



# HYDRAULIC PROJECT APPROVAL

Washington Department of  
Fish & Wildlife  
PO Box 43234  
Olympia, WA 98504-3234  
(360) 902-2200

Issued Date: February 24, 2020  
Project End Date: February 23, 2025

Permit Number: 2020-4-144+01  
FPA/Public Notice Number: N/A  
Application ID: 17710

PERMITTEE	AUTHORIZED AGENT OR CONTRACTOR
Adopt A Stream Foundation ATTENTION: Walter Rung 600 128th St SE Everett, WA 98208-6353	

**Project Name:** Bear Creek Reach 6 Restoration – Ph II Construction

**Project Description:** Adopt A Stream Foundation is implementing Phase II of a stream restoration project at the Friendly Village Mobile Home Park in Redmond, Washington. In 2014, AASF completed the first instream restoration project at this property. Phase II of this project will implement engineered restoration designs including the addition of stream meanders, large woody debris (LWD) placement, and riparian planting to provide the maximum benefits to Chinook salmon at all life history stages. This project is funded by the WA State Salmon Recovery Board.

## PROVISIONS

- 1. TIMING LIMITATION:** You may begin the project immediately and you must complete the project by February 23, 2025; provided, any work below the ordinary high water line (OHWL) be done in the dry or between July 1 and September 15 of a given year.
- 2. APPROVED PLANS:** You must accomplish the work per plans and specifications submitted with the application and approved by the Washington Department of Fish and Wildlife, entitled, 'Bear Creek Reach 6 Restoration Phase 2,' dated April 12, 2016; revised December 16, 2016; revised January 29, 2020, and all supporting documents and communications uploaded to the APPS project file; except as modified by this Hydraulic Project Approval. You must have a copy of these plans available on site during all phases of the project.
- 3. INVASIVE SPECIES CONTROL:** Follow Level 1 Decontamination protocol for low risk locations. Thoroughly remove visible dirt and organic debris from all equipment and gear (including drive mechanisms, wheels, tires, tracks, buckets and undercarriage) before arriving and leaving the job site to prevent the transport and introduction of invasive species. Properly dispose of any water and chemicals used to clean gear and equipment. For contaminated or high risk sites please refer to the Level 2 Decontamination protocol. You can find this and additional information in the Washington Department of Fish and Wildlife's Invasive Species Management Protocols (November 2012), available online at <http://wdfw.wa.gov/publications/01490/wdfw01490.pdf>.
- 4. NOTIFICATION REQUIREMENTS**
- 5. PRE- AND POST-CONSTRUCTION NOTIFICATION:** You, your agent, or contractor must contact the Washington Department of Fish and Wildlife by e-mail at [HPAapplications@dfw.wa.gov](mailto:HPAapplications@dfw.wa.gov); mail to Post Office Box 43234, Olympia, Washington 98504-3234; or fax to (360) 902-2946 at least three business days before starting work, and again within seven days after completing the work. The notification must include the permittee's name, project location, starting date for work or date the work was completed, and the permit number. The Washington Department of Fish and Wildlife may conduct inspections during and after construction; however, the Washington Department of Fish and Wildlife will notify you or your agent before conducting the inspection.
- 6. PHOTOGRAPHS:** You, your agent, or contractor must take photographs of the job site after the work is completed. You must upload the photographs to the post-permit requirement page in the Aquatic Protection Permitting System



## HYDRAULIC PROJECT APPROVAL

Washington Department of  
Fish & Wildlife  
PO Box 43234  
Olympia, WA 98504-3234  
(360) 902-2200

Issued Date: February 24, 2020  
Project End Date: February 23, 2025

Permit Number: 2020-4-144+01  
FPA/Public Notice Number: N/A  
Application ID: 17710

(APPS) or mail them to Washington Department of Fish and Wildlife at Post Office Box 43234, Olympia, Washington 98504-3234 within 30-days after the work is completed.

7. FISH KILL/WATER QUALITY PROBLEM NOTIFICATION: If a fish kill occurs or fish are observed in distress at the job site, immediately stop all activities causing harm. Immediately notify the Washington Department of Fish and Wildlife of the problem. If the likely cause of the fish kill or fish distress is related to water quality, also notify the Washington Military Department Emergency Management Division at 1-800-258-5990. Activities related to the fish kill or fish distress must not resume until the Washington Department of Fish and Wildlife gives approval. The Washington Department of Fish and Wildlife may require additional measures to mitigate impacts.

### 8. STAGING, JOB SITE ACCESS, AND EQUIPMENT

9. Establish staging areas (used for equipment storage, vehicle storage, fueling, servicing, and hazardous material storage) in a location and manner that will prevent contaminants such as petroleum products, hydraulic fluid, fresh concrete, sediments, sediment-laden water, chemicals, or any other toxic or harmful materials from entering waters of the state.

10. Design and locate new temporary access roads to prevent erosion and sediment delivery to waters of the state.

11. This Hydraulic Project Approval does not authorize equipment crossings of the stream.

12. Equipment used for this project may operate waterward of the ordinary high water line, provided the drive mechanisms (wheels, tracks, tires, etc.) do not enter or operate waterward of the ordinary high water line.

13. Check equipment daily for leaks and complete any required repairs in an upland location before using the equipment in or near the water.

14. Use environmentally acceptable lubricants composed of biodegradable base oils such as vegetable oils, synthetic esters, and polyalkylene glycols in equipment operated in or near the water.

15. Limit removal of native vegetation to the extent necessary to perform the work.

16. Retain all existing natural habitat features on the bed or banks including large woody material. You may move these natural habitat features during construction but you must place them in or near the pre-project location before leaving the job site.

### 17. CONSTRUCTION-RELATED SEDIMENT, EROSION AND POLLUTION CONTAINMENT

18. Protect all disturbed areas from erosion. Maintain erosion and sediment control until all work and cleanup of the job site is complete.

19. Any erosion control materials that will remain onsite must be composed of 100% biodegradable materials.

20. Any straw used for erosion and sediment control, must be certified free of noxious weeds and their seeds.

21. Stop all hydraulic project activities except those needed to control erosion and siltation, if flow conditions arise that will result in erosion or siltation of waters of the state.

22. Extreme care must be taken to ensure that no petroleum products, hydraulic fluid, sediments, sediment-laden water, chemicals, or any other toxic or deleterious materials are allowed to enter or leach into the stream or wetlands associated with the stream. During all project activities water quality must be monitored and maintained.

23. Deposit waste material from the project, such as construction debris, silt, excess dirt, or overburden, in an upland area above the limits of anticipated floodwater unless the material is approved by the Washington Department of Fish and Wildlife for reuse in the project.

### 24. CONSTRUCTION MATERIALS

25. Store all construction and deconstruction material in a location and manner that will prevent contaminants such as petroleum products, hydraulic fluid, fresh cement, sediments, sediment-laden water, chemicals, or any other toxic or harmful materials from entering waters of the state.



## HYDRAULIC PROJECT APPROVAL

Washington Department of  
Fish & Wildlife  
PO Box 43234  
Olympia, WA 98504-3234  
(360) 902-2200

Issued Date: February 24, 2020  
Project End Date: February 23, 2025

Permit Number: 2020-4-144+01  
FPA/Public Notice Number: N/A  
Application ID: 17710

26. Do not stockpile construction material waterward of the ordinary high water line.

### 27. IN WATER WORK AREA ISOLATION

28. Site isolation methods must be installed and monitored as necessary to prevent silt-laden water from entering state waters and to exclude fish life from work areas during excavation and grading of off channel and side channel features, installation of large woody material complexes, and placement of ballast material. Options for site isolation include but are not limited to silt fencing, containment booms, cofferdams, dikes, temporary bypass, plastic sheeting, biodegradable fabrics or check dams of pea gravel-filled burlap bags or other material.

29. Maintain water quality when installing and removing the work area isolation structures.

30. Remove fine sediment and other contaminants before discharging the construction water to waters of the state.

31. Install site isolation methods before starting other construction work in the wetted perimeter

### 32. IN-WATER WORK AREA ISOLATION USING A TEMPORARY BYPASS

33. Isolate fish from the work area by using either a total or partial bypass to reroute the stream through a temporary channel or pipe.

34. Sequence the work to minimize the duration of dewatering.

35. Use the least-impacting feasible method to temporarily bypass water from the work area. Consider the physical characteristics of the site and the anticipated volume of water flowing through the work area.

36. Design the temporary bypass to minimize the length of the dewatered stream channel.

37. During all phases of bypass installation and decommissioning, maintain flows downstream of the project site to ensure survival of all downstream fish.

38. Install a cofferdam or similar device at the upstream and downstream end of the bypass to prevent backwater from entering the work area.

39. Return diverted water to the channel immediately downstream of the work area. Dissipate flow energy from the diversion to prevent scour or erosion of the channel and bank.

40. If the bypass is a pumped diversion, once started it must run continuously until it is no longer necessary to bypass flows. This requires back-up pumps on-site and twenty-four-hour monitoring for overnight operation.

41. If the diversion inlet is a pump diversion in a fish-bearing stream, the pump intake structure must have a fish screen installed, operated, and maintained in accordance with RCW 77.57.010 and 77.57.070. Screen the pump intake with one of the following: a) Perforated plate: 0.094 inch (maximum opening diameter); b) Profile bar: 0.069 inch (maximum width opening); or c) Woven wire: 0.087 inch (maximum opening in the narrow direction). The minimum open area for all types of fish screens is twenty-seven percent. The screened intake facility must have enough surface area to ensure that the velocity through the screen is less than 0.4 feet per second. Maintain fish screens to prevent injury or entrapment of fish.

42. The fish screen must remain in place whenever water is withdrawn from the stream through the pump intake.

43. Remove fish screens on dewatering pumps in the isolated work area only after all fish are safe and excluded from the work area.

44. Isolate pump hose intakes with block nets so that fish cannot get near the intake

### 45. FISH LIFE REMOVAL AND BLOCK NETS

46. Capture and safely move fish life from the work area to the nearest suitable free-flowing water.

47. All persons participating in capture and removal must have training, knowledge, and skills in the safe handling of fish life.

48. If electrofishing is conducted, a person with electrofishing training must be on-site to conduct or direct all



## HYDRAULIC PROJECT APPROVAL

Washington Department of  
Fish & Wildlife  
PO Box 43234  
Olympia, WA 98504-3234  
(360) 902-2200

Issued Date: February 24, 2020  
Project End Date: February 23, 2025

Permit Number: 2020-4-144+01  
FPA/Public Notice Number: N/A  
Application ID: 17710

electrofishing activities.

49. Isolate fish from the work area by using block nets.

50. Place block nets upstream and downstream of the in-water work area before capturing and removing fish life. Install block nets at an angle to the direction of flow (not perpendicular to the flow) to avoid entrapping fish in the nets. After the first block net is secured at the upstream end, use a second block net to herd fish downstream and out of the project area. Install a downstream block net if fish may reenter the work area from downstream. To anchor block nets, place bags filled with clean rounded gravel along the bottom of the nets. Secure block nets along both banks and the channel bottom to prevent failure from debris accumulation, high flows, and/or flanking.

51. Do not install block nets at sites with heavy vegetation, large cobble or boulders, undercut banks, or deep pools unless you can secure and maintain them.

52. Install block nets at sites with reduced flow volume or velocity, uniform depth, and good accessibility.

53. Check block nets at least three times a day for entangled fish and accumulated debris.

54. To keep fish out of the job site, leave block nets in place until the work is complete and conditions are suitable for fish.

### 55. SIDE CHANNEL AND OFF CHANNEL FEATURES

56. Design, excavate, and construct the scallop terrace benches as per the details and specifications of sheets C2 and C5 of the approved plans.

57. Positive drainage out of the backwater inlets and the bank notch are required to prevent fish stranding and the bed at these locations must not contain pits, potholes, or large depressions upon completion of the excavation and grading.

58. Excavated sediment may be reused on-site as ballast and backfill along with imported boulders. Excess excavated soil must be removed from the site and taken to an upland disposal location.

59. To minimize sediment delivery to the mainstem channel, do not allow in-stream flows to enter the scallop terrace bench or bank LWM feature areas until all in-channel work is completed and the bed and banks are stabilized.

60. As shown in the approved plans, this permit authorizes installation of up to 144, rounded, 4-5 man boulders to be utilized as ballast and stabilization for the embedded portions of the LWM structures. Boulders used as ballast must be placed buried in the bank (i.e. will not be in the creek).

61. Size streambed material to mimic the gradation found in nearby reference channel reaches. The material must be well-graded (includes all size classes) and non-porous to prevent subsurface flow.

### 62. LARGE WOODY MATERIAL

63. The 9 LWM structures must consist of a minimum of 36 key pieces (24" DBH x 40' long), 20 secondary pieces (12-14" DBH x 20'), and 200 pieces of racking material (12" dbh and smaller).

64. Use of fir, cedar, or other coniferous species is recommended for LWM key pieces.

65. Do not drag large woody material. Suspend large woody material during placement, repositioning, or removal so it does not damage the bed or banks.

### 66. WATER CROSSING REMOVAL

67. Remove all the components of the existing bridge crossing (approach material, sills, stringers, deck, riprap, guardrails, etc.), and dispose of at an appropriate upland facility.

### 68. OUTFALL

69. Locate and construct the outfall per sheet C1 of the approved plans.

70. To prevent scouring, protect the watercourse bank and bed at the point of discharge using biotechnical techniques (diffuser tee or rounded rock pad).



## HYDRAULIC PROJECT APPROVAL

Washington Department of  
Fish & Wildlife  
PO Box 43234  
Olympia, WA 98504-3234  
(360) 902-2200

Issued Date: February 24, 2020  
Project End Date: February 23, 2025

Permit Number: 2020-4-144+01  
FPA/Public Notice Number: N/A  
Application ID: 17710

71. Rock pads must consist of 8-inch rounded material a minimum of 12-inches thick in the area between the pipe and OHWL, or material large enough and installed to withstand the 100-year peak flow. Limit the amount of rock placed to that needed to stabilize the outfall structure and prevent scour erosion.

72. Intersperse rock pad and perimeter with live stakes of dogwood or willow. Live stakes must be installed 18-24 inches on center. Complete plantings during the appropriate season (fall through spring for whips and cuttings). Maintain plantings for at least three years to ensure at least eighty percent of the plantings survive. Failure to achieve the eighty percent survival in year three will require you to submit a plan with follow-up measures to achieve requirements or reasons to modify requirements.

73. Isolate any excavation pits or fill from the wetted perimeter.

#### 74. SITE RESTORATION AND MAINTENANCE

75. Complete riparian restoration, site restoration, and associated plantings as per sheet C8 of the approved plans.

76. Complete plantings during the appropriate season (fall or spring for potted stock, winter for bare-root seedlings, fall through spring for whips and cuttings) after project completion per the approved plan. Maintain plantings for at least three years to ensure at least eighty percent of the plantings survive. Failure to achieve the eighty percent survival in year three will require you to submit a plan with follow-up measures to achieve requirements or reasons to modify requirements.

#### 77. DEMOBILIZATION AND CLEAN UP

78. Return water flow slowly to the in-water work areas to prevent the downstream release of sediment laden water. If necessary, install silt fencing above the bypass outlet to capture sediment during re-watering of the channel.

79. To prevent fish from stranding, backfill trenches, depressions, and holes in the bed that may entrain fish during high water or wave action.

80. Seed areas disturbed by construction activities with a native seed mix suitable for the site that has at least one quick-establishing plant species.

81. All erosion control materials that will remain onsite must be composed of 100% biodegradable materials.

82. Remove all materials or equipment from the site and dispose of any excess waste materials in an upland area above the limits of anticipated floodwater.

83. Remove any temporary erosion and sediment control methods after job site is stabilized or within three months of project completion, whichever is sooner.

LOCATION #1:	Site Name: Friendly Village Phase II 18425 NE 95th St, Redmond, WA 98052					
WORK START:	February 24, 2020			WORK END:	February 23, 2025	
<u>WRIA</u>		<u>Waterbody:</u>			<u>Tributary to:</u>	
08 - Cedar - Sammamish		Bear Creek (rb)			Sammamish River	
<u>1/4 SEC:</u>	<u>Section:</u>	<u>Township:</u>	<u>Range:</u>	<u>Latitude:</u>	<u>Longitude:</u>	<u>County:</u>
NW 1/4	06	25 N	06 E	47.68389	-122.09275	King
<u>Location #1 Driving Directions</u>						





## HYDRAULIC PROJECT APPROVAL

Washington Department of  
Fish & Wildlife  
PO Box 43234  
Olympia, WA 98504-3234  
(360) 902-2200

Issued Date: February 24, 2020  
Project End Date: February 23, 2025

Permit Number: 2020-4-144+01  
FPA/Public Notice Number: N/A  
Application ID: 17710

From I-5 S take exit 20. – Then turn left onto NE 124th St (3.6mi). – Continue onto NE 128th St (1.0mi). – Turn right onto Avondale Rd NE (2.2mi). – Turn left onto NE 95th St/Conrad Olson Road (0.1mi). –Turn right onto Snohomish Dr (335ft).

### 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. 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.

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 civil action against you, including, but not limited to, a stop work order or notice to comply, and/or a gross misdemeanor criminal 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 unless this is a General HPA. If this is a General HPA you must use the Major Modification process described below. Any approved minor modification will require issuance of a letter documenting the approval. A minor modification to the required work timing means any change to the work start or end dates of the current work season to enable project or work phase completion. Minor modifications will be approved only if spawning or incubating fish are not 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. If you originally applied for your HPA through the online Aquatic Protection Permitting System (APPS), you may request a minor modification through APPS. A link to APPS is at <http://wdfw.wa.gov/licensing/hpa/>. If you did not use APPS you must submit a written request that clearly indicates you are seeking a minor modification to an existing HPA. Written requests must include the name of the applicant, the name of the authorized agent if one is acting for the applicant, the APP ID number of the HPA, the date issued, the permitting biologist, the requested changes to the HPA, the reason for the requested change, the date of the request, and the requestor's signature. 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](mailto:HPAapplications@dfw.wa.gov). You should allow up to 45 days for the department to process your request.



# HYDRAULIC PROJECT APPROVAL

Washington Department of  
Fish & Wildlife  
PO Box 43234  
Olympia, WA 98504-3234  
(360) 902-2200

Issued Date: February 24, 2020  
Project End Date: February 23, 2025

Permit Number: 2020-4-144+01  
FPA/Public Notice Number: N/A  
Application ID: 17710

---

**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 originally applied for your HPA through the online Aquatic Protection Permitting System (APPS), you may request a major modification through APPS. A link to APPS is at <http://wdfw.wa.gov/licensing/hpa/>. If you did not use APPS you must submit a written request that clearly indicates you are requesting a major modification to an existing HPA. Written requests must include the name of the applicant, the name of the authorized agent if one is acting for the applicant, the APP ID number of the HPA, the date issued, the permitting biologist, the requested changes to the HPA, the reason for the requested change, the date of the request, and the requestor's signature. Send your written request by mail to: Washington Department of Fish and Wildlife, PO Box 43234, Olympia, Washington 98504-3234. You may email your request for a major modification to [HPAapplications@dfw.wa.gov](mailto: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 220-660-460 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.

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 HPA Appeals Coordinator, Department of Fish and Wildlife, Habitat Program, PO Box 43234, Olympia, Washington 98504-3234; e-mail to [HPAapplications@dfw.wa.gov](mailto: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 may conduct an informal hearing or review 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 220-660-470 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.



## HYDRAULIC PROJECT APPROVAL

Washington Department of  
Fish & Wildlife  
PO Box 43234  
Olympia, WA 98504-3234  
(360) 902-2200

Issued Date: February 24, 2020  
Project End Date: February 23, 2025

Permit Number: 2020-4-144+01  
FPA/Public Notice Number: N/A  
Application ID: 17710

---

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 HPA Appeals Coordinator, Department of Fish and Wildlife, Habitat Program, PO Box 43234, Olympia, Washington 98504-3234; e-mail to [HPAapplications@dfw.wa.gov](mailto: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.

---

---

Habitat Biologist	Miles.Penk@dfw.wa.gov
Miles Penk	425-677-1297

---

A handwritten signature in black ink, appearing to read "Miles Penk".

for Director  
WDFW