

Marine Licence Application for Dredging and Sea Disposal

Version 1.0

Marine (Scotland) Act 2010

Acronyms

Please note the following acronyms referred to in this application form:

BPEO	Best Practicable Environmental Option
MHWS	Mean High Water Springs
MMO	Marine Mammal Observer
MPA	Marine Protected Area
MS-LOT	Marine Scotland – Licensing Operations Team
PAM	Passive Acoustic Monitoring
SAC	Special Area of Conservation
SNH	Scottish Natural Heritage
SPA	Special Protection Area
SSSI	Site of Special Scientific Interest
WGS84	World Geodetic System 1984

Explanatory Notes

The following numbered paragraphs correspond to the questions on the application form and are intended to assist in completing the form. These explanatory notes are specific to this application and so you are advised to read these in conjunction with the Marine Scotland Guidance for Marine Licence Applicants document.

1. Applicant Details

The person making the application who will be named as the licensee.

2. Dredging Contractor Details

The person whose activities produce the substance(s) or object(s) to be dredged and/or intended for sea disposal (e.g the dredging contractor).

3. Agent Details

Any person acting under contract (or other agreement) on behalf of any party listed as the applicant and having responsibility for the control, management or physical deposit or removal of any substance(s) or object(s).

4. Payment

Indicate payment method. Cheques must be made payable to: The Scottish Government.

Marine licence applications will not be accepted unless accompanied by a cheque for the correct application fee, or if an invoice is requested, until that invoice is settled. Target timelines for determining applications do not begin until the application fee is paid.

5. Application Type

Indicate if the application is for a new dredging site or a site that has previously been dredged. Provide the existing or previous consent/licence number, expiry date and quantity (in wet tonnes) dredged under the consent/licence up to a stated date if applicable.

6. Dredging and Sea Disposal Details

- (a) Give a brief description of the dredging and sea disposal operation.
- (b) Provide the proposed start date of the project. The start date will not be backdated, since to commence a project for which a licence has not been obtained will constitute an offence, which may result in appropriate legal action. A licence is normally valid for the duration of the project but not exceeding 3 years. If a project will not be completed before a marine licence lapses, it will be necessary for licence holders to re-apply for a further licence to continue any ongoing work at least 14 weeks prior to the expiry date of the licence. **Target duration for determination of a marine licence application is 14 weeks.**
- (c) Provide the proposed completion date of the project.

- (d) Describe the location of the proposed works. Include a list of the latitude and longitude co-ordinates (WGS84) of the boundary points for each dredge site area. WGS84 is the World Geodetic System 1984 and the reference co-ordinate system used for marine licence applications. Co-ordinates taken from GPS equipment should be set to WGS84. Coordinates taken from recent admiralty charts will be on a WGS84 compatible datum. Ordnance survey maps do not use WGS84.

Example: For positions read from charts the format should be as in the example: 55°55.555'N 002°22.222'W (WGS84). The decimal point specifies that decimals of minutes are used and the datum is stated explicitly. If seconds are used then the format should be as in the example: 55°55'44"N 2°22'11"W (WGS84).

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

To supplement your application, please provide a suitably scaled extract of an Ordnance Survey Map (1:2,500 scale but not more than 1:10,000) or Admiralty Chart which must be marked to indicate:

- the full extent of the works in relation to the surrounding area;
- latitude and longitude co-ordinates defining the location of the works;
- the level of MHWS;
- any adjacent SAC, SPA, SSSI, MPA, Ramsar or similar conservation area boundary.

Drawings and plans will be consulted upon. 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.**

- (e) Provide details of the proposed disposal site for the dredged substance(s) or object(s) and, if necessary, any alternative disposal site(s) considered. In determining whether to grant a marine 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 substance(s) or object(s) 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 disposal site will normally be the responsibility of the applicant.
- (f) Indicate if any part of the works (dredging or sea disposal site) are located within the jurisdiction of a statutory harbour authority and provide details of the statutory harbour authority where relevant.
- (g) Provide a full method statement. The method statement must include details such as the rate of dredging, timing of the operation and order of the areas to be dredged.
- (h) Provide assessment of the potential impacts the works may have, including interference with other uses of the sea. Please include details of areas of concern e.g designated conservation areas, such as a SAC, SPA, SSSI, MPA or Ramsar site and shellfish harvesting areas. Further guidance on designated conservation areas can be obtained from SNH at this website: <http://gateway.snh.gov.uk/sitelink/index.jsp> and guidance on shellfish harvesting areas can be obtained from <http://www.foodstandards.gov.scot/> 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.

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".

Any application for beach replenishment works must be cross checked as to whether the proposed site is a designated bathing water site. If so, all physical works should ideally be done outwith the Bathing Water Season (1st June to 15th September). Further guidance on the Bathing Waters Directive (2006/7/EC) can be obtained from <http://apps.sepa.org.uk/bathingwaters/>.

Where there are potential impacts from the works, please provide details of proposed mitigation, such as use of MMOs or PAM, in response to potential impacts.

7. Details of Substance(s) or Object(s) to be Dredged

Information is required for each dredge site area listed in section 6 (d). please provide the following information:

Name of Dredge Area: For example Approach Channel or West of South Quay.

Type (Maintenance or Capital): **Maintenance dredge** applies to an area that has been dredged more than once and either annually or on a regular basis and was last dredged with the past 7 years; and a **Capital dredge** applies where an area/depth is being dredged either for the first time, or which has not been dredged within the past 7 years.

For capital dredging operations, 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. For maintenance dredging operations sites that have not been chemically analysed for more than 3 years, pre-dredge chemical analysis will be required to be undertaken. In addition to those samples analysed by the applicant, sediment sub-sample(s) must be submitted to MS-LOT as check monitoring may be required.

Estimated Specific Gravity: Indicate the specific gravity of the substance(s) or object(s) to be dredged from each dredge area.

Depth: Indicate the maximum depth (in metres) below the current seabed level, to which it is expected dredging is to be carried out, for each dredge area.

Quantity to be Dredged per Year (wet tonnes): Indicate the quantity of substance(s) or object(s) to be dredged (per year) from each dredge area. The quantity must be provided in wet tonnes.

8. Physical Composition

Indicate the approximate proportions as a percentage for each size range against each of the dredge site areas listed in section 6 (d) which are expected to be removed.

9. Details of Substance(s) or Object(s) Quality

Please indicate whether the substance(s) or object(s) from any of the areas to be dredged have been chemically analysed within the past 3 years. If yes, please provide details (locations, dates, results) on a separate sheet. If no, please provide justification. For capital projects, you are required to have representative sediment samples analysed at a laboratory of choice (see MS-LOT Pre-dredge Sampling Guidance document at <http://www.gov.scot/Topics/marine/Licensing/marine/Applications/predredge> for analytical requirements. This is liable to extend the time required to consider your application as **marine licence applications will not be determined without provision of this chemistry data.**

As part of the application determination process, you are required to carry out an assessment of the chemical and physical characteristics of the substance(s) or object(s) to be deposited at sea and potential effects upon the marine environment. It is your responsibility to show that the substance(s) or object(s) are suitable to be considered for sea disposal. This assessment should form part of your BPEO.

Under section 27(2) of the Marine (Scotland) Act 2010, the licensing authority has an obligation to consider the availability of practical alternatives when considering applications involving disposal of substance(s) or object(s) at sea. All applications for sea disposal must be supported by a detailed assessment of the alternative options - BPEO assessment. This must include a statement setting out the reasons why deposit of the substance(s) or object(s) at sea is the preferred option and applications will not be considered unless they are accompanied by such an assessment. All options in the BPEO must 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.

As part of the licence conditions, you are likely to be required to take representative samples of the dredged substance(s) or object(s) during the dredging/sea disposal operations for analysis by MS-LOT. In such cases, samples must be taken at specified locations and depths and placed in containers which will be provided. The

samples must then be returned to MS-LOT at the Marine Laboratory Aberdeen. This process enables MS-LOT to fulfil its obligations under international conventions.

10. Details of Vessel(s) Undertaking Dredging and Sea Disposal

Provide the vessel name, vessel type (e.g cutter-suction) and name and address of all vessel operators to be used for dredging and sea disposal operations. 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.

11. Noise Monitoring

Under the Marine Strategy Regulations (2010), there is now a requirement to monitor loud, low to mid frequency (10Hz to 10kHz) impulsive noise. Activities where this type of noise is produced include seismic airguns, other geophysical surveys (<10kHz), pile driving, explosives and certain acoustic deterrent devices. Where noisy activity is being undertaken, you must complete an initial registration form for the noise registry which allows you to provide details on the proposed work. Completion of a 'close-out' form, which allows licensees to provide details of the actual dates and locations where the activities occurred, is also required within 12 weeks of the completion of the 'noisy' activity or, in the case of prolonged activities such as piling for harbour construction or wind farms, at quarterly intervals or after each phase of foundation installation.

These forms can be downloaded from:

<http://www.scotland.gov.uk/Topics/marine/science/MSInteractive/Themes/noise-reduction>

Marine licence applications will not be accepted until this form has been completed and submitted.

12. 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.

13. Scotland's National Marine Plan

Scotland's National Marine Plan has been prepared in accordance with the EU Directive 2014/89/EU, which came into force in July 2014. The Directive introduces a framework for maritime spatial planning and aims to promote the sustainable development of marine areas and the sustainable use of marine resources. It also sets out a number of minimum requirements all of which have been addressed in this plan. In doing so, and in accordance with article 5(3) of the Directive, Marine Scotland have considered a wide range of sectoral uses and activities and have determined how these different objectives are reflected and weighted in the marine plan. Land-sea interactions have also been taken into account as part of the marine planning process. Any applicant for a marine licence should consider their proposals with reference to Scotland's National Marine Plan. A copy of Scotland's National Marine Plan can be found at:

<http://www.gov.scot/Publications/2015/03/6517/0>

Indicate whether you have considered the project with reference to Scotland's National Marine Plan and provide details of considerations made including reference to the policies that have been considered. If you have not considered the project with reference to Scotland's National Marine Plan please provide an explanation.

14. Consultation

Provide details of all bodies consulted and give details of any consents issued including date of issue.

15. Associated Works

Indicate whether the application is associated with any other marine projects (e.g. land reclamation, or marine/harbour construction works etc). If this is the case, provide reference/licence number for the related marine projects.

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

Under Section 54 of the Marine (Scotland) Act 2010, all information contained within and provided in support of this application will be placed on a Public Register. There are no national security grounds for application information not going on the Register under the 2010 Act.

Public Register

Do you consider that any of the information contained within or provided in support of this application should not be disclosed:

- (a) for reasons of national security; YES ☐ NO ☐
- (b) for reasons of 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.

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.

Target duration for determination is 14 weeks. Please note that missing or erroneous information in your application and complications resulting from consultation may result in the application being refused or delayed.

Marine licence applications will not be accepted unless accompanied by a cheque for the correct application fee, or if an invoice is requested, until that invoice is settled. Target timelines for determining applications do not begin until the application fee is paid.

Declaration

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

Signature

[Redacted]

Date

Name in BLOCK LETTERS

[Redacted]

Application Check List

Please check that you provide all relevant information in support of your application, including but not limited to the following:

- Completed and signed application form ☐
- Maps/Charts ☐
- Co-ordinates of the boundary points of the area of harbour jurisdiction (if you are a statutory harbour authority) ☐
- Method Statement ☐
- BPEO Assessment ☐
- Analytical chemistry data (for capital projects) ☐
- Transportation plan (dredger route to and from disposal site – if required) ☐
- Additional information e.g. photographs, consultation correspondence ☐
- Noise Registry – Initial Registration Form (if applicable) ☐
- Payment (if paying by cheque) ☐

1. Applicant Details

Title [Redacted] Initials: [Redacted] Surname: [Redacted]

Trading Title (if appropriate):

Address:

Name of contact (if different): [Redacted]

Telephone No. (inc. dialing code): [Redacted]

Email: [Redacted]

Statutory Harbour Authority? YES ☐ NO ☐

If **YES**, please provide a list of the latitude and longitude co-ordinates (WGS84) of the boundary points of the area of harbour jurisdiction using Appendix 01 Additional Co-ordinates form if necessary.

2. Dredging Contractor Details (if any)

Title: Initials: Surname:

If the Dredging Contractor is the Applicant shown in section 1 please tick the box ☐

Trading Title (if appropriate):

Address:

Name of contact (if different):

Telephone No. (inc. dialing code):

Email:

3. Agent Details (if any)

Title: [Redacted] Initials: [Redacted] Surname: [Redacted]

Trading Title (if appropriate):

Address:

Name of contact (if different): [Redacted]

Telephone No. (inc. dialing code):

Email: [Redacted]

4. Payment

Enclosed Cheque ☐

Invoice ☐

Contact and address to send invoice to:

Applicant ☐

Agent ☐

Other ☐

If **OTHER**, please provide contact details:

Title:

Initials:

Surname:

Address:

Email:

5. Application Type

Is this application for a new dredging site or a site that has previously been dredged:

New Site ☐ Previously Dredged Site ☐

If an **PREVIOUSLY DREDGED SITE**, please provide the following:

Consent/Licence Number	Expiry Date	Quantity (wet tonnes) dredged under consent/licence as at (date)

6. Dredging and Sea Disposal Details

(a) Brief description of the dredging and sea disposal operation:

(b) Proposed start date (**Target duration for determination of a marine licence application is 14 weeks**):

(c) Proposed completion date:

(d) Location of Dredging:

Latitude and Longitude co-ordinates (WGS84) defining the extent of all dredge areas (continue on Appendix 01 Additional Co-ordinates form if necessary):

Dredge Area A

Latitude									Longitude							
		°			.						°			.		
		°			.						°			.		
		°			.						°			.		
		°			.						°			.		
		°			.						°			.		
		°			.						°			.		
		°			.						°			.		

Dredge Area B

Latitude								Longitude							
		°			.		' N				°			.	' W
		°			.		' N				°			.	' W
		°			.		' N				°			.	' W
		°			.		' N				°			.	' W
		°			.		' N				°			.	' W
		°			.		' N				°			.	' W

Dredge Area C

Latitude								Longitude							
		°			.		' N				°			.	' W
		°			.		' N				°			.	' W
		°			.		' N				°			.	' W
		°			.		' N				°			.	' W
		°			.		' N				°			.	' W
		°			.		' N				°			.	' W

Dredge Area D

Latitude								Longitude							
		°			.		' N				°			.	' W
		°			.		' N				°			.	' W
		°			.		' N				°			.	' W
		°			.		' N				°			.	' W
		°			.		' N				°			.	' W
		°			.		' N				°			.	' W

Dredge Area E

Latitude								Longitude							
		°			.		' N				°			.	' W
		°			.		' N				°			.	' W
		°			.		' N				°			.	' W
		°			.		' N				°			.	' W
		°			.		' N				°			.	' W
		°			.		' N				°			.	' W

(e) Name of Disposal Site and Oslo Code:

Latitude and Longitude co-ordinates (WGS84) defining the extent of disposal site (continue on Appendix 01 Additional Co-ordinates form if necessary):

Latitude								Longitude							
		°			.		' N				°			.	' W
		°			.		' N				°			.	' W
		°			.		' N				°			.	' W
		°			.		' N				°			.	' W



(f) Is any part of the works (dredging or sea disposal site) located within the jurisdiction of a statutory harbour authority?

YES ☐ NO ☐

If **YES**, please specify statutory harbour authority:

(g) Method statement including rate of dredging, timing of the operation and order of the areas to be dredged (continue on separate sheet if necessary):

(h) Potential impacts the works may have (including details of areas of concern e.g. designated conservation and shellfish harvesting areas) and proposed mitigation in response to potential impacts (continue on separate sheet if necessary):

7. Details of Substance(s) or Object(s) to be Dredged (Please provide details for each of the Dredge Areas listed in Section 5 (d) above. Continue on a separate sheet if necessary):

Dredge Area	Name of Dredge Area	Type (Maintenance or Capital)	Harbour bed, Seabed or Estuary bed?	Estimated Specific Gravity	Depth (metres)	Quantity to be Dredged <u>per Year</u> (wet tonnes)
A						
A						
C						
D						
E						

8. **Physical Composition of Substance(s) or Object(s) to be Dredged** (Please provide the approximate proportions as a percentage for each size range against each of the dredge site areas listed in Section 6 (d) above. Continue on a separate sheet if necessary):

Dredge Area	Clay and Silt (< 0.063 mm)	Sand ($0.063 \leq \text{Sand} < 2.0$ mm)	Pebbles, Cobbles & Boulders (≤ 2.0 mm)
A- Hard			
A -Soft			
C			
D			
E			

9. **Details of Substance(s) or Object(s) Quality**

Have the dredged substance(s) or object(s) been chemically analysed in the last 3 years?

YES ☐ NO ☐

10. **Details of Vessel(s) Undertaking Dredging and Sea Disposal** (please note that a marine licence cannot be issued until the vessel details have been confirmed. Continue on a separate sheet if necessary):

Vessel Name	Type of Vessel	Name and Address of Operator

11. Noise Monitoring

Will loud, low to mid frequency (10Hz to 10kHz) impulsive noise be produced by the project?

YES ☐ NO ☐

If **YES**, which please indicate the noise generating activities and sound frequencies:

Noise Generating Activity	Sound Frequency (Hertz)
Use of Explosives	
Other (please describe below):	

If you have ticked **YES**, please complete the Noise Registry – Initial Registration form located at: <http://www.scotland.gov.uk/Topics/marine/science/MSInteractive/Themes/noise-reduction>

A marine licence application will not be accepted until this form has been completed and submitted.

12. Statutory Consenting Powers

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

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13. Scotland's National Marine Plan

Have you considered the application with reference to Scotland's National Marine Plan?

YES ☐ NO ☐

If **YES**, provide details of considerations made including reference to the policies that have been considered:

[illegible]

If **NO**, please provide an explanation of why you haven't considered the National Marine Plan?

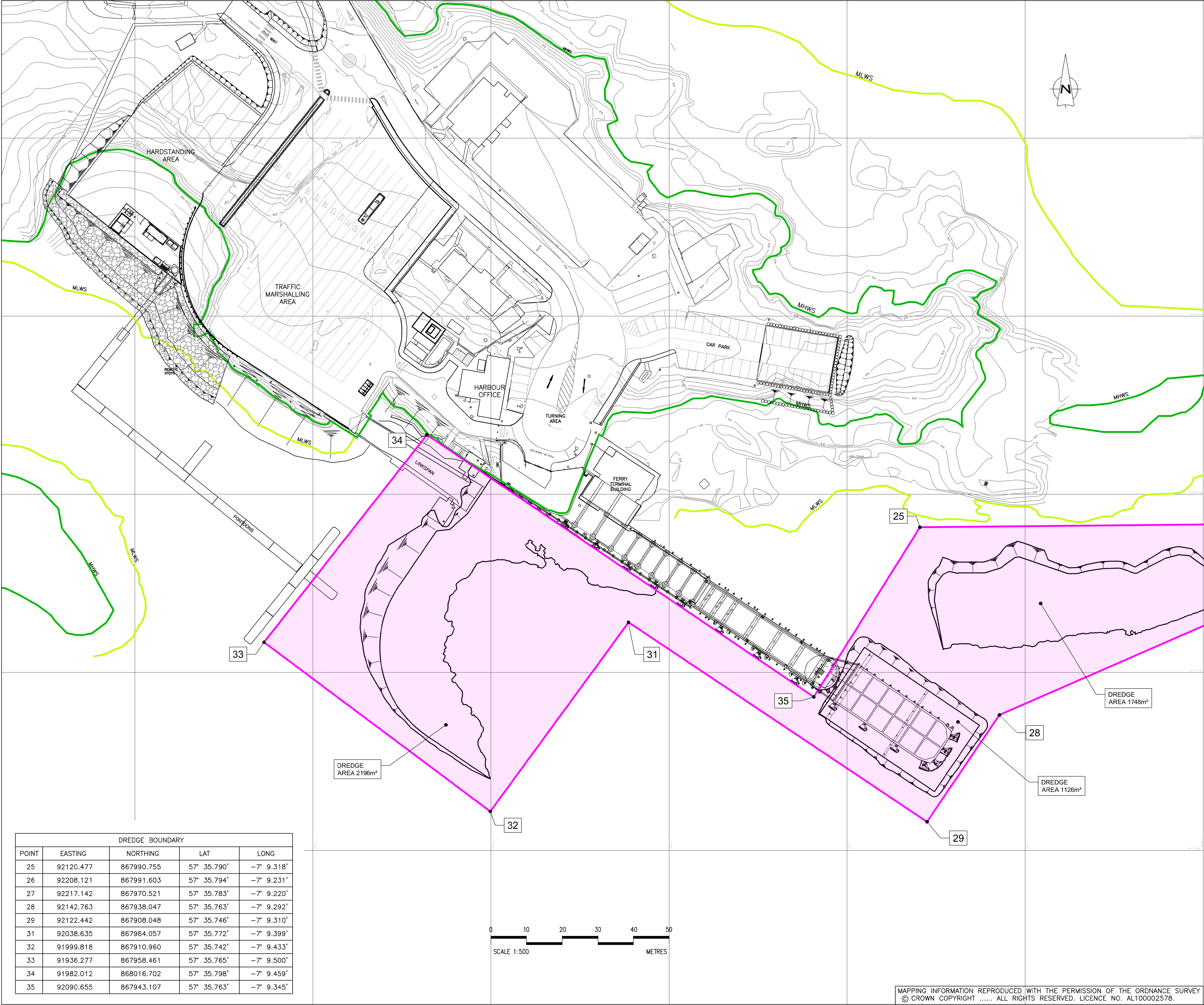
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14. Consultation

List all bodies you have consulted and provide copies of correspondence:

15. Associated Works

Provide details of other related marine projects, including reference/licence numbers (if applicable):



GENERAL NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.

2. ALL LEVELS ARE IN METRES AND RELATE TO CHART DATUM.

3. ORDNANCE DATUM IS 2.59m ABOVE CHART DATUM.

4. H.A.T. +5.6m LAT +0.1m

M.H.W.S. +4.8m M.L.W.S. +0.7m

M.H.W.N. +3.6m M.L.W.N. +1.9m

LEGEND

MHWS

MLWS

DREDGE BOUNDARY

TOTAL AREA 12,216m²

A

11.03.19

MINOR AMENDMENS

JHG

TR

TR

REV

DATE

DETAILS

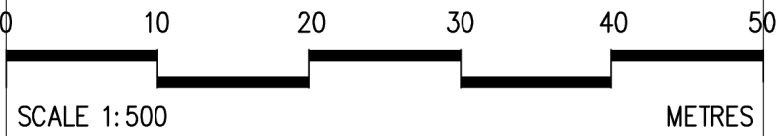
DRAWN

CHK'D

APP'D

AMENDMENTS

DREDGE BOUNDARY				
POINT	EASTING	NORTHING	LAT	LONG
25	92120.477	867990.755	57° 35.790'	-7° 9.318'
26	92208.121	867991.603	57° 35.794'	-7° 9.231'
27	92217.142	867970.521	57° 35.783'	-7° 9.220'
28	92142.763	867938.047	57° 35.763'	-7° 9.292'
29	92122.442	867908.048	57° 35.746'	-7° 9.310'
31	92038.635	867964.057	57° 35.772'	-7° 9.399'
32	91999.818	867910.960	57° 35.742'	-7° 9.433'
33	91936.277	867958.461	57° 35.765'	-7° 9.500'
34	91982.012	868016.702	57° 35.798'	-7° 9.459'
35	92090.655	867943.107	57° 35.763'	-7° 9.345'



MAPPING INFORMATION REPRODUCED WITH THE PERMISSION OF THE ORDNANCE SURVEY
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CLIENT

Comhairle nan Eilean Siar

PROJECT

LOCHMADDY FERRY TERMINAL
UPGRADE WORKS

Wallace Stone

CONSULTING CIVIL ENGINEERS

GLASGOW 0141 554 8233
glasgow@wallacestone.co.uk

DINGWALL 01349 866775
dingwall@wallacestone.co.uk

HEBRIDES 01851 612454
hebrides@wallacestone.co.uk

DRAWING TITLE

DREDGE CONSENT

DRAWN JHG

CHECKED TR

APPROVED TR

DATE 06.03.19

DATE 08.03.19

DATE 08.03.19

SCALE (A1) 1:500

STAGE

CONSENT

REVISION

A

PROJECT No.

1975

DRAWING No.

937



Lochmaddy Ferry Terminal Upgrade

Hard Dredge & Plough Dredge Licence Application – Appendix 01



Date: 22/05/2023



Lochmaddy Harbour Boundary

In accordance with the Comhairle nan Eilean Siar (various Harbours) Harbour Revision Order 2002, the Lochmaddy Harbour includes the area at Lochmaddy enclosed on its seaward sides by imaginary straight lines:

- a) from a point at the southern tip of Rubha nam Baraillean (latitude 57° 36' 03" north, longitude 007° 09' 22" west) to a point on the western tip of Eilean Phail (latitude 57° 36' 04" north, longitude 007° 09' 20" west);
- b) from the eastern tip of Eilean Phail (latitude 57° 36' 03" north, longitude 007° 08' 56" west) to the southern tip of Haamersay (latitude 57° 36' 08" north, longitude 007° 08' 04" west);
- c) from the eastern tip of Haamersay (latitude 57° 36' 10" north, longitude 007° 07' 09" west) to the southern tip of Flodday (latitude 57° 36' 26" north, longitude 007° 07' 09" west);
- d) from the southern tip of Flodday (latitude 57° 36' 26" north, longitude 007° 07' 09" west) to Weavers Point (latitude 57° 36' 28" north, longitude 007° 07' 09" west);
- e) from Weavers Point (latitude 57° 36' 28" north, longitude 007° 07' 09" west) to Leacnam Madadh (latitude 57° 35' 39" north, longitude 007° 06' 00" west);
- f) from Rubha Mor (latitude 57° 35' 30" north, longitude 007° 08' 33" west) to the eastern tip of Vallaquie Island (latitude 57° 35' 28" north, longitude 007° 09' 09" west);
- g) from the northern tip of Vallaquie Island (latitude 57° 35' 33" north, longitude 007° 09' 20" west) to the southern tip of Cam-ard-Mor (latitude 57° 35' 34" north, longitude 007° 09' 21" west);
- h) from the northern tip of Cam-ard-Mor (latitude 57° 35' 41" north, longitude 007° 09' 49" west) to the south of Eilean Leiravay (latitude 57° 35' 41" north, longitude 007° 09' 49" west);
- i) from the north of Eilean Leiravay (latitude 57° 35' 47" north, longitude 007° 10' 01" west) to the southern tip of Scaalan (latitude 57° 35' 48" north, longitude 007° 10' 01" west);
- j) from the north of Scaalan (latitude 57° 35' 36" north, longitude 007° 10' 06" west) to a point west of Lochmaddy pier (latitude 57° 35' 57" north, longitude 007° 10' 05" west); and
- k) on its landward side by the level of low water within the area so enclosed.

In addition, it includes the areas of land which were in active use as part of the harbour which the Harbour Revision Order was granted in 2002.



Plough Dredge Method Statement

It is proposed the area will be dredged using a plough, which will be lowered to a depth of -5m CD using winch wires from a workboat. The workboat will then pull the plough over the required dredge area to redistribute high spots of material to lower areas and level out the dredge area to the required depth of -5m CD.

These works are estimated to be completed within two weeks of commencement, taking into consideration for the potential of further weather-related delays/unsuitable conditions for marine plant/time of the year.

Plough Dredge Environmental Considerations

The Lochmaddy Ferry Terminal upgrade project required both a construction and capital dredge licence. Due to the scale of the development and potential to cause changes in coastal process it fell under The Marine Works (Environmental Impact Assessment)(Scotland) Regulations 2017. The EIA (Affric Limited, 2019) was submitted in support of the licence applications. The original dredge and disposal licence (licence ref: 07001/19/0) for the removal of soft sediments and rock was granted on the 1st of November 2019 with a period of validity up until the 31st of December 2021. Due to the principal contractor going into liquidation and the Covid-19 global pandemic, an extension to the dredge and disposal licence was sought and awarded on the 20th of December 2021. The licence (new licence ref: MS-00009575) was only extended for one year due to sampling guidelines, and therefore was valid until the 31st of December 2022. The bulk sediment has been removed and disposed of to the Stornoway Deposit Site (HE035) under that licence.

Due to unforeseen circumstances and poor weather preventing marine plant from operating, the project is behind programme. The required rock dredge has not been completed and a new dredge licence application has been submitted for that. Bathymetric surveys have shown that there are 'high spots' of sediment in the dredge area which need to be removed to achieve a consistent depth of -5m Chart Datum (CD).

It is understood that, under part 5.5 of the OSPAR Guidelines for the Management of Dredged Material at Sea (Agreement 2014-06), it needs to be proven that dredged material meet national assessment criteria, by way of sampling, at least every three years. As more than 3 years has elapsed since dredge samples/analysis were provided alongside the original marine licence application, new sampling analysis as per the Marine Scotland guidance has been undertaken.

It is recognised that this dredge licence application, although for minor works could be considered to be an extension to an EIA project under schedule 2 of the aforementioned EIA regulations. The hard dredge was considered in the EIA, and therefore there and no new or additional significant environmental effects as a result of carrying out this activity at a later date. The proposed plough dredge does not exceed the thresholds or criteria in Column 2 of Schedule 2 under The Marine Works (Environmental Impact Assessment) (Scotland) Regulations 2017 and will not have significant adverse effects on the environment, as demonstrated in Table 1.



Noting that plough dredging as a technique was not considered within the EIA. Table 1 considers each of the EIA topics in turn.

Table 1: EIA Topics and Potential Effects

EIAR Chapter	Topic	Potential Effects of Changes	
		Effects	Construction Phase Comments
Chapter 6	Marine Mammals	No Change	There will be no change from the EIA with regards to impacts on marine mammals as a result of the plough dredge. There will only be one vessel working along the side of the pier and close to shore, hence highly unlikely to interact with marine mammals.
Chapter 7	Benthic Ecology	No Change	The plough dredge is taking place within the original dredge licence boundary and therefore the impacts have been assessed within the EIA. Furthermore, the area has recently been dredged under MS-00009575.
Chapter 8	Fish Ecology	No Change	The proposed plough dredge will not impact the conclusions of the EIA regarding Fish Ecology, therefore there is no change of effects.
Chapter 9	[Redacted]		
Chapter 10	Noise & Vibration (In-Air)	No Change	The noise associated with the plough dredge is limited to vessel movements, which were assessed within the EIA and will not give rise to any new noise impacts, hence, there is no change.
Chapter 11	Noise & Vibration (Underwater)	No Change	The plough dredge does not give rise to significant underwater noise and therefore will not give rise to any further effects.
Chapter 12	Traffic, Access and Navigation	No Change	There will be no additional vehicle movements on land as a result of the plough dredge. As the plough dredge does not result in a deposit to HE035 and will be completed around the ferry operations, there will also be no navigational effects. Dredge vessel movements within the harbour area have already been assessed within the EIA.
Chapter 13	Water Quality & Coastal Processes.	Minimal Change (Reduction)	The plough dredge will give rise to less sedimentation than backhoe dredging as the material is not being lifted through the water column. Hence it will have a lower impact than the methods assessed in the EIA.

Relevant mitigation in the CEMD will be implemented during the plough dredge. In summary, there are no new significant environmental effects as a result of the proposed plough dredge, therefore, no update to the EIA is required.

Hard Dredge Method Statement

The bedrock will be cut by a breaker attached to a longreach excavator, operating from either the pier or a floating barge. Once the rock has been cut, the resultant boulders will be removed by the longreach excavator and bucket. The rock will be stored temporarily in small quantities on site, before being placed inside the concrete caisson.



These works are estimated to be completed within 2 months of commencement, taking into consideration for the potential of further weather-related delays/unsuitable conditions for marine plant/time of the year.

Hard Dredge Environmental Considerations

Environmental impacts of rock removal were considered as part of the Environmental Impact Assessment, with mitigation the impacts were deemed non-significant. Rock breaking will give rise to underwater noise which can cause localised disturbance of marine mammals and basking sharks. No sedimentation issues are expected from the removal of hard substrates.

Rock Breaking Marine Mammal and Basking Shark protocol as per Section 11.2.4.2 of the Lochmaddy Ferry Terminal Construction Environmental Management Document (CEMD) Issue 4 (Affric, 2022), this has been developed to mitigate underwater noise impacts on marine mammals and basking sharks. The CEMD has been approved by Marine Scotland in line with the construction licence conditions (MS-00009574). The following excerpt is from Section 11.2.4.2 of the CEMD:

'To minimise the amount of disturbance caused by rock breaking, works will be implemented into the programme effectively to minimise their duration. To minimise the risk of injury to all marine mammals and basking shark from rock breaking activities, a 50m mitigation zone will be established around the mechanical breaker. Construction Operators will be briefed to check for marine mammals and basking shark within 50m of the rock breaker prior to works commencing. In instances where individuals are identified within 50m of the works prior to works commencing, rock breaking activities shall not commence. When individuals have moved further than 50m away from the works, works will be allowed to begin. In addition, Construction Operators will be required to continue to observe for marine mammals and basking shark within 50m of the work during all rock breaking activities. In instances where individuals are identified within 50m of the works during rock breaking activities, the works will be required to cease immediately. Works will not be allowed to recommence until individuals have moved further than 50m away from the works.'

Note that EPS licences for cetaceans (EPS/BS-00009852) and basking sharks (EPS/BS-00009853) were awarded on the 6th of August 2021 and last until 31st of March 2023, an application to extend these will be applied for to cover rock cutting below MHWS undertaken after this date.

[Redacted]

References

Affric Limited. 2022. Lochmaddy Ferry Terminal Construction Environmental Management Document Issue 4

Affric Limited. 2019. Lochmaddy Ferry Terminal Upgrade Environmental Impact Assessment Report Volume 2