

Deposit of Solid Waste (e.g. Dredged Material) in the Territorial Sea and Controlled Waters Adjacent to Northern Ireland

Marine Licensing

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 Marine Licensing Guidance document. However it may be that these notes do not fully cover all the questions that you may have. If further clarification is needed please telephone us on

02890 569247 or email

MarineLicensingTeam@daera-ni.gov.uk

For fees categories please see Marine Licensing Fees Addendum

For further Guidance please refer to Marine Licensing Guidance for Applicants

EXPLANATORY NOTES

2. Applicant

The person, company or organisation making the application. (The licensee will be the contractor actually carrying out the disposal activity).

3. Agent

Any person, company or organisation involved in the operations. For example, they may be engaged to act under contract or other agreement on behalf of any party listed in the answer to questions 2-4 and having responsibility for the control, management or deposit anywhere below the tidal limit of mean high water springs (MHWS). (e.g. a consultant submitting the application.)

4. Details of Current/Previous Licence

Enter the appropriate details for the current sea disposal licence. If you have previously held a licence in respect of this operation, but no current licence exists, please provide the

details for the most recently expired licence. If you have no knowledge of any previous licence, please enter “not applicable” (or “N/A”).

5. Duration of Sea Disposal Operation

Details of the proposed commencement and completion dates of the operation should be included. A licence will normally be valid for 12 months.

6. Details of Disposal Vessel(s)

The name, operator and type of vessel being used for the disposal operation 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 included within a licence.

7. Method Statement

Please include a full method statement of the disposal operation. This should include details of proposed frequency of disposal trips per day, average estimated time from dredge site to licensed sea disposal site.

8. Description of Material for Sea Disposal

The applicant should indicate the following:

- Amount of material to be disposed of in metric tonnes. A conversion factor of 1.4 tonnes/m³ should be used for maintenance dredge and capital dredge material.
- Type of Material: whether the material is considered to be ‘capital’ or ‘maintenance’
 - Capital: material from an area to be dredged down to a level not previously dredged during the preceding 10 years.
 - Maintenance: unconsolidated material which has been removed to maintain existing charted depths for navigational purposes.
- Nature of Material. Please provide a description of where the dredge material has originated, e.g. river bed, sea, harbour, approach channel, estuary.
- Description of where the dredged material has originated (Lat/Long, depth of material removed, date last dredged)

9. Chemical Analysis of Material to be Disposed of at Sea

Please indicate whether material from the localised area has been chemically analysed within the past 3 years, if yes provide details (locations, dates and laboratory that carried out the analysis). Please provide results on separate sheets. Please note

that any delay in providing analysis results is liable to extend the time required to consider your application.

If the material has not been chemically analysed within the previous 3 years, contact should be made with Department of Agriculture, Environment and Rural Affairs (DAERA) Marine and Fisheries Division. Marine and Fisheries Division will provide details of number of samples to be lifted, sample points and depth of samples. Analysis requirements attached as Appendix I.

10. Construction/Land Reclamation Projects

Please indicate in the answer to this question if the deposit of dredgings is associated with any other project involving the placement of material in the sea (e.g. beach nourishment, marine/harbour construction operations, land reclamation, installation of outfalls etc.) If this is the case, please indicate if a separate Marine Construction/Land Reclamation/Beach Replenishment licence application has been made.

11. Best Practicable Environmental Option (BPEO)

Please give a very brief summary of the conclusions drawn in the BPEO assessment. Please note that sea disposal licence applications will not be considered unless they are accompanied by such an assessment. All options in the BPEO should be explored fully (as per the guidance document), otherwise your application form and BPEO may be returned to you thereby delaying the processing of the application. See Appendix II for BPEO Assessment and guidance.

12. Consultation with Conservation Bodies

Consenting authorities have a duty to ensure that any operations will not have a significant adverse environmental impact, particularly upon designated conservation areas (e.g. Areas of Special Scientific Interest (ASSIs)/Special Area of Conservation (SAC), Special Protection Area (SPA)/RAMSAR sites etc) listed under The Conservation (Natural Habitats, etc.) (Amendment) Regulations (Northern Ireland) 2007. If the applicant (particularly if they have statutory powers for consenting aspects of these works) has already been in consultation with the appropriate nature conservation body – NIEA, Natural Environment Division, please supply any response that they may have given.

13. Designated Conservation Areas

Indicate whether the proposed works are located within or close to the boundaries of a conservation area such as an ASSI, SAC, SPA or Ramsar Site.

14. 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 sea disposal operations. This is particularly likely to apply to harbour or local authorities.

15. Environmental Assessment

Please indicate whether any environmental assessment has been carried out in respect of the proposed sea disposal operations, 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 box provided.

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

16. Sea Disposal Site

The details of the licensed sea disposal site to be used will be communicated to the licensee by DAERA Marine and Fisheries Division in the sea disposal licence.

Should you wish to establish a new site, please provide details in a covering letter with your application and DAERA Marine and Fisheries Division will contact you to discuss your proposal before your application is determined. It must be noted that an application to open a new sea disposal site will not be considered unless sufficient need and reasoning are established for such. It will be preferable on all occasions that an open existing site is used. The cost of any environmental investigations from baseline surveys to identify any new disposal site will normally be the responsibility of the applicant.

Other Considerations

Please ensure that you have:

- Completed **all** appropriate sections of the application form
- Signed and dated the declaration
- Provided the relevant documentation, charts and continuation sheets and Enclosed the correct payment (refer to fees addendum) or paid by means of BACS (if appropriate)

Otherwise your application will be delayed or returned to you.

Marine and Coastal Access Act 2009 (Part 4 Marine Licensing)

Application to deposit Solid Waste (e.g. Dredged Material) in the Territorial Sea and UK Controlled Waters Adjacent to Northern Ireland
(e.g. from dredging operations.)

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

Under Part 4 (Chapter 5) of the Marine and Coastal Access Act 2009, information contained within or provided in support of this application will be placed on the public register unless DAERA Marine and Fisheries Division (as the licensing authority) approves the applicant's reasons for withholding all or part thereof.

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:

- | | | | | |
|--|-----|--------------------------|----|-------------------------------------|
| 2. would be contrary to the interests of national security | Yes | <input type="checkbox"/> | No | <input checked="" type="checkbox"/> |
| 3. would prejudice to an unreasonable degree your or some other person's commercial interests or those of a third party? | Yes | <input type="checkbox"/> | No | <input checked="" type="checkbox"/> |

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.

1. Project Title

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

The Mid and East Antrim Borough Council Carrickfergus Harbour and Marina maintenance dredging application.

2. Applicant Details

Title (e.g. Mr/Mrs Miss/Dr) Initials Surname

Trading title (if appropriate)

Mid and East Antrim Borough Council

Address: (Inc Postcode)

Carrickfergus Museum and Civic Centre
11 Antrim Street
Carrickfergus
BT38 7DG

Name of contact:
(if different from above)

Colin Morrison

Telephone number:
(inc. code)

[REDACTED]

Email address:

[REDACTED]@midandeantrim.gov.uk

Company Registration number

[REDACTED]

3. Agent Details (if appropriate)

Title (e.g. Mr/Mrs Miss/Dr) Initials Surname

Trading Title (If different from above)

Business Address:

Name of contact: (if different from above)

Position within company (if appropriate)

Telephone number: (inc. code)

Email address:

Company Registration No.

4. Details of Current/Previous Licence

Licence Reference Number

ML 25/14 – A variation 1 (previously ML 25/13 – A)

Expiry Date

28/10/2014

Quantity (metric tonnes) deposited under current licence as at (date)

Maximum of 39,000 metric tonnes

5. Duration of Sea Disposal Operation

When is the sea disposal operation proposed to commence?

October 1st 2021

When is the sea disposal operation proposed to be completed?

September 30th
2022

6. Details of Disposal Vessel(s)

Name of Vessel and Operator (if known)

Subject to Tender Award

Type of Vessel

(e.g. Bottom Doors/Split Hopper)

Subject to Tender Award

7. Method Statement for disposal operation

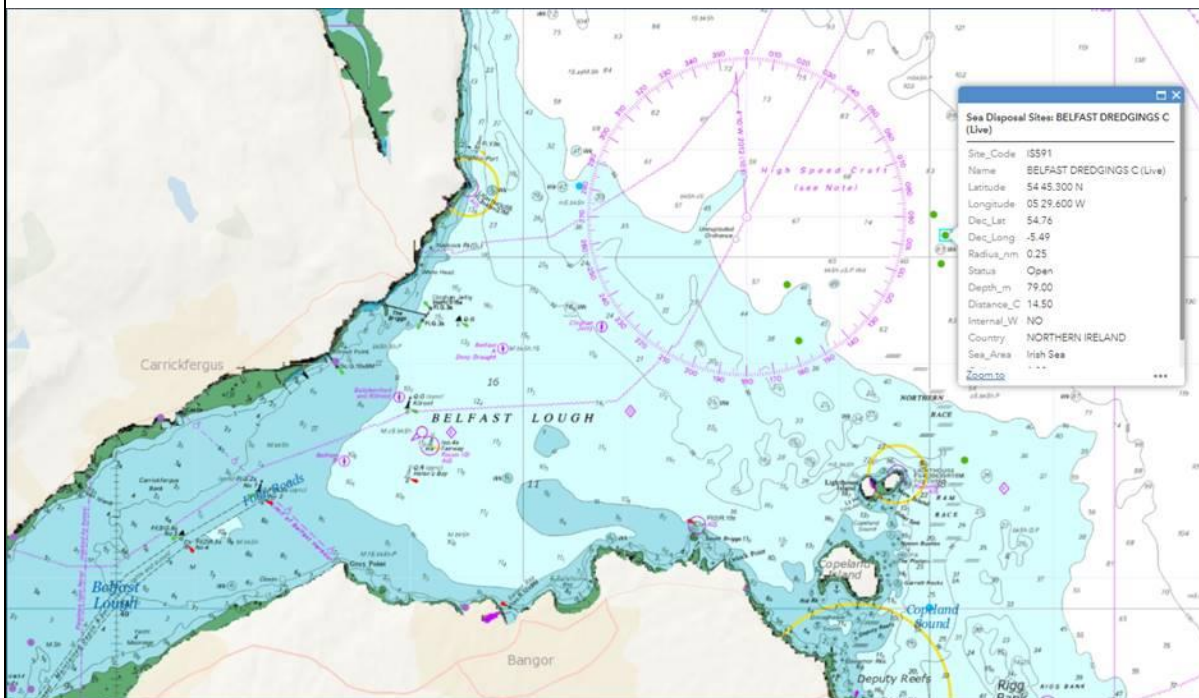
Subject to Tender Award

The works will likely be completed by a backhoe dredger with disposal by a conventional dump barge with bottom opening doors.

Backhoe dredging involves dredging by mechanical means from a stationary platform and loading to attendant barges.

In Carrickfergus Marina, we propose that individual fairways should be allocated to the dredging contractor on a sequential basis and that each fairway should be cleared of vessels, have fenders removed and be prepared at least a few days ahead of the staged arrival of the dredger. In this way there should be dredging work ongoing in one fairway with final boat removal occurring concurrently in the next fairway. Once each fairway has dredging completed, we envisage that boats from further fairways may be stacked temporarily into those areas already completed.

It is expected that the disposal site, “Belfast Dredgings C”, will be used for the disposal operations. Its location is shown below.



Belfast Dredgings C Disposal Site

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

8. Description of Material for Sea Disposal

Type of Material (delete as appropriate)

Maintenance

Amount of Material to be deposited (metric tonnes)

Site	Dredge Volume to defined navigable level in last survey (m ³)	Nominal overdredge allowance (circa 0.2m depth over dredge footprint) (m ³)	Anticipated siltation volume accumulated since last survey (m ³)	Dredge Volume in ML application for sea disposal (m ³)
Carrickfergus Marina	5,795	6,000	2,900	14,695
Carrickfergus Harbour	9,057	3,300	1,500	13,857
			Total	28,552 m³
			Total at 1.4t/m³	39,972 tonnes

Nature of Material i.e. River Bed, Sea Harbour, Approach Channel, Estuary

Sea Harbours and Marinas

Description of area from where dredge material has originated

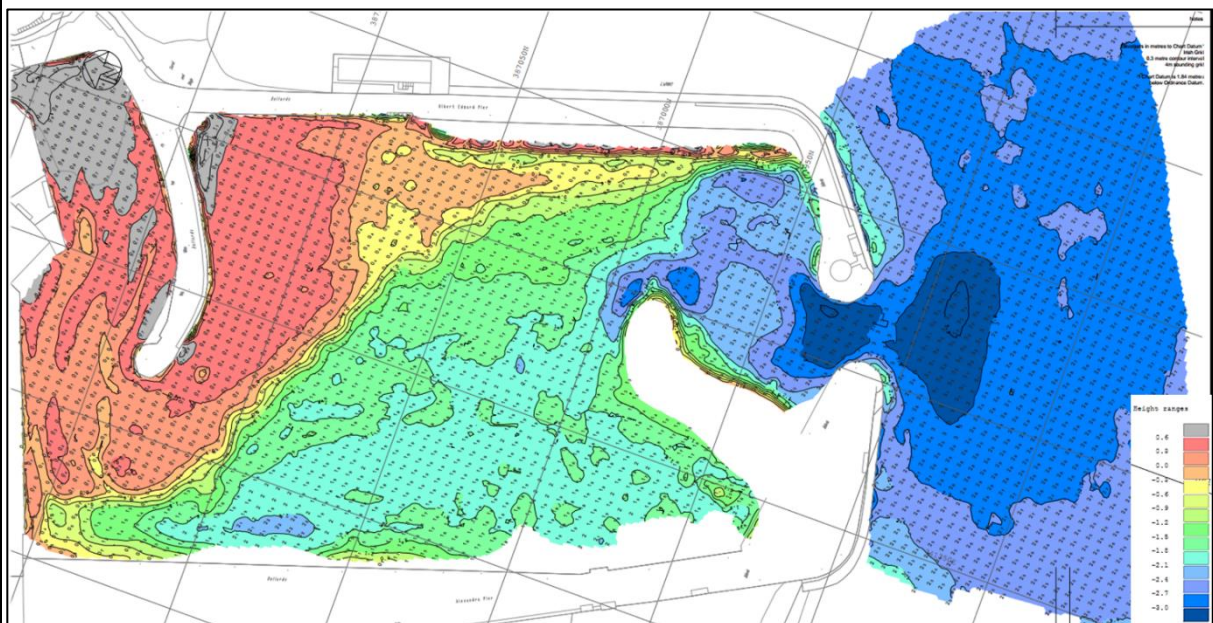
Carrickfergus Marina can accommodate approx. 300 boats in pontoon berths for leisure purposes at lengths ranging from 5-16m. The entrance to Carrickfergus Marina is situated at the south-eastern end of the basin. Carrickfergus Harbour which was constructed in 1127, also has an inner harbour area accommodating up to 36 boats. The harbour entrance is open to the south. The overburden strata are composed primarily of stiff to very stiff gravelly silty clay overlaid by soft silt strata.

At both the harbour and marina, the areas to be dredged are similar to those conducted in 2015, and will only consist of the top layer of silty sediment that has accreted since the last dredging activity.

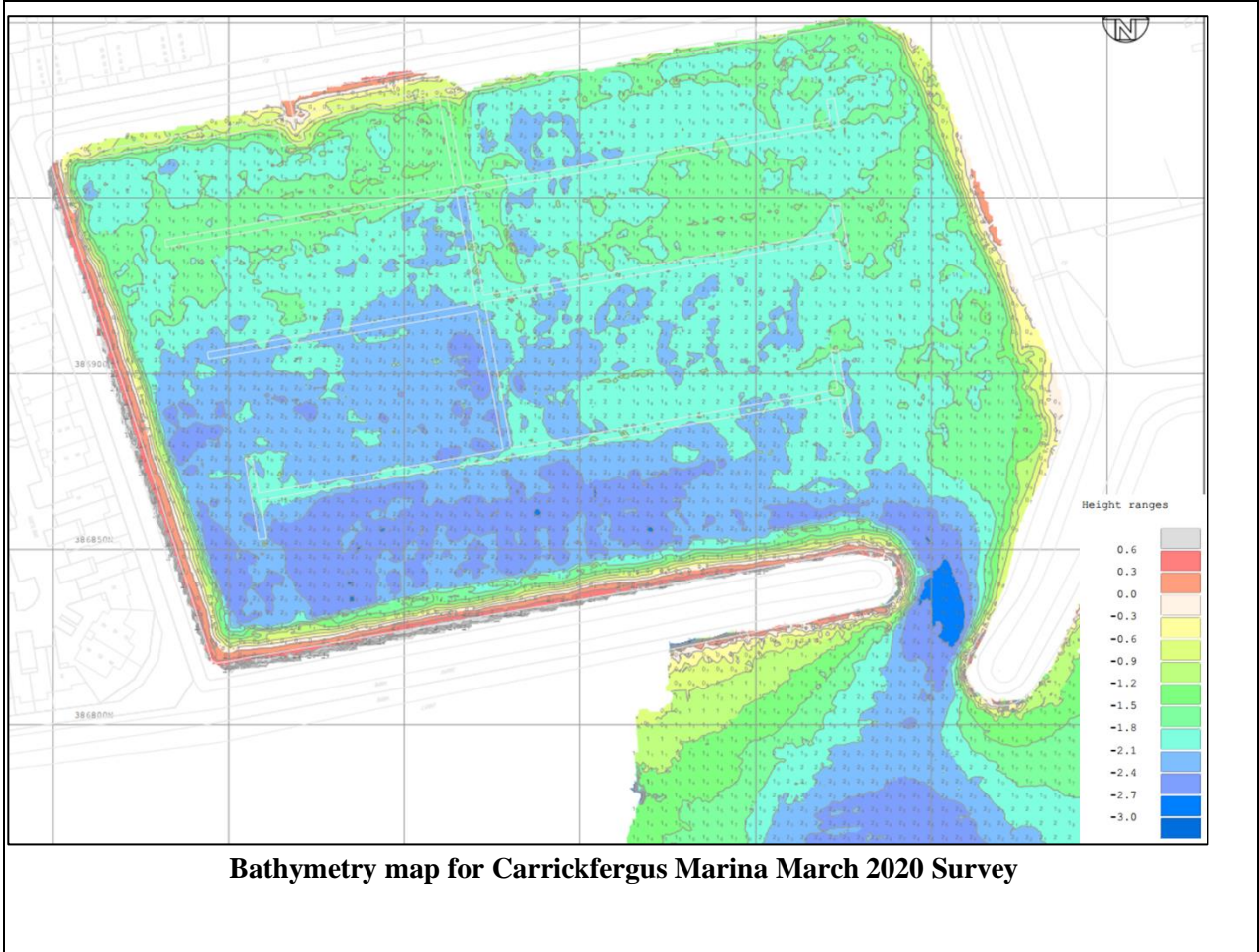
Bathymetry

The bathymetric surveys were conducted annually in order to provide up-to-date seabed levels for each site. The most recent bathymetric survey was carried out at both the CM and CH sites in March 2020 by Six West. The latest bathymetric survey drawings are shown in Bathymetry map for Carrickfergus Harbour March 2020 Survey **Error! Reference source not found.** and **Error! Reference source not found.**

The water depth in Carrickfergus Marina and Carrickfergus Harbour generally ranges from 0 to -3m CD.



Bathymetry map for Carrickfergus Harbour March 2020 Survey



Co-ordinates (Lat/Long) or (IGR)

Site co-ordinates to IGR have been presented on the appended dredge drawing 21034-GDG-ZZ-XX-DR-C-0006_FI-00_DREDGING LOCATION PLAN and 21034-GDG-ZZ-XX-DR-C-0007_FI-00_DREDGING LOCATION PLAN.

Depth of Material to be Removed (m) **Typically up to 0.5m to 1m depth.**

****Area to be dredged included in appended documents.**

Date Last Dredged **2015**

9. Chemical Analysis of Material

Has the material to be disposed of at sea been chemically analysed in the previous 3 years? (delete as appropriate) **Yes**

** If Yes please provide the details below.

Given the last dredging works were completed at Carrickfergus Marina and Carrickfergus Harbour in 2015, it is considered that the proposed dredging works are maintenance in nature, i.e. that they are to remove siltation that has built up in the harbours for the purposes of maintaining navigable depths for shipping. It was therefore concluded that it was appropriate to initially test for the presence of contamination in the uppermost silts, given that dredge depths would be limited generally to not deeper than historical dredge levels. Based on the requirement to sample and test 3nr samples for volumes up to 25,000 m³ at each site, a total of 6nr tests were sent for the DAERA contamination testing suite in November 2020.

Location of sampling for analysis

Carrickfergus Harbour			
Name	Easting	Northing	Sample Elevation (m CD)
CH-BH-08	341408.6668	387016.9667	-1.39 to -2.39
CH-SS-03	341291.5704	387075.6935	-2.07
CH-SS-09	341344.4747	386943.8335	-1.85
**See appended map drawing: 21034-GDG-ZZ-XX-DR-C-0002_SAMPLE LOCATION PLAN			
Carrickfergus Marina			
Name	Easting	Northing	Sample Elevation (m CD)
CM-BH-01	341082.5833	386983.1370	-1.44 to -1.94
CM-BH-05	341100.3836	386882.3919	-1.80 to -2.80
CM-SS-01	340937.2516	386962.5918	-1.63
**See appended map drawing: 21034-GDG-ZZ-XX-DR-C-0003_SAMPLE LOCATION PLAN			

Date analysis carried out

Carrickfergus Harbour: 21/10/2020
 Carrickfergus Marina: 23/10/2020

LaboratorySocotec for Causeway Geotech....

*** Please attach results to this application*

Sample ID	Sample Date	Carrickfergus Harbour			Carrickfergus Marina				
		CH-SS-03	CH-SS-09	CH-BH-08	CM-SS-01	CM-BH-01	CM-BH-05		
		Guidance: Dredging, Disposal and Aggregate Dredging, under Part 4 of the Marine and Coastal Access Act							
		Action Level 1	Action Level 2						
Arsenic	mg/kg	20	50 - 100	21.2	21.4	18.4	21.1	19.9	17.8
Cadmium	mg/kg	0.4	5	0.8	0.3	2.4	0.6	0.5	0.5
Chromium	mg/kg	40	400	89.4	89.1	131	87.6	87.2	87.3
Copper	mg/kg	40	400	42.2	108	39.3	50.1	34.1	30
Lead	mg/kg	50	500	105	95.7	66.3	79.8	104	89.2
Manganese	mg/kg	-	-	577	551	537	517	529	494
Mercury	mg/kg	0.3	3	0.1	0.13	0.23	0.13	0.09	0.07
Nickel	mg/kg	20	200	49.7	49.8	55.5	49.6	47.2	48.1
Zinc	mg/kg	130	800	195	228	1330	201	155	155
Aluminium	mg/kg	-	-	53700	51400	43600	45700	49400	48000
Lithium	mg/kg	-	-	63.9	59.3	46.4	49.5	59.8	59.1
Dibutyltin (DBT)	ug/kg			45.3	55	6.82	<5	<5	<5
Tributyltin (TBT)	ug/kg	100	1000	51.9	373	<5	<5	<5	<5
Acenaphthene	ug/kg			18.2	9.63	10.1	8.38	4.28	4.6
Acenaphthylene	ug/kg			12.4	8.19	7.59	9.42	4.97	5.12
Anthracene	ug/kg			41.4	20	25.7	21.5	9.37	11.9
Benzo (a) anthracene	ug/kg			117	63.3	79.8	60.5	30.3	43.1
Benzo (a) pyrene	ug/kg			145	84.5	93.2	76.5	42.2	52.2
Benzo (b) fluoranthene	ug/kg			158	125	115	79.6	55.1	64
Benzo (ghi) perylene	ug/kg			130	113	10.7	93.6	53.5	58
Benzo (k) fluoranthene	ug/kg			82.6	53.1	58.2	48.9	26.3	26.3
Chrysene	ug/kg			131	81.7	89.7	77.8	38.3	49.4
Dibenz (a,h) anthracene	ug/kg			26.4	23.3	21	20	11.5	12.6
Fluoranthene	ug/kg			200	111	137	102	49.7	70.4
Fluorene	ug/kg			32.4	21.7	20	21.8	10.1	10.5
Indeno (1,2,3-cd) pyrene	ug/kg			140	121	107	100	56	57.6
Naphthalene	ug/kg			44.8	43	33.2	34.5	18.4	21
Phenanthrene	ug/kg			148	95.3	78.2	85.7	38	45.9
Pyrene	ug/kg			212	111	134	103	54.4	69.4
PAH 16 Total	ug/kg	100,000	-	1639.2	1084.72	1020.39	943.2	502.42	602.02
PCB28	ug/kg			0.43	0.59	0.29	0.24	0.24	1.3
PCB52	ug/kg			0.46	0.84	0.23	0.3	0.22	2.84
PCB101	ug/kg			0.68	1.51	0.33	0.42	0.3	4.58
PCB118	ug/kg			0.7	1.21	0.4	0.41	0.37	3.99
PCB138	ug/kg			1.05	2.1	0.63	0.58	0.6	6.89
PCB153	ug/kg			1.07	1.89	0.94	0.67	0.53	8.59
PCB180	ug/kg			0.49	0.7	0.42	0.2	0.25	5.7
PCB (Σ ICES 7)	ug/kg	20	200	4.88	8.84	3.24	2.82	2.51	33.89

Test results of chemical analysis from Carrickfergus Harbour and Marina.

10. Construction/Land Reclamation Projects

Do you intend to apply for, or have applied for a marine construction licence as part of the works? (e.g. harbour works, land reclamation, installation of outfalls etc.)

Yes

No

If Yes, please indicate the location of the proposed works and a give a brief description below.

11. Best Practicable Environmental Option (BPEO)

BPEO Assessment Summary

**** BPEO Technical Note, reference 21034-TN-001-00**

12. Consultation with Conservation Bodies

Please provide details of any consultation that has taken place with Natural Environment Division (NED) of NIEA, and if appropriate include copies of any correspondence with your application.

13. Designated Conservation Areas

Are any parts of the sea disposal operations located within the boundaries of a designated conservation area?

Yes No

If **No**, and the boundary of the nearest such site is within 5 kilometres, please indicate approximate distance of the disposal operation from this boundary.

kms

14. Statutory Consenting Powers

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

Yes No

If **Yes**, please give details

15. Environmental Assessment

Has an environmental assessment been undertaken to support any application in respect of the works, your own statutory powers (if applicable) or any other reason?

Yes No

If **Yes**, is a copy of the assessment included with this application?

Yes No

If the assessment has been undertaken but has not been included with the application, please provide an explanation below.

Is the environmental assessment available for public inspection?

Yes

No

If **Yes** at what locations:

****See HRA submitted along with this application, reference 603065 – REV00**

16. Sea Disposal Site

If you wish to establish a new sea disposal site please indicate here, and Marine Licence will contact you. Otherwise you will be informed of which site should be used and its coordinates.

I wish to establish a new sea disposal site

Yes

No

Declaration

I declare that the information given in this form and related papers is to the best of my knowledge and belief 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 of applicant:
(or agent acting on behalf of applicant)


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Date:

04/03/2021

Name (Block Letters):

Colin Morrison

Position within company:
(if applicable)

Project Development Officer

PLEASE CHECK CAREFULLY THE INFORMATION YOU HAVE GIVEN AND THAT ALL ENCLOSURES (INCLUDING COPIES) HAVE BEEN INCLUDED