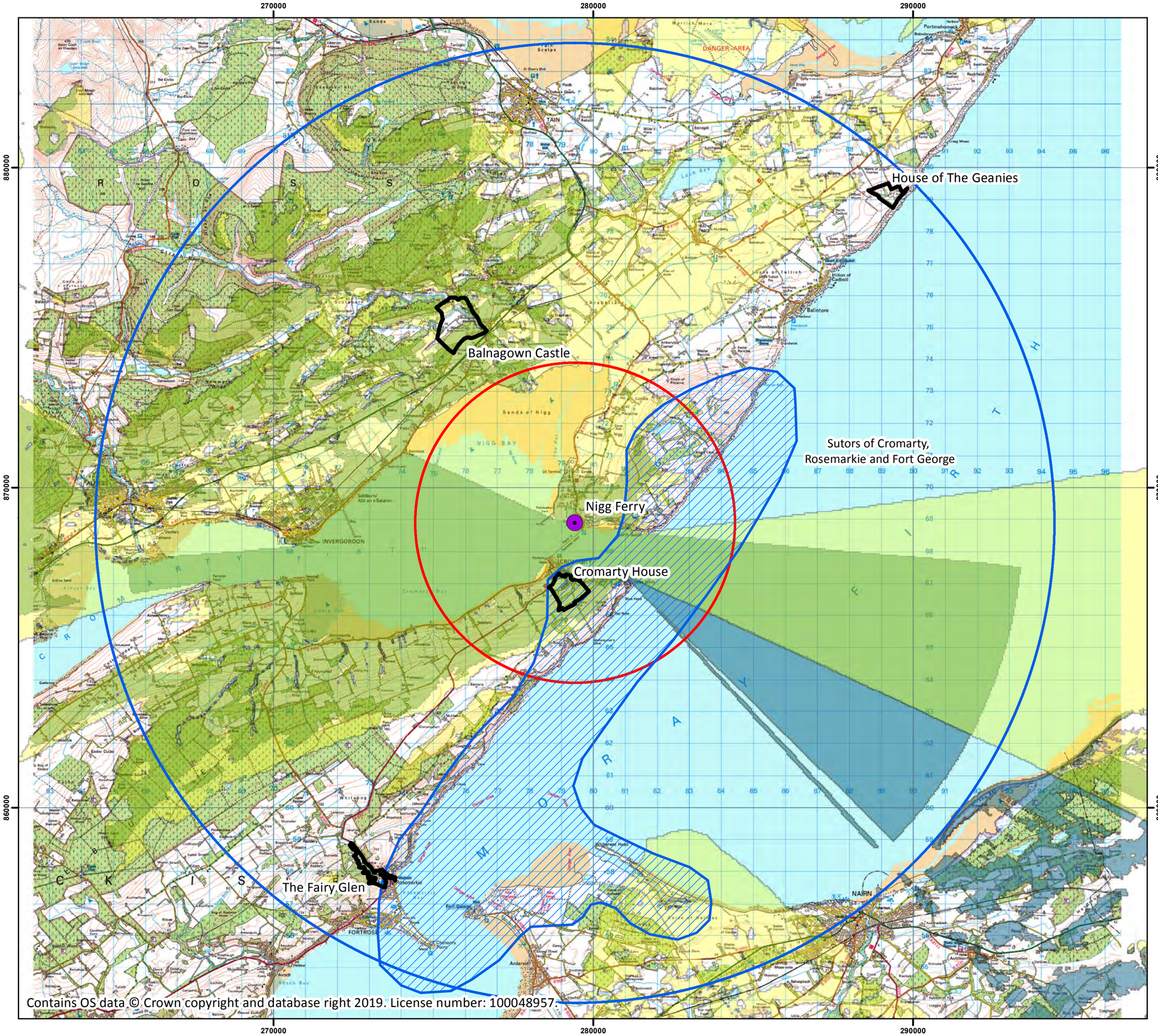

Legend

- Site Location
- Gardens & Designed Landscapes
- Special Landscape Areas
- 15km Buffer
- 5km Buffer
- East Quay theoretical visibility
- East Quay & Jack-up Rig theoretical visibilty
- Jack-up Rig theoretical visibility

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Client
Global Energy Nigg Limited

Project
Nigg East Quay

Title
Figure 8.13 - LV Designations with ZTV

Status
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671906-018

Revision

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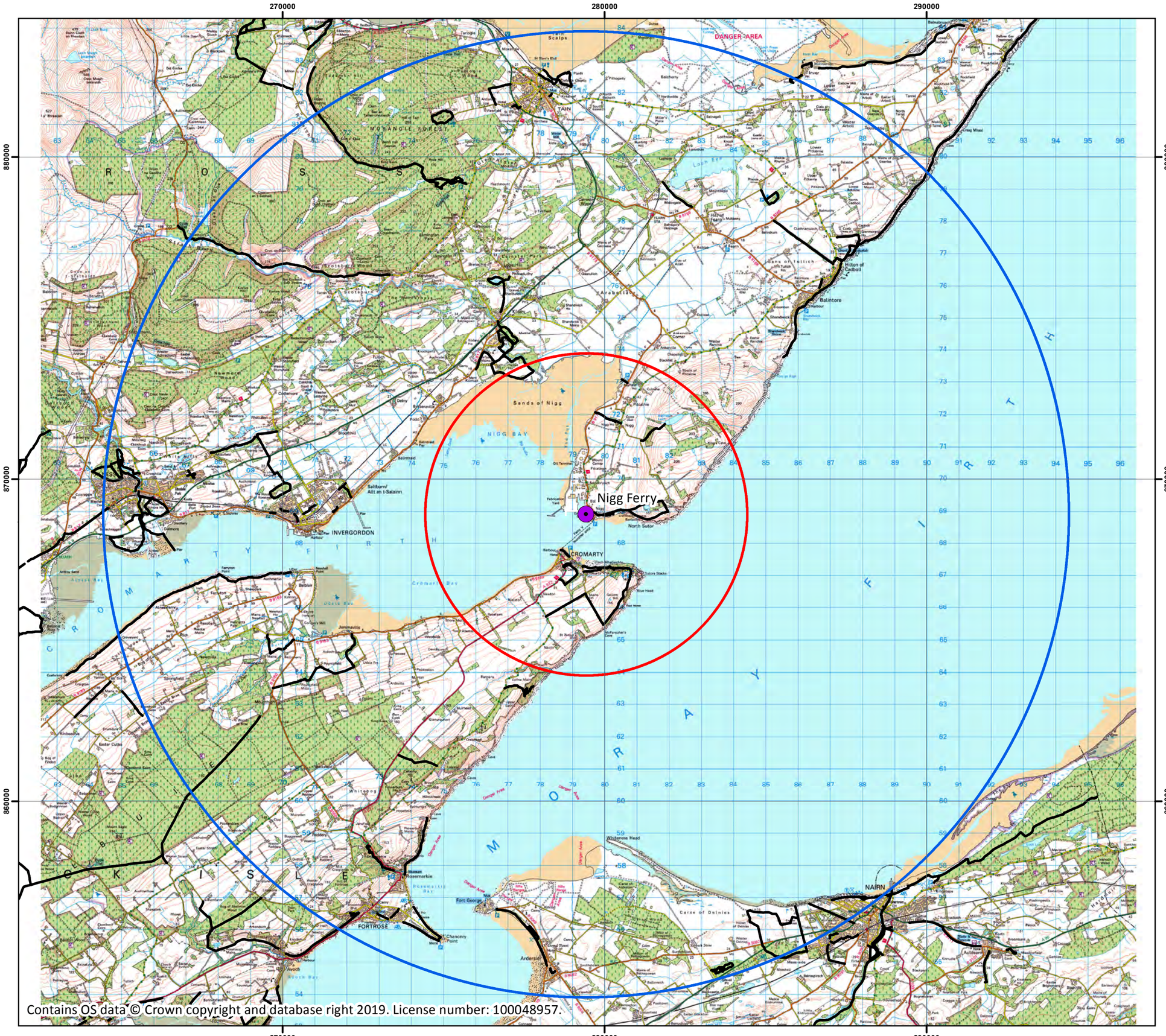

Legend

- Site Location
- 15km Buffer
- 5km Buffer
- Core Paths

Do not scale this map

Client
Global Energy Nigg Limited

Project
Nigg East Quay

Title
Figure 8.14 - Recreational Routes

Status
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Drawing No.
671906-025

Revision

Scale
1:115,000

A3

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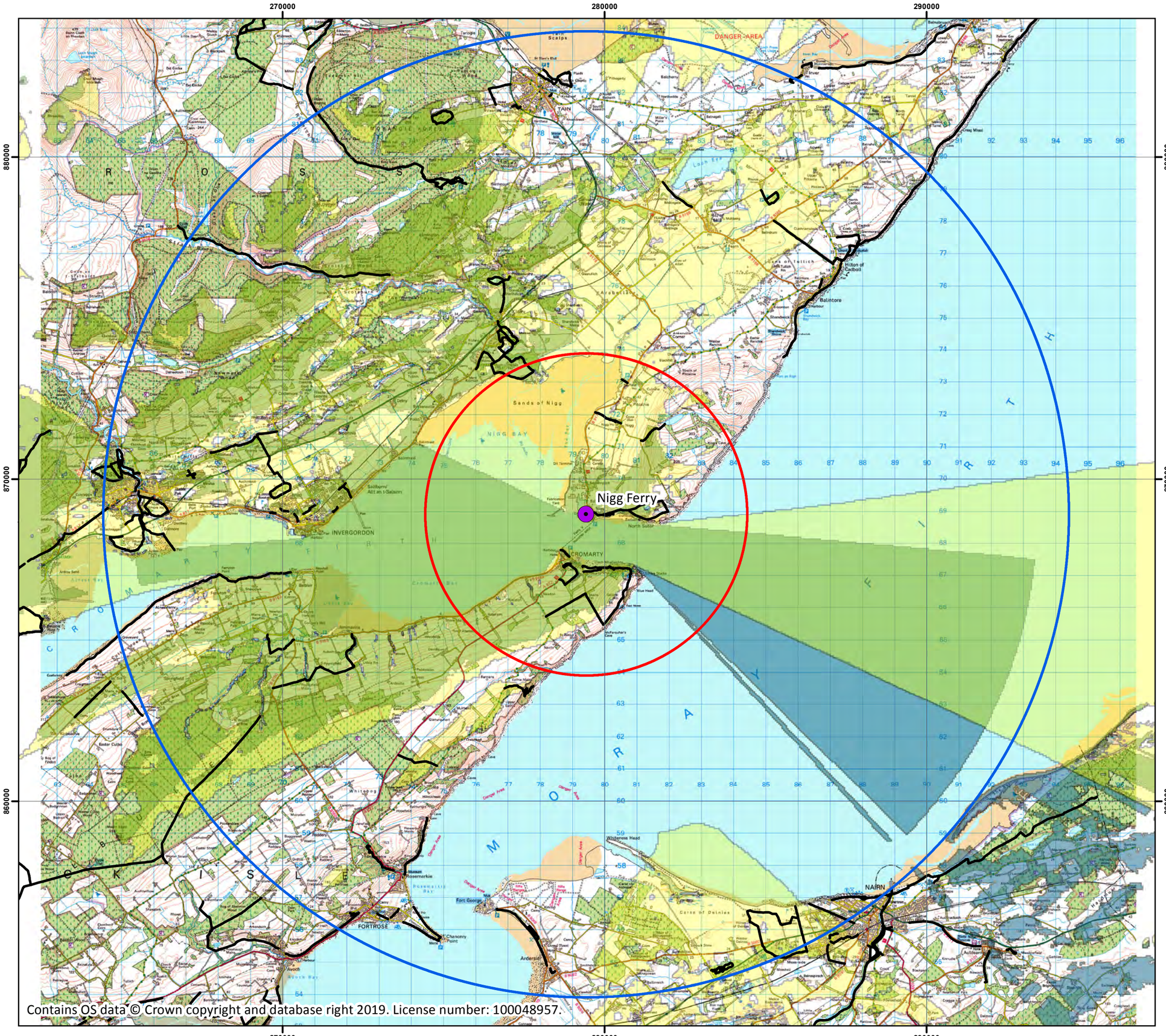

Legend

- Site Location
- 15km Buffer
- 5km Buffer
- Core Paths
- East Quay theoretical visibility
- East Quay & Jack-up Rig theoretical visibilty
- Jack-up Rig theoretical visibility

Do not scale this map

Client	Global Energy Nigg Limited
Project	Nigg East Quay
Title	Figure 8.15 - Recreational Routes
Status	FINAL
Drawing No.	671906-026
Revision	
Scale	1:115,000
A3	
Date	02 April 2019
Drawn	SMC
Checked	CP
Approved	CP

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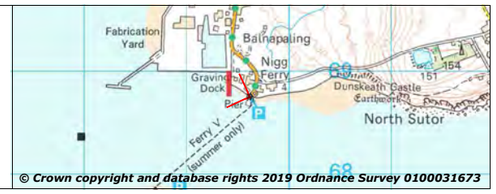
MODEL VIEW

Douglas Harman CMLI
Landscape Planning

Project:	Nigg East Quay	VP No/Title:	1. Nigg Ferry terminal	Viewpoint Height AOD:	4m
Drawing No:	8.16a	Grid Reference:	NH 79625 68744	Camera Model:	Canon EOS 7D
Paper Size:	A3	View Direction:	290°	Date & Time of Photo:	25/03/2019 14:31
Drawn/Approved:	MW	Distance to Development:	0.18km	Horizontal Field of View:	80°



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MODEL VIEW

Douglas Harman CMLI
Landscape Planning

Project:	Nigg East Quay	VP No/Title:	1. Nigg Ferry terminal	Viewpoint Height AOD:	4m
Drawing No:	8.16b	Grid Reference:	NH 79625 68744	Camera Model:	Canon EOS 7D
Paper Size:	A3	View Direction:	290°	Date & Time of Photo:	25/03/2019 14:31
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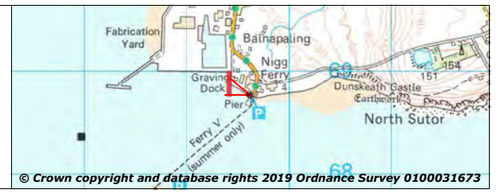

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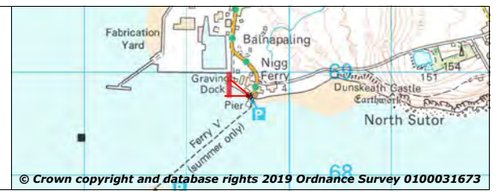

Douglas Harman CMLI
Landscape Planning

Project:	Nigg East Quay	VP No/Title:	1. Nigg Ferry terminal	Viewpoint Height AOD:	4m
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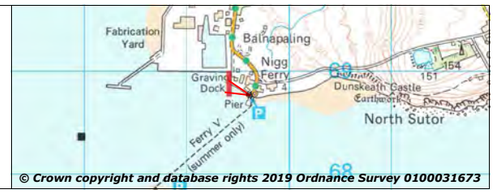

EXISTING VIEW

MODEL VIEW

PHOTOMONTAGE VIEW

Douglas Harman CMLI
Landscape Planning

Project:	Nigg East Quay	VP No/Title:	2. Cromarty beach	Viewpoint Height AOD:	4m
Drawing No:	8.17a	Grid Reference:	NH 78909 67619	Camera Model:	Canon EOS 7D
Paper Size:	A3	View Direction:	350°	Date & Time of Photo:	25/03/2019 12:47
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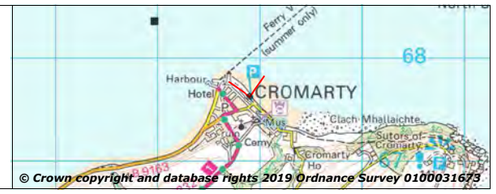

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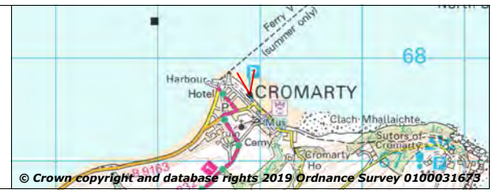
EXISTING VIEW

MODEL VIEW

Douglas Harman CMLI
Landscape Planning

Project:	Nigg East Quay	VP No/Title:	2. Cromarty beach	Viewpoint Height AOD:	4m
Drawing No:	8.17b	Grid Reference:	NH 78909 67619	Camera Model:	Canon EOS 7D
Paper Size:	A3	View Direction:	350°	Date & Time of Photo:	25/03/2019 12:47
Drawn/Approved:	MW	Distance to Development:	1.25km	Horizontal Field of View:	39.6° (50mm equiv.)



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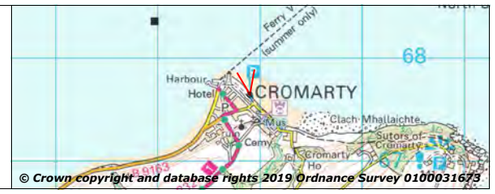
Douglas Harman CMLI
Landscape Planning

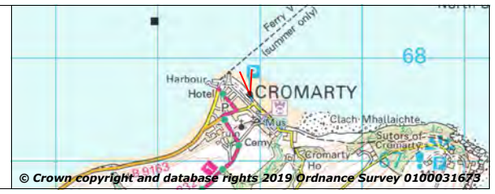
Project:	Nigg East Quay	VP No/Title:	2. Cromarty beach	Viewpoint Height AOD:	4m
Drawing No:	8.17c	Grid Reference:	NH 78909 67619	Camera Model:	Canon EOS 7D
Paper Size:	A3	View Direction:	350°	Date & Time of Photo:	25/03/2019 12:47
Drawn/Approved:	MW	Distance to Development:	1.25km	Horizontal Field of View:	39.6° (50mm equiv.)



PHOTOMONTAGE VIEW

Douglas Harman CMLI
Landscape Planning

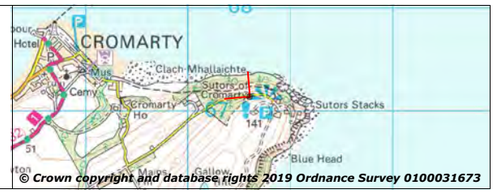
Project:	Nigg East Quay	VP No/Title:	2. Cromarty beach	Viewpoint Height AOD:	4m
Drawing No:	8.17d	Grid Reference:	NH 78909 67619	Camera Model:	Canon EOS 7D
Paper Size:	A3	View Direction:	350°	Date & Time of Photo:	25/03/2019 12:47
Drawn/Approved:	MW	Distance to Development:	1.25km	Horizontal Field of View:	27.0° (75mm equiv.)



MODEL VIEW

Douglas Harman CMLI
Landscape Planning

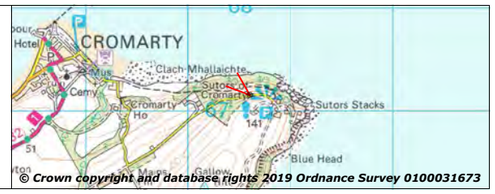
Project:	Nigg East Quay	VP No/Title:	3. Track nr. Sutors of Cromarty viewpoint	Viewpoint Height AOD:	116m
Drawing No:	8.18a	Grid Reference:	NH 80610 67129	Camera Model:	Canon EOS 7D
Paper Size:	A3	View Direction:	310°	Date & Time of Photo:	25/03/2019 13:01
Drawn/Approved:	MW	Distance to Development:	1.99km	Horizontal Field of View:	80°



MODEL VIEW

Douglas Harman CMLI
Landscape Planning

Project:	Nigg East Quay	VP No/Title:	3. Track nr. Sutors of Cromarty viewpoint	Viewpoint Height AOD:	116m
Drawing No:	8.18b	Grid Reference:	NH 80610 67129	Camera Model:	Canon EOS 7D
Paper Size:	A3	View Direction:	310°	Date & Time of Photo:	25/03/2019 13:01
Drawn/Approved:	MW	Distance to Development:	1.99km	Horizontal Field of View:	39.6° (50mm equiv.)



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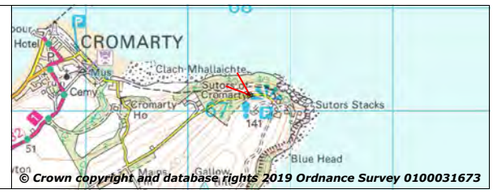
Douglas Harman CMLI
Landscape Planning

Project:	Nigg East Quay	VP No/Title:	3. Track nr. Sutors of Cromarty viewpoint	Viewpoint Height AOD:	116m
Drawing No:	8.18c	Grid Reference:	NH 80610 67129	Camera Model:	Canon EOS 7D
Paper Size:	A3	View Direction:	310°	Date & Time of Photo:	25/03/2019 13:01
Drawn/Approved:	MW	Distance to Development:	1.99km	Horizontal Field of View:	39.6° (50mm equiv.)



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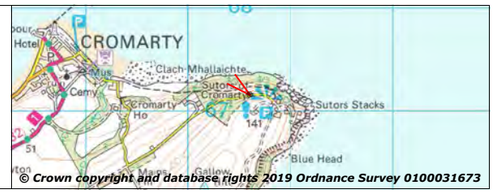
Douglas Harman CMLI
Landscape Planning

Project:	Nigg East Quay	VP No/Title:	3. Track nr. Sutors of Cromarty viewpoint	Viewpoint Height AOD:	116m
Drawing No:	8.18d	Grid Reference:	NH 80610 67129	Camera Model:	Canon EOS 7D
Paper Size:	A3	View Direction:	310°	Date & Time of Photo:	25/03/2019 13:01
Drawn/Approved:	MW	Distance to Development:	1.99km	Horizontal Field of View:	27.0° (75mm equiv.)



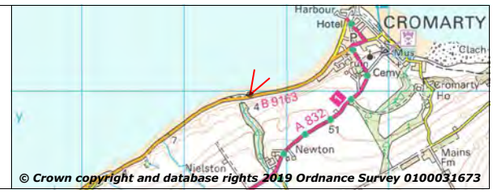
Douglas Harman CMLI
Landscape Planning

Project:	Nigg East Quay	VP No/Title:	4. B9163, west of Cromarty	Viewpoint Height AOD:	4m
Drawing No:	8.19a	Grid Reference:	NH 77650 66939	Camera Model:	Canon EOS 7D
Paper Size:	A3	View Direction:	30°	Date & Time of Photo:	25/03/2019 13:16
Drawn/Approved:	MW	Distance to Development:	2.55km	Horizontal Field of View:	80°

MODEL VIEW

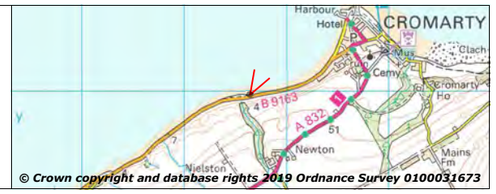
Douglas Harman CMLI
Landscape Planning

Project:	Nigg East Quay	VP No/Title:	4. B9163, west of Cromarty	Viewpoint Height AOD:	4m
Drawing No:	8.19b	Grid Reference:	NH 77650 66939	Camera Model:	Canon EOS 7D
Paper Size:	A3	View Direction:	30°	Date & Time of Photo:	25/03/2019 13:16
Drawn/Approved:	MW	Distance to Development:	2.55km	Horizontal Field of View:	39.6° (50mm equiv.)



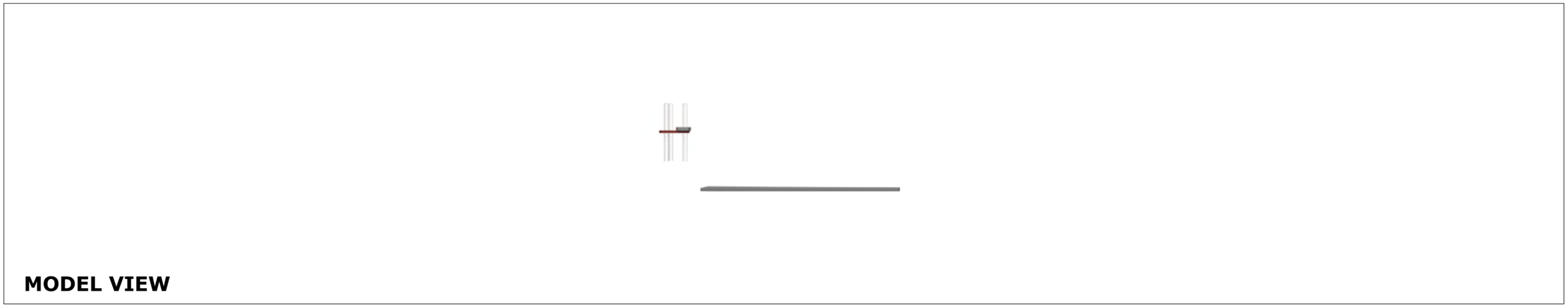
Douglas Harman CMLI
Landscape Planning

Project:	Nigg East Quay	VP No/Title:	4. B9163, west of Cromarty	Viewpoint Height AOD:	4m
Drawing No:	8.19c	Grid Reference:	NH 77650 66939	Camera Model:	Canon EOS 7D
Paper Size:	A3	View Direction:	30°	Date & Time of Photo:	25/03/2019 13:16
Drawn/Approved:	MW	Distance to Development:	2.55km	Horizontal Field of View:	39.6° (50mm equiv.)



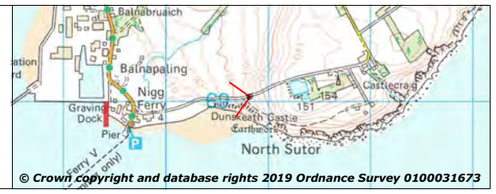
Douglas Harman CMLI
Landscape Planning

Project:	Nigg East Quay	VP No/Title:	4. B9163, west of Cromarty	Viewpoint Height AOD:	4m
Drawing No:	8.19d	Grid Reference:	NH 77650 66939	Camera Model:	Canon EOS 7D
Paper Size:	A3	View Direction:	30°	Date & Time of Photo:	25/03/2019 13:16
Drawn/Approved:	MW	Distance to Development:	2.55km	Horizontal Field of View:	27.0° (75mm equiv.)



Douglas Harman CMLI
Landscape Planning

Project:	Nigg East Quay	VP No/Title:	5. Minor road, north Sutor	Viewpoint Height AOD:	72m
Drawing No:	8.20a	Grid Reference:	NH 80828 69041	Camera Model:	Canon EOS 7D
Paper Size:	A3	View Direction:	260°	Date & Time of Photo:	25/03/2019 14:45
Drawn/Approved:	MW	Distance to Development:	1.41km	Horizontal Field of View:	80°

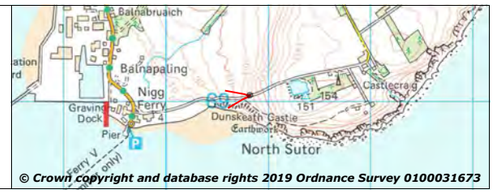


EXISTING VIEW

MODEL VIEW

Douglas Harman CMLI
Landscape Planning

Project:	Nigg East Quay	VP No/Title:	5. Minor road, north Sutor	Viewpoint Height AOD:	72m
Drawing No:	8.20b	Grid Reference:	NH 80828 69041	Camera Model:	Canon EOS 7D
Paper Size:	A3	View Direction:	260°	Date & Time of Photo:	25/03/2019 14:45
Drawn/Approved:	MW	Distance to Development:	1.41km	Horizontal Field of View:	39.6° (50mm equiv.)



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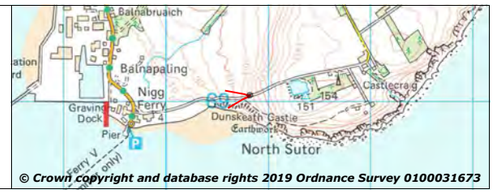
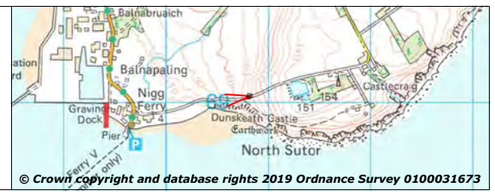
Douglas Harman CMLI
Landscape Planning

Project:	Nigg East Quay	VP No/Title:	5. Minor road, north Sutor	Viewpoint Height AOD:	72m
Drawing No:	8.20c	Grid Reference:	NH 80828 69041	Camera Model:	Canon EOS 7D
Paper Size:	A3	View Direction:	260°	Date & Time of Photo:	25/03/2019 14:45
Drawn/Approved:	MW	Distance to Development:	1.41km	Horizontal Field of View:	39.6° (50mm equiv.)



Douglas Harman CMLI
Landscape Planning

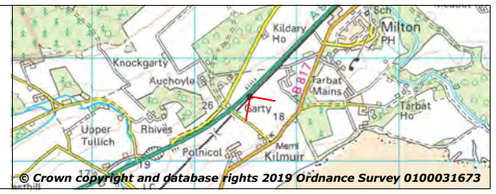
Project:	Nigg East Quay	VP No/Title:	5. Minor road, north Sutor	Viewpoint Height AOD:	72m
Drawing No:	8.20d	Grid Reference:	NH 80828 69041	Camera Model:	Canon EOS 7D
Paper Size:	A3	View Direction:	260°	Date & Time of Photo:	25/03/2019 14:45
Drawn/Approved:	MW	Distance to Development:	1.41km	Horizontal Field of View:	27.0° (75mm equiv.)

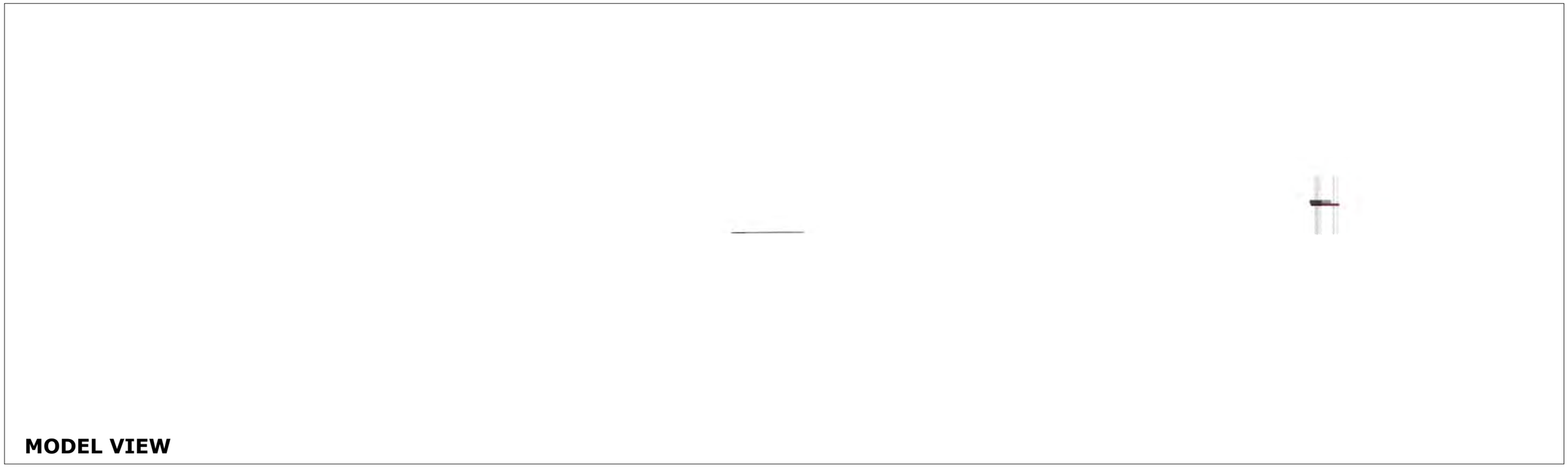


MODEL VIEW

Douglas Harman CMLI
Landscape Planning

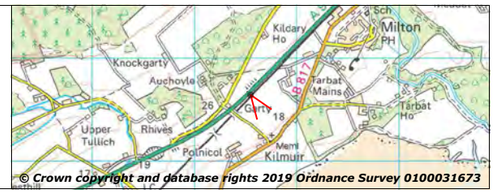
Project:	Nigg East Quay	VP No/Title:	6. A9, nr. Kilmuir	Viewpoint Height AOD:	28m
Drawing No:	8.21a	Grid Reference:	NH 75546 73619	Camera Model:	Canon EOS 7D
Paper Size:	A3	View Direction:	145°	Date & Time of Photo:	25/03/2019 15:22
Drawn/Approved:	MW	Distance to Development:	6.24km	Horizontal Field of View:	80°





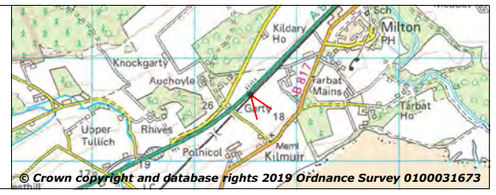
Douglas Harman CMLI
Landscape Planning

Project:	Nigg East Quay	VP No/Title:	6. A9, nr. Kilmuir	Viewpoint Height AOD:	28m
Drawing No:	8.21b	Grid Reference:	NH 75546 73619	Camera Model:	Canon EOS 7D
Paper Size:	A3	View Direction:	145°	Date & Time of Photo:	25/03/2019 15:22
Drawn/Approved:	MW	Distance to Development:	6.24km	Horizontal Field of View:	39.6° (50mm equiv.)



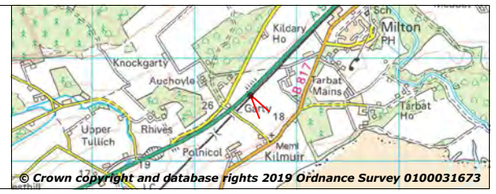
Douglas Harman CMLI
Landscape Planning

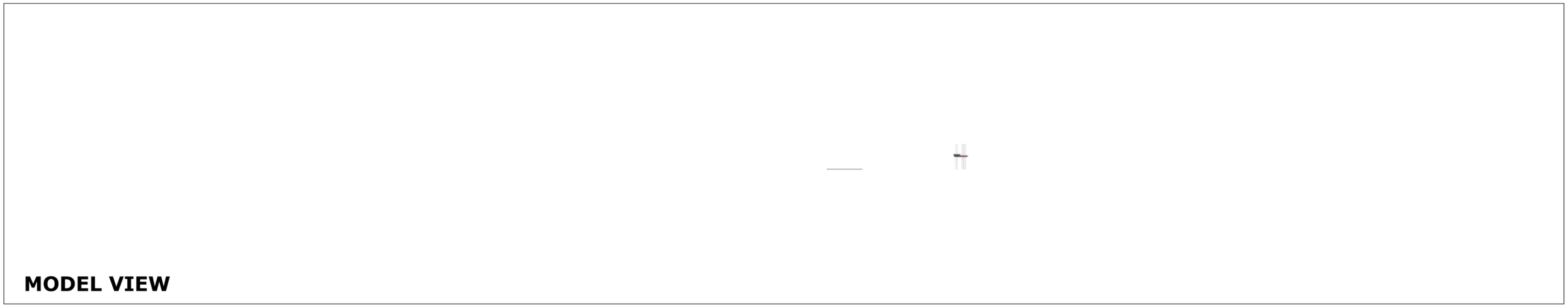
Project:	Nigg East Quay	VP No/Title:	6. A9, nr. Kilmuir	Viewpoint Height AOD:	28m
Drawing No:	8.21c	Grid Reference:	NH 75546 73619	Camera Model:	Canon EOS 7D
Paper Size:	A3	View Direction:	145°	Date & Time of Photo:	25/03/2019 15:22
Drawn/Approved:	MW	Distance to Development:	6.24km	Horizontal Field of View:	39.6° (50mm equiv.)



Douglas Harman CMLI
Landscape Planning

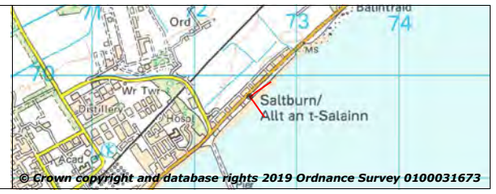
Project:	Nigg East Quay	VP No/Title:	6. A9, nr. Kilmuir	Viewpoint Height AOD:	28m
Drawing No:	8.21d	Grid Reference:	NH 75546 73619	Camera Model:	Canon EOS 7D
Paper Size:	A3	View Direction:	145°	Date & Time of Photo:	25/03/2019 15:22
Drawn/Approved:	MW	Distance to Development:	6.24km	Horizontal Field of View:	27.0° (75mm equiv.)

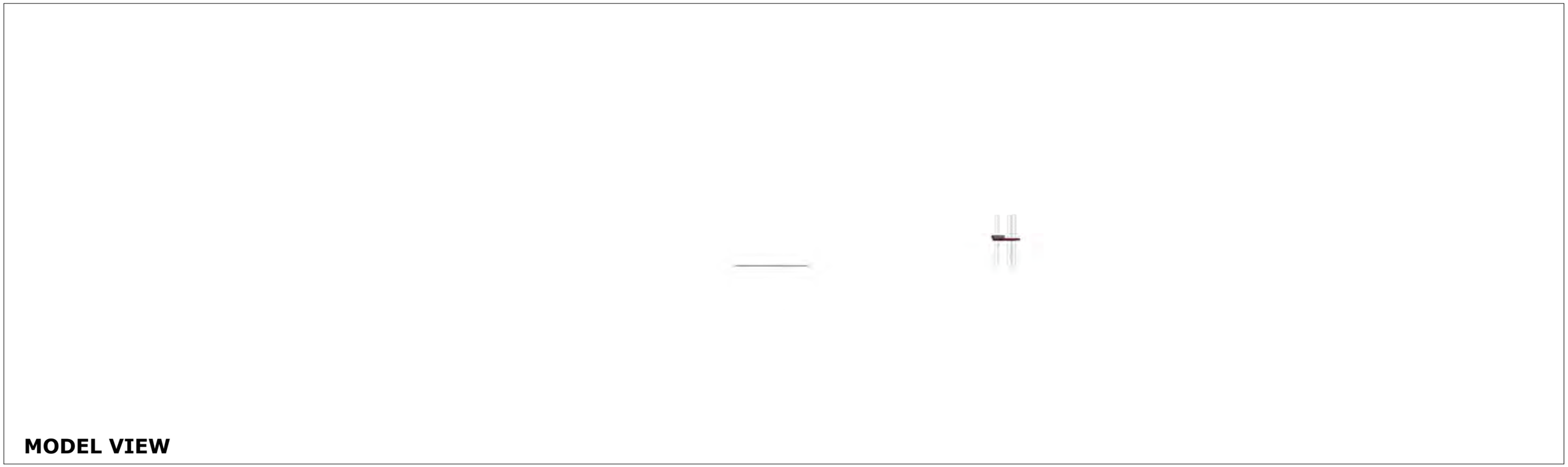




Douglas Harman CMLI
Landscape Planning

Project:	Nigg East Quay	VP No/Title:	7. Saltburn	Viewpoint Height AOD:	1m
Drawing No:	8.22a	Grid Reference:	NH 72548 69787	Camera Model:	Canon EOS 7D
Paper Size:	A3	View Direction:	100°	Date & Time of Photo:	25/03/2019 15:34
Drawn/Approved:	MW	Distance to Development:	6.97km	Horizontal Field of View:	80°





Douglas Harman CMLI
Landscape Planning

Project:	Nigg East Quay	VP No/Title:	7. Saltburn	Viewpoint Height AOD:	1m
Drawing No:	8.22b	Grid Reference:	NH 72548 69787	Camera Model:	Canon EOS 7D
Paper Size:	A3	View Direction:	100°	Date & Time of Photo:	25/03/2019 15:34
Drawn/Approved:	MW	Distance to Development:	6.97km	Horizontal Field of View:	39.6° (50mm equiv.)

Douglas Harman CMLI
Landscape Planning

Project:	Nigg East Quay	VP No/Title:	7. Saltburn	Viewpoint Height AOD:	1m
Drawing No:	8.22c	Grid Reference:	NH 72548 69787	Camera Model:	Canon EOS 7D
Paper Size:	A3	View Direction:	100°	Date & Time of Photo:	25/03/2019 15:34
Drawn/Approved:	MW	Distance to Development:	6.97km	Horizontal Field of View:	39.6° (50mm equiv.)

Douglas Harman CMLI
Landscape Planning

Project:	Nigg East Quay	VP No/Title:	7. Saltburn	Viewpoint Height AOD:	1m
Drawing No:	8.22d	Grid Reference:	NH 72548 69787	Camera Model:	Canon EOS 7D
Paper Size:	A3	View Direction:	100°	Date & Time of Photo:	25/03/2019 15:34
Drawn/Approved:	MW	Distance to Development:	6.97km	Horizontal Field of View:	27.0° (75mm equiv.)

MODEL VIEW

Douglas Harman CMLI
Landscape Planning

Project:	Nigg East Quay	VP No/Title:	8. Newhall Point	Viewpoint Height AOD:	3m
Drawing No:	8.23a	Grid Reference:	NH 70967 67151	Camera Model:	Canon EOS 7D
Paper Size:	A3	View Direction:	80°	Date & Time of Photo:	25/03/2019 13:30
Drawn/Approved:	MW	Distance to Development:	8.63km	Horizontal Field of View:	80°

EXISTING VIEW

MODEL VIEW

Douglas Harman CMLI
Landscape Planning

Project:	Nigg East Quay	VP No/Title:	8. Newhall Point	Viewpoint Height AOD:	3m
Drawing No:	8.23b	Grid Reference:	NH 70967 67151	Camera Model:	Canon EOS 7D
Paper Size:	A3	View Direction:	80°	Date & Time of Photo:	25/03/2019 13:30
Drawn/Approved:	MW	Distance to Development:	8.63km	Horizontal Field of View:	39.6° (50mm equiv.)

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Douglas Harman CMLI
Landscape Planning

Project:	Nigg East Quay	VP No/Title:	8. Newhall Point	Viewpoint Height AOD:	3m
Drawing No:	8.23c	Grid Reference:	NH 70967 67151	Camera Model:	Canon EOS 7D
Paper Size:	A3	View Direction:	80°	Date & Time of Photo:	25/03/2019 13:30
Drawn/Approved:	MW	Distance to Development:	8.63km	Horizontal Field of View:	39.6° (50mm equiv.)

Douglas Harman CMLI
Landscape Planning

Project:	Nigg East Quay	VP No/Title:	8. Newhall Point	Viewpoint Height AOD:	3m
Drawing No:	8.23d	Grid Reference:	NH 70967 67151	Camera Model:	Canon EOS 7D
Paper Size:	A3	View Direction:	80°	Date & Time of Photo:	25/03/2019 13:30
Drawn/Approved:	MW	Distance to Development:	8.63km	Horizontal Field of View:	27.0° (75mm equiv.)