



**PORT of  
vancouver**

Vancouver Fraser  
Port Authority

**VANCOUVER FRASER PORT AUTHORITY  
PROJECT AND ENVIRONMENTAL REVIEW  
REPORT AND PERMIT**

<b>PER No.:</b>	<b>22-046</b>
<b>Tenant:</b>	<b>Peter Kiewit Sons ULC</b>
<b>Project:</b>	<b>Maintenance Dredging at 1950 Brigantine Drive, Port Coquitlam</b>
<b>Project Location:</b>	<b>1950 Brigantine Drive, Port Coquitlam</b>
<b>Vancouver Fraser Port Authority SID No.:</b>	<b>COQ332</b>
<b>Land Use Designation:</b>	<b>Log Storage and Barge Moorage</b>
<b>Applicant/Permit Holder:</b>	<b>Active Earth Engineering Ltd. Working on behalf of Peter Kiewit Sons ULC</b>
<b>Category of Review:</b>	<b>B</b>
<b>Date of Approval:</b>	<b>June 30, 2022</b>
<b>Date of Expiry:</b>	<b>June 30, 2027</b>

## 1 INTRODUCTION

The Vancouver Fraser Port Authority (the “Port Authority”), a federal Port Authority, manages lands under the purview of the *Canada Marine Act*, which imparts responsibilities for environmental protection. The Port Authority accordingly conducts project and environmental reviews of works and activities undertaken on these lands to ensure that the works and activities will not likely cause significant adverse environmental effects. This project and environmental review report and project permit (the “Permit”) documents the Port Authority’s project and environmental review of PER No. 22-046: Maintenance Dredging at 1950 Brigantine Drive, Port Coquitlam (the “Project”) proposed by Active Earth Engineering Ltd. working on behalf of Peter Kiewit Sons ULC (the “Applicant”).

This project and environmental review was carried out to address the Port Authority’s responsibilities under the *Canada Marine Act*, and to meet the requirements of the *Impact Assessment Act*, as applicable. The proposed Project is not considered a “designated project” under the *Impact Assessment Act* and an impact assessment as described in the *Impact Assessment Act* is not required. However, Port Authority authorization is required for the proposed Project to proceed and in such circumstances, where applicable, Section 82 of the *Impact Assessment Act* requires federal authorities to assure themselves that projects will not likely cause significant adverse environmental effects. This review provides that assurance. In addition, the Port Authority considers other interests, impacts and mitigations through the project and environmental review.

The project and environmental review considered the application along with supporting studies, assessments and consultations carried out or commissioned by the Applicant, as well as other information provided by the Applicant. In addition, this project and environmental review considered other information available to the Port Authority and other consultation carried out by the Port Authority. A full list of information sources germane to the review is provided in the following pages of this report.

This Permit is the authorizing document allowing the Applicant to proceed with the Project subject to the listed project and environmental conditions.

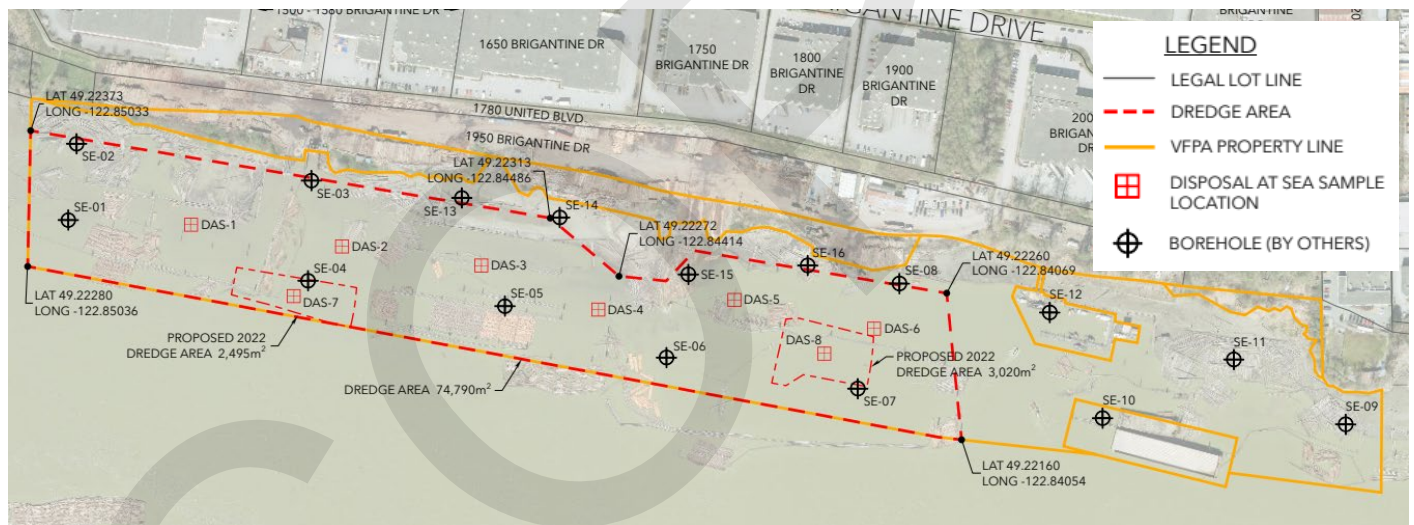
## 2 PROJECT OVERVIEW

### 2.1 Project Description

The Applicant proposes to conduct periodic maintenance dredging of up to 4,000 cubic metres per year in the water lot fronting 1950 Brigantine Drive, Port Coquitlam. Maintenance dredging is required to remove accumulated sediments from within the water lot to restore design grades and ensure safe moorage and operation of marine construction equipment (i.e., barges and support vessels) during all tidal conditions. Similar maintenance dredging was most recently conducted from 2017 to 2020 under Port Authority Permit number PER 16-057.

In this project permit, the Project means the physical activities authorized by the Port Authority to be carried out pursuant to **PER No. 22-046**, as described below.

- The Applicant proposes to conduct maintenance dredging using a barge-mounted crane and clamshell equipment. The estimated dredge volume is up to 4,000 cubic metres per event, with the dredged material being disposed of under a valid disposal at sea permit
- The maximum targeted dredge grade depth is approximately -6.1 metres local low water, consistent with previous maintenance dredging activities. The total dredge footprint is approximately 5,500 square metres
- Dredged materials will be loaded onto barges for transport and disposal at an approved disposal at sea site. Sediment quality testing was most recently completed in May 2022
- Dredging is anticipated to take a few days to complete per dredge event and will be scheduled between June 16 to September 1 for the first year and December 1 to January 31 thereafter.



**Figure 1.** Proposed dredge area (in red) and sediment sample locations.

### 3 INDIGENOUS CONSULTATION

The Port Authority has reviewed the proposed works and determined that adverse impacts to Aboriginal or Treaty rights are not expected. In light of the requirements in the relationship agreement with Tsawwassen First Nation, the Port Authority notified Tsawwassen First Nation of the proposed works and no comments were received.

Based on this information, the Port Authority is of the view that the duty to consult has been met.

### 4 EXISTING POLICIES OR GUIDELINES

The Project area is designated as “Log Storage and Barge Moorage” in the Port Authority Land Use Plan (2020).

The Project is compliant with the Land Use Plan.

## 5 NOTIFICATIONS

### 5.1 Municipal Notification

The proposed Project was assessed by the Port Authority to have no potential impacts to municipal interests. As a result, municipal consultation was not conducted.

### 5.2 Adjacent Tenant Notification

The proposed Project was assessed by the Port Authority to have potential impacts on adjacent tenant's interests. A conference call was held between Transmountain Pipeline ULC, the Applicant and the Port Authority to review the proposed scope of work for the Project and discuss mitigations to reduce impacts on Transmountain Pipeline ULC. The conference call also discussed a separate project permit application: PER No. 22-047 – Peter Kiewit ULC Pile – Replacement and Removals. As a result of the conference call, Transmountain Pipeline ULC requested that the Applicant provide a dredging procedure for maintenance dredging and information on any future dredging activities. This request is reflected under Section 8 Project and Environmental Conditions **Condition 17**.

### 5.3 Public Engagement

To meet requirements of section 86 of the *Impact Assessment Act*, the Port Authority posted a description of the Project and notice of public participation to the Canadian Impact Assessment Registry to provide the public 30 calendar days to comment on the Project and provide community knowledge.

The comment period ran from May 18 to June 16, 2022. At the close of the 30-calendar day public comment period, no comments were received.

The proposed Project was assessed by the Port Authority to have minimal or no potential impacts to community interests in the surrounding area either during construction or once the Project is completed. Therefore, no construction notification was required.

## 6 INFORMATION SOURCES

The Port Authority has relied upon the following sources of information in its review of the Project.

- Application form and materials submitted by the Applicant on April 4, 2022
- Project correspondence from May 5, 2022 to June 24, 2022

## 7 PROJECT AND ENVIRONMENTAL REVIEW DECISION

In completing the project and environmental review, the Port Authority has reviewed and taken into account relevant information available on the proposed project and has considered any adverse impact that the Project may have on the rights of Indigenous peoples, Indigenous knowledge, community knowledge, comments received from the public, and measures that would mitigate any significant adverse environmental effects of the Project. We conclude that with the implementation of proposed mitigation measures and conditions described in the project and environmental conditions section below, the Project is not likely to cause significant adverse environmental effects.

In completing the project and environmental review, the Port Authority concludes that with the implementation of proposed mitigation measures and conditions described in the project and environmental conditions section below, the Project has appropriately addressed all identified concerns.

Project Permit PER No. 22-046 is approved by:

ORIGINAL COPY SIGNED

June 30, 2022

**CHRIS BISHOP**  
**MANAGER, PROJECT AND ENVIRONMENTAL**  
**REVIEW**

**DATE OF APPROVAL**

## 8 PROJECT AND ENVIRONMENTAL CONDITIONS

The Port Authority has undertaken and completed a review of the Project in accordance with the *Canada Marine Act* and Section 5 of the Port Authorities Operations Regulations and, as applicable, Section 82 of the *Impact Assessment Act*.

If at any time Peter Kiewit Sons ULC (the "Permit Holder") fails to comply with any of the project and environmental conditions set out in the project permit (the "Permit") below, or if the Port Authority determines that the Permit Holder has provided any incomplete, incorrect or misleading information in relation to the Project, the Port Authority may, in its sole and absolute discretion, cancel its authorization for the Project or change the project and environmental conditions to which such authorization is subject.

Pursuant to Section 29 of the *Port Authorities Operations Regulations*, the Port Authority may also cancel its authorization for the Project, or change the project and environmental conditions to which such authorization is subject, if new information is made available to the Port Authority at any time in relation to the potential adverse environmental and other effects of the Project.

**The following are the minimum conditions that must be followed by the Permit Holder to mitigate potential or foreseeable adverse environmental and other effects.**

Port Authority Guidelines and Record Drawing Standards referenced in this document can be located at:

<https://www.portvancouver.com/permitting-and-reviews/per/project-and-environment-review-applicant/guidelines/>.

No.	GENERAL CONDITIONS
1.	The Permit Holder must have a valid lease, licence, or access agreement for the Project site prior to accessing the Project site or commencing construction or any other physical activities on the Project site. This Permit shall in no way limit any of the Permit Holder's obligations, or the Port Authority's rights, under such lease, licence, or access agreement.
2.	The Permit Holder shall at all times and in all respects, comply with and abide by all applicable statutes, laws, regulations and orders from time to time in force and effect, including all applicable environmental, labour and safety laws and regulations.
3.	This Permit in no way endorses or warrants the design, engineering, or construction of the Project and no person may rely upon this Permit for any purpose other than the fact that the Port Authority has permitted the construction of the Project, in accordance with the terms and conditions of this Permit.
4.	The Permit Holder shall indemnify and save harmless the Port Authority in respect of all claims, losses, costs, fines, penalties or other liabilities, including legal fees, arising out of: (a) any bodily injury or death, property damage or any loss or damage arising out of or in any way connected with the Project; and (b) any breach by the Permit Holder of its obligations under this Permit.

5.	The Permit Holder is responsible for locating all existing site services and utilities, including any located underground. The Permit Holder shall provide an Infrastructure Surveyed Data Drawing that includes topographic and utility locate data based on surveys in accordance with the Port Authority's Record Drawing Standards. The Permit Holder is responsible for repair or replacement of any damage to existing site services and utilities, to the satisfaction of the Port Authority, that result from construction and operation of the Project.	
6.	The Permit Holder shall undertake and deliver the Project to total completion in a professional, timely and diligent manner in accordance with applicable standards and specifications set out in the sections above entitled Project Description and Information Sources. The Permit Holder shall not carry out any other physical activities unless expressly authorized by the Port Authority.	
7.	The Permit Holder shall cooperate fully with the Port Authority in respect of any review by the Port Authority of the Permit Holder's compliance with this Permit, including providing information and documentation in a timely manner, as required by the Port Authority. The Permit Holder is solely responsible for demonstrating the Permit Holder's compliance with this Permit.	
8.	The Permit Holder shall review the Permit with all employees, agents, contractors, licensees and invitees working on the Project site, prior to such parties participating in any construction or other physical activities on the Project site. The Permit Holder shall be solely responsible for ensuring that all such employees, agents, contractors, licensees and invitees comply with this Permit.	
9.	The Permit Holder shall make available upon request by any regulatory authority (such as a Fishery Officer) a copy of this Permit.	
10.	Unless otherwise specified, the Permit Holder shall provide plans, documents, and notices required under this Permit to the following email address: <b>per@portvancouver.com</b> and referencing <b>PER No. 22-046</b> .	
11.	Unless otherwise specified, all plans, schedules, and other Project-related documentation that the Permit Holder is required to provide under this Permit, and any subsequent updates, must be to the Port Authority's satisfaction.	
12.	The Port Authority shall have unfettered access to environmental compliance documentation and the Project site at all times during construction without notice.	
13.	The Permit Holder must maintain and retain any records associated with, or produced by, actions or activities undertaken to achieve compliance or that indicate non-compliance with project permit conditions. These records must be made available at the request of the Port Authority.	
	<b>CONDITIONS – PRIOR TO COMMENCING CONSTRUCTION OR ANY PHYSICAL ACTIVITIES</b>	<b>SUBMISSION TIMING (business days)</b>
14.	The Permit Holder shall have in place a spill prevention, containment and clean-up plan for hydrocarbon products (including fuel, oil and hydraulic fluid) and any other deleterious substances. Appropriate spill containment and clean-up supplies shall be available on the Project site at all times and all personnel working on the Project shall be trained on the spill prevention, containment and clean-up plan. The Permit Holder shall carry out the Project in accordance with the spill prevention, containment and clean-up plan.	Before commencing construction or any physical activities

15.	Prior to the commencement of any vessel-related activities, the Permit Holder shall contact Canadian Coast Guard (CCG) Marine Communications and Traffic Services (MCTS), (email: <a href="mailto:NAVWARN.MCTSPrinceRupert@innav.gc.ca">NAVWARN.MCTSPrinceRupert@innav.gc.ca</a> ; Phone: 250-627-3070) regarding the issuance of a Navigational Warning (NAVWARN) to advise the marine community of potential hazards associated with the Project. The Port Authority's Marine Operations department must be copied into the request ( <a href="mailto:navigation.review@portvancouver.com">navigation.review@portvancouver.com</a> ).	As per Coast Guard requirements
16.	<p>The Permit Holder shall submit a marine construction and staging plan to the Port Authority's satisfaction, which includes:</p> <ul style="list-style-type: none"> <li>a) Identification of navigation related hazards and risk mitigation measures;</li> <li>b) Staging and construction areas;</li> <li>c) Dates and hours of operations;</li> <li>d) Description of activities taking place;</li> <li>e) Participating equipment and vessels (dimensions must be included);</li> <li>f) Method of preferred communication with marine users;</li> <li>g) Method of communicating updates to relevant marine users;</li> <li>h) Emergency contact information; and</li> <li>h) Special requests and/or additional information.</li> </ul> <p>The Permit Holder shall carry out the Project in accordance with the marine construction and staging plan, including any subsequent updates made to the Port Authority's satisfaction.</p>	15 business days prior to commencing construction or any physical activities
17.	The Permit Holder shall submit a dredge management plan to the Port Authority's satisfaction. The Permit Holder shall carry out the Project in accordance with the dredge management plan, and any subsequent updates made to the Port Authority's satisfaction.	15 business days prior to commencing construction or any physical activities
<b>CONDITIONS – DURING CONSTRUCTION OR ANY PHYSICAL ACTIVITIES</b>		
18.	Physical activities related to the Project may proceed up to 7 days a week, 24 hours a day.	
19.	The Permit Holder shall notify the Port Authority within two business days of any complaints received from the community and stakeholders during construction and indicate how the Permit Holder has responded to such complaints.	
20.	Without limiting the generality of permit condition #2, the Permit Holder shall ensure that dredged material that is intended for upland placement complies with all applicable legislation and regulations. The Permit Holder shall appropriately manage any contamination associated with the dredged material and maintain records of off-site disposal.	
21.	Without limiting the generality of permit condition #2, all material intended for disposal at sea shall be approved under a valid Disposal at Sea Permit pursuant to the provisions of Part 7, Division 3 of the <i>Canadian Environmental Protection Act</i> , 1999.	
22.	Without limiting the generality of permit condition #2, the Permit Holder shall not, directly or indirectly: (a) deposit or permit the deposit of a deleterious substance of any type in water frequented by fish in a manner contrary to Section 36 of the <i>Fisheries Act</i> ; or (b) adversely affect fish or fish habitat in a manner contrary to Section 35 of the <i>Fisheries Act</i> .	

23.	<p>The Permit Holder shall not permit sediment, sediment-laden waters, or other deleterious substances to enter the water during the Project. The Permit Holder shall carry out all physical activities in a manner that prevents induced sedimentation of foreshore and near shore areas and induced turbidity of local waters, and the release of sediment, sediment-laden waters, and turbid waters to the aquatic environment. The Permit Holder shall manage turbidity in compliance with the following water quality criteria:</p> <ul style="list-style-type: none"> <li>a) when background is less than or equal to 50 nephelometric turbidity units (NTU), induced turbidity shall not exceed 5 NTU above the background values; and</li> <li>b) when background is greater than 50 NTU, induced turbidity shall not exceed the background values by more than 10% of the background value.</li> </ul> <p>For the purposes of this condition, “background” means the level at an appropriate adjacent reference site (as determined to the satisfaction of the Port Authority) that is affected neither by physical activities at the project site, nor sediment-laden or turbid waters resulting from physical activities at the project site.</p>
24.	<p>To reduce potential impacts to white sturgeon and other fish species, dredging is only permitted to occur between June 16 to September 1 and December 1 to January 31, inclusive, unless otherwise approved in writing by Fisheries and Oceans Canada (DFO) or the Port Authority. The Port Authority shall be notified of any DFO exemptions allowing works outside this period.</p>
25.	<p>The Permit Holder shall immediately cease work and notify the Port Authority if the Permit Holder has reasonable grounds to believe that the Project has harmed fish or fish habitat, including observation of distressed, injured, or dead fish. The Permit Holder shall not resume work until authorized by the Port Authority.</p>
26.	<p>The Permit Holder shall contain and collect debris and waste material in the immediate working area within the Project site. The Permit Holder shall dispose of waste material at suitable upland locations and maintain records of off-site disposal.</p>
27.	<p>The Permit Holder shall maintain equipment in good mechanical condition and free of fluid leaks, invasive species, and noxious weeds.</p>
28.	<p>The Permit Holder shall not permit barges or other vessels used during the Project to ground on the foreshore or riverbed or otherwise disturb the foreshore or riverbed (including disturbance as a result of vessel propeller wash), excepting only such disturbance as is reasonably required resulting from the use of barge spuds.</p>
29.	<p>During any vessel-related activities, the Permit Holder shall:</p> <ul style="list-style-type: none"> <li>a) Position vessels and equipment associated with the Project in such a manner so as not to obstruct line of sight to navigational aids or markers</li> <li>b) Exhibit the appropriate lights and day shapes at all times</li> <li>c) Monitor the VHF channel used for MCTS communications in the respective area at all times and participate as necessary</li> <li>d) Be familiar with vessel movements in areas affected by the Project</li> <li>e) Plan and execute the Project in a manner that will not impede navigation or interfere with vessel operations</li> <li>f) During night hours, unless working 24 hours per day, ensure that the rig and associated equipment is moored outside the navigation channel and lit in accordance with all applicable regulations</li> </ul>

	CONDITIONS – UPON COMPLETION	SUBMISSION TIMING (Business Days)
30.	The Permit Holder shall notify the Port Authority upon completion of the Project.	Upon substantial completion
31.	The Permit Holder must contact the Database Information Office of the CHS at (250) 363-6360 or chsdatacentre@dfo-mpo.gc.ca to arrange for the relevant Canadian Hydrographic Service charts to be updated. The Port Authority's Marine Operations department must be copied into the request (navigation.review@portvancouver.com).	Upon completion
<b>The Port Authority reserves the right to rescind or revise these conditions at any time that new information warranting this action is made available to the Port Authority.</b>		
<b>LENGTH OF PERMIT VALIDITY</b>		
The Project must be completed no later than <b>June 30, 2027</b> (the "Expiry Date").		
<b>AMENDMENTS</b>		
<ul style="list-style-type: none"> <li>• Details of any material proposed changes to the Project, including days and hours when construction and any physical activities will be conducted, must be submitted to the Port Authority for consideration of an amendment to this Permit.</li> <li>• For an extension to the Expiry Date, the Permit Holder must apply in writing to the Port Authority no later than 40 business days prior to that date.</li> </ul>		
<b>Failure to apply for an extension as required may, at the sole discretion of the Port Authority, result in termination of this Permit.</b>		

## CONTACT INFORMATION

Vancouver Fraser Port Authority  
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Project and Environmental Review  
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Website: [www.portvancouver.com](http://www.portvancouver.com)

### After normal business hours:

In the event of any land or marine construction incidents or concerns related to works carried out on-site under this permit, please contact the 24/7 Port Operations Centre 604-665-9086. In the event of an emergency requiring 'First Responders', please call 911 first.