



NEW WESTMINSTER

September 15, 2023

ENQUIRIES AND RESPONSES # 1
NWIT-23-14
Quayside Dock Dredging
New Westminster, BC

ANSWERS TO SUBMITTED QUESTIONS

- Q1 As per Section 35 24 00 – 3.1 Dredging Equipment - .2 ‘Use trucks for transporting the dredged material to an onshore disposal site’. Please confirm that transporting of the dredged material by barge is acceptable.
- A1 [Transporting the dredged material by barge is acceptable.](#)
- Q2 Please confirm if insurance for the Samson V paddle wheeler is required for the removal, storage and return of the vessel. If so please advise insurance requirements.
- A2 [Insurance for removal, storage and return of the Samson V is already in place.](#)
- Q3 Please confirm that the cost of implementing a silt curtain (if required) is to be included in the base price for this work.
- A3 [This should be included in the base cost.](#)
- Q4 As per Section 35 24 00 – 3.3 Protection of Existing Structures - .1 ‘Do not dredge material from areas within one metre of existing structures unless authorized by the consultant’. Please confirm that dredging of material within one metre of existing structures within the dredge cut (i.e. Samson V mooring piles, timber dock mooring piles, boardwalk support piles) is acceptable.
- A4 [This is acceptable.](#)
- Q5 There are existing abandoned creosote pilings within the dredge cut. Please confirm that these pilings are to be removed and disposed up-land.
- A5 [Any removal of existing/abandoned piles shall be discussed and approved by the Owner prior to removal.](#)
- Q6 Please confirm that sweeping the dredge cut with a heavy steel beam is required upon the completion of dredging. If so please elaborate on what type of calibration is required for this steel beam.
- A6 [A post-dredge bathymetry survey is required and is preferred over sweeping.](#)
- Q7 Section 01 35 43 – 1.5 Permits - .4 ‘The owner has received a Change Approval from FLNRORD under the Water Sustainability Act. See Appendix 7 for a copy of the Change Approval’. We do not see Appendix 7 in the tender documents. Please provide a copy of the Change Approval from FLNRORD
- A7 [A copy of the Change Approval from FLNRORD is attached.](#)

- Q8 Section 01 35 43 – 1.6 Contractors Environmental Monitor – .5 ‘Oversee relocation of vertebrates from the steel damping frames prior to their removal and from the intertidal area prior to placement of anchor boulders’. Please confirm this specification applies to this project.
- A8 Refer to Addendum #2, Specification has been revised to delete this one item (.5).
- Q9 Please confirm the draft of the Samson V.
- A9 4’6”
- Q10 Please confirm the quantity of 3,302m3 does not include the 300mm over dredge allowance. If not, please provide CAD files so this can be determined or advise the total volume of over dredge that will be paid for on this project.
- A10 The 3,302m3 volume does not include 300 mm over dredge allowance. There is no maximum volume that will be paid assigned to the project. The riverbed elevation is dynamic over time and the total dredge volume will be agreed following the pre-dredge survey.
- Q11 Please confirm if side slopes under the boardwalk need to be dredged to the exact grade shown on the drawings, or if the natural angle of repose after sloughing from dredging outside the boardwalk is acceptable.
- A11 No dredging with equipment is planned underneath structures. The proposed side slopes are anticipated to be the maximum natural angle of repose of the riverbed sediment. Contractor shall not leave material in an unstable condition prior to project completion.
- Q12 Please confirm the material barge holding the dredge material can be passively dewatered into the work area.
- A12 Confirmed. Once leaving the work area, the barge must be contained.
- Q13 Why is the execution time set at 6 days, and is there any room for flexibility in this timeframe?
- A13 The updated time frame for this project was provided in Addendum #1 and confirmed below:
- Commence construction on Site on October 16, 2023
 - Ready-for-Takeover shall be achieved by October 27, 2023
 - Total completion of the Work shall be achieved on or before November 3, 2023
- Q14 Do you possess any additional information regarding the material composition, apart from what is provided in the sediment characterization file?
- A14 There is no additional information available.
- Q15 Please confirm if the Samson V in its current condition floats.
- A15 Yes, as per attached marine survey completed June 2023.

Q16 Please confirm if the Samson V is seaworthy.

A16 Yes, as per attached marine survey completed June 2023.

Q17 Please confirm if a recent marine survey has been performed on the Samson V.

A17 Yes, as per attached marine survey completed June 2023.

Q18 Please provide drawings of the Samson V. At a minimum a plan view of the Hull showing draft is required. Do you possess any additional information regarding the material composition, apart from what is provided in the sediment characterization file?

A18 A copy of the 1935 design drawings, as well as the 1956 refit design drawings and specifications have been attached. Note that the draft was increased (from 3'6" shown in the original 1935 design) to 4'6" for the 1956 refit (as noted in the 1956 specifications).

END of Enquiries and Responses #1

Yours truly,



Heather M. Rossi
Procurement Specialist



August 29, 2023

Job Number: 125438
File Number: 2010481

City of New Westminster
C/O Engineering Department
511 Royal Avenue
New Westminster, BC, V3L 1H9

Sent by email to: mleong@newwestcity.ca

Attention: Michael Leong

Dear City of New Westminster,

Re: Change Approval – Changes In and About a Stream (File 2010481)

A Change Approval for the above application has been granted and a *Water Sustainability Act* Section 11(1) Changes In and About a Stream Approval document verifying this is attached.

This Change Approval does not authorize entry onto private or Crown owned land. Permission of the affected landowner must be obtained and should be in writing for your protection.

This Approval does not constitute authority of any other agency. The holder of this Approval shall have the necessary permits from other agencies concerned prior to the commencement of the works authorized herein. The permit holder is required to adhere to all other applicable Provincial and Federal Regulations.

A copy of this Approval (and associated plans/drawings listed on this Approval) must be available for inspection, upon request, at any location where the authorized changes in and about a stream are being undertaken.

The holder of this Approval must have permits or other written consent from any affected right-of-way holders before commencing work that could affect utilities or other structures within the rights-of-way.

This Approval does not authorize the alteration or removal of any works held under a water license.

The holder of this Approval shall take reasonable care to avoid damaging any land, works, trees, or other property.

This Approval requires the oversight of an appropriately Qualified Professional. For the purposes of this authorization, that professional must be registered with one of the five professional regulatory bodies named under the *Professional Governance Act* of British Columbia. They must be in good standing and acting under that professional regulatory body's code of ethics and subject to disciplinary action by that professional regulatory body.

Please ensure that bathymetry is used to delineate sediment removal boundaries at each site prior to work starting. This should be communicated to the operators and used to minimize the area being dredged.

Staff within the Ministry of Forests (MOF) Resource Management team are currently working towards a guidance document regarding the Provincial Mitigation Policy offsetting requirements. Upcoming sediment removal applications may be required to align with these updated directives in the future.

You are advised that your project may be inspected during and post construction. You are reminded to notify our office prior to the start of construction to facilitate the timing of inspections. Notification emails should be sent to SouthCoastWSAReporting@gov.bc.ca with the number of this Approval in the subject line.

The holder of this approval shall ensure that any proposed development and/or changes do not impact traditional or special sites in accordance with the *Heritage Conservation Act* or the ability of First Nation community members to participate in traditional activities on the land and water.

Archaeological sites (both recorded and unrecorded) are protected under the *Heritage Conservation Act* and must not be altered or damaged without a permit from the Archaeology Branch. The holder of this approval must advise everyone who will be involved in ground-disturbance and construction that if archaeological materials are encountered, activities must be halted, and the Archaeology Branch contacted at 250-953-3334 for direction.

Section 105 of the *Water Sustainability Act* gives the recipient of this notice the right to appeal my decision. You may file an appeal within 30 days of the date indicated on this letter. Information on filing an appeal can be found on the Environmental Appeal Board WEB site at <http://www.eab.gov.bc.ca/>.

If you have any questions or concerns regarding the document issued or the content of this letter, please contact the South Coast Office at WaterActReferrals.LowerMainland@gov.bc.ca.

Sincerely,



Caroline Ashekian, RPBio
Assistant Water Manager

pc: Bree Milne | Jacobs Environmental Consulting | Bree.Milne@jacobs.com
Heidi McGregor | Ministry of Forests | heidi.mcgregor@gov.bc.ca
Cowichan Tribes
Halalt First Nation
Katzie First Nation
Kwantlen First Nation
Kwikwetlem First Nation
Lyackson First Nation
Musqueam Indian Band
Penelakut Tribe
Semiahmoo First Nation
Snuneymuxw First Nation
Stz'uminus First Nation
S'ólh Téméxw Stewardship Alliance Strategic Engagement Agreement
Ts'uubaa-asatx First Nation
Tsawwassen First Nation
Tsleil-Waututh Nation

Enclosure: WSA Approval Documents 2010481



August 29, 2023

Job Number: 125438
File Number: 2010481

APPROVAL

WATER SUSTAINABILITY ACT - Subsection 11(1) and 11(2)
(Changes In and About a Stream)

CITY OF NEW WESTMINSTER

is hereby authorized to make changes in and about a stream as follows:

- a) The name of the stream is the Fraser River, herein referred to as “the stream”.
- b) The changes to be made in and about the stream are:
 1. Installation of two new pilings;
 2. Maintenance dredging up to a maximum of 4,000 cubic meters of sands and silts.

All within Lot 1, District Lots 3980 and 3981 and bed of the Fraser River, Plan 74261.

- c) The works authorized in this Approval shall be completed on or before February 28, 2026.
- d) Work in the stream and stream channel shall occur only during the period of June 16 to February 28, so that the fisheries interests are protected.
- e) All works shall comply with the following documents and any minor changes hereafter. Any major changes to the design must be submitted to the Water Manager for written authorization.
 1. Change Approval and Notification Application, prepared by Carissa Stenzel, Jacobs Engineering Group Inc., dated March 13, 2023.

2. Environmental Assessment, prepared by Carissa Stenzel, Jacobs Engineering Group Inc., dated June 2023.
 3. Key Aquatic Habitat Questions for Qualified Environmental Professionals - Large Debris and Sediment Removal (By Heavy Machinery) March 31, 2018-Version 1.0 prepared by Carissa Stenzel, Jacobs Engineering Group Inc., dated July 28, 2023.
 4. Key Lower Fraser Sturgeon Habitat Questions for Qualified Environmental Professionals - Fraser, Pitt and Harrison River Instream or Foreshore Construction Projects - Resource Management, FLNRORD – South Coast Region, prepared by Carissa Stenzel, Jacobs Engineering Group Inc., dated July 28, 2023.
 5. Follow-up Memo: Q to Q Quayside Dredging (File No. 2010481) prepared by Carissa Stenzel, Jacobs Engineering Group Inc., dated August 17, 2023.
- f) The holder of this Approval must adhere to the standards of professional accountability, as signed off by Qualified Professional, Carissa Stenzel, Keystone Environmental Ltd., dated July 28, 2023, Questions for Qualified Professionals specific to Key Lower Fraser Sturgeon Habitat Questions and Large Debris and Sediment Removal (By Heavy Machinery), on behalf of the holder of this Approval. It is the responsibility of the holder of this Approval to retain an appropriately Qualified Professional(s) for the relevant duration of works in order to uphold this signed professional assessment.
- g) All work shall be carried out in accordance with the Provincial "Requirements and Best Management Practices for Making Changes In and About a Stream in B.C." (2022). The Provincial guidance document can be found at the following link: <https://www2.gov.bc.ca/assets/gov/environment/air-land-water/water/working-around-water/wsa-cias-requirements-bmps.pdf>.
- h) The holder of this Approval must hire an appropriately Qualified Professional to conduct Environmental Monitoring on all in-stream works authorized under this Approval. The Qualified Professional is responsible for observing the methods of construction and preparing information and reports on the compliance of the construction activities. The Qualified Professional shall:
1. Ensure all best management practices and mitigation measures are in place to avoid and minimize environmental impact on the land and on fish and fish habitat of the stream.
 2. Where applicable, assist in the isolation of the stream prior to the commencement of works.
 3. Implement and ensure erosion and sediment control measures are constructed, installed, and maintained appropriately for the full duration of instream works.
 4. Supervise all instream works authorized under this Approval.
 5. When the works involve temporary diversions to isolate the work site,

- i) Monitor all diversion works daily to ensure pumps and flow bypasses are in proper working condition;
 - ii) Ensure diversion works that include pump intakes be screened for fish and aquatic species in accordance with the “Interim code of practice: End-of-pipe fish protection screens for small water intakes in freshwater” (Fisheries and Oceans Canada, 2020); and
 - iii) Ensure fish are prevented from entering the works.
 6. When the works involve dewatering or isolation of flow and the stream is known or suspected to contain fish and/or amphibians,
 - i) Attend the site prior to conducting any instream works to complete fish and wildlife search and salvage(s);
 - ii) Obtain any permits needed prior to undertaking the salvage(s); and
 - iii) Inspect the extraction area for fish stranding at least once after water levels have declined.
 7. Be granted authority to stop the work authorized under this Approval if deemed necessary to address risks to the environment. The Qualified Professional or their designate, specified in writing, must be on site during all phases of construction in and around the stream to ensure this component is upheld.
 8. Report any spills including detailed information such as time of day, staff involved, nature, cause, and degree of spill, recovery process deployed, and agencies notified.
 9. In the event of an environmental incident or non-compliance with any of the terms or conditions of this Approval, an appropriately Qualified Professional must immediately mitigate the situation. Within 48 hours, each incident must be reported to the Water Manager at SouthCoastWSAReporting@gov.bc.ca with the Approval number in the subject line. The incident report shall describe mitigation measures employed and a rationale as to why works have resumed or the next steps required before works may resume. The holder of this Approval must follow the advice of the appropriately Qualified Professional.
- i) Upon commencement of the project, the work shall be pursued to completion as quickly as possible.
 - j) All equipment and machinery used in or near the stream channel:
 1. Must be in good operating condition and free of leaks, excess oil and grease;
 2. Must have a spill containment kit readily accessible on-site; All staff must be trained in handling and applying a spill kit appropriately to any spills/incidents;
 3. Refueling must occur a minimum of 30 metres away from all streams;
 4. Must use environmentally sensitive hydraulic fluids which are non-toxic to aquatic life and which are readily or inherently bio-degradable; and

5. Any spill of a substance that is toxic, polluting, or deleterious to aquatic life of reportable quantities must be reported to the Dangerous Goods Incident Report 24-hour phone line at 1-800-663-3456.
- k) The works shall not result in depressions that have the ability to trap fish and other aquatic life.
 - l) An appropriately Qualified Professional is responsible for conducting full time observations for schooling fish (e.g., salmon fry and smolts), aggregations of eulachon, and presence of sturgeon in the vicinity of the project for the full-duration of the instream works.
 - m) Within two (2) days of the planned start date of dredging activities, the proposed dredge area shall be scanned in accordance with the following procedures:
 1. Under the supervision of the Qualified Professional, scan the area through the full tidal cycle using ultra-high resolution side scan sonar with an Edge Tech 4125 or equivalent unit.
 2. The Qualified Professional shall review the ultra-high resolution side scan sonar results and shall assess if the work can commence or if additional mitigation measures or scans are required prior to the start of works.
 3. The Qualified Professional is to provide a summary report that details the findings of the side scan work to WaterActReferrals.LowerMainland@gov.bc.ca within one week of the monitoring.
 - n) In the event that distressed, injured or dead fish are observed following the initiation of dredging, all work shall halt immediately and an appropriately Qualified Professional must implement the appropriate mitigation measures and assess if and when the work can re-commence. Each incident shall be reported with the Qualified Professional's assessment and recommendations to the Water Manager at SouthCoastWSAReporting@gov.bc.ca within 48 hours.
 - o) The holder of this Approval must provide a detailed post-construction report no later than December 1 of the year works were completed. The report must be submitted by email to SouthCoastWSAReporting@gov.bc.ca, with the approval file number listed in the subject line of the email and the title of the report. The report shall include a signed statement from an appropriately Qualified Professional summarizing:
 1. The in-stream works undertaken;
 2. The timing of those works;
 3. The total in-stream area directly affected;
 4. The volume of gravel or sediment removed (if applicable);

5. The frequency of monitoring, including the name(s) of the designated monitor(s);
6. The water quality reporting (e.g., turbidity, pH) and accompanying data along with a description of any levels higher than the authorization and what immediate steps were taken (if applicable);
7. Representative site photographs;
8. Whether or not they observed or were otherwise aware of any non-compliance with the terms and conditions of this Approval; and
9. A description of any environmental incidents, non-compliance or other difficulties, and how these were addressed and reported.

Sincerely,

A handwritten signature in black ink, appearing to read 'Caroline Ashekian', with a stylized flourish at the end.

Caroline Ashekian, RPBio
Assistant Water Manager

Tidemark Marine Services Ltd.

**615 Chesterfield Avenue
North Vancouver, B.C. V7M 2M3
Ph. 778-686-2443
e-mail dolmage@telus.net**

TOWING CONDITIONS FOR “SS SAMSON V”.



City of New Westminster
Museum & Archives
Parks, Culture & Recreation
Anvil Centre
777 Columbia St.
New Westminster, BC
V3M 1B6

June 10, 2023.

Attention: Mr. Rob McCullough

Re: Survey of Samson V (June 8, 2023) to determine her suitability to tow to Valley Towing dock, New Westminster or on the Front Street dock face if space is available and return to her berth after dredging operations are completed..

Samson V is fit to tow from her berth to Valley Towing's dock or some suitable berth where she will be securely tied for the duration while her berth is dredged. After her berth is dredged she will be returned and again tied securely in her normal berth.

Valley Towing will move Samson V with two tugs, and not exceed four knots through the water while in transit.

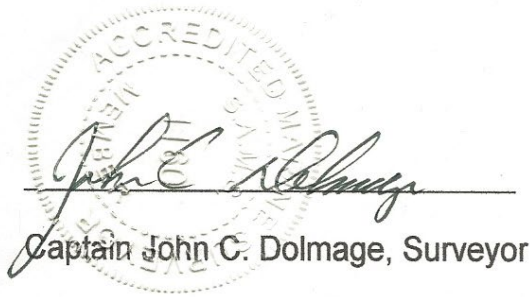
Note:

Samson V's bollards and deck cleats are of sufficient size and condition and are well secured into solid timbers. Both forward shoulders (either side of the bow) are bruised from her years of service and are somewhat fragile. The guards on the starboard side, for most of their length, except the last twenty feet at the stern are very punky and fragile. The port side guards are soft just aft of the forward shoulder, at mid-ships and just a few feet ahead of the stern. The steel sheathing on the starboard bow has been removed. The sheathing across the bow and down the port side is getting thin and fragile and because of the recent dry weather, the wood has shrunk behind it so the fastenings will be somewhat loose. The paddle wheel has been rebuilt in the past few years and is in much better condition than when the vessel was moved in 2018.

There is a steel pipe hoop on the port forward side, adjacent to the dolphin which has been torn away and broken. This should be removed prior to the vessel being moved out of her berth as it is a hazard to the tugboat crews.

All deck lines should be checked for signs of wear or age and be replaced with appropriate new rope (1 ½" to 2" PolySteel) - should there be any concerns raised by the tug crews.

Sincerely,



Captain John C. Dolmage, Surveyor



Accredited Surveyor
500 Tonne Master,
SAMS- AMS #1160
S.V.M.O.,
CraneSafe A-1

Date: June 10, 2023.

Conditions:

Acceptance and use of this report by the client acknowledges the client's understanding that the report has been composed of information that is believed to be true after reasonable investigation and inquiry but is not warranted to be so. The information was obtained without drilling, diving, ultrasonics, cleaning or opening up to expose parts or conditions ordinarily concealed. There were no tests for tightness or soundness conducted other than the conditions noted visually.

Acceptance and use of this report acknowledges the client's understanding that no determination of stability or structural strength has been made and no opinion is expressed.

Acceptance and use of this report acknowledges the client's understanding that Tidemark Marine Services Ltd. does not accept any responsibility for damage or deterioration not found or discovered during the course of survey, nor for consequential damage, deterioration or loss due to any error or omission.

The Client hereby undertakes to keep the Surveyor/Consultant and its employees, agents and subcontractors indemnified and to hold them harmless against all actions, proceedings, claims, demands or liabilities whatsoever or howsoever arising which may be brought against them or incurred or suffered by them, and against and in respect of all costs, loss, damages and expenses (including legal costs and expenses on a full indemnity basis) which the Surveyor/Consultant may suffer or incur (either directly or indirectly) in the course of the services under these Conditions.

Notwithstanding the above clause, in the event that the Client proves that the loss, damage, delay or expense was caused by the negligence, gross negligence or willful default of the Surveyor/Consultant aforesaid, then, save where loss, damage, delay or expense has resulted from the Surveyor's/Consultant's personal act or omission committed with the intent to cause same or recklessly and with knowledge that such loss, damage, delay or expense would probably result, the Surveyor's/Consultant's liability for each incident or series of incidents giving rise to a claim or claims shall never exceed a sum calculated on the basis of ten times the Surveyor's/Consultant's charges.