



## **Best Practicable Environmental Option Assessment**

### **Aberdeen South Harbour Maintenance Dredging**

**May 2022**

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## Appendices

- Appendix A 2022 sediment sampling results  
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## Document history

| Version         | Date          | Notes   |
|-----------------|---------------|---|
| AHB-BPEO-ASH-R1 | 7 April 2022  | Draft issued for review                         |
| AHB-BPEO-ASH-R2 | 22 April 2022 | Final issue                                     |
| AHB-BPEO-ASH-R3 | 20 May 2022   | Section 2.2.2 updated following MS-LOT comments |

## 1. Introduction

Aberdeen Harbour is the major port serving the North-East of Scotland. There are approximately 8,000 vessel arrivals and 5 million tonnes of cargo handled each year, with the harbour supporting 10,000 full time equivalent jobs. It is also the mainland port for the lifeline service to the Northern Isles and as well as general cargo and passengers. Aberdeen is the largest support harbour for the North Sea Energy Industry.

As a statutory harbour authority, Aberdeen Harbour Board (AHB) is required to carry out maintenance dredging of navigation channels and berths to maintain safe navigable depths and support customers' business needs. The Aberdeen Harbour Revision Order 2016 gives AHB powers to dredge within its statutory harbour limits.

During 2017 – 2022, the Aberdeen South Harbour has been under construction in Nigg Bay. It will become an operational harbour in October 2022, and limited operations are likely to commence on the East Quay in June/July 2022.

This report presents the Best Practicable Environmental Option (BPEO) assessment for maintenance dredged material from Aberdeen South Harbour, to support an application to Marine Scotland – Licensing Operations Team (MS-LOT) to deposit dredged material at sea. This BPEO is specific to maintenance dredging and associated disposal in the South Harbour. From 2023, AHB intends to submit a single marine licence application for all dredging within Aberdeen Harbour.

BPEO assessment is a method for identifying the option that provides the *most environmental benefit* or *least environmental damage*. It assesses the performance of different options using a range of criteria such as environmental impact, technical feasibility and cost.

## 2. Description of dredging activity and dredged material

### 2.1. Dredging activity

Prior to the opening of Aberdeen South Harbour, a maintenance dredge is required to remove material that has accumulated since the capital dredging was completed in 2021, reinstating the depths of 10.5 m below Chart Datum (CD) at the East Quay and entrance channel, and 9.0 m below CD across the rest of the harbour. At the East Quay and entrance channel, material will be dredged using a trailer suction hopper or a backhoe. In the rest of the harbour, material will be ploughed from shallower areas into adjacent deeper water. *Figure 1* shows the dredge areas and volumes.

This BPEO considers the material to be dredged using a trailer suction hopper or a backhoe. For plough dredging, there is no 'disposal' so a BPEO is not required.



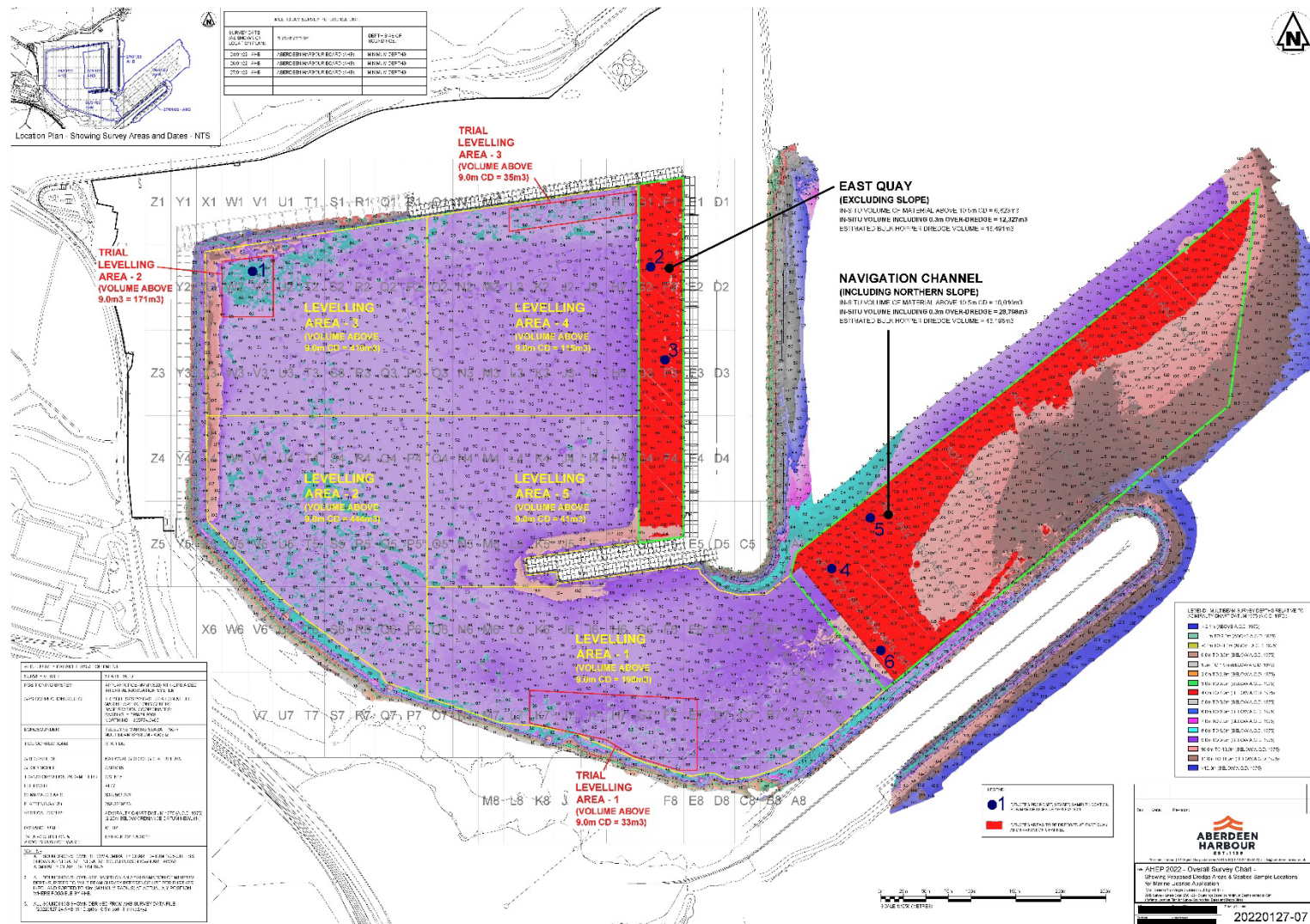


Figure 1 Areas to be dredged

## 2.2. Material to be dredged

### 2.2.1. Physical characteristics

In March 2022, six surface sediment samples were collected from the areas to be dredged as agreed with MS-LOT – sample locations are shown on *Figure 1*. Sample analysis reveals that the dredged material is predominantly silt (average 67%) with some sand (average 33%). Full sampling results are provided in Appendix A.

Sample 1 contains a significantly higher proportion of gravel than the other samples (68%) but as the volume to be dredged from this area is very small (less than 500 m<sup>3</sup>) and will be ploughed, it is not representative of the material to be ‘disposed’ so is excluded from the averages provided above.

### 2.2.2. Chemical characteristics

The chemical analysis of sediment samples has been compared to the Marine Scotland Revised Action Levels, which are used to determine the contaminant loading of the material and its suitability for deposition at sea. The full results are provided in Appendix A.

For heavy metals, there is one marginal exceedance of Action Level 1 for cadmium in sample 4, and minor exceedances of Action Level 1 for copper in samples 2 and 3, as shown in *Table 1*. In all cases Action Level 1 was only marginally exceeded. All other results were below Action Level 1. As shown in the ‘PR Details’ sheet in Appendix A, the average wet weight concentration from all six samples is below Action Level 1 for all heavy metals.

| Sample Number | Analysis results                        |                                       |
|---------------|---|---------------------------------------|
|               | Cadmium<br>[Action Level 1 = 0.4 mg/kg] | Copper<br>[Action Level 1 = 30 mg/kg] |
| AHB02         | <i>Below AL1</i>                        | 37.7 mg/kg                            |
| AHB03         | <i>Below AL1</i>                        | 34.2 mg/kg                            |
| AHB04         | 0.41 mg/kg                              | <i>Below AL1</i>                      |

*Table 1 Exceedences of Action Level 1 for heavy metals*

For polycyclic aromatic hydrocarbons (PAHs), there were minor exceedances of Action Level 1 in samples 2, 3 and 6. Total hydrocarbons exceeded Action Level 1 in four of the six samples. As shown in the ‘PR Details’ sheet in Appendix A, the average wet weight concentration from all six samples is below Action Level 1 for all PAHs, and only marginally exceeds Action Level 1 for total hydrocarbons.

There were no exceedances of Action Level 1 for organotins or polychlorinated biphenyls.

These sampling results are comparable to (and in many instances lower than) sampling results taken over many years to support maintenance dredging in the North Harbour and deposition at the sea deposit site Aberdeen CR110, including the most recent samples taken from the North Harbour in 2020. Material from the North Harbour has been consistently deemed by

MS-LOT to be suitable for deposition at sea, so the material from the South Harbour is therefore also deemed suitable for deposition at sea.

### 3. Scoping of potential options

This section describes potential options for the dredged material. Where an option is not considered feasible, the reason is given and it is not taken forward to the assessment stage. Options that are considered practicable are considered in detail in Section 4.

#### 3.1. Option 1: Landfill

The most common use of dredged material within landfill sites is as capping or restoration material. Material would need to be brought ashore within the port estate and dewatered before being transported to trucks and taken by road to a landfill site. Suitable land for drying lagoons is not available within the port estate.

There are no suitable landfill sites in the immediate vicinity of Aberdeen Harbour that could cope with a relatively large quantity of material on an annual basis. The closest operational landfill site to Aberdeen Harbour that is authorised by the Scottish Environment Protection Agency (SEPA) is Loch Hills Quarry in Dyce, approximately 15 km to the north by road from Aberdeen South Harbour (SEPA, 2022).

Existing landfill sites must cope with large volumes of domestic and industrial requirements, and marine dredgings on the present scale would place an intolerable burden on such sites. Dredged material is relatively inert by landfill standards, so disposal at a landfill site is not usually necessary or recommended unless it is significantly contaminated, which it is not in this case (see Section 2.2.2).

Transportation of material from the harbour to a landfill site would generate significant vehicle movements on local roads, contributing to traffic congestion and air and noise pollution.

This option has been discounted.

#### 3.2. Option 2: Deposition at sea

The dredged material meets the chemical requirements for deposition at sea (see Section 2.2.2).

Deposit sites in the marine environment are designated by MS-LOT. The closest licensed sea deposit site to Aberdeen Harbour is CR110 (Aberdeen), approximately 20 minutes' sailing time from the harbour. Dredged material from Aberdeen North Harbour has been deposited at this site for at least 80 years.

The nature of the dredged material and the proximity of a suitable licensed site makes deposition at sea a viable option, and it is explored in more detail in Section 4.

### *3.3. Option 3: Agriculture use*

The north-east of Scotland is a rural farming area with an abundance of good arable land and there is no known requirement for a supply of imported material. The dredged material would have to be de-watered and desalinated to make it suitable for soil conditioning or spreading, and no land is available within the port estate to locate a drying lagoon.

This option has been discounted.

### *3.4. Option 4: Use in land reclamation*

Dredged material can be suitable for land reclamation. The material grade and quality are critical: material suitable for reclamation is generally medium to coarse sands and gravel fractions, typically in large volumes. The material to be dredged from the South Harbour is predominantly silt with some sand (see Section 2.2.1) so is unlikely to be suitable for land reclamation.

Furthermore, no land reclamation projects have been identified within Aberdeen or the locality which require dredged material for land reclamation purposes. The construction of the South Harbour will be largely complete by the time the maintenance dredging is carried out (June 2022) and there will be no requirement for reclamation material.

This option is discounted for the 2022 marine licence application; however, it will be kept under review in future revisions of the BPEO should there be a local need that aligns with the timescale required for maintenance dredging.

### *3.5. Option 5: Use as construction material*

The saline content of the dredged material makes it unsuitable as a construction material. The grading and washing required coupled with the drying and storage challenges previously identified makes this option uneconomical and impractical.

This option has been discounted.

### *3.6. Option 6: Beach recharge*

The use of dredged material for beach recharge is a sustainable beneficial use: it generates a purpose for the material that benefits a local amenity. Material can be deposited direct from the dredging vessel via a pipeline or by 'rainbowing' onto the beach, where it is reprofiled using land-based plant.

This option is considered feasible and is explored in more detail in Section 4.

## *3.1. Summary of options scoping*

The scoping of potential options concludes that options 1 (landfill), 3 (agricultural use), 4 (use in land reclamation) and 5 (use as construction material) are not viable for the reasons described above. The following options will be taken forward to assessment:



- Deposition at sea
- Beach recharge

## 4. Assessment of options

In this section, deposition at sea and beach recharge are assessed further for strategic, environmental and financial considerations.

### 4.1. Assessment methodology

MS-LOT's general licensing guidance (MS-LOT, 2015) states the following in relation to BPEO assessment: *'consideration must be given to the availability of practical alternatives when considering any applications involving disposal of material at sea. In order for MS-LOT to assess the available alternative options, all sea disposal licence applications must be supported by a detailed assessment of the alternative options. This should include a statement setting out the reasons, including financial, that have led to the conclusion that deposit of the materials at sea is the BPEO.'*

There is no formal guidance available in Scotland on BPEO assessment for disposal of dredged material. This BPEO adopts an approach that considers three aspects: strategic, environmental and financial. The strategic and environmental considerations for each option are described in Sections 4.2 and 4.3, and an evaluation of the relative operating costs of each option is provided in Section 4.4. Section 5 then summarises the option assessment and concludes the BPEO.

### 4.2. Deposition at sea

#### 4.2.1. Strategic considerations

##### **Operational considerations**

The operational practicalities of depositing dredged material at a licensed sea deposit site are straightforward: a split hopper barge would discharge material directly at the deposit site. No preparation of the material is required prior to deposition.

##### **Availability of suitable sites**

Dredging and deposition at sea has been carried out at Aberdeen Harbour throughout its history. For the past 80 years at least, material dredged from the North Harbour has been deposited at the same offshore site used solely by AHB: Aberdeen CR110.

##### **Legislative implications**

AHB has powers to dredge under the Aberdeen Harbour Revision Order 2016, provided that the activity is approved by the Scottish Ministers. A marine licence is required from MS-LOT to deposit material at sea.

Section 34 of the Environmental Protection Act 1990 (as amended) makes it a duty to take all measures available as are reasonable in the circumstances to apply the waste hierarchy set



out in Article 4(1) of the Waste Directive. The waste hierarchy ranks waste management options according to the best environmental outcome taking into consideration the lifecycle of the material. In its simplest form, the waste hierarchy gives top priority to preventing waste. When waste is created, it gives priority to reuse, then recycling, then other recovery, and last of all disposal. The option to deposit the dredged material at sea ranks poorly on the waste hierarchy as it is classed as disposal.

#### 4.2.2. Environmental considerations

##### **Safety implications**

Deposition at sea has negligible implications for safety providing that standard navigation and maritime safety procedures are observed.

##### **Public health implications**

There are no threats to public health associated with deposition of uncontaminated dredged material at sea.

##### **Local Acceptability**

There are no anticipated local acceptability issues associated with the continuation of a long-standing method of disposing of dredged material. AHB has never received a complaint or enquiry from a member of the public regarding deposition at sea of maintenance dredged material from the North Harbour. AHB is unaware of any objections received by MS-LOT from members of the public relating to previous marine licence applications.

##### **Pollution/contamination implications**

As described in Section 2.2.2, the material to be dredged is considered to be suitable for deposition at sea according to the Marine Scotland Revised Action Levels, so the risk of pollution/contamination of the marine environment is very low.

##### **Interference with other legitimate interests**

The Aberdeen deposit site is located in open water outwith shipping channels. There is the potential for interference between the dredging vessel and other users of the sea (e.g. fishing or recreational vessels), which can be managed through compliance with harbour byelaws and standard communications between the dredging crew, AHB and other users. The risk of interference with other legitimate interests is low.

##### **Amenity/aesthetic implications**

There are no amenity or aesthetic implications of depositing material at a designated offshore site.

##### **Ecological Implications**

Deposition at sea can smother marine life on the seabed within the site. As the Aberdeen site has been in use for many years and is subject to annual deposition of material from the North Harbour, it is likely that any benthic species in and around the site can tolerate the periodic disturbance caused by deposition and temporary increases in turbidity.

A dedicated Marine Mammal Observer (MMO) watch will be kept by a nominated crew member aboard the dredger, following the general guidance for and acting in the role of a MMO, to ensure that marine mammals are not in the vicinity when deposition takes place.

### 4.3. Beach recharge

#### 4.3.1. Strategic considerations

##### **Operational considerations**

Beach recharge (sometimes called beach nourishment) requires clean, sandy material. The dredged material is predominantly silt with some sand (see Section 2.2.1) so is unlikely to be suitable.

The material will be dredged using a trailer suction hopper dredger or backhoe dredger. As the material has to be deposited on an exposed open beach, these types of dredger could not sail close to the beach and strong pipelines through the breaker zone would be required to deposit sand on the beach. Once ashore, the material would typically be stockpiled in a bund and recovered and spread during low water.

##### **Availability of suitable sites**

AHB contacts Aberdeen City Council (ACC) and Aberdeenshire Council annually to enquire whether there are any opportunities for using dredged material for beach recharge or other projects. Aberdeenshire Council has no plans for beach recharge works (see correspondence in Appendix B). ACC is currently undertaking studies into coastal management solutions at Aberdeen Beach, but there is no definite project at this time, so any requirement for material will not be within the duration of the proposed marine licence (2022). AHB will continue to liaise with ACC and Aberdeenshire Council, and if a project materialises that could make use of the dredged material, it will be considered in a future revision of the BPEO.

##### **Legislative implications**

Standing advice from SEPA states that waste material, which includes dredged material, deposited above the low water mark is subject to Waste Management Licensing controls regulated by SEPA unless it is subject to a licence issued under Part 4 of the Marine (Scotland) Act 2010, in which case it is excluded from such controls (SEPA, 2016), provided that it does not constitute a landfill. As beach recharge would require a marine licence, it is assumed that a separate Waste Management Licence would not be required.

The option to reuse the dredged material for beach recharge ranks favourably on the waste hierarchy; it negates the need to otherwise dispose of the material.

Dredged material to be used for beach recharge requires a licence from the Crown Estate Scotland, and a royalty is payable for use of the material.

#### 4.3.2. Environmental considerations

##### **Safety implications**

The use of a floating pipeline presents a potential hazard to navigation which would require marking and lighting in accordance with standard industry practices.

Pumping or rainbowing material onto the beach and subsequent reprofiling may present a hazard to beach users. It would be necessary to cordon off areas of the beach during the recharge operation.

### **Public health implications**

As described in Section 2.2.2, the material to be dredged is considered to be suitable for deposition at sea according to the Marine Scotland Revised Action Levels, so the use of the material on the beach is highly unlikely to present issues for public health.

### **Pollution/contamination implications**

As described in Section 2.2.2, the material to be dredged is considered to be suitable for deposition at sea according to the Marine Scotland Revised Action Levels, so the risk of pollution/contamination of the beach environment is very low.

### **Interference with other legitimate interests / Amenity implications**

As described above, during the beach recharge operation it will be necessary to restrict access to areas of Aberdeen Beach and the inshore waters around the dredger. The dredging is proposed in the summer months when the beach is a popular local destination.

This is unlikely to be a significant concern due to the short term nature of the operation.

### **Ecological Implications**

There are no significant ecological issues associated with using dredged material for beach recharge. It is preferable for the source material to match the existing beach material: the material to be dredged is predominantly silt with some sand (see Section 2.2.1).

#### 4.4. Operational cost evaluation

Table 2 and Table 3 present estimates of the relative operating costs of deposition at sea and beach recharge for 100,000 m<sup>3</sup> of dredged material, based on AHB's own experience of the UK dredging industry. Dredging costs can vary considerably year-to-year depending on dredger availability, fuel prices and other factors.

*Table 2 Estimated cost of sea deposit of 100,000 m<sup>3</sup>*

|                                      |          |
|--------------------------------------|----------|
| Dredger Mobilisation                 | £50,000  |
| Dredger Costs @ £2.50/m <sup>3</sup> | £250,000 |
| TOTAL                                | £300,000 |

*Table 3 Estimated cost of dredging 100,000 m<sup>3</sup> of material, of which 20,000 m<sup>3</sup> is suitable for beach recharge<sup>1</sup>*

|                                     |          |
|-------------------------------------|----------|
| Lag Pipeline                        | £400,000 |
| Dismantle Pipeline                  | £100,000 |
| Hire of Plant                       | £50,000  |
| Pumping Costs @ £1/m <sup>3</sup>   | £20,000  |
| Dredger Mobilisation                | £50,000  |
| Dredge Costs @ £2.50/m <sup>3</sup> | £250,000 |
| TOTAL                               | £870,000 |

*[Excludes royalty payable to The Crown Estate Scotland if dredged material were to be used for beach recharge]*

<sup>1</sup> 20% is a reasonable assumption considering the average suitable sand content is 33%, not all of which could be extracted/separated from silts during the dredging process.

## 5. Best practicable environmental option

Two potential options are considered in the assessment: deposition at sea and beach recharge.

Operationally, both options are technically practicable but deposition at sea is the preferred option as it is a simpler and more efficient operation, maintains the maximum flexibility in terms of dredging equipment that can be used, and utilises an existing licensed sea deposit site (Aberdeen CR110). In any event, a suitable beach recharge site a fundamental requirement, and discussions with ACC and Aberdeenshire Council have confirmed that they have no requirement for material within the timeframe of the proposed maintenance dredging in 2022.

Environmentally, beach recharge is the preferred option according to the waste hierarchy as it uses a material that would otherwise be disposed; however, neither option is likely to cause significant adverse environmental impacts. Neither option would cause significant safety, public health, amenity or pollution/contamination issues.

Financially, the costs are almost three times greater for beach recharge than for deposition at sea.

Considering all three aspects, deposition of material at sea at Aberdeen CR110 is considered to be the BPEO.

ACC is currently undertaking studies into coastal management solutions at Aberdeen Beach, but there is no definite project at this time, so any requirement for dredged material will not be within the duration of the proposed marine licence (2022). If such a project materialises it will be considered in a future revision of this BPEO.

## 6. References

MS-LOT (2015). Marine Scotland Guidance for Marine Licence Applicants: Version 2 - June 2015. <https://www.gov.scot/publications/marine-licensing-applications-and-guidance/> [accessed 20 July 2021].

SEPA (2022) <https://www.sepa.org.uk/data-visualisation/waste-sites-and-capacity-tool/> [accessed 7 April 2022].

SEPA (2016) Land Use Planning System SEPA Guidance Note 13: SEPA standing advice for The Department of Energy and Climate Change and Marine Scotland on marine consultations. Issue No. 5. Issued 29/09/2016.



# **Appendix A**

## **2022 sediment sampling results**

## Pre-disposal Sampling Results Form

Version 2 - June 2017

This form should be used to submit the results from your pre-disposal sampling plan.

Full information must be provided in all relevant sheets of this workbook. The blue cells in each worksheet indicate where information can be entered.

Where information cannot be provided, or where there are more than 30 samples required, please contact the Marine Scotland - Licensing Operations Team (MS-LOT) using the contact details below.

Once you have completed this form, send it (including any reference number for the dredging and sea disposal marine licence application in the subject header of your email) to the following email address:

[ms.marinelicensing@gov.scot](mailto:ms.marinelicensing@gov.scot)

If you have any questions in relation to this form contact MS-LOT:

Marine Scotland - Licensing Operations Team  
Marine Laboratory  
375 Victoria Road  
Aberdeen, AB11 9DB

01224 295579

[ms.marinelicensing@gov.scot](mailto:ms.marinelicensing@gov.scot)

|   |   |
|---|---|
| Applicant:                              | Aberdeen Harbour Board                  |
| Description of dredging:                | Maintenance dredging South Harbour 2022 |
| Total amount to be dredged (wet tonnes) | 61000                                   |

**Explanatory Notes:**  
An example of a 'Dredge area' is: 'Dock A, Harbour X'  
Provide description of the dredge area and the latitude and longitude co-ordinates (WGS84) for each sample location. Co-ordinates taken from GPS equipment should be set to WGS84.  
Note for sample depth that the seabed is 0 metres.  
**Gravel** is defined as >2mm, **Sand** is defined as >63µm<2mm, **Silt** is defined as <63µm).

[illegible]

**Explanatory Notes:**  
Results above Action Level 1 will be highlighted in blue and above Action Level 2 in red.

[illegible]

**Explanatory Notes:**  
Results above Action Level 1 will be highlighted in blue and above Action Level 2 in red.

[illegible]





## PR Details

Total amount to be dredged (wet tonnes) 61000

### Explanatory Notes:

The values entered for each determinand should be an average wet weight concentration from all the samples representing the material to be disposed to sea. They should be entered in the units stated in the Unit of measurement column in the table below.  
Results above Action Level 1 will be highlighted in blue and above Action Level 2 in red.

### Average for the total dredge area:

| Sample ID         | Unit of measurement |        |
|-------------------|---------------------|--------|
| Total Solids      | %                   | 55.1   |
| Gravel            | %                   | 11.6   |
| Sand              | %                   | 31.3   |
| Silt              | %                   | 57.2   |
| Arsenic (As)      | mg/kg               | 3.8    |
| Cadmium (Cd)      |                     | 0.11   |
| Chromium (Cr)     |                     | 11.3   |
| Copper (Cu)       |                     | 9.5    |
| Mercury (Hg)      |                     | 0.02   |
| Nickel (Ni)       |                     | 7.3    |
| Lead (Pb)         |                     | 7.9    |
| Zinc (Zn)         |                     | 27.1   |
| Dibutyltin (DBT)  |                     | <0.005 |
| Tributyltin (TBT) |                     | <0.005 |
| Acenaphth         | µg/kg               | 2.29   |
| Acenaphthylene    |                     | 3.19   |
| Anthracen         |                     | 6.84   |
| BAA               |                     | 17     |
| BAP               |                     | 21.6   |
| BBF               |                     | 23.5   |
| BEP               |                     |        |
| Benzghip          |                     | 24.2   |
| BKF               |                     | 13.5   |
| C1N               |                     |        |
| C1PHEN            |                     |        |
| C2N               |                     |        |
| C3N               |                     |        |
| Chrysene          |                     | 18.7   |
| Debenzah          |                     | 4.19   |
| Flurant           |                     | 32.1   |
| Fluorene          |                     | 2.77   |
| Indypr            |                     | 24.6   |
| naph              |                     | 4.7    |
| perylene          |                     |        |
| phenant           |                     | 17.7   |
| pyrene            |                     | 33.7   |
| THC               |                     | 104517 |
| PCB28             |                     | <0.08  |
| PCB52             |                     | 0.09   |
| PCB101            |                     | 0.1    |
| PCB118            |                     | 0.09   |
| PCB138            |                     | 0.1    |
| PCB153            |                     | 0.1    |
| PCB18             |                     |        |
| PCB105            |                     |        |
| PCB110            |                     |        |
| PCB128            |                     |        |
| PCB141            |                     |        |
| PCB149            |                     |        |
| PCB151            |                     |        |
| PCB156            |                     |        |
| PCB158            |                     |        |
| PCB170            |                     |        |
| PCB180            |                     | <0.08  |
| PCB183            |                     |        |
| PCB187            |                     |        |
| PCB194            |                     |        |
| PCB31             |                     |        |
| PCB44             |                     |        |
| PCB47             |                     |        |
| PCB49             |                     |        |
| PCB66             |                     |        |
| ICES7             |                     | 0.57   |
| AHCH              |                     | <0.1   |
| BHCH              |                     | <0.1   |
| GHCH              |                     | <0.1   |
| DIELDRIN          |                     | <0.1   |
| HCB               |                     | <0.1   |
| DDE               |                     | 0.12   |
| DDT               |                     | <0.1   |
| TDE               |                     | <0.1   |
| BDE100            |                     |        |
| BDE138            |                     |        |
| BDE153            |                     |        |
| BDE154            |                     |        |
| BDE17             |                     |        |
| BDE183            |                     |        |
| BDE209            |                     |        |
| BDE28             |                     |        |
| BDE47             |                     |        |
| BDE66             |                     |        |
| BDE85             |                     |        |
| BDE99             |                     |        |

### Comments:

## Laboratory Details

### Explanatory Notes:

Please complete a separate worksheet for each laboratory (e.g. complete 'Laboratory\_1' worksheet for 1 laboratory and complete 'Laboratory\_2' worksheet for a second laboratory). If there are more than 3 laboratories then please contact MS-LOT.

### Laboratory 1 Details:

|                  |                 |
|------------------|-----------------|
| Laboratory name: | ISOCOTEC UK Ltd |
| Year:            | 2022            |

|                 |     |  |   |
|-----------------|-----|--|---|
| LabRefMat       | Q1  | Does the laboratory carrying out the analyses undertake the analysis of blank samples and laboratory reference materials with each batch of samples of waste and other material dumped in the maritime area that is analysed by that laboratory?   | Yes   |
| CompAnal        | Q2  | Does the laboratory carrying out the analyses undertake periodic comparative analysis of laboratory reference materials and certified reference materials?   | Yes   |
| QAQC            | Q3  | Does the laboratory carrying out the analyses undertake the compilation of quality control charts based upon the data resulting from the analyses of the laboratory reference materials and certified reference materials, and the use of those quality control charts to monitor analytical performance in relation to all samples of dumped wastes or other materials? | Yes   |
| InterlabCaleb   | Q4  | Does the laboratory carrying out the analyses undertake periodic participation in interlaboratory comparison exercises, including, where possible, international comparison exercises?   | Yes   |
| InternatCaleb   | Q5  | Does the laboratory carrying out the analyses undertake periodic participation in national and, where possible, international laboratory proficiency schemes?  | Yes   |
| SpikedSamples   | Q6  | If the answer to questions 4 or 5 is 'Yes' then does the laboratory analyse samples of substances which are provided by the organisers of the scheme?  | Yes   |
| BlindSamples    | Q7  | If the answer to questions 4 or 5 is 'Yes' then does the laboratory confirm that the composition of those samples is not disclosed in advance?   | Yes   |
| Ranking         | Q8  | If the answer to questions 4 or 5 is 'Yes' then does the laboratory confirm that the results of the scheme for each participating laboratory are made available to all participating laboratories?   | Yes   |
| FracAnal        | Q9  | Enter the size fraction that is analysed i.e. Whole or less than 63µm etc.   | <63µm (metals)  |
| GranMeth        | Q10 | PSA method   | NMBAQC  |
| OCMeth          | Q11 | Organic Carbon method  | carbonate removal and sulfurous acid/combustion at 1600°C/NDIR,                 |
| MetExtrType     | Q12 | Method of extraction used for metal analysis   | Aquaregia   |
| MethOfDetMetals | Q13 | Method of detection used for metal analysis  | ICP-MS  |
| PAHExtrType     | Q14 | Method of extraction used for poly aromatic hydrocarbon analysis   | Methanol/DCM solvent extraction with silica clean up and copper clean up stages |
| MethOfDetPAH    | Q15 | Method of detection used for poly aromatic hydrocarbons analysis   | GCMS  |
| OHExtrType      | Q16 | Method of extraction used for organohalogens inc PCBs, pesticides, flame retardants etc analysis   | Ultrasonic acetone/hexane solvent extraction                                    |
| MethOfDetOH     | Q17 | Method of detection used for organohalogens inc PCBs, pesticides, flame retardants etc analysis  | GCMSMS  |
| OTExtrType      | Q18 | Method of extraction used for organotin analysis   | derivatisation and solvent extraction   |
| MethOfDetOT     | Q19 | Method of detection used for organotin analysis  | GCMS  |

|       |            | LOD/LOQ | Precision (%) | Recovery (%) |
|-------|------------|---------|---------------|--------------|
| mg/kg | Hg         | 0.01    | 4.2           | 98           |
|       | As         | 0.5     | 2.7           | 101          |
|       | Cd         | 0.04    | 3.6           | 107          |
|       | Cu         | 0.5     | 2.9           | 104          |
|       | Pb         | 0.5     | 3             | 98           |
|       | Zn         | 2       | 2.6           | 98           |
|       | Cr         | 0.5     | 3.1           | 106          |
|       | Ni         | 0.5     | 3.6           | 101          |
|       | TBT        | 0.001   | 12.62         | 58           |
|       | DBT        | 0.001   | 12.62         | 63           |
|       | PCB28      | 0.08    | 12.56         | 82           |
|       | PCB31      |         |               |              |
|       | PCB44      |         |               |              |
|       | PCB47      |         |               |              |
| µg/kg | PCB49      |         |               |              |
|       | PCB52      | 0.08    | 6.999         | 98           |
|       | PCB66      |         |               |              |
|       | PCB101     | 0.08    | 8.43          | 91           |
|       | PCB105     |         |               |              |
|       | PCB110     |         |               |              |
|       | PCB118     | 0.08    | 14.61         | 98           |
|       | PCB128     |         |               |              |
|       | PCB138+163 | 0.08    | 12.93         | 59           |
|       | PCB141     |         |               |              |
|       | PCB149     |         |               |              |
|       | PCB151     |         |               |              |
|       | PCB153     | 0.08    | 7.41          | 69           |
|       | PCB156     |         |               |              |
|       | PCB158     |         |               |              |
|       | PCB170     |         |               |              |
|       | PCB180     | 0.08    | 9.85          | 31           |
|       | PCB183     |         |               |              |
|       | PCB187     |         |               |              |
|       | PCB194     |         |               |              |
|       | DDE        | 0.1     | 8.2           | 70           |
|       | DDT        | 0.1     | 10.6          | 113          |
|       | DDD        | 0.1     | 11            | 80           |
|       | Dieldrin   | 0.1     | 10.8          | 106          |
|       | Lindane    | 0.1     | 8.5           | 108          |
|       | HCB        | 0.1     | 2.8           | 76           |
|       | BDE17      |         |               |              |
|       | BDE28      |         |               |              |
|       | BDE47      |         |               |              |
|       | BDE66      |         |               |              |
|       | BDE85      |         |               |              |
|       | BDE99      |         |               |              |
|       | BDE100     |         |               |              |
|       | BDE138     |         |               |              |
|       | BDE153     |         |               |              |
|       | BDE194     |         |               |              |
|       | BDE183     |         |               |              |
|       | BDE209     |         |               |              |
|       | ACENAPTH   | 1       | 6.68          | 83           |
|       | ACENAPHY   | 1       | 7.74          | 137          |
|       | ANTHRACN   | 1       | 4.95          | 97           |
|       | BAA        | 1       | 9.8           | 91           |
|       | BAP        | 1       | 9.07          | 105          |
|       | BBF        | 1       | 8.44          | 83           |
|       | BENZGHIP   | 1       | 13.46         | 109          |
|       | BEF        |         |               |              |
|       | BKF        | 1       | 8.9           | 110          |
|       | C1N        |         |               |              |
|       | C1PHEN     |         |               |              |
|       | C2N        |         |               |              |
|       | C3N        |         |               |              |
|       | CHRYSENE   | 1       | 7.87          | 90           |
|       | DBENZAH    | 1       | 19.23         | 103          |

|  |          |     |      |     |
|--|----------|-----|------|-----|
|  | FLUORENE | 1   | 5.25 | 82  |
|  | FLUORANT | 1   | 4.36 | 86  |
|  | INDPYR   | 1   | 17.1 | 110 |
|  | NAPTH    | 1   | 3.02 | 92  |
|  | PERYLENE |     |      |     |
|  | PHENANT  | 1   | 5.41 | 91  |
|  | PYRENE   | 1   | 4.29 | 92  |
|  | THC      | 100 | N/A  | 93  |
|  |          |     |      |     |

## Laboratory Details

### Explanatory Notes:

Please complete a separate worksheet for each laboratory (e.g. complete 'Laboratory\_1' worksheet for 1 laboratory and complete 'Laboratory\_2' worksheet for a second laboratory). If there are more than 3 laboratories then please contact MS-LOT.

### Laboratory 2 Details:

|                  |  |
|------------------|--|
| Laboratory name: |  |
| Year:            |  |

|                 |     |  |  |
|-----------------|-----|--|--|
| LabRefMat       | Q1  | Does the laboratory carrying out the analyses undertake the analysis of blank samples and laboratory reference materials with each batch of samples of waste and other material dumped in the maritime area that is analysed by that laboratory?   |  |
| CompAnal        | Q2  | Does the laboratory carrying out the analyses undertake periodic comparative analysis of laboratory reference materials and certified reference materials?   |  |
| QAQC            | Q3  | Does the laboratory carrying out the analyses undertake the compilation of quality control charts based upon the data resulting from the analyses of the laboratory reference materials and certified reference materials, and the use of those quality control charts to monitor analytical performance in relation to all samples of dumped wastes or other materials? |  |
| InterlabCaleb   | Q4  | Does the laboratory carrying out the analyses undertake periodic participation in interlaboratory comparison exercises, including, where possible, international comparison exercises?   |  |
| InternatCaleb   | Q5  | Does the laboratory carrying out the analyses undertake periodic participation in national and, where possible, international laboratory proficiency schemes?  |  |
| SpikedSamples   | Q6  | If the answer to questions 4 or 5 is 'Yes' then does the laboratory analyse samples of substances which are provided by the organisers of the scheme?  |  |
| BlindSamples    | Q7  | If the answer to questions 4 or 5 is 'Yes' then does the laboratory confirm that the composition of those samples is not disclosed in advance?   |  |
| Ranking         | Q8  | If the answer to questions 4 or 5 is 'Yes' then does the laboratory confirm that the results of the scheme for each participating laboratory are made available to all participating laboratories?   |  |
| FracAnal        | Q9  | Enter the size fraction that is analysed i.e. Whole or less than 63µm etc.   |  |
| GranMeth        | Q10 | PSA method   |  |
| OCMeth          | Q11 | Organic Carbon method  |  |
| MetExtrType     | Q12 | Method of extraction used for metal analysis   |  |
| MethOfDetMetals | Q13 | Method of detection used for metal analysis  |  |
| PAHExtrType     | Q14 | Method of extraction used for poly aromatic hydrocarbon analysis   |  |
| MethOfDetPAH    | Q15 | Method of detection used for poly aromatic hydrocarbons analysis   |  |
| OHExtrType      | Q16 | Method of extraction used for organohalogens inc PCBs, pesticides, flame retardants etc analysis   |  |
| MethOfDetOH     | Q17 | Method of detection used for organohalogens inc PCBs, pesticides, flame retardants etc analysis  |  |
| OTExtrType      | Q18 | Method of extraction used for organotin analysis   |  |
| MethOfDetOT     | Q19 | Method of detection used for organotin analysis  |  |

|       |            | LOD/LOQ | Precision (%) | Recovery (%) |
|-------|------------|---------|---------------|--------------|
| mg/kg | Hg         |         |               |              |
|       | As         |         |               |              |
|       | Cd         |         |               |              |
|       | Cu         |         |               |              |
|       | Pb         |         |               |              |
|       | Zn         |         |               |              |
|       | Cr         |         |               |              |
|       | Ni         |         |               |              |
|       | TBT        |         |               |              |
|       | DBT        |         |               |              |
| µg/kg | PCB28      |         |               |              |
|       | PCB31      |         |               |              |
|       | PCB44      |         |               |              |
|       | PCB47      |         |               |              |
|       | PCB49      |         |               |              |
|       | PCB52      |         |               |              |
|       | PCB66      |         |               |              |
|       | PCB101     |         |               |              |
|       | PCB105     |         |               |              |
|       | PCB110     |         |               |              |
|       | PCB118     |         |               |              |
|       | PCB128     |         |               |              |
|       | PCB138+163 |         |               |              |
|       | PCB141     |         |               |              |
|       | PCB149     |         |               |              |
|       | PCB151     |         |               |              |
|       | PCB153     |         |               |              |
|       | PCB156     |         |               |              |
|       | PCB158     |         |               |              |
|       | PCB170     |         |               |              |
|       | PCB180     |         |               |              |
|       | PCB183     |         |               |              |
|       | PCB187     |         |               |              |
|       | PCB194     |         |               |              |
|       | DDE        |         |               |              |
|       | DDT        |         |               |              |
|       | DDD        |         |               |              |
|       | Dieldrin   |         |               |              |
|       | Lindane    |         |               |              |
|       | HCB        |         |               |              |
|       | BDE17      |         |               |              |
|       | BDE28      |         |               |              |
|       | BDE47      |         |               |              |
|       | BDE66      |         |               |              |
|       | BDE85      |         |               |              |
|       | BDE99      |         |               |              |
|       | BDE100     |         |               |              |
|       | BDE138     |         |               |              |
|       | BDE153     |         |               |              |
|       | BDE194     |         |               |              |
|       | BDE183     |         |               |              |
|       | BDE209     |         |               |              |
|       | ACENAPTH   |         |               |              |
|       | ACENAPHY   |         |               |              |
|       | ANTHRACN   |         |               |              |
|       | BAA        |         |               |              |
|       | BAP        |         |               |              |
|       | BBF        |         |               |              |
|       | BENZGHP    |         |               |              |
|       | BEF        |         |               |              |
|       | BKF        |         |               |              |
|       | C1N        |         |               |              |
|       | C1PHEN     |         |               |              |
|       | C2N        |         |               |              |
|       | C3N        |         |               |              |
|       | CHRYSENE   |         |               |              |
|       | DBENZAH    |         |               |              |



|  |          |  |  |  |
|--|----------|--|--|--|
|  | FLUORENE |  |  |  |
|  | FLUORANT |  |  |  |
|  | INDPYR   |  |  |  |
|  | NAPTH    |  |  |  |
|  | PERYLENE |  |  |  |
|  | PHENANT  |  |  |  |
|  | PYRENE   |  |  |  |
|  | THC      |  |  |  |

## Laboratory Details

### Explanatory Notes:

Please complete a separate worksheet for each laboratory (e.g. complete 'Laboratory\_1' worksheet for 1 laboratory and complete 'Laboratory\_2' worksheet for a second laboratory). If there are more than 3 laboratories then please contact MS-LOT.

### Laboratory 3 Details:

|                  |  |
|------------------|--|
| Laboratory name: |  |
| Year:            |  |

|                 |     |  |  |
|-----------------|-----|--|--|
| LabRefMat       | Q1  | Does the laboratory carrying out the analyses undertake the analysis of blank samples and laboratory reference materials with each batch of samples of waste and other material dumped in the maritime area that is analysed by that laboratory?   |  |
| CompAnal        | Q2  | Does the laboratory carrying out the analyses undertake periodic comparative analysis of laboratory reference materials and certified reference materials?   |  |
| QAQC            | Q3  | Does the laboratory carrying out the analyses undertake the compilation of quality control charts based upon the data resulting from the analyses of the laboratory reference materials and certified reference materials, and the use of those quality control charts to monitor analytical performance in relation to all samples of dumped wastes or other materials? |  |
| InterlabCaleb   | Q4  | Does the laboratory carrying out the analyses undertake periodic participation in interlaboratory comparison exercises, including, where possible, international comparison exercises?   |  |
| InternatCaleb   | Q5  | Does the laboratory carrying out the analyses undertake periodic participation in national and, where possible, international laboratory proficiency schemes?  |  |
| SpikedSamples   | Q6  | If the answer to questions 4 or 5 is 'Yes' then does the laboratory analyse samples of substances which are provided by the organisers of the scheme?  |  |
| BlindSamples    | Q7  | If the answer to questions 4 or 5 is 'Yes' then does the laboratory confirm that the composition of those samples is not disclosed in advance?   |  |
| Ranking         | Q8  | If the answer to questions 4 or 5 is 'Yes' then does the laboratory confirm that the results of the scheme for each participating laboratory are made available to all participating laboratories?   |  |
| FracAnal        | Q9  | Enter the size fraction that is analysed i.e. Whole or less than 63µm etc.   |  |
| GranMeth        | Q10 | PSA method   |  |
| OCMeth          | Q11 | Organic Carbon method  |  |
| MetExtrType     | Q12 | Method of extraction used for metal analysis   |  |
| MethOfDetMetals | Q13 | Method of detection used for metal analysis  |  |
| PAHExtrType     | Q14 | Method of extraction used for poly aromatic hydrocarbon analysis   |  |
| MethOfDetPAH    | Q15 | Method of detection used for poly aromatic hydrocarbons analysis   |  |
| OHExtrType      | Q16 | Method of extraction used for organohalogens inc PCBs, pesticides, flame retardants etc analysis   |  |
| MethOfDetOH     | Q17 | Method of detection used for organohalogens inc PCBs, pesticides, flame retardants etc analysis  |  |
| OTExtrType      | Q18 | Method of extraction used for organotin analysis   |  |
| MethOfDetOT     | Q19 | Method of detection used for organotin analysis  |  |

|       |            | LOD/LOQ | Precision (%) | Recovery (%) |
|-------|------------|---------|---------------|--------------|
| mg/kg | Hg         |         |               |              |
|       | As         |         |               |              |
|       | Cd         |         |               |              |
|       | Cu         |         |               |              |
|       | Pb         |         |               |              |
|       | Zn         |         |               |              |
|       | Cr         |         |               |              |
|       | Ni         |         |               |              |
|       | TBT        |         |               |              |
|       | DBT        |         |               |              |
| µg/kg | PCB28      |         |               |              |
|       | PCB31      |         |               |              |
|       | PCB44      |         |               |              |
|       | PCB47      |         |               |              |
|       | PCB49      |         |               |              |
|       | PCB52      |         |               |              |
|       | PCB66      |         |               |              |
|       | PCB101     |         |               |              |
|       | PCB105     |         |               |              |
|       | PCB110     |         |               |              |
|       | PCB118     |         |               |              |
|       | PCB128     |         |               |              |
|       | PCB138+163 |         |               |              |
|       | PCB141     |         |               |              |
|       | PCB149     |         |               |              |
|       | PCB151     |         |               |              |
|       | PCB153     |         |               |              |
|       | PCB156     |         |               |              |
|       | PCB158     |         |               |              |
|       | PCB170     |         |               |              |
|       | PCB180     |         |               |              |
|       | PCB183     |         |               |              |
|       | PCB187     |         |               |              |
|       | PCB194     |         |               |              |
|       | DDE        |         |               |              |
|       | DDT        |         |               |              |
|       | DDD        |         |               |              |
|       | Dieldrin   |         |               |              |
|       | Lindane    |         |               |              |
|       | HCB        |         |               |              |
|       | BDE17      |         |               |              |
|       | BDE28      |         |               |              |
|       | BDE47      |         |               |              |
|       | BDE66      |         |               |              |
|       | BDE85      |         |               |              |
|       | BDE99      |         |               |              |
|       | BDE100     |         |               |              |
|       | BDE138     |         |               |              |
|       | BDE153     |         |               |              |
|       | BDE194     |         |               |              |
|       | BDE183     |         |               |              |
|       | BDE209     |         |               |              |
|       | ACENAPTH   |         |               |              |
|       | ACENAPHY   |         |               |              |
|       | ANTHRACN   |         |               |              |
|       | BAA        |         |               |              |
|       | BAP        |         |               |              |
|       | BBF        |         |               |              |
|       | BENZGHIP   |         |               |              |
|       | BEF        |         |               |              |
|       | BKF        |         |               |              |
|       | C1N        |         |               |              |
|       | C1PHEN     |         |               |              |
|       | C2N        |         |               |              |
|       | C3N        |         |               |              |
|       | CHRYSENE   |         |               |              |
|       | DBENZAH    |         |               |              |

|  |          |  |  |  |
|--|----------|--|--|--|
|  | FLUORENE |  |  |  |
|  | FLUORANT |  |  |  |
|  | INDPYR   |  |  |  |
|  | NAPTH    |  |  |  |
|  | PERYLENE |  |  |  |
|  | PHENANT  |  |  |  |
|  | PYRENE   |  |  |  |
|  | THC      |  |  |  |

|      |     |
|------|-----|
| Grab | Yes |
| Core | No  |

## **Appendix B**

### **Correspondence with Aberdeenshire Council regarding beach recharge**



**From:** [REDACTED]  
**To:** [REDACTED]  
**Cc:** [REDACTED]  
**Subject:** RE: Aberdeen Harbour Board - dredged material  
**Date:** 19 August 2021 18:13:29  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image003.png](#)  
[image004.png](#)  
[image005.png](#)  
[image007.png](#)

---

Hello [REDACTED],

Hope you are keeping well.  
I would confirm that our position has not changed and we currently have no use for any dredged material.

Thank you.

Regards,

[REDACTED]

Principal Engineer  
Flood Risk & Coast Protection  
Infrastructure Services  
Aberdeenshire Council  
Telephone – [REDACTED]

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**From:** [REDACTED]  
**Sent:** 19 August 2021 15:12  
**To:** [REDACTED]  
**Cc:** [REDACTED] **Subject:** RE: Aberdeen Harbour Board - dredged material

Dear [REDACTED],

I hope you're well. It's that time of year again when we're applying to renew our marine licence application for depositing dredged material at sea.

Could you please let me know whether your position below remains the same regarding potential uses of the dredged material?

Many thanks,

[REDACTED]

[REDACTED]  
Environmental Advisor

T: [REDACTED]  
M: [REDACTED]

---

**From:** [REDACTED]  
**Sent:** 11 November 2020 11:48  
**To:** [REDACTED]  
**Cc:** [REDACTED] **Subject:** RE: Aberdeen Harbour Board - dredged material

Dear [REDACTED],

Thank you for contacting me again. I would confirm that our position has not changed and we currently have no use for any dredged material. As below, we will contract you if we see a use emerge for this material.

Regards,

[REDACTED]

Principal Engineer  
Flood Risk & Coast Protection  
Infrastructure Services  
Aberdeenshire Council  
Telephone – [REDACTED]

---

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**From:** [REDACTED]  
**Sent:** 11 November 2020 10:43  
**To:** [REDACTED]  
**Cc:** [REDACTED]  
**Subject:** RE: Aberdeen Harbour Board - dredged material

Dear [REDACTED],

You may recall we spoke back in 2018 about the potential use of dredged material from Aberdeen Harbour's annual maintenance dredging campaign for Aberdeenshire Council projects, for example coastal protection, beach recharge, construction projects etc. See email trail below for reference.

We are seeking to renew our marine licence with Marine Scotland and I would be grateful if you could please confirm whether your position below remains the same. If you do see a potential need for material within the next 18 months perhaps you could give me a call on [REDACTED] to discuss.

Many thanks in advance,

[REDACTED]  
Environmental Advisor

T: [REDACTED]  
M: [REDACTED]

**From:** [REDACTED]

**Sent:** 01 February 2018 23:37

**To:** [REDACTED] **Subject:** RE: Aberdeen Harbour Board - dredged material

Many thanks [REDACTED] much appreciated.

Regards,

**From:** [REDACTED]

**Sent:** 01 February 2018 13:58

**To:** [REDACTED]

**Subject:** FW: Aberdeen Harbour Board - dredged material

Dear [REDACTED],

Further to our telephone conversation earlier today, I would confirm that we have no change in opinion from that stated in our previous letter dated 15<sup>th</sup> July 2015. We currently have no use for any dredged material.

Thank you for contacting us again regarding this matter.

Regards,

Principal Engineer  
Flood Risk & Coast Protection  
Infrastructure Services  
Aberdeenshire Council  
Telephone – [REDACTED]

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Follow us at:



**From:** [REDACTED]

**Sent:** 01 February 2018 09:44

**To:** [REDACTED]

**Subject:** Aberdeen Harbour Board - dredged material

Dear [REDACTED],

Good to talk to you just now. As discussed, I'd be grateful if you could confirm by return of email that Aberdeenshire Council's position has not changed since [REDACTED]'s attached letter dated 15 July 2015 – i.e. you do not have any current plans that would make use of dredged material.

Many thanks,

[REDACTED]  
**Aberdeen Harbour Board**

16 Regent Quay  
Aberdeen, AB11 5SS

Tel: [REDACTED]  
Mob: [REDACTED]

 **Aberdeen  
Harbour**  
[www.aberdeen-harbour.co.uk](http://www.aberdeen-harbour.co.uk)

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The banner features a map of the South Harbour area on the left, with labels for 'SOUTH HARBOUR', 'MINER BASIN', 'LIFTING CRANE', 'CHANNEL', and 'WATERWAY'. To the right of the map, the text 'South Harbour Notebook' is displayed in white on a blue background. Below this, a smaller line of text reads: 'Find out the latest construction updates, see the photos, meet the team and understand the facts about our £350 million Harbour expansion...'. A red button with white text says 'VISIT OUR SOUTH HARBOUR NOTEBOOK' with a right-pointing arrow icon. On the far right, the Aberdeen Harbour logo is shown, consisting of a stylized orange 'A' above the text 'ABERDEEN HARBOUR' and 'EST. 1136'.

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The banner has a purple background on the left with the 'DECOM Live @' logo, where 'D' is a large white stylized letter. To the right, the text '2 - 3 SEPTEMBER 2021' and 'BLAIKIES QUAY, ABERDEEN HARBOUR' is written in white. Below this, the website 'DECOMNORTHSEA.COM' is listed. On the right side of the banner, the text 'IN ASSOCIATION WITH' is above the Aberdeen Harbour logo (stylized orange 'A', 'ABERDEEN HARBOUR', 'EST. 1136'). Below the logo, the text 'EVENT PARTNER' is displayed.

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Or [Subscribe](#) to receive progress updates about our South Harbour expansion.