



Kirsten Watson  
Marine Directorate Licencing and Operations Team  
375 Victoria Road  
Aberdeen  
AB11 9DB

**Ref:** UKCAL-CWF-CON-PRT-APL-00004

**Date:** 14/11/2024

Dear Kirsten

**Subject: Caledonia South Offshore Wind Farm**

**Marine and Coastal Access Act 2009 Marine (Scotland) Act 2010  
The Marine Works (Environmental Impact Assessment) Regulations 2007  
The Marine Works (Environmental Impact Assessment) (Scotland) Regulations 2017**

**Application by Caledonia Offshore Wind Farm Limited for Consent to Construct the Caledonia South Offshore Wind Farm Transmission Infrastructure**

Caledonia Offshore Wind Farm Limited is a project company of Ocean Winds (OW). OW is a 50:50 joint venture by EDP Renewables (EDPR) and ENGIE, leading global renewable energy companies which develop and build offshore wind farms in the UK.

Caledonia Offshore Windfarm Limited hereby submits a Marine Licence application under Part 4 of the Marine (Scotland) Act 2010 and Part 4 of the Marine and Coastal Access Act 2009 for the deposit of substances and objects and the construction, alteration or improvement of works within the Scottish Marine Area and Scottish Offshore Region in relation to the Caledonia South Offshore Transmission Infrastructure (OfTI).

The proposed Caledonia South OfTI comprises:

- Up to two Offshore Substation Platforms (OSPs) with an indicative structure width and length of up to 55 m (l) x 45 m (w) and at a height above MSL of 55 m;
- Substructures and associated seabed foundations for OSPs;
- Up to 30 km of 66-275 kV subsea interconnector cable linking OSPs (if two OSPs are installed);
- Up to two 220-275 kV subsea export cables with a combined length of up to 150 km, running from the OSPs to shoreline landfall;
- Deployment of buoys (including construction marker buoys and metocean buoys if required); and
- Scour protection around OSP substructures and cable protection (if required).

The proposed Caledonia South OfTI will connect the Caledonia South Offshore Wind Farm to the onshore transmission infrastructure and ultimately the National Electricity Transmission System. It is likely that some elements of the OfTI will be located within the Caledonia South Offshore Wind Farm Site boundaries and other elements will be located out with the wind farm boundary

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within the Offshore Export Cable Corridor which runs from the southern boundary of the Caledonia South Offshore Wind Farm Site southwards to the Aberdeenshire coast.

#### Documentation Enclosed and Application Fees

Caledonia OWF Limited has been in regular correspondence with Marine Directorate Licensing Operations Team regarding the Section 36 consent and Marine Licence application for the proposed Caledonia South Offshore Wind Farm. The application documents submitted consist of the following:

- Application Form
- Pre-Application Consultation (PAC) Report
- Site Drawings
- Planning Statement
- EIAR (including non-technical summary and EIAR guide – the EIAR covers the Proposed Development (Offshore) and the Proposed Development (Onshore))
- Report to Inform Appropriate Assessment
- Derogation Case (including compensation plan)
- Gap Analysis
- Supporting Documentation and appendices (outline management plans, MPA assessment)

Application fees for the OfTI Marine Licence for the proposed Caledonia South Offshore Wind Farm will be submitted electronically to the Scottish Government.

#### Related Applications

Separate Marine Licence and Section 36 consent applications for the Caledonia South Offshore Wind Farm have been submitted to Marine Directorate Licensing Operations Team. The EIA Report which accompanies this application has also been submitted with the applications for the Caledonia South Offshore Wind Farm.

A separate set of Section 36 and Marine Licence applications has been submitted for the Caledonia North Offshore Wind Farm. Caledonia North and Caledonia South collectively make up the Caledonia Offshore Wind Farm. The interrelationship between these two proposed Offshore Wind Farms is described within the EIAR Report and other accompanying documentation.

The Caledonia Onshore Transmission Infrastructure (OnTI) associated with the Caledonia South Offshore Wind Farm and Caledonia North Offshore Wind Farm will be subject to a separate application for planning under the Town and Country Planning (Scotland) Act 1997.

#### Public Notices / Advertisements

We confirm that public notices regarding the applications will be placed on the Caledonia website, in the Edinburgh Gazette and a national newspaper on one occasion and in at least one newspaper circulating in the locality in which the Caledonia North Offshore Wind Farm is situated for two successive weeks.

A copy of applications, with a plan showing the area to which they relate, together with a copy of the EIA Report presenting Caledonia North Offshore Wind Farm's proposal and an analysis of the environmental implications will be made available for public inspection at the below locations. Due to available space, only physical copies of the NTS, EIAR Guide and offshore visualisations

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will be provided, QR codes and online access will be provided for the full application documents and EIAR.

Public Libraries
Buckie Library Cluny Place Buckie AB56 1HB
Wick Library East Caithness Community Facility, 7 Newton Rd, Wick KW1 5SA
*Turiff Library Grange Villa The Square Turriff AB53 4AE
Banff Library High Street Banff AB45 1AE

*\*Offshore visualisations will not be provided to Turiff Library, as it lies outside the offshore Zone of Theoretical Visibility.*

Once the applications have been accepted by Marine Directorate Licensing Operations Team, the EIA Report and Non-Technical Summary will be published online at: <https://www.caledoniaoffshorewind.com/>.

We look forward to hearing from you in relation to the formal acceptance of the applications. Please do not hesitate to contact Aleks Schmidt-Sweetingham (aleks.schmidtsweetingham@oceanwinds.com) if we can be of assistance.

Yours Faithfully,

<Redacted>

**Mark Baxter**  
**Project Director**

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marinescotland



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E: [MS.MarineLicensing@scotland.gsi.gov.uk](mailto:MS.MarineLicensing@scotland.gsi.gov.uk)

## Marine Renewable Energy Projects in the Territorial Sea and UK Controlled Waters Adjacent to Scotland

### Marine (Scotland) Act 2010

**IMPORTANT:** Before completing this form, please read these notes carefully.

The following numbered paragraphs correspond to the questions on the application form and are intended to assist applicants in completing the form. These explanatory notes are specific to this application and so applicants are advised to read these in conjunction with the General Guidance document. If further clarification is needed please contact Marine Scotland Licensing Operations Team (MS-LOT) on 01224 295579 or email:

[MS.MarineLicensing@scotland.gsi.gov.uk](mailto:MS.MarineLicensing@scotland.gsi.gov.uk)

Please refer to the General Guidance for information regarding payment methods.

## Explanatory Notes

### 2. Applicant

The person, company or organisation making the application that will be named as the licensee on any licence issued.

### 3. Agent

Any person, company or organisation acting under contract (or other agreement) on behalf of any party listed in the answer to question 2, and having responsibility for the control, management or physical deposit of materials anywhere below the tidal limit of the mean high water springs (MHWS) (e.g. a consultancy company submitting the application or a contractor who will be carrying out the works.)

### 4. Duration of Project

Provide details of the proposed commencement and completion dates of the project. The start date will not normally be backdated, except in exceptional circumstances, since to commence a project for which a licence has not been obtained may constitute an offence resulting in appropriate legal action. A licence is normally valid for 1 calendar year or the duration of the project (whichever is longer). After this period, it may be necessary for licence holders to re-apply for a further licence to continue any ongoing work (i.e. the project will be reviewed to establish whether original details are being adhered to). Although Marine Scotland Licensing Operations Team (MS-LOT) will aim to write to licence holders one month before the expiry date of a licence, it is the licensee's responsibility to apply for any further licences or an extension prior to the expiry of the initial licence.

### 5. Description and Cost of the Proposed Project

- (a) This estimate should only cover work taking place below the tidal level of MHWS and should take into consideration the cost of materials, labour fees etc.
- (b) Where the project is expected to take longer than 12 consecutive months, this description must detail which elements are to be undertaken in the first 12 months, with an outline of the schedule for each further 12 month period (the method of work should be described in the answer to question 7). In the event that MS-LOT must undertake a wider consultation on your application this description may be used as a basis for informing other bodies as to the nature of the proposed work.
- (c) Best describe the type of work proposed. Where the project involves a number of elements, please complete all appropriate boxes.

### 6. Location of Project

Include a list of the National Grid References (NGR) or latitude and longitude co-ordinates of the boundary points of the proposed project. In some cases, (e.g. the laying of cables) it may only be practicable to supply NGR or latitude and longitude co-ordinates for the start and end points.

**NGR:** Should consist of two letters followed by 10 digits (e.g. TL6320031700) where the first 5 digits are the eastings (read from the south west corner of an Ordnance Survey map) and the last 5 digits are northings.

**Latitude & longitude:** For positions read from charts of 1:25,000 scale or smaller, the format should be, e.g. 55°55.55'N 222.22'W. The decimal point specifies that decimals of minutes are used and the datum is stated explicitly. If seconds are used then the datum should be explicitly marked, e.g. 55°55'44"N 2°22'11"W. For positions read from larger scale charts, e.g. 1:10,000, three decimal places of minutes should be used, e.g. 55°55.444'N 2°22.222'W.

**It is important that the correct positions are included with this application, as any errors may result in the application being refused or delayed.**

To supplement the information given in section 6, the following must be provided with the completed application form:

- a suitably scaled extract of an Ordnance Survey Map (1:2,500 scale but not more than 1:10,000) or Admiralty Chart which should be marked to indicate:
  - the full extent of the project in relation to the surrounding area;
  - either NGR or latitude and longitude co-ordinates defining the area of operation.
  - the level of MHWS;
  - any adjacent Special Area of Conservation (SAC), Special Protection Area (SPA), Site of Special Scientific Interest (SSSI), Ramsar or similar conservation area boundary.

These drawings/plans may be copied to others as part of the MS-LOT consultation process. If they are subject to copyright, **it is the responsibility of the applicant to obtain necessary approvals to reproduce the documents and to submit suitably annotated copies with the application.**

## 7. Method Statement

Please provide a full method statement, including details of any temporary structures/deposits that may be required below MHWS during the project, the ultimate fate of the structure and material used in its construction. Details of temporary structures will be included in any licence issued.

Proposed measures to ensure the marine environment is adequately safeguarded during the project should also be described, as should those taken to minimise any interference with other uses of the sea or foreshore.

## 8. Permanent (and Temporary) Deposits

- (a) Complete the appropriate box(es) to indicate all materials to be deposited below MHWS. If you propose using types of materials for which a specific box is not provided, please describe the nature of such material in the box marked "Other".
- (b) If any materials to be placed below MHWS are to be brought to the site by sea, give details of the material (e.g. clean rock, average particle size) the vessels to be used,

A chart should also be provided showing the proposed vessel route to the project site and details of any transshipment areas (i.e. where material may be off-loaded to smaller vessels/barges for transport inshore).

If temporary deposits are required, please provide details as with the permanent deposits above. The temporary deposit location details (NGR or Lat/Long) should be added to section 6 of the form, and the period of time the site will be used must be provided. If issuing a licence, MS-LOT will include on the document details of any area that has been approved as a temporary deposit site

## 9. Producer/Contractor

The person, company or organisation whose activities produce the material intended for deposit in the sea (e.g. the dredging or excavation contractor).

## 10. Holder

The person, company or organisation that will be in possession of the waste prior to its deposit in the sea. This will include those providing temporary storage facilities or transporting the material to the vessel for conveyance to the sea disposal site etc.

## 11. Agent

Any person, company or organisation acting under contract (or other agreement) on behalf of any party listed in the answer to sections 1, 9 or 10 and having responsibility for the control, management or deposit anywhere below the tidal limit of MHWS (e.g. a consultancy company submitting the application or a contractor who will be carrying out the operations).

## 12. Duration of Dredging/Drilling Operation

Provide details of the proposed commencement and completion dates of the operations. The start date will not normally be backdated, except in exceptional circumstances, since to commence a project for which a licence has not been obtained may constitute an offence resulting in appropriate legal action. A licence may be issued for up to 3 calendar years, although MS-LOT will aim to write to licence holders two months before the expiry date of a licence, it is the licensee's responsibility to apply for any further licences or an extension prior to the expiry of the initial licence.

## 13. Details of Dredging/Drilling and Disposal Vessel(s)

The name, operator and type of vessel, including the type of dredging/drilling plant (e.g. cutter-suction) should be entered. If vessel details are not available at the time of application, please indicate this on the form as these details will be required prior to licence issue.

## 14. Method Statement of Dredging/Drilling Operation

Provide a full method statement of the dredging/drilling operation. This should include details such as the rate of dredging/drilling, timing of the operation, order of the areas to be dredged/drilled and the precautions taken to protect both navigation and the environment.

## 15. Use of Explosives

Indicate whether explosives are to be used as part of the dredging operations. If yes, please indicate if a method statement has been provided with your application. If a method statement has been produced but is not available, please provide an explanation in the space provided.

## 16. Details of Areas to be Dredged/Drilled

This section requires data to be provided about the source area to be dredged and the type of material to be deposited.

**Name of Area** - An annotated chart/location plan (either at A3 or A4 format) of suitable scale (1:2,500 but no more than 1:10,000) should be provided, with each proposed dredge area marked and named. The chart/location plan should show the full extent of the project in relation to the surrounding area. These drawings/plans may be copied to others as part of MS-LOT consultation procedures. If they are subject to copyright, **it is the responsibility of the applicant to obtain necessary approvals to reproduce the documents and to submit suitably annotated copies with the application.**

**Co-ordinates** - Include a list of the National Grid References (NGR) or latitude and longitude co-ordinates of the boundary points for the proposed dredge areas.

- **NGR:** Should consist of two letters followed by 10 digits (e.g. TL6320031700) where the first 5 digits are the eastings (read from the south west corner of an Ordnance Survey map) and the last 5 digits are northings.
- **Latitude & longitude:** For positions read from charts of 1:25,000 scale or smaller, the format should be, e.g. 55°55.55'N 2°22.22'W. The decimal point specifies that decimals of minutes are used and the datum is stated explicitly. If seconds are used then the datum should be explicitly marked, e.g. 55°55'44"N 2°22'11"W. For positions read from larger scale charts, e.g. 1:10,000, three decimal

places of minutes should be used, e.g. 55°55.444'N 2°22.222'W.

**Nature of Dredge/Drill Area** - provide a description of the type of area to be dredged/drilled (e.g. river bed, sea, harbour, approach channel, estuary)

**17. Details of Material to be Dredged/Drilled**

Information is required for each of the areas listed in the answer to section 16. The applicant should indicate the following:

A pre-dredge survey and sediment chemical analysis report will be required by MS-LOT prior to the issue of a sea disposal licence. Please contact MS-LOT for details in relation to specific projects. In addition to those samples analysed by the applicant, sediment sub-samples must be submitted to MS-LOT as check monitoring may be required.

**Physical Composition of Material** - indicate the approximate proportions (by volume) of the different types of dredged materials which are expected to be removed from each area.

For the purposes of this application the following descriptions should be used:

Average particle size (Based on the Wentworth Table)		
Description	Lower range	Upper range
Boulders	256 mm+	
Cobbles	64 mm	256 mm
Pebbles	4mm	64 mm
Granules	2 mm	4mm
Sand	62 microns	2mm
Silt and clay		62 microns

**Depth of Material to be Removed** - indicate the maximum depth (in metres) below the current seabed level, to which it is expected dredging is to be carried out.

**Estimated Specific Gravity** - indicate the specific gravity of the material to be disposed.

**Quantity to be Dredged/Drilled per Year** - the amount of material to be dredged (per year) from each area. Indicate unit of measure, either in-situ cubic metres or metric tonnes.

**18. Dredged/Drilled Material: Additional Information**

**Contamination** - information should be given regarding contamination in any of the areas to be dredged/drilled e.g. waste discharges, man-made rubbish or industrial activity in close proximity.

**Type of dredger** - indicate the type of dredging plant to be used within each area.

**Beneficial uses** – include any intended beneficial use of material (details to be provided in the BPEO).

**19. Details of Dredged/Drilled Material Quality**

The applicant is required to have representative sediment samples analysed at a laboratory of choice. This is liable to extend the time required to consider your application **as no licence will be issued without provision of this chemistry data**. As part of the application consideration process, an assessment will be made of the



chemical and physical characteristics of the material to be deposited at sea and its potential effects upon the marine environment.

As part of the licence conditions, you may be required to take representative samples of the dredged/drilled material during the dredging/sea disposal operations for analysis by MS-LOT. In such cases, samples should be taken at specified locations and depths and placed in containers which will be provided. The samples should then be returned to MS-LOT at the Marine Laboratory Aberdeen. This process enables the UK to fulfil its obligations under international conventions.

## 20. Best Practicable Environmental Option (BPEO) Assessment

Under Part 4, Section 27(2) of the Marine (Scotland) Act 2010 (there is no equivalent provision under the Marine and Coastal Access Act 2009), the Licensing Authority has an obligation to consider the availability of practical alternatives when considering applications involving disposal of material at sea. In order for Marine Scotland to thoroughly assess the available alternative options and reach a properly considered decision, all sea disposal licence applications must be supported by a detailed assessment of the alternative options - a Best Practicable Environmental Option (BPEO) assessment. This should include a statement setting out the reasons which have led to the conclusion that deposit of the materials at sea is the BPEO. **Sea disposal applications will not be considered unless they are accompanied by a BPEO assessment.** All options in the BPEO should be explored fully (as per the guidance documents) otherwise your form and BPEO are liable to be returned to you thereby delaying processing of the application.

## 21. Sea Disposal Site Details

Provide details of the proposed sea disposal site for the dredged material and, if necessary, any alternative sea disposal site(s) considered. In determining whether to issue a licence, MS-LOT will take into account any site nominated by the applicant. However, should this site be unsuitable, the nearest suitable disposal site for the dredged material will be identified. Should you wish to establish a new site, please provide details in a covering letter with your application and MS-LOT will contact you to discuss your proposal before your application is determined. The cost of any site investigations to identify any new sea disposal site will normally be the responsibility of the applicant.

## 22. Other Consents

Detail all consents required for the proposed project and indicate those that you have applied for or received. In all cases the applicant must provide the name and address of the nearest Local Planning Authority for the location of the project.

## 23. Statutory Consenting Powers

Please describe in the answer to this question what (if any) statutory responsibilities you (or your client) have to consent any aspect of the project.

## 24. Advertising and Consultation

- (a) Confirm whether the proposed project has been advertised, and if so how and where?
- (b) Have the public been invited to comment on the proposed project? If so to whom and what was the closing date?
- (c) Have any consultation meetings been held with the public? If so where and when?

## 25. Consultation with Conservation Bodies

Consenting Authorities have a duty to ensure marine projects will not have a significant adverse environmental impact, particularly upon designated conservation areas (e.g. SSSI, SAC, SPA, Ramsar sites etc). All details of

consultations with conservation bodies (e.g. SNH, JNCC) should be given, particularly where the applicant has statutory powers for consenting aspects of the project

In addition, guidance can be obtained from [www.foodstandards.gov.uk/](http://www.foodstandards.gov.uk/) with regards to the Shellfish Waters Directive (2006/113/EC) which has parameters set to protect the water quality in which edible shellfish are grown.

## 26. Designated Conservation Areas

Indicate whether the proposed project is located within or close to the boundaries of a conservation area such as a SAC, SPA, SSSI or Ramsar site (further information can be found on the SNH SiteLink webpage <http://gateway.snh.gov.uk/>).

## 27. Environmental Assessment

Under the Marine Works (EIA) Regulations 2007, there may be a requirement for certain projects to undergo an Environmental Impact Assessment (EIA) and produce an Environmental Statement (ES). If an EIA/ES is deemed necessary, MS-LOT cannot issue a marine Licence until the outcome of the EIA/ES has been determined. Please indicate whether any EIA has been carried out in respect of the proposed project, either under your own powers or as required by another authority. If such an assessment has been undertaken, please indicate if a copy has been provided with your application. If the statement/assessment has been completed but is not available, please provide an explanation in the space provided.

Additionally, please also give details regarding if and where a copy has been/is being made available for public inspection.

## Other Considerations

Applicants should also be aware of the need to pay due regard to coastal and marine archaeological matters and attention is drawn to Historic Scotland's Operational Policy Paper HP6, "Conserving the Underwater Heritage". Please ensure that you have:

- completed **all** applicable sections of the application form;
- signed and dated the declaration;
- provided the correct relevant documents, charts, and continuation sheets (where necessary); and
- enclosed the correct payment (together with the remittance slip) or paid by means of BACS (if appropriate).

**Otherwise your application may be delayed or returned to you.**

# Application for Marine Renewable Energy Projects in the Territorial Sea and UK Controlled Waters Adjacent to Scotland

(ML-003)

## Marine (Scotland) Act 2010

**It is the responsibility of the applicant to obtain any other consents or authorisations that may be required.**

**Under Part 4, Section 54 of the Marine (Scotland) Act 2010 and Section 101 of the Marine and Coastal Access Act 2009 all information contained within or provided in support of this application will be placed on the Public Register. There is no national security grounds for application information not going on the Register under the 2010 Act. Under the 2009 Act, application information goes on the Register unless the Secretary of State determines that it's disclosure in the Register would be contrary to the interests of national security.**

### Public Register

Is there any information contained within or provided in support of this application that you consider should not be included on the Public Register on the grounds that its disclosure

- (a) would be contrary to the interests of national security; or YES  NO
- (b) would adversely affect the confidentiality of commercial or industrial information where such confidentiality is provided by law to protect a legitimate commercial interest? YES  NO

If **YES**, to either (a) or (b), please provide full justification as to why all or part of the information you have provided should be withheld.

Publication of the information provided in Section 5a regarding the estimated cost of the works may prejudice the ongoing commercial tendering process.  
Confidential Annexes included within the EIAR provided should be withheld.

**1. Project Title and Payment Details**

Please give a brief identifiable description, including the location, of the project.

Caledonia South Offshore Transmission Infrastructure (OfTI) located in the Moray Firth.

**Payment:**      Enclosed payment       BACS       **OR** Invoice

**2. Applicant Details**

Title    Initials    Surname

Trading Title (if appropriate)    Caledonia Offshore Wind Farm Limited

Address    5th Floor, Atria One, 144 Morrison Street, Edinburgh, EH3 8EX

Name of contact (if different)    Aleks Schmidt-Sweetingham

Position within Company (if appropriate)    Offshore Consents Manager

Telephone No. <Redacted>    Fax No. N/A  
(inc. dialing code)    (inc. dialing code)

Company Registration No. 13844888                          Email    Aleks.schmidtsweetingham@oceanwind.

**3. Agent Details (if any)**

Title    Initials    Surname

Trading Title (if appropriate)

Address

Name of contact (if different)

Position within Company (if appropriate)

Telephone No.    Fax No.  
(inc. dialing code)    (inc. dialing code)

Company Registration No.    Email

**4. Duration of Project**

Start date    2028

Expected completion date    2068

## 5. Description and Cost of the Proposed Project

(a) Estimated gross cost of the works proposed seawards of the tidal limit of MHWS

<Redacted>

(b) Give a detailed description of the proposed schedule of work.

See separate sheet.  
Detailed information is also provided within the accompanying EIA Report:  
Volume 1: Chapter 3 'Offshore Proposed Project Description'  
Volume 1: Chapter 5 'Proposed Development Phasing'

(c) Types of Work Proposed

General Marine Project (e.g. wave, tidal device, monopile turbine)

Offshore Wind Farm transmission infrastructure ( see separate sheet and Volume 1: Chapter 3 of EIAR)

Scientific/Marine Survey (e.g. geotechnical, geophysical, waverider):

Pre-construction geophysical and geotechnical surveys and deployment of metocean survey equipment.

Moorings (e.g. private, commercial):

Moorings may be established to support construction activities (including buoys).

Dredging/Drilling Operations

A separate licence for dredging and/or drilling will be applied for if required.

## 6. Location of Project (including any temporary deposit locations)

This should include either National Grid References (NGR) or Latitude and Longitude co-ordinates defining the extent of the project.

Please see enclosed offshore wind farm location plan and list of co-ordinates.

**7. Method Statement**

Please refer to Volume 1: Chapter 3 'Offshore Proposed Project Description' and Volume 1: Chapter 5 'Proposed Development Phasing' of the EIAR.

A detailed Construction Method Statement, Cable Plan and Construction Programme will be submitted for approval in advance of construction works commencing.

**8. Permanent (and Temporary) Deposits**

(a) Quantity of permanent (and temporary, where applicable) materials to be deposited below MHWS:

Type of Deposit	Nature of Deposit (P = Permanent, T = Temporary)	Deposit Quantity
Steel/Iron	P	See separate sheet Tonnes No. (if applicable)
Timber	N/A	See separate sheet No./tonnes
Plastic/Synthetic	P	See separate sheet m <sup>2</sup>
Concrete	P	See separate sheet m <sup>3</sup>
Silt	N/A	See separate sheet m <sup>3</sup>
Sand	P	See separate sheet m <sup>3</sup>
Stone/Rock/Gravel	P	See separate sheet Size range (mm) Total m <sup>3</sup>
Concrete bags/mattresses	P	See separate sheet No. Dimensions Total m <sup>3</sup>
Cable	P	See separate sheet Length (m)

Other (please describe below):

N/A

(b) Method of delivery of material.  
(see Guidance Notes)

By vessel. Details of vessels and routes to be used will be provided in a Vessel Management Plan that will be submitted for approval in advance of works commencing.

If necessary, please continue on a separate sheet and tick this box

**IF THE PROJECT INVOLVES DREDGING/DRILLING (AND DISPOSAL OF DREDGED MATERIALS AT SEA) THEN PLEASE COMPLETE THE FOLLOWING SECTIONS, OTHERWISE PROCEED TO SECTION 22**

**9. Dredging/Drilling Contractor/Producer Details**

Title	Initials	Surname
Trading Title (if appropriate)		
Address		
Name of contact (if different)		
Position within Company (if appropriate)    Offshore Consents Manager		
Telephone No. (inc. dialing code)	Fax No. (inc. dialing code)	
Company Registration No.	Email	

**10. Holder**

If the Holder is also the Applicant (shown at 2) tick the box and go to section 11

If the Holder is also the Producer (shown at 9) of the material tick the box and go to section 11

Title	Initials	Surname
Trading Title (if appropriate)		
Address		
Name of contact (if different)		
Position within Company (if appropriate)		
Telephone No. (inc. dialing code)	Fax No. (inc. dialing code)	
Company Registration No.	Email	

**11. Agent**

Title	Initials	Surname
Trading Title (if appropriate)		
Address		
Name of contact (if different)		

Position within Company Offshore Consents Manager  
(if appropriate)

Telephone No.  
(inc. dialing code)

Fax No.  
(inc. dialing code)

Company Registration No.

Email

*If more than one 'Agent' please continue on a separate sheet and tick the box*

**12. Duration of Dredging/Drilling Operation**

When is it proposed to begin the dredging/drilling operation?

When are dredging/drilling and disposal operations expected to be completed?

**13. Details of Dredging/Drilling and Disposal Vessel(s)**

	<b>Name of Vessel and Operator</b>	<b>Type of Vessel</b>
(a)		
(b)		
(c)		
(d)		

**14. Method Statement for Dredging/Drilling Operation**

**15. Use of Explosives**

Will any part of the dredging operation involve the use of explosives?

YES  NO

If YES,

Has a method statement regarding the use of explosives been submitted with this application?

YES  NO

If a method statement is not being submitted, please provide an explanation as to why.



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**16. Details of Areas to be Dredged/Drilled**

Dredge/Drill Areas	Name of Area to be Dredged/Drilled	Co-ordinates	Nature of Dredged/Drilled Area
A			
B			
C			
D			
E			

*If necessary please continue on a separate sheet and tick this box*

**17. Details of Material to be Dredged/Drilled**

For each of the areas at rows A –E above (plus any listed separately), provide the following information:

Dredge/Drill Areas	Estimated Specific Gravity	Physical Composition of Material	Depth of Material to be Removed (metres)	Quantity to be Dredged/Drilled per Year (either in-situ m <sup>3</sup> or metric tonnes)
A				
B				
C				
D				
E				

*If necessary please continue on a separate sheet and tick this box*

**18. Dredged/Drilled Material: Additional Information**

For each of the areas at rows A – E above (plus any listed separately), provide the following information:

Dredge/Drill Areas	Type of Contamination	Type of Dredger	Beneficial Uses
A			
B			
C			
D			
E			

If necessary please continue on a separate sheet and tick this box

**19. Details of Dredged Material Quality**

Has the dredged/drilled material been chemically analysed in the last 3 years? YES  NO

Can the samples be made available if required? YES  NO

If **NO**, when will they be available?

**20. Best Practicable Environmental Option (BPEO) Assessment**

Has an up to date BPEO assessment been included with your application? YES  NO

**21. Sea Disposal Site Details**

Name of Disposal Site (or Oslo Code)	Co-ordinates of Disposal Site

**22. Other Consents**

Provide details below of all consents you have applied for or received.

Type of Consent	(Tick appropriate box)		Reference No.	Date of Issue of Consent
	Applied for	Not Applied for		
1. Local Planning Authority (LPA) (e.g. Town and Country Planning Act)  Name and address of LPA for Location of proposed works:	✓		N/A	Awaiting
	Aberdeenshire Council Planning Permission in Principle application submitted for onshore elements of the project (landward of MLWS)			
2. Land Owner e.g. The Crown Estate	✓		Agreement For Lease (OWF)	Awaiting
3. Local Port or Harbour Authority e.g. local work licence		✓		
4. Scottish Environment Protection Agency (SEPA)		✓		
5. Others		✓		

**23. Statutory Consenting Powers**

Do you, or (if appropriate) your client, have statutory powers to consent any aspect of this project?

No

**24. Advertising and Consultation**

Have these proposals been advertised to the public?  
If **YES**, how and where?

YES  NO

See separate sheet for full text.

Have the public been invited to submit comments?  
If **YES**, to whom and by what closing date?

YES  NO

See separate sheet for full text.

Have any consultation meetings with the public been arranged?  
If **YES**, where and when are these to be held?

YES  NO

See separate sheet for full text.

## 25. Consultation with Conservation Bodies

Provide details of any consultation with Conservations Bodies, and, if appropriate, include copies of any correspondence with your application.

NatureScot and RSPB have been consulted with extensively, as well as other relevant conservation bodies. Please see enclosed EIAR, each topic chapter has a record of consultations relevant to that topic and a summary of consultations is provided in Volume 1: Chapter 8 - 'Consultation'.

## 26. Designated Conservation Areas

Are any parts of the proposed project located within the boundaries of a designated conservation area?

If yes, indicate approximate distance of the project from the boundary of the nearest conservation area(s)

Yes

If appropriate, are any parts of the proposed dredging and/or deposit operations located within the boundaries of a designated conservation area?

If yes, indicate approximate distance of the operations from the boundary of the nearest conservation area(s)

N/A

## 27. Environmental Assessment

Has an Environmental Impact Assessment (EIA)/Environmental Statement (ES) been undertaken to support any application in respect of the project, your own statutory powers (if applicable) or any other reason?

YES  NO

If **YES**, is a copy of the EIA/ES included with this application?

YES  NO

If the EIA/ES has been undertaken but has not been included with this application, please provide an

explanation below.

Is the EIA/ES available for public inspection?

YES  NO

If **YES**, at what locations:

A copy of applications together with a copy of the EIA Report discussing Caledonia North Offshore Wind Farm's proposal in more detail will be made available for public inspection at the following locations: Buckie Library, Wick Library, Turiff Library, Banff Library.

**Declaration**

I declare to the best of my knowledge and belief that the information given in this form and related papers is true.

**WARNING**

**It is an offence under the Act under which this application is made to fail to disclose information or to provide false or misleading information.**

Signature **<Redacted>**

Date 14-Nov-2024

Name in BLOCK LETTERS MARK BAXTER

Position within company (if appropriate) PROJECT DIRECTOR

**Please check carefully the information you have given and that all the enclosures (including copies) have been included.**

## Application Check List

### 1. Electronic Application

- Completed application form **x 1**
- Project drawings **x 1**
- Method Statement **x 1**
- Maps/Charts **x 1**
- Additional environmental information, eg. Photographs, Environmental Impact Assessment etc (if required) **x 1**
- Payment (signed cheque or BACS details)

✓
✓
✓
✓
✓
✓

### 2. Non-electronic Application

- Completed, signed application form **x 7**
- Project drawings **x 7**
- Method Statement **x 7**
- Maps/Charts **x 7**
- Additional information, eg. photographs, Environmental Impact Assessment etc (if required) **x 7 (dependent on size and relevance to consultees)**
- Payment (signed cheque or BACS details)

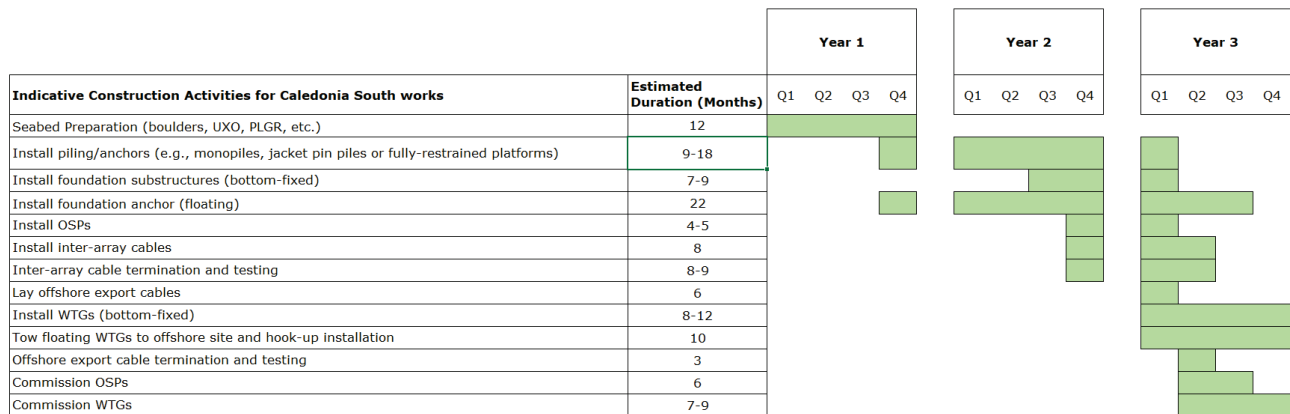



## Caledonia South Offshore Transmission Infrastructure (OfTI) Marine Licence Application Supporting Information

### Section 5 (b) Give a detailed description of the proposed schedule of work.

A high-level indicative construction programme is presented in the figure below. The programme illustrates the likely duration of the major construction activities, and how they may relate to one another if built out in a single construction campaign. It covers installation of the major components (including offshore generation asset (OWF) works which will be licenced under a separate Marine Licence application) and does not include elements such as preliminary site preparation and commissioning of the wind farm post-construction. Caledonia South is currently predicted to be fully commissioned in early 2030s.

Timing of construction works will be subject to Caledonia South reaching Final Investment Decision and actual works durations will be dependent on a number of factors including, component and vessel availability, weather and final construction strategy. Construction is intended to take place 24 hours per day, 365 days per year, subject to weather conditions, until construction is complete.



The sequence of activities associated with the installation of the Caledonia South Offshore Wind Farm and OfTI are likely to be as follows, with various activities set out below being undertaken concurrently:

- Detailed pre-construction site investigations – some of these may be subject to separate licence applications;
- Seabed preparation works;
- Transport to site and installation of fixed-bottom foundations (monopiles, pin-piles or suction caissons);
- *Transport to site and installation of floating foundations (Fully-Restrained-Platform, semi-submersibles or tension leg platforms)\*;*
- Transport to site and installation of substructures (Transition Pieces and/or jacket structures) on pre-installed foundation structures;
- *Transport to site and installation of inter-array cables (including dynamic cables)\*;*
- Transport to site and installation of Offshore Substation Platforms;
- Transport to site and installation of export cables;

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- Transport to site and installation of wind turbine generators (WTGs)\*; and
- System testing and commissioning.

\*Covered by a separate transmission marine licence.

**Section 5(c) Types of Work Proposed**

General Marine Project (e.g. wave, tidal device, monopile turbine)

Caledonia North OfTI comprises:

- Up to two Offshore Substation Platforms (OSPs) with an indicative structure width and length of up to 55 m (l) x 45 m (w) and at a height above MSL of 55 m;
- Substructures and associated seabed foundations for OSPs;
- Up to 30 km of 66-275 kV subsea interconnector cable linking OSPs (if two OSPs are installed);
- Up to two 220-275 kV subsea export cables with a combined length of up to 150 km, running from the OSPs to shoreline landfall; and
- Scour protection around OSP substructures and cable protection (if required).

**Section 8 (a) Quantity of permanent (and temporary, where applicable) materials to be deposited below MHWS:**

Type of Deposit	Nature of Deposit (P = Permanent, T = Temporary)	Deposit Quantity
Steel/Iron	P	Estimate approximately 20,000 tonnes (substructures/foundations, OSP topsides, etc)
Timber	N/A	N/A
Plastic/Synthetic	P	Estimate approximately 1,500 tonnes (majority assumed to be IC & OEC insulation/protection layers and mooring systems for floating)
Concrete	P	Estimate up to 50,000 tonnes for grouting OSP structures.
Silt	N/A	N/A
Sand	P	Estimate up to 2,000,000 m <sup>3</sup> for IC & OEC trench infill
Stone/Rock/Gravel	P	Size range (mm) typically 15 - 400 mm. Assume some 400mm to be used at cable protection near shore, i.e. 25m LAT  Estimate approximately 100,000 m <sup>3</sup> as scour protection at base of steel substructures Estimate approximately 450,000 m <sup>3</sup> for cable protection
Concrete bags/Mattresses	P	Estimate approximately 2,500 concrete bags/mattresses Total volume estimate: 67,000 m <sup>3</sup>
Cable Length	P	Up to 30 km interconnector cables between OSPs

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		Up to 150 km offshore export cables
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## Section 24 Advertising and Consultation

Have these proposals been advertised to the public? **YES**

If YES, how and where?

A first round of public consultation events were held following publication of the Offshore Scoping Report in 2022. Consultation events were advertised in local papers and online. The consultation events were held at:

- Wick, Mackays Hotel – 07 November 2022, 12pm-8pm
- Fraserburgh, Fraserburgh Leisure Centre – 09 November 2022, 12pm-8pm
- Buckie, Buckie Thistle Ace Winches Lounge – 10 November 2022, 12pm-8pm
- Banff, Banff Springs Hotel – 02 February 2023, 12pm-8pm

The adverts were placed in:

- Banffshire Advertiser (01 November 2022)
- Fraserburgh Herald (03 November 2022)
- John O Groats Journal (04 November 2022)
- Banffshire Advertiser (24 January 2023)

A virtual exhibition room, accessible via the Caledonia Offshore Wind Farm webpage, was open throughout the duration of the consultation period. The layout of the virtual exhibition room replicated the in-person events, allowing users to explore the consultation materials online at a time that suited them.

A second round of consultation events were held in 2024 prior to the consent application submission to provide an update on the development of the Caledonia Offshore Wind Farm and feedback to consultation responses received during the first round of consultation. The events covered both offshore and onshore elements of the Proposed Development to reduce stakeholder consultation fatigue. The consultation events were held at:

- Buckie, Buckie Thistle Ace Winches Lounge – 16 April 2024, 12pm-7pm
- Wick, Mackays Hotel – 18 April 2024, 12pm-7pm
- Banff, Banff Springs Hotel – 23 April 2024, 12pm-7pm
- New Deer, New Deer Public Hall - 25 April 2024, 12pm-7pm
- Banff, Banff Springs Hotel – 19 June 2024, 2pm-6pm (Offshore specific)

The adverts were placed in:

- Banffshire Advertiser (09 April 2024)
- Banffshire Journal (09 April 2024)
- Banffshire Herald (09 April 2024)

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- Huntly Express (09 April 2024)
- John O’Groats Journal (12 April 2024)
- Press and Journal (15 April 2024)
- Press and Journal (16 April 2024)
- Press and Journal (22 April 2024)
- Banffshire Herald (07 May 2024)
- Banffshire Advertiser (07 May 2024)
- Banffshire Journal (07 May 2024)
- Huntly Express (07 May 2024)

A virtual exhibition room, accessible via the Caledonia Offshore Wind Farm webpage, was open throughout the duration of the consultation. The layout of the virtual exhibition room replicated the in-person events, allowing users to explore the consultation materials online at a time that suited them.

Within the enclosed EIAR, each topic chapter has a record of consultations relevant to that topic. Also enclosed is the Pre-Application Consultation Report (Application Document 1) which includes a full summary of consultations.

Public Notices regarding the applications will be placed on the Caledonia website, in the Edinburgh Gazette and a national newspaper on one occasion and in at least one newspaper circulating in the locality in which the Caledonia North Offshore Wind Farm is situated for two successive weeks. The EIAR will be publicly available online at Caledonia’s website and at several locations (Section 27).

Have the public been invited to submit comments? **YES**

If YES, to whom and by what closing date?

The public was invited submit comments as part of the public exhibitions (2022 – 2024) and via the virtual exhibition room. The second round of consultation events aimed to provide an update on the Proposed Development since the first rounds of consultation and outline how feedback from the local community and other stakeholders had been considered through the design by the Applicant. Please also see enclosed EIAR, Pre-Application Consultation Report (Application Document 1) for a full summary of consultations. The public will be invited to comment on the application via Public Notices in local and national newspapers. The closing date will be detailed in the public notice adverts.

Have any consultation meetings with the public been arranged? **YES**

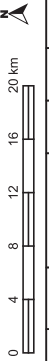
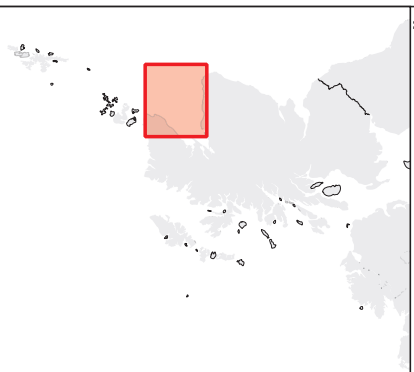
If YES, where and when are these to be held?

Please also see enclosed the Pre-Application Consultation Report (Application Document 1) for a full summary of consultations. Public consultation will continue, including with local communities, during the post application period to keep them informed on progress of proposals.

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- Caledonia South Offshore Wind Farm
- Transmission Marine Licence Boundary
- Marine Protected Area (MPA)
- Ramsar Site
- Site of Special Scientific Interest (SSSI)
- Special Area of Conservation (SAC)
- Special Protection Area (SPA)

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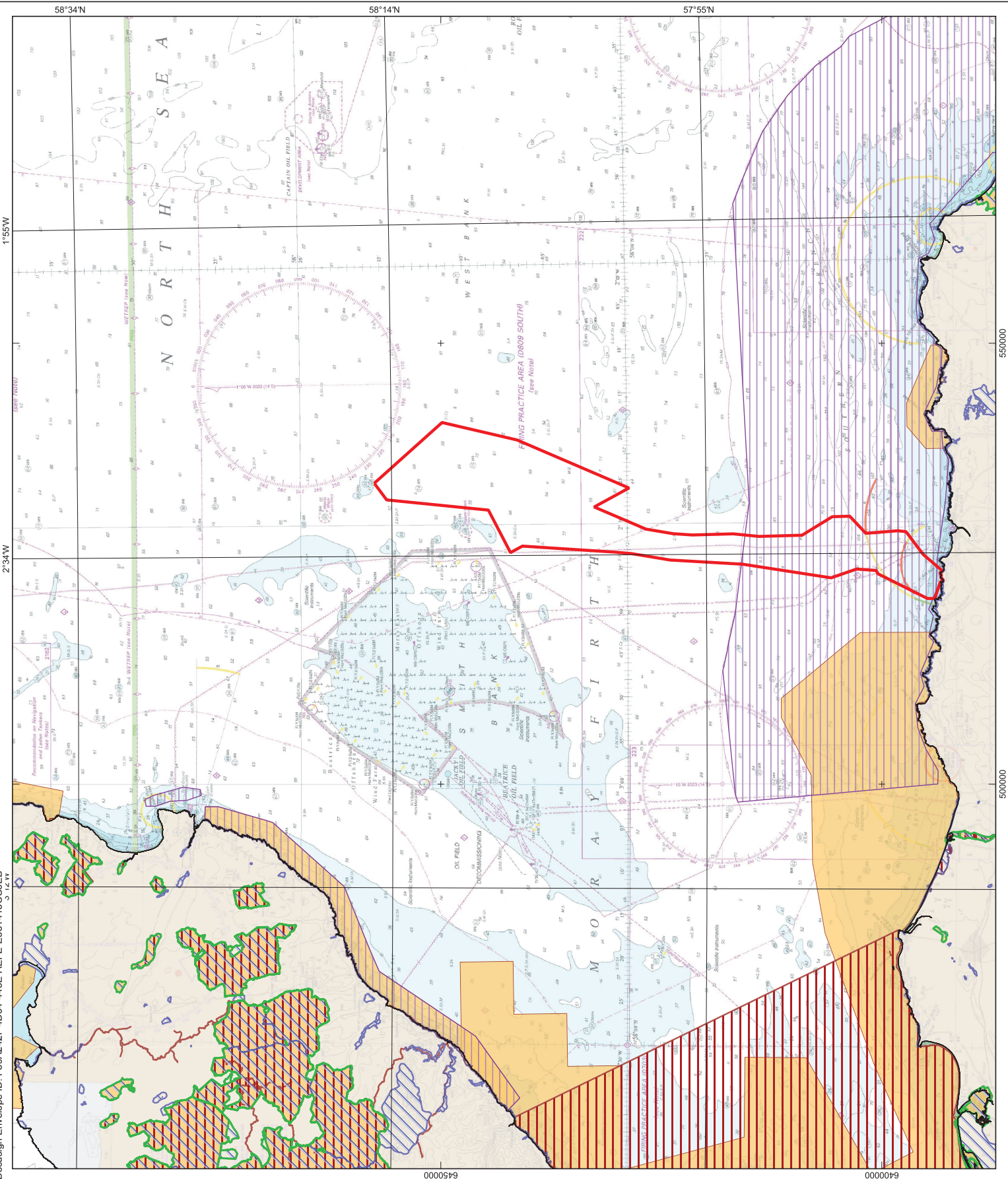


REV	DATE	DOC STATUS	ORIGIN	REVIEW	APP
01	06/11/2024	Information	TG	JS	AS



GEOIDETIC PARAMETERS  
 WGS 84 / UTM zone 30N (EPSG:32630)  
 DRAWING TITLE  
 Caledonia South Offshore Wind Farm  
 Transmission Marine Licence Boundary

STATUS	SCALE
Information	1:400,000 @ A3
DRAWING NUMBER	SHEET NO
UKCAL-CWF-CON-PRT-MAP-00006	01 of 01



550000

500000

00005P9

00000P9

ID	OSGB36 British National Grid			WGS84 Latitude - Longitude					WGS84 UTM Zone 30N		
	X_BNG	Y_BNG	NGR	Lat (DDM)	Lon (DDM)	Lat (DD)	Lon (DD)	X_UTM30N	Y_UTM30N		
1	367439.328	914639.139	ND 67440 14641	58° 7.171' N	2° 33.262' W	58.11951598	-2.55437311	526252.71	6442103.06		
2	367439.328	914639.139	ND 67440 14641	58° 7.171' N	2° 33.262' W	58.11951598	-2.55437311	526252.71	6442103.06		
3	367439.333	914639.142	ND 67440 14641	58° 7.171' N	2° 33.262' W	58.119516	-2.55437303	526252.72	6442103.06		
4	372295.149	917073.091	ND 72296 17075	58° 8.502' N	2° 28.335' W	58.14170788	-2.47224302	531071.77	6444608.66		
5	372626.843	919951.614	ND 72627 19953	58° 10.055' N	2° 28.017' W	58.16758141	-2.46694821	531360.73	6447491.71		
6	373621.997	928587.164	ND 73622 28589	58° 14.712' N	2° 27.061' W	58.24519997	-2.45101688	532227.62	6456140.85		
7	375469.581	929922.598	ND 75470 29924	58° 15.438' N	2° 25.181' W	58.25730101	-2.41968788	534055.13	6457503.53		
8	375518.965	929958.292	ND 75519 29960	58° 15.457' N	2° 25.131' W	58.25762434	-2.41885021	534103.98	6457539.95		
9	375523.397	929961.496	ND 75524 29963	58° 15.459' N	2° 25.127' W	58.25765337	-2.41877502	534108.36	6457543.22		
10	375527.83	929964.7	ND 75528 29966	58° 15.461' N	2° 25.122' W	58.25768239	-2.41869982	534112.75	6457546.49		
11	375528.407	929965.116	ND 75529 29966	58° 15.461' N	2° 25.121' W	58.25768616	-2.41869005	534113.32	6457546.91		
12	375528.983	929965.533	ND 75529 29967	58° 15.461' N	2° 25.121' W	58.25768994	-2.41868027	534113.89	6457547.34		
13	375529.066	929965.593	ND 75529 29967	58° 15.461' N	2° 25.121' W	58.25769048	-2.41867887	534113.97	6457547.4		
14	375917.77	929518.809	ND 75918 29520	58° 15.222' N	2° 24.721' W	58.25369937	-2.41200897	534509.25	6457106.44		
15	376542.602	928800.617	ND 76543 28802	58° 14.837' N	2° 24.077' W	58.24728303	-2.40129042	535144.66	6456397.62		
16	377167.433	928082.425	ND 77168 28084	58° 14.452' N	2° 23.435' W	58.24086578	-2.39057574	535780.07	6455688.8		
17	377792.265	927364.234	ND 77793 27366	58° 14.067' N	2° 22.792' W	58.23444763	-2.37986493	536415.48	6454979.98		
18	378117.169	926990.785	ND 78117 26992	58° 13.867' N	2° 22.458' W	58.23110992	-2.37429699	536745.89	6454611.4		
19	379317.521	925611.085	ND 79318 25612	58° 13.127' N	2° 21.224' W	58.2187767	-2.35373539	537966.56	6453249.69		
20	379666.761	925209.663	ND 79667 25211	58° 12.911' N	2° 20.865' W	58.21518775	-2.34775571	538321.72	6452853.5		
21	380291.593	924491.474	ND 80292 24493	58° 12.526' N	2° 20.224' W	58.20876599	-2.33706036	538957.13	6452144.67		
22	380916.425	923773.285	ND 80917 23775	58° 12.141' N	2° 19.582' W	58.20234332	-2.32636887	539592.53	6451435.85		
23	381541.257	923055.097	ND 81542 23056	58° 11.755' N	2° 18.941' W	58.19591975	-2.31568124	540227.94	6450727.02		
24	382166.09	922336.909	ND 82166 22338	58° 11.370' N	2° 18.300' W	58.18949528	-2.30499747	540863.35	6450018.19		
25	382304.199	922178.164	ND 82305 22179	58° 11.285' N	2° 18.158' W	58.18807513	-2.3026365	541003.8	6449861.51		
26	380191.502	913686.495	ND 80192 13688	58° 6.703' N	2° 20.271' W	58.1117176	-2.33784182	539017.29	6441339.57		
27	380152.764	913599.822	ND 80153 13601	58° 6.656' N	2° 20.310' W	58.1109374	-2.33849181	538979.84	6441252.33		
28	379744.892	912687.231	ND 79745 12689	58° 6.163' N	2° 20.720' W	58.10272241	-2.34533391	538585.54	6440333.81		
29	379652.761	912481.089	ND 79653 12483	58° 6.052' N	2° 20.813' W	58.1008667	-2.34687898	538496.48	6440126.33		
30	379346.381	911795.563	ND 79347 11797	58° 5.682' N	2° 21.121' W	58.0946954	-2.35201594	538200.3	6439436.35		
31	379021.206	911067.984	ND 79022 11069	58° 5.289' N	2° 21.448' W	58.0881453	-2.35746608	537885.95	6438704.05		
32	378947.87	910903.894	ND 78948 10905	58° 5.200' N	2° 21.522' W	58.08666804	-2.35869496	537815.05	6438538.89		
33	378777.08	910521.751	ND 78777 10523	58° 4.994' N	2° 21.693' W	58.08322762	-2.36155649	537649.95	6438154.26		

34	378549.36	910012.225	ND 78550 10014	58° 4.718' N	2° 21.922' W	58.07864031	-2.36537099	537429.81	6437641.43
35	378150.85	909120.556	ND 78151 09122	58° 4.237' N	2° 22.323' W	58.07061222	-2.37204402	537044.56	6436743.97
36	377752.34	908228.886	ND 77753 08230	58° 3.755' N	2° 22.723' W	58.06258377	-2.37871405	536659.31	6435846.51
37	377453.458	907560.133	ND 77454 07562	58° 3.394' N	2° 23.023' W	58.0565622	-2.38371462	536370.37	6435173.42
38	377353.831	907337.216	ND 77354 07339	58° 3.273' N	2° 23.123' W	58.05455496	-2.3853811	536274.06	6434949.05
39	376955.322	906445.545	ND 76956 06447	58° 2.792' N	2° 23.523' W	58.0465258	-2.39204515	535888.81	6434051.6
40	376556.814	905553.874	ND 76557 05555	58° 2.310' N	2° 23.922' W	58.03849627	-2.39870621	535503.56	6433154.14
41	376468.502	905356.276	ND 76469 05358	58° 2.203' N	2° 24.011' W	58.03671684	-2.40018193	535418.19	6432955.26
42	376158.305	904662.203	ND 76159 04664	58° 1.828' N	2° 24.322' W	58.03046639	-2.40536429	535118.31	6432256.68
43	375821.109	903907.717	ND 75821 03909	58° 1.420' N	2° 24.660' W	58.02367165	-2.41099568	534792.33	6431497.3
44	375759.798	903770.531	ND 75760 03772	58° 1.346' N	2° 24.721' W	58.02243615	-2.41201938	534733.06	6431359.23
45	375643.757	903510.888	ND 75644 03512	58° 1.206' N	2° 24.837' W	58.02009778	-2.4139567	534620.88	6431097.9
46	375361.29	902878.859	ND 75362 02880	58° 0.864' N	2° 25.120' W	58.01440555	-2.4186715	534347.81	6430461.77
47	374962.783	901987.186	ND 74963 01989	58° 0.382' N	2° 25.519' W	58.00637459	-2.42532063	533962.56	6429564.32
48	374732.547	901472.025	ND 74733 01474	58° 0.104' N	2° 25.750' W	58.00173457	-2.42916079	533739.98	6429045.82
49	374564.276	901095.513	ND 74565 01097	57° 59.901' N	2° 25.918' W	57.99834328	-2.43196678	533577.3	6428666.86
50	374118.965	901941.985	ND 74119 01944	58° 0.355' N	2° 26.376' W	58.00592008	-2.43959293	533119.52	6429506.63
51	373673.653	902788.459	ND 73674 02790	58° 0.810' N	2° 26.833' W	58.01349641	-2.4472223	532661.74	6430346.4
52	373228.342	903634.932	ND 73229 03637	58° 1.264' N	2° 27.291' W	58.02107228	-2.4548549	532203.95	6431186.16
53	372783.031	904481.407	ND 72783 04483	58° 1.719' N	2° 27.749' W	58.02864769	-2.46249073	531746.17	6432025.93
54	372471.113	905074.32	ND 72471 05076	58° 2.037' N	2° 28.070' W	58.0339536	-2.46784116	531425.51	6432614.14
55	369872.346	899234.938	NJ 69873 99237	57° 58.880' N	2° 30.666' W	57.98133828	-2.51109687	528913.56	6426737.09
56	369310.432	896170.241	NJ 69311 96172	57° 57.226' N	2° 31.212' W	57.95377427	-2.52019859	528397.08	6423664.51
57	369132.651	893994.237	NJ 69133 93996	57° 56.053' N	2° 31.375' W	57.93421817	-2.52291767	528251.51	6421486.18
58	369191.883	889377.221	NJ 69192 89379	57° 53.565' N	2° 31.279' W	57.89275438	-2.52131618	528379.02	6416870.69
59	368856.189	886428.266	NJ 68857 86430	57° 51.975' N	2° 31.595' W	57.86624474	-2.52659071	528086.98	6413917.19
60	368922.16	881557.1	NJ 68922 81559	57° 49.350' N	2° 31.491' W	57.82249832	-2.52484184	528224.93	6409047.69
61	370969.215	878102.23	NJ 70969 78104	57° 47.496' N	2° 29.398' W	57.79160555	-2.48996167	530322.74	6405623.54
62	370996.068	876120.902	NJ 70996 76123	57° 46.429' N	2° 29.356' W	57.777381146	-2.48926914	530378.85	6403642.88
63	369030.814	874325.243	NJ 69031 74327	57° 45.453' N	2° 31.324' W	57.75755142	-2.5220738	528440.38	6401818.45
64	369266.452	870694.78	NJ 69267 70697	57° 43.498' N	2° 31.059' W	57.72495962	-2.51764799	528729.58	6398191.98
65	369148.609	869767.703	NJ 69149 69769	57° 42.997' N	2° 31.170' W	57.71662468	-2.51950698	528625.44	6397263.29
66	366556.799	867872.371	NJ 66557 67874	57° 41.965' N	2° 33.765' W	57.69941524	-2.56274405	526061.97	6395329.98
67	364781.422	865866.29	NJ 64782 65868	57° 40.876' N	2° 35.534' W	57.68126116	-2.59223381	524316.45	6393298
68	364781.422	865866.289	NJ 64782 65868	57° 40.876' N	2° 35.534' W	57.68126116	-2.59223381	524316.45	6393298

69	364676.275	865747.479	NJ 64676 65749	57° 40.811' N	2° 35.639' W	57.68018577	-2.59397942	524213.07	6393177.65
70	364542.534	865766.552	NJ 64543 65768	57° 40.821' N	2° 35.773' W	57.68034653	-2.59622469	524079.06	6393194.75
71	364542.534	865766.552	NJ 64543 65768	57° 40.821' N	2° 35.773' W	57.68034653	-2.59622469	524079.06	6393194.75
72	364542.476	865766.678	NJ 64543 65768	57° 40.821' N	2° 35.774' W	57.68034766	-2.59622568	524079	6393194.88
73	364537.176	865774.878	NJ 64537 65777	57° 40.825' N	2° 35.779' W	57.68042089	-2.59631576	524073.58	6393203
74	364531.656	865782.808	NJ 64532 65785	57° 40.830' N	2° 35.785' W	57.68049168	-2.59640948	524067.95	6393210.84
75	364527.156	865790.498	NJ 64527 65792	57° 40.834' N	2° 35.789' W	57.68056039	-2.59648607	524063.33	6393218.47
76	364522.798	865799.118	NJ 64523 65801	57° 40.838' N	2° 35.794' W	57.68063747	-2.59656043	524058.85	6393227.02
77	364522.798	865799.118	NJ 64523 65801	57° 40.838' N	2° 35.794' W	57.68063747	-2.59656043	524058.85	6393227.02
78	364522.798	865799.118	NJ 64523 65801	57° 40.838' N	2° 35.794' W	57.68063747	-2.59656043	524058.85	6393227.02
79	364522.676	865799.358	NJ 64523 65801	57° 40.838' N	2° 35.794' W	57.68063962	-2.5965625	524058.72	6393227.26
80	364518.096	865807.438	NJ 64518 65809	57° 40.843' N	2° 35.798' W	57.68071183	-2.59664048	524054.03	6393235.27
81	364513.496	865813.838	NJ 64514 65816	57° 40.846' N	2° 35.803' W	57.68076895	-2.59671856	524049.33	6393241.6
82	364506.796	865822.838	NJ 64507 65825	57° 40.851' N	2° 35.810' W	57.68084925	-2.59683223	524042.5	6393250.5
83	364514.296	865823.938	NJ 64514 65826	57° 40.852' N	2° 35.802' W	57.68085973	-2.59670664	524049.98	6393251.71
84	364509.996	865831.438	NJ 64510 65833	57° 40.856' N	2° 35.807' W	57.68092675	-2.59677985	524045.57	6393259.15
85	364503.396	865837.038	NJ 64504 65839	57° 40.859' N	2° 35.813' W	57.68097653	-2.59689134	524038.89	6393264.65
86	364496.396	865840.738	NJ 64497 65843	57° 40.861' N	2° 35.821' W	57.6810092	-2.59700926	524031.84	6393268.25
87	364489.596	865845.538	NJ 64490 65847	57° 40.863' N	2° 35.827' W	57.68105178	-2.59712399	524024.97	6393272.94
88	364484.496	865852.438	NJ 64485 65854	57° 40.867' N	2° 35.833' W	57.68111335	-2.59721052	524019.77	6393279.77
89	364481.596	865859.838	NJ 64482 65862	57° 40.871' N	2° 35.836' W	57.68117959	-2.59726024	524016.76	6393287.12
90	364480.196	865867.238	NJ 64480 65869	57° 40.875' N	2° 35.837' W	57.68124594	-2.59728481	524015.25	6393294.5
91	364478.596	865876.639	NJ 64479 65878	57° 40.880' N	2° 35.839' W	57.68133024	-2.59731303	524013.51	6393303.88
92	364476.096	865884.439	NJ 64476 65886	57° 40.884' N	2° 35.841' W	57.6814001	-2.5973561	524010.9	6393311.64
93	364468.316	865897.789	NJ 64468 65900	57° 40.891' N	2° 35.849' W	57.68151939	-2.59748853	524002.92	6393324.87
94	364465.096	865904.839	NJ 64465 65907	57° 40.895' N	2° 35.853' W	57.68158246	-2.59754356	523999.6	6393331.87
95	364471.696	865910.339	NJ 64472 65912	57° 40.898' N	2° 35.846' W	57.68163238	-2.59743371	524006.11	6393337.47
96	364474.096	865918.139	NJ 64474 65920	57° 40.902' N	2° 35.844' W	57.68170263	-2.59739462	524008.4	6393345.31
97	364472.296	865925.439	NJ 64472 65927	57° 40.906' N	2° 35.846' W	57.68176805	-2.59742589	524006.49	6393352.58
98	364464.696	865927.239	NJ 64465 65929	57° 40.907' N	2° 35.853' W	57.68178362	-2.59755359	523998.87	6393354.27
99	364457.996	865923.239	NJ 64458 65925	57° 40.905' N	2° 35.860' W	57.68174716	-2.59766534	523992.23	6393350.17
100	364456.496	865930.839	NJ 64457 65933	57° 40.909' N	2° 35.861' W	57.6818153	-2.59769161	523990.61	6393357.74
101	364451.996	865923.839	NJ 64452 65926	57° 40.905' N	2° 35.866' W	57.68175208	-2.59776603	523986.22	6393350.68
102	364450.064	865931.012	NJ 64450 65933	57° 40.909' N	2° 35.868' W	57.68181635	-2.59779948	523984.18	6393357.82
103	364449.896	865931.639	NJ 64450 65933	57° 40.909' N	2° 35.868' W	57.68182197	-2.5978024	523984	6393358.45

104	364442.396	865933.539	NJ 64443 65935	57° 40.910' N	2° 35.876' W	57.68183844	-2.59792844	523976.48	6393360.24
105	364440.996	865940.939	NJ 64441 65943	57° 40.914' N	2° 35.877' W	57.68190479	-2.59795301	523974.97	6393367.61
106	364439.596	865949.139	NJ 64440 65951	57° 40.919' N	2° 35.879' W	57.68197833	-2.5979777	523973.45	6393375.79
107	364432.596	865951.839	NJ 64433 65954	57° 40.920' N	2° 35.886' W	57.68200203	-2.59809547	523966.41	6393378.39
108	364429.496	865959.239	NJ 64430 65961	57° 40.924' N	2° 35.889' W	57.68206825	-2.59814855	523963.2	6393385.74
109	364421.796	865961.839	NJ 64422 65964	57° 40.925' N	2° 35.897' W	57.68209099	-2.59827805	523955.46	6393388.23
110	364416.796	865956.239	NJ 64417 65958	57° 40.922' N	2° 35.902' W	57.68204029	-2.59836106	523950.55	6393382.55
111	364409.896	865959.939	NJ 64410 65962	57° 40.924' N	2° 35.909' W	57.68207298	-2.59847731	523943.59	6393386.15
112	364402.496	865957.639	NJ 64403 65959	57° 40.923' N	2° 35.916' W	57.68205173	-2.59860105	523936.23	6393383.74
113	364395.796	865952.739	NJ 64396 65955	57° 40.920' N	2° 35.923' W	57.68200719	-2.59871266	523929.6	6393378.75
114	364394.021	865951.519	NJ 64394 65953	57° 40.920' N	2° 35.925' W	57.6819961	-2.59874226	523927.84	6393377.5
115	364392.485	865950.465	NJ 64393 65952	57° 40.919' N	2° 35.926' W	57.68198651	-2.59876785	523926.32	6393376.42
116	364389.096	865948.138	NJ 64389 65950	57° 40.918' N	2° 35.929' W	57.68196534	-2.59882433	523922.97	6393374.05
117	364385.85	865944.016	NJ 64386 65946	57° 40.916' N	2° 35.933' W	57.68192806	-2.59887815	523919.78	6393369.88
118	364380.197	865936.838	NJ 64380 65939	57° 40.912' N	2° 35.938' W	57.68186314	-2.59897188	523914.24	6393362.62
119	364376.997	865927.738	NJ 64377 65930	57° 40.907' N	2° 35.941' W	57.68178115	-2.59902419	523911.17	6393353.47
120	364372.787	865919.118	NJ 64373 65921	57° 40.902' N	2° 35.946' W	57.6817034	-2.5990935	523907.09	6393344.79
121	364368.397	865911.438	NJ 64369 65913	57° 40.898' N	2° 35.950' W	57.68163407	-2.59916597	523902.81	6393337.05
122	364363.397	865905.138	NJ 64364 65907	57° 40.895' N	2° 35.955' W	57.68157708	-2.59924888	523897.91	6393330.67
123	364355.797	865901.538	NJ 64356 65903	57° 40.893' N	2° 35.963' W	57.68154415	-2.59937577	523890.36	6393326.96
124	364347.797	865901.138	NJ 64348 65903	57° 40.892' N	2° 35.971' W	57.68153992	-2.59950986	523882.37	6393326.44
125	364339.497	865903.138	NJ 64340 65905	57° 40.893' N	2° 35.979' W	57.68155722	-2.59964932	523874.04	6393328.32
126	364331.597	865906.338	NJ 64332 65908	57° 40.895' N	2° 35.987' W	57.68158533	-2.59978226	523866.1	6393331.4
127	364325.361	865908.73	NJ 64326 65911	57° 40.896' N	2° 35.993' W	57.68160632	-2.59988719	523859.83	6393333.7
128	364324.297	865909.138	NJ 64324 65911	57° 40.897' N	2° 35.994' W	57.6816099	-2.59990508	523858.76	6393334.1
129	364313.998	865910.538	NJ 64314 65912	57° 40.897' N	2° 36.005' W	57.68162166	-2.600078	523848.44	6393335.34
130	364305.798	865909.938	NJ 64306 65912	57° 40.897' N	2° 36.013' W	57.68161562	-2.6002154	523840.25	6393334.62
131	364297.498	865911.238	NJ 64298 65913	57° 40.898' N	2° 36.021' W	57.68162663	-2.60035477	523831.93	6393335.8
132	364290.598	865914.738	NJ 64291 65917	57° 40.899' N	2° 36.028' W	57.68165752	-2.60047099	523824.98	6393339.2
133	364285.998	865920.738	NJ 64286 65923	57° 40.903' N	2° 36.033' W	57.68171104	-2.60054901	523820.29	6393345.13
134	364282.955	865917.962	NJ 64283 65920	57° 40.901' N	2° 36.036' W	57.68168587	-2.60059961	523817.29	6393342.31
135	364282.558	865917.599	NJ 64283 65919	57° 40.901' N	2° 36.036' W	57.68168258	-2.60060623	523816.9	6393341.94
136	364280.298	865915.538	NJ 64280 65917	57° 40.900' N	2° 36.039' W	57.68166388	-2.60064381	523814.67	6393339.85
137	364277.598	865908.438	NJ 64278 65910	57° 40.896' N	2° 36.041' W	57.6815999	-2.60068803	523812.07	6393332.71
138	364272.698	865901.538	NJ 64273 65903	57° 40.892' N	2° 36.046' W	57.68153753	-2.60076916	523807.28	6393325.74

139	364266.698	865896.738	NJ 64267 65899	57° 40.890' N	2° 36.052' W	57.68149394	-2.60086905	523801.35	6393320.85
140	364258.898	865896.038	NJ 64259 65898	57° 40.889' N	2° 36.060' W	57.68148703	-2.60099974	523793.56	6393320.03
141	364250.698	865900.638	NJ 64251 65902	57° 40.892' N	2° 36.068' W	57.6815277	-2.60113792	523785.29	6393324.51
142	364254.298	865910.638	NJ 64254 65912	57° 40.897' N	2° 36.065' W	57.6816178	-2.60107904	523788.74	6393334.56
143	364248.298	865918.938	NJ 64248 65921	57° 40.902' N	2° 36.071' W	57.68169187	-2.60118088	523782.62	6393342.77
144	364240.398	865926.438	NJ 64241 65928	57° 40.906' N	2° 36.079' W	57.68175861	-2.60131446	523774.61	6393350.16
145	364235.298	865933.138	NJ 64235 65935	57° 40.909' N	2° 36.084' W	57.68181838	-2.60140098	523769.42	6393356.78
146	364227.398	865935.838	NJ 64228 65938	57° 40.911' N	2° 36.092' W	57.681842	-2.60153385	523761.48	6393359.36
147	364221.899	865929.838	NJ 64222 65932	57° 40.907' N	2° 36.098' W	57.68178767	-2.60162517	523756.07	6393353.28
148	364220.399	865921.838	NJ 64221 65924	57° 40.903' N	2° 36.099' W	57.68171569	-2.60164913	523754.68	6393345.26
149	364220.499	865907.738	NJ 64221 65910	57° 40.895' N	2° 36.099' W	57.68158906	-2.60164535	523754.99	6393331.16
150	364221.799	865893.637	NJ 64222 65895	57° 40.888' N	2° 36.097' W	57.68146252	-2.60162146	523756.5	6393317.09
151	364221.199	865885.937	NJ 64221 65888	57° 40.884' N	2° 36.098' W	57.68139331	-2.60163037	523756.01	6393309.38
152	364215.399	865880.137	NJ 64216 65882	57° 40.880' N	2° 36.104' W	57.68134075	-2.60172676	523750.3	6393303.49
153	364207.899	865873.637	NJ 64208 65875	57° 40.877' N	2° 36.111' W	57.68128177	-2.60185154	523742.9	6393296.88
154	364201.899	865868.037	NJ 64202 65870	57° 40.874' N	2° 36.117' W	57.681231	-2.60195131	523736.98	6393291.2
155	364199.583	865866.113	NJ 64200 65868	57° 40.873' N	2° 36.119' W	57.68121353	-2.60198987	523734.69	6393289.24
156	364195.999	865863.137	NJ 64196 65865	57° 40.871' N	2° 36.123' W	57.68118652	-2.60204951	523731.16	6393286.21
157	364189.1	865859.937	NJ 64189 65862	57° 40.869' N	2° 36.130' W	57.68115722	-2.60216473	523724.3	6393282.91
158	364177.9	865854.637	NJ 64178 65856	57° 40.867' N	2° 36.141' W	57.68110873	-2.60235173	523713.18	6393277.44
159	364167.4	865850.437	NJ 64168 65852	57° 40.864' N	2° 36.152' W	57.68107016	-2.60252716	523702.75	6393273.09
160	364154.2	865845.737	NJ 64154 65848	57° 40.862' N	2° 36.165' W	57.68102689	-2.60274779	523689.62	6393268.2
161	364140.64	865840.917	NJ 64141 65843	57° 40.859' N	2° 36.178' W	57.68098252	-2.60297444	523676.13	6393263.18
162	364131.521	865838.127	NJ 64132 65840	57° 40.857' N	2° 36.188' W	57.68095673	-2.60312694	523667.05	6393260.25
163	364123.661	865836.877	NJ 64124 65839	57° 40.857' N	2° 36.196' W	57.68094487	-2.60325854	523659.21	6393258.89
164	364115.961	865836.277	NJ 64116 65838	57° 40.856' N	2° 36.203' W	57.68093887	-2.60338756	523651.52	6393258.17
165	364106.261	865835.977	NJ 64106 65838	57° 40.856' N	2° 36.213' W	57.6809354	-2.60355016	523641.83	6393257.73
166	364094.861	865840.977	NJ 64095 65843	57° 40.859' N	2° 36.225' W	57.68097939	-2.60374205	523630.36	6393262.56
167	364095.136	865846.141	NJ 64095 65848	57° 40.862' N	2° 36.224' W	57.6810258	-2.60373821	523630.56	6393267.73
168	364095.192	865847.184	NJ 64095 65849	57° 40.862' N	2° 36.224' W	57.68103517	-2.60373743	523630.6	6393268.77
169	364095.261	865848.477	NJ 64095 65850	57° 40.863' N	2° 36.224' W	57.68104679	-2.60373647	523630.65	6393270.07
170	364094.661	865855.977	NJ 64095 65858	57° 40.867' N	2° 36.225' W	57.6811141	-2.60374765	523629.94	6393277.56
171	364087.061	865857.577	NJ 64087 65859	57° 40.868' N	2° 36.233' W	57.68112787	-2.60387532	523622.31	6393279.04
172	364079.361	865858.377	NJ 64080 65860	57° 40.868' N	2° 36.240' W	57.68113444	-2.60400455	523614.6	6393279.73
173	364072.561	865864.077	NJ 64073 65866	57° 40.871' N	2° 36.247' W	57.68118509	-2.60411942	523607.72	6393285.33



174	364068.513	865866.05	NJ 64069 65868	57° 40.872' N	2° 36.251' W	57.68120249	-2.60418759	523603.64	6393287.24
175	364065.353	865867.548	NJ 64066 65869	57° 40.873' N	2° 36.254' W	57.68121569	-2.6042408	523600.46	6393288.69
176	364058.271	865870.287	NJ 64058 65872	57° 40.874' N	2° 36.262' W	57.68123972	-2.60435996	523593.34	6393291.33
177	364054.171	865877.077	NJ 64054 65879	57° 40.878' N	2° 36.266' W	57.68130038	-2.60442972	523589.14	6393298.05
178	364047.421	865882.667	NJ 64048 65884	57° 40.881' N	2° 36.273' W	57.68135004	-2.60454374	523582.31	6393303.54
179	364040.711	865886.697	NJ 64041 65888	57° 40.883' N	2° 36.279' W	57.68138857	-2.60465685	523575.54	6393307.47
180	364035.691	865892.957	NJ 64036 65895	57° 40.886' N	2° 36.285' W	57.68144153	-2.60474196	523570.43	6393313.66
181	364027.571	865896.137	NJ 64028 65898	57° 40.888' N	2° 36.293' W	57.68146944	-2.60487859	523562.27	6393316.72
182	364019.561	865898.697	NJ 64020 65900	57° 40.890' N	2° 36.301' W	57.68149179	-2.60501328	523554.22	6393319.16
183	364010.831	865901.347	NJ 64011 65903	57° 40.891' N	2° 36.310' W	57.68151489	-2.60516006	523545.45	6393321.68
184	364003.261	865903.197	NJ 64003 65905	57° 40.892' N	2° 36.317' W	57.6815309	-2.60528727	523537.85	6393323.42
185	363996.211	865905.857	NJ 63996 65908	57° 40.893' N	2° 36.324' W	57.68155422	-2.60540588	523530.77	6393325.98
186	363985.312	865907.057	NJ 63985 65909	57° 40.894' N	2° 36.335' W	57.68156413	-2.60558883	523519.85	6393327.01
187	363977.212	865906.757	NJ 63977 65909	57° 40.894' N	2° 36.343' W	57.68156078	-2.6057246	523511.76	6393326.6
188	363969.612	865904.657	NJ 63970 65906	57° 40.892' N	2° 36.351' W	57.68154131	-2.60585172	523504.19	6393324.38
189	363962.412	865901.556	NJ 63963 65903	57° 40.891' N	2° 36.358' W	57.68151289	-2.60597198	523497.04	6393321.18
190	363954.412	865896.356	NJ 63955 65898	57° 40.888' N	2° 36.366' W	57.68146554	-2.60610534	523489.11	6393315.86
191	363943.012	865888.056	NJ 63943 65890	57° 40.883' N	2° 36.378' W	57.68139007	-2.60629524	523477.84	6393307.39
192	363936.212	865884.456	NJ 63936 65886	57° 40.881' N	2° 36.385' W	57.68135719	-2.60640872	523471.09	6393303.69
193	363928.812	865882.756	NJ 63929 65885	57° 40.880' N	2° 36.392' W	57.68134133	-2.60653255	523463.72	6393301.88
194	363919.513	865882.156	NJ 63920 65884	57° 40.880' N	2° 36.401' W	57.68133519	-2.60668839	523454.43	6393301.15
195	363919.212	865890.456	NJ 63919 65892	57° 40.885' N	2° 36.402' W	57.68140972	-2.60669467	523454.01	6393309.44
196	363912.312	865893.756	NJ 63912 65896	57° 40.886' N	2° 36.409' W	57.6814388	-2.60681086	523447.06	6393312.64
197	363904.613	865892.356	NJ 63905 65894	57° 40.886' N	2° 36.416' W	57.68142561	-2.60693976	523439.38	6393311.13
198	363897.613	865889.156	NJ 63898 65891	57° 40.884' N	2° 36.423' W	57.6813963	-2.60705665	523432.43	6393307.82
199	363888.013	865890.956	NJ 63888 65893	57° 40.885' N	2° 36.433' W	57.6814117	-2.60721789	523422.8	6393309.48
200	363879.513	865888.656	NJ 63880 65890	57° 40.883' N	2° 36.442' W	57.68139035	-2.60736007	523414.34	6393307.06
201	363871.513	865885.556	NJ 63872 65887	57° 40.882' N	2° 36.450' W	57.68136187	-2.60749374	523406.39	6393303.84
202	363872.913	865877.956	NJ 63873 65880	57° 40.878' N	2° 36.448' W	57.68129372	-2.60746913	523407.9	6393296.26
203	363866.313	865874.356	NJ 63866 65876	57° 40.876' N	2° 36.455' W	57.68126085	-2.60757925	523401.35	6393292.56
204	363859.313	865871.656	NJ 63859 65873	57° 40.874' N	2° 36.462' W	57.68123604	-2.60769622	523394.39	6393289.76
205	363861.77	865866.811	NJ 63862 65869	57° 40.872' N	2° 36.459' W	57.68119271	-2.60765429	523396.92	6393284.95
206	363861.976	865866.406	NJ 63862 65868	57° 40.871' N	2° 36.459' W	57.68118909	-2.60765079	523397.13	6393284.55
207	363862.913	865864.556	NJ 63863 65866	57° 40.870' N	2° 36.458' W	57.68117256	-2.60763478	523398.1	6393282.71
208	363870.513	865861.256	NJ 63871 65863	57° 40.869' N	2° 36.450' W	57.68114353	-2.60750686	523405.74	6393279.53

209	363876.373	865852.926	NJ 63877 65855	57° 40.864' N	2° 36.444' W	57.68106918	-2.60740734	523411.73	6393271.28
210	363866.613	865852.456	NJ 63867 65854	57° 40.864' N	2° 36.454' W	57.68106417	-2.60757092	523401.98	6393270.67
211	363858.814	865851.456	NJ 63859 65853	57° 40.863' N	2° 36.462' W	57.68105456	-2.60770156	523394.19	6393269.56
212	363852.314	865846.756	NJ 63852 65849	57° 40.861' N	2° 36.469' W	57.68101183	-2.60780984	523387.76	6393264.76
213	363847.514	865839.156	NJ 63848 65841	57° 40.857' N	2° 36.473' W	57.68094318	-2.60788918	523383.07	6393257.09
214	363840.814	865843.456	NJ 63841 65845	57° 40.859' N	2° 36.480' W	57.68098126	-2.60800217	523376.31	6393261.29
215	363833.514	865845.556	NJ 63834 65847	57° 40.860' N	2° 36.487' W	57.68099953	-2.60812488	523368.98	6393263.28
216	363825.014	865838.456	NJ 63825 65840	57° 40.856' N	2° 36.496' W	57.68093508	-2.60826634	523360.59	6393256.06
217	363820.514	865832.156	NJ 63821 65834	57° 40.853' N	2° 36.500' W	57.68087813	-2.60834084	523356.18	6393249.69
218	363817.314	865823.355	NJ 63817 65825	57° 40.848' N	2° 36.504' W	57.68079883	-2.60839317	523353.11	6393240.85
219	363817.714	865814.955	NJ 63818 65817	57° 40.843' N	2° 36.503' W	57.68072342	-2.6083852	523353.64	6393232.45
220	363825.714	865816.055	NJ 63826 65818	57° 40.844' N	2° 36.495' W	57.68073394	-2.60825122	523361.62	6393233.67
221	363835.014	865819.756	NJ 63835 65822	57° 40.846' N	2° 36.486' W	57.68076792	-2.60809585	523370.86	6393237.51
222	363829.914	865812.855	NJ 63830 65815	57° 40.842' N	2° 36.491' W	57.68070554	-2.60818032	523365.87	6393230.53
223	363824.614	865807.455	NJ 63825 65809	57° 40.839' N	2° 36.496' W	57.68065661	-2.60826837	523360.65	6393225.06
224	363822.914	865799.655	NJ 63823 65801	57° 40.835' N	2° 36.498' W	57.68058641	-2.6082957	523359.06	6393217.23
225	363809.645	865789.105	NJ 63810 65791	57° 40.829' N	2° 36.511' W	57.68049059	-2.60851661	523345.95	6393206.49
226	363798.115	865779.955	NJ 63798 65782	57° 40.824' N	2° 36.523' W	57.68040747	-2.60870856	523334.56	6393197.17
227	363796.32	865778.782	NJ 63796 65781	57° 40.824' N	2° 36.524' W	57.68039679	-2.60873847	523332.78	6393195.97
228	363796.32	865778.782	NJ 63796 65781	57° 40.824' N	2° 36.524' W	57.68039679	-2.60873847	523332.78	6393195.97
229	363793.64	865777.029	NJ 63794 65779	57° 40.823' N	2° 36.527' W	57.68038083	-2.60878314	523330.13	6393194.18
230	363792.82	865776.493	NJ 63793 65778	57° 40.823' N	2° 36.528' W	57.68037595	-2.60879681	523329.31	6393193.63
231	363790.315	865774.855	NJ 63790 65777	57° 40.822' N	2° 36.530' W	57.68036103	-2.60883857	523326.83	6393191.96
232	363783.415	865771.555	NJ 63784 65773	57° 40.820' N	2° 36.537' W	57.68033084	-2.60895376	523319.98	6393188.55
233	363778.168	865769.298	NJ 63778 65771	57° 40.819' N	2° 36.542' W	57.68031014	-2.6090414	523314.77	6393186.22
234	363774.815	865767.855	NJ 63775 65770	57° 40.818' N	2° 36.546' W	57.68029691	-2.6090974	523311.44	6393184.73
235	363767.216	865762.755	NJ 63767 65765	57° 40.815' N	2° 36.553' W	57.68025049	-2.60922406	523303.92	6393179.52
236	363759.716	865759.755	NJ 63760 65762	57° 40.813' N	2° 36.561' W	57.68022294	-2.60934936	523296.46	6393176.41
237	363752.216	865754.255	NJ 63752 65756	57° 40.810' N	2° 36.568' W	57.68017293	-2.60947428	523289.04	6393170.8
238	363741.316	865749.135	NJ 63741 65751	57° 40.808' N	2° 36.579' W	57.68012607	-2.60965627	523278.22	6393165.52
239	363721.506	865737.945	NJ 63722 65740	57° 40.801' N	2° 36.599' W	57.68002396	-2.60998673	523258.58	6393154.04
240	363720.116	865739.155	NJ 63720 65741	57° 40.802' N	2° 36.601' W	57.68003471	-2.61001022	523257.17	6393155.23
241	363718.746	865741.815	NJ 63719 65744	57° 40.804' N	2° 36.602' W	57.68005849	-2.61003359	523255.76	6393157.86
242	363711.916	865745.155	NJ 63712 65747	57° 40.805' N	2° 36.609' W	57.68008794	-2.61014862	523248.88	6393161.1
243	363715.716	865757.655	NJ 63716 65759	57° 40.812' N	2° 36.605' W	57.68020052	-2.61008679	523252.5	6393173.66

244	363708.616	865753.655	NJ 63709 65755	57° 40.810' N	2° 36.612' W	57.68016402	-2.61020523	523245.46	6393169.55
245	363703.716	865747.555	NJ 63704 65749	57° 40.807' N	2° 36.617' W	57.68010883	-2.61028647	523240.65	6393163.38
246	363697.616	865752.555	NJ 63698 65754	57° 40.809' N	2° 36.623' W	57.68015325	-2.6103895	523234.48	6393168.29
247	363692.917	865746.355	NJ 63693 65748	57° 40.806' N	2° 36.628' W	57.68009718	-2.61046737	523229.87	6393162.02
248	363685.717	865743.755	NJ 63686 65746	57° 40.804' N	2° 36.635' W	57.68007324	-2.6105877	523222.71	6393159.32
249	363681.517	865736.454	NJ 63682 65738	57° 40.800' N	2° 36.639' W	57.68000734	-2.61065701	523218.62	6393151.96
250	363675.327	865724.984	NJ 63675 65727	57° 40.794' N	2° 36.646' W	57.67990382	-2.61075907	523212.6	6393140.4
251	363677.617	865716.454	NJ 63678 65718	57° 40.790' N	2° 36.643' W	57.67982739	-2.61071938	523215.01	6393131.9
252	363677.817	865707.054	NJ 63678 65709	57° 40.785' N	2° 36.643' W	57.67974297	-2.6107146	523215.35	6393122.51
253	363675.417	865698.554	NJ 63676 65700	57° 40.780' N	2° 36.645' W	57.67966643	-2.61075356	523213.08	6393113.97
254	363669.217	865691.554	NJ 63669 65693	57° 40.776' N	2° 36.651' W	57.67960306	-2.61085645	523206.98	6393106.88
255	363662.017	865687.754	NJ 63662 65690	57° 40.774' N	2° 36.659' W	57.67956835	-2.6109766	523199.84	6393102.98
256	363646.118	865679.654	NJ 63646 65681	57° 40.770' N	2° 36.675' W	57.6794943	-2.61124196	523184.06	6393094.64
257	363633.118	865670.054	NJ 63633 65672	57° 40.764' N	2° 36.688' W	57.67940703	-2.61145847	523171.21	6393084.85
258	363625.513	865662.732	NJ 63626 65665	57° 40.760' N	2° 36.695' W	57.67934065	-2.61158488	523163.71	6393077.42
259	363623.947	865661.225	NJ 63624 65663	57° 40.760' N	2° 36.697' W	57.67932698	-2.61161091	523162.17	6393075.89
260	363619.718	865657.154	NJ 63620 65659	57° 40.757' N	2° 36.701' W	57.67929007	-2.61168119	523158	6393071.76
261	363610.598	865649.764	NJ 63611 65652	57° 40.753' N	2° 36.710' W	57.67922296	-2.61183298	523148.99	6393064.23
262	363609.419	865649.114	NJ 63610 65651	57° 40.753' N	2° 36.711' W	57.67921703	-2.61185267	523147.82	6393063.56
263	363608.219	865648.454	NJ 63608 65650	57° 40.753' N	2° 36.712' W	57.679211	-2.61187269	523146.63	6393062.89
264	363606.399	865647.464	NJ 63607 65649	57° 40.752' N	2° 36.714' W	57.67920196	-2.61190305	523144.82	6393061.87
265	363583.219	865635.253	NJ 63583 65637	57° 40.745' N	2° 36.737' W	57.67909041	-2.61228985	523121.83	6393049.32
266	363576.719	865631.453	NJ 63577 65633	57° 40.743' N	2° 36.744' W	57.67905575	-2.61239825	523115.38	6393045.42
267	363563.719	865633.093	NJ 63564 65635	57° 40.744' N	2° 36.757' W	57.67906943	-2.61261647	523102.36	6393046.87
268	363555.979	865644.023	NJ 63556 65646	57° 40.750' N	2° 36.765' W	57.67916697	-2.6127479	523094.46	6393057.69
269	363547.029	865640.283	NJ 63547 65642	57° 40.748' N	2° 36.774' W	57.67913265	-2.61289739	523085.57	6393053.82
270	363536.12	865634.053	NJ 63536 65636	57° 40.745' N	2° 36.785' W	57.67907581	-2.61307937	523074.75	6393047.43
271	363527.84	865629.773	NJ 63528 65632	57° 40.742' N	2° 36.793' W	57.67903669	-2.61321754	523066.54	6393043.02
272	363520.32	865631.953	NJ 63520 65634	57° 40.743' N	2° 36.801' W	57.67905566	-2.61334396	523058.99	6393045.09
273	363523.62	865639.153	NJ 63524 65641	57° 40.747' N	2° 36.797' W	57.6791206	-2.61328972	523062.18	6393052.34
274	363529.849	865645.353	NJ 63530 65647	57° 40.751' N	2° 36.791' W	57.67917679	-2.61318621	523068.32	6393058.63
275	363522.42	865647.353	NJ 63523 65649	57° 40.752' N	2° 36.799' W	57.67919415	-2.61331109	523060.86	6393060.52
276	363514.62	865641.453	NJ 63515 65643	57° 40.748' N	2° 36.806' W	57.67914052	-2.61344097	523053.15	6393054.51
277	363519.32	865647.853	NJ 63519 65650	57° 40.752' N	2° 36.802' W	57.67919839	-2.61336314	523057.75	6393060.98
278	363515.92	865654.553	NJ 63516 65656	57° 40.755' N	2° 36.805' W	57.67925829	-2.61342116	523054.25	6393067.62

279	363503.05	865646.033	NJ 63503 65648	57° 40.751' N	2° 36.818' W	57.67918072	-2.61363565	523041.51	6393058.92
280	363508.92	865653.253	NJ 63509 65655	57° 40.755' N	2° 36.812' W	57.67924605	-2.61353833	523047.27	6393066.22
281	363497.67	865649.278	NJ 63498 65651	57° 40.753' N	2° 36.824' W	57.67920942	-2.61372635	523036.08	6393062.08
282	363497.67	865649.278	NJ 63498 65651	57° 40.753' N	2° 36.824' W	57.67920942	-2.61372635	523036.08	6393062.08
283	363483.127	865696.179	NJ 63483 65698	57° 40.778' N	2° 36.839' W	57.6796295	-2.61397731	523020.85	6393108.76
284	363476.656	865717.045	NJ 63477 65719	57° 40.789' N	2° 36.845' W	57.67981638	-2.61408897	523014.07	6393129.53
285	363476.101	865718.838	NJ 63476 65721	57° 40.790' N	2° 36.846' W	57.67983244	-2.61409856	523013.49	6393131.31
286	363476.101	865718.838	NJ 63476 65721	57° 40.790' N	2° 36.846' W	57.67983244	-2.61409856	523013.49	6393131.31
287	363476.101	865718.838	NJ 63476 65721	57° 40.790' N	2° 36.846' W	57.67983244	-2.61409856	523013.49	6393131.31
288	363401.22	865960.058	NJ 63401 65962	57° 40.920' N	2° 36.923' W	57.68199291	-2.6153908	522935.06	6393371.39
289	361526.974	866617.64	NJ 61527 66619	57° 41.265' N	2° 38.815' W	57.68774232	-2.64692319	521051.4	6394001.22
290	361539.286	867451.961	NJ 61539 67454	57° 41.714' N	2° 38.811' W	57.69523696	-2.64685029	521051.4	6394835.6
291	364420.48	873022.973	NJ 64421 73025	57° 44.731' N	2° 35.961' W	57.7455119	-2.59934767	523849.94	6400448.3
292	364801.157	873223.815	NJ 64801 73226	57° 44.841' N	2° 35.579' W	57.74734591	-2.59298282	524227.6	6400654.74
293	364994.499	875442.543	NJ 64995 75444	57° 46.037' N	2° 35.404' W	57.76728892	-2.5900598	524388.15	6402875.99
294	364038.943	878329.17	NJ 64039 78331	57° 47.588' N	2° 36.393' W	57.79313962	-2.60655502	523390.11	6405748.08
295	365732.592	888329.644	NJ 65733 88331	57° 52.986' N	2° 34.771' W	57.8830926	-2.57950948	524935.72	6415772.11
296	366330.065	896550.628	NJ 66330 96552	57° 57.418' N	2° 34.236' W	57.95697461	-2.57060543	525411.51	6424000.74
297	367116.566	900893.535	ND 67117 00895	57° 59.762' N	2° 33.475' W	57.99603894	-2.5579226	526133.62	6428354.66
298	367315.58	902795.798	ND 67316 02797	58° 0.788' N	2° 33.289' W	58.01313856	-2.55482072	526304.44	6430259.59
299	368155.83	913277.145	ND 68156 13279	58° 6.440' N	2° 32.522' W	58.10733592	-2.54202602	526989.3	6440751.88
300	367884.635	913792.659	ND 67885 13794	58° 6.717' N	2° 32.802' W	58.11194621	-2.5466984	526710.5	6441263.3