



HYDRAULIC PROJECT APPROVAL

RCW 77.55.021 - See appeal process at end of HPA

Coastal
48 Devonshire Road
Montesano, WA 98563
(360) 249-4628

Issue Date: September 04, 2013
Project Expiration Date: December 31, 2016

Control Number: 130300-1
FPA/Public Notice #: N/A

<u>PERMITTEE</u>	<u>AUTHORIZED AGENT OR CONTRACTOR</u>
Raft Island Improvement Association (RIIA) ATTENTION: Richard Swenson 219 Raft Island Dr Gig Harbor, WA 98335 253-593-4999	Exeltech Constulting Inc ATTENTION: Karl Kirker 8729 Commerce PI Dr NE Ste A Lacey, WA 98516 360-357-8289

Project Name: Raft Island Bridge Replacment Project
Project Description: Replacing existing bridge crossing Carr Inlet

PROVISIONS

1. Work below the ordinary high water line (OHWL) shall not occur from March 15 through June 14 of any year for the protection of migrating juvenile salmonids.
2. Due to the lengthy surf smelt spawning period in this portion of Puget Sound, work below the OHWL shall not occur from October 1 through April 30 of the proceeding year, unless:
 - a) A biologist certified by WDFW, using WDFW survey protocols, confirms the absence of forage fish eggs during a site inspection;
 - b) The Area Habitat Biologist (AHB) is notified of survey results and approves work start; and,
 - c) Work begins with 48 hours of survey completion and is completed within seven (7) days.

REQUIRED MITIGATION:

3. The entire 788-foot long pre-existing bridge structure, including but not limited to bridge decking, all pilings, and approaches (where applicable), shall be dismantled, mechanically removed, and disposed of at an approved upland disposal location.
4. Alteration or disturbance of native vegetation along the bank shall be limited to that necessary to construct the project. Within seven calendar days of project completion, all disturbed areas shall be protected from erosion using vegetation or other means. Within one year of project completion, the banks, in the same square footage as disturbed by construction activities, shall be re-vegetated with native or other approved woody species as follows:
 - a) Large trees, by species, shall be replanted in a 3:1 ratio. For example, for every western red cedar removed, three western red cedar saplings shall be planted. (A 3:1 ratio has been established to accommodate for the temporal loss of the mature crown and loss of corresponding natural riparian shading);
 - b) Native and non-native shrubs shall be replanted with native vegetation; examples of native vegetation can be found at: <http://www.ecy.wa.gov/programs/sea/pubs/93-30/table3.html>;
 - c) Vegetative cuttings, unless otherwise noted in plans, shall be planted at an interval of three feet on center (shrubs) and ten feet on center (trees); and, maintained as necessary for three years to ensure 80 percent survival.



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NOTIFICATION REQUIREMENT:

5. The AHB (Leonard Machut; email: Leonard.Machut@dfw.wa.gov or fax: 360-876-1894) shall receive written notification from the person to whom this Hydraulic Project Approval (HPA) is issued (permittee) or the agent/contractor no less than three working days prior to the start of construction. Applicant shall contact the AHB at the conclusion of project. All notifications shall include the permittee's name, project location, starting date for work, and the control number for this HPA.
6. Officer Summit shall receive written notification (e-mail: Jeffrey.Summit@dfw.wa.gov or FAX: 360-876-1894) from the person to whom this Hydraulic Project Approval (HPA) is issued (permittee) or the agent/contractor no less than three working days prior to start of work, and again within seven days of completion of work to arrange for a compliance inspection. The notification shall include the permittee's name, project location, starting date for work or completion date of work, and the control number for this HPA.
7. If at any time, as a result of project activities, fish are observed in distress, a fish kill occurs, or water quality problems develop (including equipment leaks or spills), work shall stop immediately except for efforts to control the spill and prevent additional toxic substances from entering the water. Immediate notification shall be made to the Washington Military Department's Emergency Management Division at 1-800-258-5990, and to the AHB. Work shall not resume on the project until approved by the AHB.

APPROVED PLANS:

8. Work shall be accomplished per plans and specifications approved by the Washington Department of Fish and Wildlife entitled "Raft Island Bridge Replacement Project" and dated April 2, 2013 (JARPA), and final revised plans accepted on August 26, 2103, except as modified by this HPA. A copy of the approved plans and the HPA shall be available on site during construction.
9. This approval is for repair/replacement of the existing structure only and shall not result in expansion of the structure.
10. Unless authorized elsewhere in the HPA, equipment shall not be stationed below the OHWL; equipment shall be stationed above the OHWL or on a barge and reach over into intertidal zones to perform work. For example, tracks for the excavator shall not encroach below the OHWL, but the arm and bucket may reach below OHWL to excavate/place material.
11. Sawdust, drillings, and trimmings from wood, treated wood, metal, concrete, composite materials(e.g. Fiberglass), and/or asphalt during all project phases shall be contained with tarps or other impervious materials and prevented from contact with the beach, bed or waters of the state.
12. All manmade debris on the beach shall be removed and disposed of upland such that it does not enter waters of the state.



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BRIDGE DESIGN/CONSTRUCTION PROVISIONS:

13. The bridge shall be constructed to safely pass storm waters and tides, e.g. Extreme High Water (EHW), with consideration of debris likely to be encountered during EHW events.
14. Abutments, piers, piling, sills, approach fills, etc., shall not constrict the tidal flows or channel-wide scour and shall be aligned to minimize impacts on hydraulics within state waters.
15. The solid decked portions of the bridge shall not exceed 753 feet in length and shall not exceed 24 feet in width.
16. Excavation for, and placement of, the abutment and superstructure shall be outside the OHWL.
17. The bridge structure shall be placed in a manner to minimize damage to the bed and banks.
18. Structures containing concrete shall be sufficiently cured prior to contact with water to avoid leaching. Fresh concrete shall not be allowed to come into contact with state waters.
19. Approach material shall be structurally stable and shall be composed of material that if eroded into the water shall not be detrimental to fish life.

PILING INSTALLATION:

20. The barge shall not ground at any point during construction activities. Temporary anchoring during project activities using spud anchors is allowed by this HPA.
21. Use of both a vibratory and impact hammer are authorized under this HPA.
22. The following sound attenuation methods shall be required for the driving or proofing steel piles with an impact hammer below the ordinary high water line:
 - a) For steel piles, 10 inches in diameter or less, a 6 inch thick wood block shall be installed between the piling and the impact hammer during pile driving operations or a bubble curtain shall be installed around the pile during pile driving operations.
 - b) For steel piles greater than 10 inches in diameter, a bubble curtain shall be installed around the pile during pile driving operations. The bubble curtain shall distribute air bubbles around 100 percent of the perimeter of the piling over the full length of the pile in the water column. The bubble curtain shall be installed and properly functioning around the pile during all pile driving operations.
23. Care shall be taken to avoid the suspension of sediments during bed material (e.g. gravel/sand) removal from the internal piling void after proofing and prior to concrete filling. All excess sediment and water derived from this process shall be placed in proper disposal containers on the barge and disposed of by the operators in accordance with appropriate guidelines.

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24. Wet concrete shall be prevented from entering waters of the state. Forms for any concrete structure shall be constructed to prevent leaching of wet concrete. Impervious materials shall be placed over any exposed concrete not lined with the forms that will come in contact with state waters. Forms and impervious materials shall remain in place until the concrete is cured.

OUTFALL PROVISIONS:

25. Use of equipment on the beach shall not occur when the project area is inundated by tidal waters.

26. Use of equipment on the beach shall be held to a minimum, confined to a single access point on the south abutment area, and limited to a 25-foot work corridor parallel to the pipeline. Construction materials shall not touch the beach outside this work corridor.

27. All catch basins, culverts, biofiltration swales, energy dissipation devices, and pipeline outfalls shall be free of obstructions for the life of the project to ensure proper functioning of the stormwater management system.

28. As per plans, the waterward face of the south abutment and boat ramp outfall energy dissipaters, and associated large woody material (LWM), shall be located landward of MHHW.

29. LWM shall comply with the following measurements and specifications:

- a) LWM shall have a minimum 24-inch diameter breast height (dbh), a minimum 10-foot long attached stem portion, and preferably an attached root wad. A single LWM stem or multiple stems may be used to cover the span of the diffuser;
- b) Root wads and stems shall be countersunk half the dbh of the LWM. For example, a 24-inch dbh LWM stem shall be countersunk 12 inches;
- c) LWM shall be securely anchored by galvanized chain so that it will not float or become mobile. Rope, nylon cable, etc. is not permitted;
- d) Raw wood shall be used; LWM for this project shall not be treated with preservatives. LWM shall consist of fir, cedar, or other approved coniferous species. LWM from required riparian vegetation removal may be used, but LWM from outside of direct project activities shall not be harvested on-site for this purpose.

30. LWM shall be fully suspended during its installation so that no portion of the LWM causes damage (i.e. drags on the beach) to the marine zone or wetland plants. Yarding corridors or full suspension shall be used to avoid damage to riparian vegetation. LWM installation shall be accomplished in a manner to minimize the release of bedload or debris.

31. As per plans, the north abutment outfall energy dissipater shall be affixed directly to the bulkhead. Directly waterward of the north abutment dissipater, a splash pad running the length of the diffuser and extending no more than three linear feet waterward of the diffuser may be placed (additional sand can be spread outside of this splash pad in order to match beach grade) as follows:

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- a) The splash pad shall consist of clean round 'pea gravel' or round river cobble, not crushed stone (i.e. angular rock). Gravel shall not contain silty or clay type soils.
b) No portion of splash pad shall be larger than 4 inch rounded cobble. The pad shall consist of a 50% - 50% mix of DOT spec 9-03.11(2) Streambed Cobbles (4" cobbles) and the following:

Sieve Size	Percent Passing by Weight
1-inch	100
1/2-inch	80 to 100
3/8-inch	40 to 80
less than 3/8-inch	0 to 40

32. Excavated material shall not be placed outside the 25-foot work corridor parallel to the pipeline.
33. If excavated material is to be temporarily placed where it will come into contact with tidal waters, this material shall be covered with filter fabric and adequately secured to prevent erosion and/or potential entrainment of fish.
34. All trenches, depressions, or holes created in the beach area shall be backfilled prior to inundation by tidal waters.
35. Materials excavated for outfall anchor placement and burying of LWM, shall be evenly spread across the adjacent intertidal beach area.

BRIDGE REMOVAL PROVISIONS:

36. Removal shall be accomplished by mechanical means. This HPA does not authorize blasting.
37. Removal of the existing structure shall be accomplished so the structure and associated material does not enter state waters. Material shall be disposed of at an approved upland disposal facility.
38. The bridge deck shall be cleaned of aggregate or earth materials prior to bridge removal. This material shall be disposed of so it will not enter state waters.
39. The entire pre-existing bridge shall be dismantled and mechanically removed. Bridge parts that cannot be mechanically removed may be broken/cut into large sections. These sections shall be as large as can safely be handled and shall be removed immediately after separation. Dismantled bridge sections/parts shall not enter state waters. Provision #10 shall be rigorously followed.
40. All existing pilings (below MHHW) shall be removed and disposed of upland such that they do not enter waters of the state.
41. During creosote-piling removal, containment booms and absorbent sausage booms (or other oil absorbent fabric) shall be placed around the perimeter of the work area to capture wood debris, oil,

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and other materials released into marine waters as a result of construction activities. All accumulated debris shall be collected and disposed upland at an approved disposal site.

42. The existing pilings shall be completely extracted and disposed of upland such that they do not enter waters of the state. In the event that the piles cannot be completely removed, the remainder of the pile shall be cut off 2 ft. below the mudline and removed with a clamshell bucket, chain, or similar means. The resulting hole from pile removal shall be filled with clean sand or gravel.

43. Piles removed from the substrate shall be moved immediately from the water into a barge or onto uplands. The pile shall not be shaken, hosed off, left hanging to dry or any other action intended to clean or remove adhering material from the pile.

44. Creosote piles and timbers shall be fully suspended during removal so no portion of the log drags through the water or onto the beach.

GENERAL PROVISIONS:

45. All piling, concrete, and other materials treated with preservatives shall be sufficiently cured to minimize leaching into the water or bed.

46. Beach area depressions created during project activities shall be reshaped to preproject beach level upon project completion.

47. Eelgrass and kelp shall not be adversely impacted due to any project activities (e.g., barge shall not ground, equipment shall not operate, and other project activities shall not occur in eelgrass and kelp).

48. Removal or destruction of overhanging bankline vegetation shall be limited to that necessary for the construction of the project. Trees identified for removal shall be relocated to the beach and left as LWM. Trees shall be naturally anchored, i.e. placed partly in the intertidal zone and partly above OHWL such that they do not become floating hazards.

49. Intertidal wetland vascular plants shall not be adversely impacted due to project activities (e.g., barge shall not ground, equipment shall not operate, and other activities shall not occur in intertidal wetland vascular plants). If such vegetation is adversely impacted, it shall be replaced using proven methodology.

50. All natural habitat features on the beach larger than 12 inches in diameter, including trees, stumps, logs, and large rocks, shall be retained on the beach following construction. These habitat features may be moved during construction if necessary.

51. Project activities shall not degrade water quality to the detriment of fish life.



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52. Project activities shall be conducted to minimize siltation of the beach area and bed.

53. No petroleum products, hydraulic fluid, fresh cement, sediment-laden water, chemicals, or any other toxic or deleterious materials shall leach into the beach or enter surface waters. An emergency spill containment kit must be located on site along with a pollution prevention plan detailing planned fueling, materials storage, and equipment storage.

54. All equipment used on site, including the excavator and hand tools, shall be cleaned thoroughly before arriving at the site. Equipment shall be cleaned after leaving the site and before moving to a new construction site. All water and chemicals used to clean equipment shall be properly disposed of to prevent the spread of invasive species or the entrance of deleterious materials (e.g. petroleum products) into the water column.

55. All debris or deleterious material resulting from construction shall be removed from the beach area and bed and prevented from entering waters of the state.

PROJECT LOCATIONS

Location #1 Raft Island Bridge

WORK START: September 09, 2013				WORK END: December 31, 2016		
WRIA: 15.9130		Waterbody: Wria 15 Marine		Tributary to: Puget Sound		
1/4 SEC: NW 1/4	Section: 10	Township: 21 N	Range: 01 E	Latitude: N 47.32498	Longitude: W 122.66815	County: Pierce
<u>Location #1 Driving Directions</u>						
From Gig Harbor, take Rosedale St. NW wcast away from the city, and then turn left on Ray Nash Dr. NW. Continue on Ray Nash Dr. NW until the fork in the road; continue straight onto Kopachuck Dr, NW. Turn right on Raft Island Rd. and continue until the bridge over Carr Inlet.						

APPLY TO ALL HYDRAULIC PROJECT APPROVALS

This Hydraulic Project Approval pertains only to those requirements of the Washington State Hydraulic Code, specifically Chapter 77.55 RCW (formerly RCW 77.20). Additional authorization from other public agencies may be necessary for this project. The person(s) to whom this Hydraulic Project Approval is issued is responsible for applying for and obtaining any additional authorization from other public agencies (local, state and/or federal) that may be necessary for this project.

This Hydraulic Project Approval shall be available on the job site at all times and all its provisions followed by the person(s) to whom this Hydraulic Project Approval is issued and operator(s) performing the work.

This Hydraulic Project Approval does not authorize trespass.



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The person(s) to whom this Hydraulic Project Approval is issued and operator(s) performing the work may be held liable for any loss or damage to fish life or fish habitat that results from failure to comply with the provisions of this Hydraulic Project Approval.

Failure to comply with the provisions of this Hydraulic Project Approval could result in a civil penalty of up to one hundred dollars per day and/or a gross misdemeanor charge, possibly punishable by fine and/or imprisonment.

All Hydraulic Project Approvals issued under RCW 77.55.021 are subject to additional restrictions, conditions, or revocation if the Department of Fish and Wildlife determines that changed conditions require such action. The person(s) to whom this Hydraulic Project Approval is issued has the right to appeal those decisions. Procedures for filing appeals are listed below.

MINOR MODIFICATIONS TO THIS HPA: You may request approval of minor modifications to the required work timing or to the plans and specifications approved in this HPA. A minor modification to the required work timing means up to a one-week deviation from the timing window in the HPA when there are no spawning or incubating fish present within the vicinity of the project. You may request subsequent minor modifications to the required work timing. A minor modification of the plans and specifications means any changes in the materials, characteristics or construction of your project that does not alter the project's impact to fish life or habitat and does not require a change in the provisions of the HPA to mitigate the impacts of the modification. Minor modifications do not require you to pay additional application fees or be issued a new HPA. To request a minor modification to your HPA, submit a written request that clearly indicates you are requesting a minor modification to an existing HPA. Include the HPA number and a description of the requested change and send by mail to: Washington Department of Fish and Wildlife, PO Box 43234, Olympia, Washington 98504-3234, or by email to HPAapplications@dfw.wa.gov. Do not include payment with your request. You should allow up to 45 days for the department to process your request.

MAJOR MODIFICATIONS TO THIS HPA: You may request approval of major modifications to any aspect of your HPA. Any approved change other than a minor modification to your HPA will require issuance of a new HPA. If you paid an application fee for your original HPA you must include payment of \$150 with your written request or request billing to an account previously established with the department. If you did not pay an application fee for the original HPA, no fee is required for a change to it. To request a major modification to your HPA, submit a written request that clearly indicates you are requesting a major modification to an existing HPA. Include the HPA number, check number or billing account number, and a description of the requested change. Send your written request and payment, if applicable, by mail to: Washington Department of Fish and Wildlife, PO Box 43234, Olympia, Washington 98504-3234. If you are charging the fee to a billing account number or you are not subject to the fee, you may email your request to HPAapplications@dfw.wa.gov. You should allow up to 45 days for the department to process your request.

APPEALS INFORMATION

If you wish to appeal the issuance, denial, conditioning, or modification of a Hydraulic Project Approval (HPA), Washington Department of Fish and Wildlife (WDFW) recommends that you first contact the department employee who issued or denied the HPA to discuss your concerns. Such a discussion may resolve your concerns without the need for further appeal action. If you proceed with an appeal, you may request an informal or formal appeal. WDFW encourages you to take advantage of the informal appeal process before initiating a formal appeal. The informal appeal process includes a review by department management of the HPA or denial and often resolves issues faster and with less legal complexity than the formal appeal process. If the informal appeal process does not resolve your concerns, you may advance your appeal to the formal process. You may contact the HPA Appeals Coordinator at (360) 902-2534 for more information.

A. INFORMAL APPEALS: WAC 220-110-340 is the rule describing how to request an informal appeal of WDFW actions taken under Chapter 77.55 RCW. Please refer to that rule for complete informal appeal procedures. The following information summarizes that rule.



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A person who is aggrieved by the issuance, denial, conditioning, or modification of an HPA may request an informal appeal of that action. You must send your request to WDFW by mail to the Washington Department of Fish and Wildlife HPA Appeals Coordinator, 600 Capitol Way North, Olympia, Washington 98501-1091; e-mail to HPAapplications@dfw.wa.gov; fax to (360) 902-2946; or hand-delivery to the Natural Resources Building, 1111 Washington St SE, Habitat Program, Fifth floor. WDFW must receive your request within 30 days from the date you receive notice of the decision. If you agree, and you applied for the HPA, resolution of the appeal may be facilitated through an informal conference with the WDFW employee responsible for the decision and a supervisor. If a resolution is not reached through the informal conference, or you are not the person who applied for the HPA, the HPA Appeals Coordinator or designee will conduct an informal hearing and recommend a decision to the Director or designee. If you are not satisfied with the results of the informal appeal, you may file a request for a formal appeal.

B. FORMAL APPEALS: WAC 220-110-350 is the rule describing how to request a formal appeal of WDFW actions taken under Chapter 77.55 RCW. Please refer to that rule for complete formal appeal procedures. The following information summarizes that rule.

A person who is aggrieved by the issuance, denial, conditioning, or modification of an HPA may request a formal appeal of that action. You must send your request for a formal appeal to the clerk of the Pollution Control Hearings Boards and serve a copy on WDFW within 30 days from the date you receive notice of the decision. You may serve WDFW by mail to the Washington Department of Fish and Wildlife HPA Appeals Coordinator, 600 Capitol Way North, Olympia, Washington 98501-1091; e-mail to HPAapplications@dfw.wa.gov; fax to (360) 902-2946; or hand-delivery to the Natural Resources Building, 1111 Washington St SE, Habitat Program, Fifth floor. The time period for requesting a formal appeal is suspended during consideration of a timely informal appeal. If there has been an informal appeal, you may request a formal appeal within 30 days from the date you receive the Director's or designee's written decision in response to the informal appeal.

C. FAILURE TO APPEAL WITHIN THE REQUIRED TIME PERIODS: If there is no timely request for an appeal, the WDFW action shall be final and unappealable.

ENFORCEMENT: Sergeant Jackson (29) P2

Habitat Biologist Leonard Machut	leonard.machut@dfw.wa.gov v		for Director WDFW
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CC: Laura Hankel, Pierce County (email); Jacalen Printz, USACE (email); David Troutt, Nisqually Tribe (email); Scott Steltzner, Squaxin Tribe (email)