



Environment  
Canada

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Canada

# PERMIT APPLICATION (DISPOSAL AT SEA)\*

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|--|
| Application Identification<br>(EC OFFICE USE ONLY) |
| Name:  |
| Number:  |

\* Ce formulaire est aussi disponible en français

## PROPOSED ACTIVITY

Permits are issued in accordance with Division 3 of Part 7 of the *Canadian Environmental Protection Act, 1999* (the "Act"). "Disposal" has the same meaning as in subsection 122(1) of the Act. Information provided on this form will be used to evaluate the application for a permit.

Applicants should consult their nearest regional Disposal at Sea Program office of Environment Canada before preparing or submitting an emergency permit application under section 128 of the Act.

The following activities are covered by this application. Indicate those activities that apply to you:

1. Loading for the purpose of disposal                       2. Disposal of waste or other matter  
 3. Disposal on ice     4. Other: \_\_\_\_\_

## SUBSTANCE TO BE DISPOSED OF AT SEA:

|                         |
|-------------------------|
| <b>Dredged material</b> |
|-------------------------|

## IDENTIFICATION AND APPLICANT INFORMATION

|   |                                 |                              |
|---|---------------------------------|------------------------------|
| <b>NAME OF APPLICANT</b>  | <b>TELEPHONE NO.</b>            | <b>EMAIL ADDRESS/FAX NO.</b> |
| <b>ADDRESS</b>  | <b>TYPE OF BUSINESS</b>         |                              |
| <b>PERMIT HISTORY</b> - List the permit numbers and expiry dates of any previous permits (to a maximum of five), including renewals, that are relevant to this application. |                                 |                              |
| <b>Permit No.</b>   | <b>Expiry Date (year/month)</b> |                              |
|   |                                 |                              |
|   |                                 |                              |
|   |                                 |                              |
|   |                                 |                              |
| <b>NAME OF INDIVIDUAL(S) RESPONSIBLE FOR PROPOSED ACTIVITY</b>  | <b>TELEPHONE NO.</b>            | <b>EMAIL ADDRESS/FAX NO.</b> |
| <b>NAME OF TECHNICAL CONTACT(S) FOR PROPOSED ACTIVITY</b>   | <b>TELEPHONE NO.</b>            | <b>EMAIL ADDRESS/FAX NO.</b> |

## INFORMATION ON THE PROPOSED ACTIVITY AND GENERAL INFORMATION

|   |
|---|
| <b>DESCRIPTION OF ACTIVITY</b> - Give a general description of the proposed activity and its purpose. |
| <b>NUMBER OF PAGES ATTACHED</b> <input type="checkbox"/>  |



**ROUTE FROM LOAD SITE TO DISPOSAL SITE** - Attach a map, chart or good reproducible set of drawings that shows the location of each load site and each disposal site. If the route is not direct, explain why and show the intended route on the map, chart or drawings.

NUMBER OF DOCUMENTS ATTACHED

**EQUIPMENT AND METHODS** - Describe the equipment and methods to be used at each load site and disposal site. Check the appropriate boxes below or provide a description under "other," if applicable.

Loading (dredging) equipment/method:

- backhoe
- barge-mounted excavator
- barge-mounted mechanical dredge
- bed-leveling equipment
- clamshell dredge
- crane equipped with a clamshell dredge
- crane equipped with a hydraulic shovel
- cutter suction dredge
- grab dredge
- hydraulic shovel
- land-based heavy equipment
- leveling of the seabed by a steel beam, a scraper blade or a hydraulic shovel
- propeller wash dredging
- sidecasting
- suction dredge
- trailing suction hopper dredge

Disposal equipment/method:

- barge-mounted excavator
  - barge-mounted mechanical dredges
  - bed-leveling equipment
  - bottom dumping
  - clamshell dredge
  - crane equipped with a clamshell dredge
  - crane equipped with a hydraulic shovel
  - cutter suction dredge
  - end dumping
  - grab dredge
  - hopper dredge
  - hydraulic shovel
  - leveling of the seabed by a steel beam, a scraper blade or a hydraulic shovel
  - pipeline
  - propeller wash dredging
  - sidecasting
  - suction dredge
  - towed scow
- other:

NUMBER OF PAGES ATTACHED

**METHODS OF PACKAGING AND CONTAINMENT**

NUMBER OF PAGES ATTACHED

| <b>DISPOSAL SPECIFICATIONS</b>  |   |
|---|---|
| <b>MAXIMUM QUANTITY PER DISPOSAL</b> (m <sup>3</sup> )                    |   |
| <b>RATE</b> (if applicable) (m <sup>3</sup> /hour or m <sup>3</sup> /day) | <b>FREQUENCY</b> (disposals per day, week or month) |
| <b>SPEED DURING DISPOSAL</b>  | <b>TIME REQUIRED FOR DISCHARGE</b> (minutes)        |
| <b>TRACK TO BE FOLLOWED DURING DISPOSAL</b>                               |   |
| <b>NUMBER OF PAGES ATTACHED</b> <input type="checkbox"/>                  |   |

| <b>CARRIER INFORMATION</b> - If unknown, this may be provided at a later date but prior to start of operations. |                      |                             |
|---|----------------------|-----------------------------|
| <b>NAME AND ADDRESS OF CARRIER</b>  | <b>TELEPHONE NO.</b> | <b>EMAIL ADDRESS/FAX NO</b> |
| <b>NAME, TITLE AND ADDRESS OF OWNER OF SHIP, AIRCRAFT, PLATFORM OR STRUCTURE USED TO CARRY OUT DISPOSAL</b>     | <b>TELEPHONE NO.</b> | <b>EMAIL ADDRESS/FAX NO</b> |
| <b>NAME OF INDIVIDUALS RESPONSIBLE FOR LOADING OR DISPOSAL ON BEHALF OF APPLICANT</b> (including the master)    | <b>TELEPHONE NO.</b> | <b>EMAIL ADDRESS/FAX NO</b> |
| <b>NAME OR NUMBER OF SHIP, AIRCRAFT, PLATFORM OR STRUCTURE USED TO CARRY OUT DISPOSAL</b>                       |                      |                             |

| <b>APPROVALS</b> - List all permits, licences and reviews, including environmental impact assessments, that are required by any federal, provincial, territorial, municipal or local agency for the carrying out of the activity described in this application. |                         |               |  |   |  |
|---|-------------------------|---------------|--|---|--|
| <b>ISSUING AGENCY</b>   | <b>TYPE OF APPROVAL</b> | <b>ID NO.</b> | <b>DATE OF APPLICATION</b><br>(year/month/day) | <b>DATE OF APPROVAL</b><br>(year/month/day) | <b>DATE OF REFUSAL</b><br>(year/month/day) |
|   |                         |               |  |   |  |
|   |                         |               |  |   |  |
|   |                         |               |  |   |  |
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|   |                         |               |  |   |  |
|   |                         |               |  |   |  |
|   |                         |               |  |   |  |

| <b>NOTICE OF APPLICATION</b> - Attach evidence that a notice was published under paragraph 127(2)(d) of the Act. |  |   |
|--|--|---|
| <b>CLIPPING ATTACHED</b> <input type="checkbox"/>  |  |   |
| <b>NAME OF PUBLICATION</b>   | <b>PLACE OF PUBLICATION</b> (city, province) | <b>DATE OF PUBLICATION</b> (year/month/day) |
|  |  |   |

**LOADING SITE PROFILE (HISTORICAL DATA, CURRENT USES AND PROXIMITY TO SENSITIVE AREAS)**

**FACTORS INFLUENCING LOAD SITE MATERIAL QUALITY** - Indicate how each load (dredging) site was used during the last 10 years. Provide a map and show, by means of the symbols indicated below, the location of the major operating and historical facilities in the vicinity of the site. Indicate your sources of information and attach a copy of the information where possible. Where the source is a person, provide the person's name, address and telephone number.

| FACILITIES   | SYMBOL    |            | SOURCES OF INFORMATION |
|--|-----------|------------|------------------------|
|  | OPERATING | HISTORICAL |                        |
| (a) oil refineries;  | (O)       | (O*)       | _____                  |
| (b) mills (specify type);                                  | (M)       | (M*)       | _____                  |
| (c) mines (specify type);                                  | (N)       | (N*)       | _____                  |
| (d) sewage outfalls;                                       | (S)       | (S*)       | _____                  |
| (e) storm drains/pipes;                                    | (P)       | (P*)       | _____                  |
| (f) shipping docks;  | (D)       | (D*)       | _____                  |
| (g) other industries (specify); and                        | (I)       | (I*)       | _____                  |
| (h) other source of pollution and contamination (specify). | (C)       | (C*)       | _____                  |

**NUMBER OF PAGES ATTACHED**

**PROXIMITY TO SENSITIVE AREAS** - For a new disposal site, provide a map that shows, by means of the symbols set out below, the location of all sensitive areas in the disposal site's vicinity. Indicate your sources of information and attach a copy of the information if possible. If the source is a person, provide the person's name, address and telephone number.

| SENSITIVE AREAS  | SYMBOL | SOURCES OF INFORMATION |
|--|--------|------------------------|
| (a) recreational areas;  | (RA)   | _____                  |
| (b) spawning and nursery areas;  | (SN)   | _____                  |
| (c) known migration routes of living marine resources;   | (MR)   | _____                  |
| (d) sport and commercial fishing areas;  | (FA)   | _____                  |
| (e) areas of natural beauty or cultural or historical importance;  | (BH)   | _____                  |
| (f) areas of special scientific or biological importance;  | (IS)   | _____                  |
| (g) aquaculture;   | (AC)   | _____                  |
| (h) shipping lanes;  | (SL)   | _____                  |
| (i) areas of the seafloor having engineering uses (mining, cables, desalination or energy conversion sites); | (EU)   | _____                  |
| (j) marine protected areas, ecological reserves and bird sanctuaries;  | (PA)   | _____                  |
| (k) critical habitat for species at risk; and  | (CH)   | _____                  |
| (l) other areas (describe use e.g. water intakes).   | (XZ)   | _____                  |

**NUMBER OF PAGES ATTACHED**

**DETAILED CHARACTERIZATION OF MATERIAL TO BE DREDGED (CHEMICAL, BIOLOGICAL AND PHYSICAL INFORMATION)**

**CHEMICAL INFORMATION** - Provide a chemical characterization of the substance. If possible, attach detailed data and methods and the quality assurance and control data and methods. If no data are provided, explain why. See the Applicant's Guide - Chapter 3: The Disposal at Sea Permitting Process for Dredged Material for details of additional information that must be included in your application.

Identify the presence of the following in any soil, sediment and pore water being disposed of:

- (a) cadmium;
- (b) mercury;
- (c) other metals identified through a full metal scan;
- (d) total polychlorinated biphenyls (PCBs);
- (e) total polycyclic aromatic hydrocarbons (PAHs);
- (f) total organic carbons; and
- (g) other chemicals that may be specified by the Minister for the purpose of complying with Schedule 6 to the Act.

**NUMBER OF PAGES ATTACHED**

**BIOLOGICAL INFORMATION** - Provide an assessment of the potential effects of the substance, including toxicity, on living marine resources. If possible, attach detailed bioassessment data and methods and the quality assurance and control data and methods. If no data are provided, explain why. See the Applicant's Guide - Chapter 3: The Disposal at Sea Permitting Process for Dredged Materials for details of additional information that must be included in your application.

NUMBER OF PAGES ATTACHED

**PHYSICAL INFORMATION** - Provide an assessment of the potential of the substance, once disposed of at sea, to cause long-term physical effects. If possible, attach detailed physical data and methods and the quality assurance and control data and methods. If no data are provided, explain why. See the Applicant's Guide - Chapter 3: The Disposal at Sea Permitting Process for Dredged Materials for details of additional information that must be included in your application.

Provide the following information in respect of the waste to be disposed of:

- (a) the grain size of any soil or sediment; and
- (b) any other physical data that may be specified by the Minister for the purpose of complying with Schedule 6 to the Act.

NUMBER OF PAGES ATTACHED

### INFORMATION ON ALTERNATIVES TO DISPOSAL AT SEA

**WASTE ASSESSMENT** - See Schedule 6 to the Act or contact the nearest Disposal at Sea regional office.

NUMBER OF PAGES ATTACHED

**ALTERNATIVES** - Provide a comparative assessment of disposal at sea and other practicable alternatives that indicates the following:

- (a) environmental impact;
- (b) risk to human health;
- (c) hazards (including accidents) associated with treatment, packaging, transport and disposal;
- (d) economics (including energy costs); and
- (e) conflicting use of resources (potential and actual).

NUMBER OF PAGES ATTACHED

**PREVIOUS DISPOSAL METHODS** - Describe the methods, if any, other than disposal at sea, that you have previously used to dispose of the same type of substance. Indicate dates and locations.

NUMBER OF PAGES ATTACHED

**MITIGATION** - Indicate measures intended to minimize the environmental, health, navigational and aesthetic impacts during loading, transport and disposal. Check on the form the following mitigation measures that apply to the loading and disposal activity.

General mitigation measures for project activities:

- The project will be carried out in compliance with all applicable legislation including the *Species at Risk Act*, the *Fisheries Act* and *Marine Mammal Regulations*, and the *Canadian Environmental Protection Act, 1999* and *Disposal at Sea Regulations*.
- Vessel operators will be appropriately trained and qualified and familiar with the operational area.
- Vessels will be appropriately marked in accordance with regulations administered by Transport Canada.
- The equipment used will be in proper working order and will be maintained in such a way so as to adequately prevent leaks and spills.

Mitigation measures for dredging:

- Dredging operators will be properly trained and will operate equipment based on best industry practices, which will include utilizing techniques that will minimize the re-suspension of sediments in the water column.
- Dredging operators will ensure that the bucket is fully emptied into the barge before swinging the bucket back over the water.
- Scheduling of dredging activities will take into account tides and currents.
- Water-based equipment or machinery will be located and secured in such a way as to prevent grounding onto intertidal marshes, the foreshore or the river bed.
- Dredging and loading time will be minimized to the extent possible, and appropriate techniques will be utilized to keep sediment within the immediate work area.
- Every reasonable effort will be made to minimize any overflow or spillage from the barges.
- Direct or indirect releases of water containing elevated suspended solids or elevated turbidity will be minimized or managed.

Mitigation measures for transit to the disposal site:

- Barges destined for the disposal site will only transit under suitable conditions to minimize chances of spillage en route.
- The most direct navigational route from the load site to the disposal site will be taken.

Mitigation measures for disposal at sea activities:

- The dredge material to be disposed of will have the appropriate physical characteristics for disposal, and the contaminant levels will meet the criteria outlined in the *Disposal at Sea Regulations* of the *Canadian Environmental Protection Act, 1999*.
- All disposal activity must occur within the specified disposal site boundaries.
- Disposal time will be minimized to the extent possible.

Other (if applicable):

- The project is to be carried out in accordance with mitigation measures outlined below or in the report attached.

NUMBER OF PAGES ATTACHED

**TIME RESTRICTIONS** - If the load site or disposal site is to be in the vicinity of spawning areas, migration routes or fishing areas, list the major species involved and the periods during which they are the most sensitive (active time of year).

NUMBER OF PAGES ATTACHED

If this application is to be submitted by an agent of the Applicant, the Applicant must complete the following authorization:

I authorize \_\_\_\_\_ (*print name*) to act on my behalf as my agent in the processing of this application and to furnish, on request, supplemental information in support of this application.

\_\_\_\_\_

Date

Name (*print*)

Signature

This application is made for a permit authorizing the activity described in this application. I certify that I have reviewed the information provided in this application and that, to the best of my knowledge and belief, the information is true, complete and accurate. I further certify that I am authorized to undertake the proposed activity or am acting as the Applicant's duly authorized agent.

\_\_\_\_\_

Date

Name (*print*)

Signature

\_\_\_\_\_

Telephone No.

\_\_\_\_\_

Fax No.

Send the completed permit application, the application fee and all supporting documentation to your nearest regional Disposal at Sea Program office of Environment Canada.