



# HYDRAULIC PROJECT APPROVAL

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

**RECEIVED**  
NOV 16 2017

Issued Date: November 05, 2017

Project End Date: January 03, 2018

Permit Number: 2017-3-91+01

FPA/Public Notice Number: N/A

Kittitas County CDS Application ID: 12964

PERMITTEE	AUTHORIZED AGENT OR CONTRACTOR
Kittitas County Public Works ATTENTION: Lucas Huck 411 North Ruby Street, Suite 1 Ellensburg, WA 98926	Jacobs Engineering Group ATTENTION: Craig Broadhead 32 N 3rd St Yakima, WA 98901-2730

**Project Name:** Bar 14 Road; Naneum Creek Bridge Removal and Channel Maintenance

**Project Description:** The County plans to remove the Naneum Creek Bridge on Bar 14 Road. In addition, the County will clean aggraded sediment, cobble, and debris from the Naneum Creek channel in a potential 400-foot section, extending 200 feet upstream and possibly 200 feet downstream of the bridge.

## PROVISIONS

1. **TIMING LIMITATIONS:** The project may begin immediately and shall be completed by January 4, 2018.

### GENERAL

2. Work shall be accomplished per information submitted to Washington Department of Fish and Wildlife (WDFW) with the Hydraulic Project application, except as modified by this Approval.
3. Disturbance of the creek channel, banks, and shoreline vegetation shall be limited to the minimum necessary to construct the project.
4. Work shall be done with care to minimize discharge of earth and fine sediment to the flowing water of the creek. Temporary run-off and erosion control measures (BMPs) shall be installed as needed to prevent discharge of earth and fine sediment from the work area to the flowing water of Naneum Creek.
5. 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), immediate notification shall be made to the Washington Military Department's Emergency Management Division at 1-800-258-5990, Washington Department of Ecology at 1-800-424-8802, and to Jennifer Nelson, Area Habitat Biologist, 509-962-3421.
6. Permittee shall have spill cleanup materials (including absorbent pads and containment boom) available on site. Boom kit shall be pre-positioned immediately downstream of the work area and have enough boom materials to span the entire channel.
7. Pumps, sandbags, and plastic sheeting material shall be available on site for emergency routing and/or containment of water and pollutants whenever work is being performed in the channel.

### STAKING AND MARKING

8. The project shall be clearly marked or staked prior to construction. Clearing limits, stockpile areas, travel corridors in the shoreline, channel access routes for equipment, and waste water disposal sites shall be marked so as to be clearly visible to equipment operators prior to construction activities.



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## REQUIRED NOTIFICATIONS

9. The permittee or contractor shall notify the Department field office by phone (509) 962-3421 or email [jennifer.nelson@dfw.wa.gov](mailto:jennifer.nelson@dfw.wa.gov) at least 24 hours prior to starting the project. Leave message for Jennifer Nelson, Area Habitat Biologist. The notification shall include the permittee's name, project location, starting date for work, and the control number for this Hydraulic Project Approval (HPA).

10. Notification is also required 48 hours prior to removal of the temporary worksite isolation dam(s) and demobilization from the site.

## WORKSITE LIMITATIONS

11. All in-channel work shall be done during a period of low stream flow, when all flow can be routed around the work area in temporary flow bypass facilities and/or work areas can be successfully isolated from flowing water.

12. Work area containment and a temporary stream flow bypass are required. Except for work to install/remove the temporary flow bypass facilities and work area containment, all work on the project shall be done in isolation from the flowing water of Naneum Creek.

## EQUIPMENT LIMITATIONS

13. Equipment shall be maintained in good working condition such that hydraulic fluid, fuel, lubricants and other harmful chemicals are not leaked into the stream or its banks or bed. Equipment shall be inspected daily. Servicing of equipment shall be done in an upland area at least 50 feet away from the creek and wetlands.

14. Prior to arrival on site, equipment shall be pressure washed or steam cleaned so as to be free of accumulations of earth and petroleum products and free of invasive aquatic organisms. Care shall be taken to ensure that all areas of equipment that may harbor invasive aquatic organisms (such as zebra mussels, quagga mussels, etc.) are thoroughly cleaned.

15. Hydraulic excavators (e.g. trackhoes), loaders, and other heavy equipment may operate from positions on the dry streambank or from positions within the contained (isolated) work area to construct the project. The hydraulic excavator(s) shall be equipped with a thumb and be capable of grappling and individually placing large rocks, boulders, and trees.

16. If necessary, one hydraulic excavator may enter and operate within the wetted perimeter (i.e. the flowing water of the creek) as noted in provision 12 above. Otherwise, all equipment shall operate outside of the wetted perimeter).

17. Dump trucks may operate on dry gravel bars or in the isolated work area as necessary to remove streambed sediment from the aggradation area.

## WORKSITE ISOLATION AND TEMPORARY STREAM BYPASS

18. Stream flow shall be bypassed around the active work areas as described in the project narrative and shown on the dewatering plan. Changes to bypass facilities shall be done in a manner that does not interrupt instream flow outside of the work area.

19. The stream flow bypass shall be only as long as necessary to isolate the work and prevent backwatering of the work area. Bypass facilities shall be of sufficient size to pass flows and debris reasonably expected to occur during the project.

20. A diversion dam of sandbags, bulk bags, ecology blocks, and plastic sheeting or equivalent clean material shall be installed at the upstream extent of the work area to divert the entire flow through the bypass. Dam boards may also be



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installed in the relic diversion structure to isolate the work area at the upstream extent. A similar structure may be installed at the downstream end of the bypass as necessary to prevent water from entering the work area.

21. If a pump is used, the inlet shall be screened to prevent entrainment of fish and the outlet shall be equipped with a diffusing device that ensures discharged water does not scour the stream bed or bank or cause downstream turbidity. (For WDFW/NMFS screening criteria, refer to the publication entitled Anadromous Salmonid Passage Facility Design by the National Marine Fisheries Service, Northwest Region, Portland, Oregon, 2011. A copy is available at Internet Link: [http://www.westcoast.fisheries.noaa.gov/publications/hydropower/fish\\_passage\\_design\\_criteria.pdf](http://www.westcoast.fisheries.noaa.gov/publications/hydropower/fish_passage_design_criteria.pdf)).

22. Gravity bypass channels shall be lined with heavy duty or reinforced plastic sheeting (if turbid water will return to Naneum Creek) with sandbag or rock check structures at least every 20 linear feet for stability. Alternatively, a pipe or other clean materials may be used for the temporary stream bypass. The outlet must be diffused such that discharged water does not scour the bed or bank downstream.

23. The diversion of flow into the temporary bypass shall be done incrementally to allow for the capture and safe removal of the fish from the work area. Fish trapped inside of the work area shall be captured and released unharmed upstream or downstream from the project. (Permittee may request assistance from WDFW for this task. Assistance will be provided if personnel are available. Please provide as much advance notice as possible.)

24. Upon completion of the project, material used in the temporary bypass or containment structures (other than rounded stream gravels) shall be removed from the site and the site restored to natural-like conditions. Swales and ditches that exist prior to construction shall be maintained and not filled after completion of this project.

## DEWATERING AND WASTE WATER MANAGEMENT

25. Dewatering of work areas in the channel shall be done incrementally to allow for the capture and safe removal of fish. Fish trapped in the work areas shall be captured and released unharmed upstream or downstream from the work area.

26. During initial dewatering of work areas, if water is turbid or muddy, it shall be pumped to an upland area for disposal by infiltration to the soil. Subsequent pumping to remove water infiltrating through the stream gravels and containment dams may be discharged directly back to the stream provided that: a) a perforated sump chamber is installed away from the main work area to intercept the inflow, b) waste water containing raw concrete or other harmful materials is not reaching the sump chamber, c) water being pumped from the sump is clear (no suspended solids or turbidity), and d) state water quality standards are achieved. Lines discharging water to the stream shall be equipped with a diffusing device which shall prevent the scouring and dislodging of fine sediments from the stream bank or bed

27. All turbid wastewater associated with the project shall be routed to an upland location and disposed of through infiltration. Pumps and lines of sufficient capacity shall be available on site during all dredging work.

## SALVAGE OF TREES, SHRUBS, AND LARGE WOODY DEBRIS

28. If there are trees and shrubs on the bank that must be removed to construct this project, they shall be specifically identified prior to the start of excavation, marked so as to be visible to equipment operators, protected from damage and salvaged for immediate relocation/replanting in the toe of the re-graded streambank. Transplanting of these plants shall be consistent with the guidance provided by NRCS (3 publications attached).

29. If there is large woody debris (e.g. rootwads, stumps, logs greater than 10-inches in diameter and 10-feet in length) that must be removed to construct this project, it shall be removed intact, and incorporated in the toe of the graded streambank in a manner that provides habitat for fish along the bank toe.

## BRIDGE REMOVAL



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30. The bridge infrastructure shall only be removed in isolation from flowing water in the creek.
31. The bridge deck, girders, abutments, footings, metal, reinforcing steel, and all associated non-native material associated with the bridge shall be removed from the channel and hauled off site to a suitable disposal site.
32. Roadway fill and asphalt shall be removed from the channel and hauled off site to a suitable disposal site outside of the floodplain.
33. The banks shall be pulled back and shaped to restore channel capacity at this location as shown in the plans.
34. Clump plantings (transplants) shall be planted along the toe and banks of the channel to restore the banks where the road fill is removed. A riparian buffer of at least 15 feet on each streambank shall be established in the old road prism.

### CHANNEL DREDGING AND STREAMBANK RE-GRADING

35. The work to dredge, re-grade and shape the channel and bank shall be done in the dry. Channel dredging shall only occur within 200 feet upstream and downstream of the Bar 14 Road.
36. The channel shall be dredged and shaped as shown on the attached typical plans with pools, bars, and meanders added to avoid large trees where possible and maintain channel complexity. The total amount of streambed material removed from the channel bed shall not exceed 1200 cubic yards. The excavation shall follow the path of the existing channel as staked on the ground and reviewed by WDFW. The channel bed shall be graded to provide a smooth transition between the excavated channel and the adjacent, unmodified channel segments immediately upstream and downstream of the work area.
37. Select, large boulders from the bridge armor, bed surface, and conserved from dredge spoils shall be stockpiled for use in restoring the channel bed at the upstream transition from the original stream bed to the excavated streambed. The conserved large boulders shall be partially embedded in the upstream transition of the channel to form a boulder riffle to control headcutting after flow is returned to the channel.
38. The dredge spoils from the channel and bank sloping shall be hauled from the site and stockpiled at a location outside of the floodplain for use in future channel restoration work. The dredge spoils shall not be used to construct a levee or other floodplain obstruction that concentrates or re-directs flood flows.
39. Large woody debris salvaged from the work area shall be embedded or otherwise securely anchored in the toe of the re-graded bank. This woody material shall protrude into the channel so as to provide habitat for fish and help stabilize the bank toe.
40. A narrow, fish passable thalweg shall be defined in the channel to ensure that low flows are sufficiently concentrated to ensure fish passage at low stream flow. The streambed shall slope to the thalweg.
41. After the streambed has been graded and shaped, the bed shall be washed with water so as to leave a clean, natural-like streambed surface of cobble/gravel/sand, wash the fine materials down into the voids between the larger bed material and reduce the permeability of the bed. Any wastewater from this washing shall be captured at the downstream end of the work area and pumped to an upland area for disposal.
42. Once the channel has been cleaned and water in the channel is clear, the upstream and downstream containment dams shall be removed. Flow, if present, shall be restored to the channel and any temporary flow bypass facilities removed from the site.



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## INSTALLATION OF SALVAGED PLANTS, TRANSPLANTS AND LIVE POLE CUTTINGS

43. Trees and shrubs salvaged from the work area shall be replanted in the toe of the re-graded streambank and other areas denuded of riparian vegetation within the entire dewatered reach. The trackhoe may dig planting holes along the bank to the depth of saturated soil, for each salvaged plant. A salvaged tree or shrub shall be planted in each hole such that the roots reach the zone of wet soil.

44. In addition to the salvaged plant material, cluster plantings of live willow pole cuttings and transplants (clump plantings) of native gravel bar-type willows, native red-osier dogwood and black cottonwood shall be planted along the bare banks within the dewatered reach to achieve a spacing of plants along the bank toe of not more than 10 feet between plants. The live poles and transplants shall be planted in holes or trenches excavated to the depth of saturated soil or to 3-feet below the depth of the streambed, whichever is less. The trackhoe may be used to open these planting holes along the bank.

## SITE RESTORATION

45. The disturbed streambed areas shall be restored to a natural-like condition. All waste material and earth in excess of backfill needs shall be removed completely from the project site and disposed of in an approved upland location where it will not alter flood flows nor reduce floodplain storage.

46. All earth areas adjacent to Naneum Creek which have been exposed, dewatered, or disturbed by this project are to be graded to a stable slope, seeded with a suitable erosion control seed mix, and protected from erosion with biodegradable erosion control materials suitable for the location. (Examples of biodegradable erosion control materials include erosion control blankets, hydro-mulch with tackifier, weed-free straw mulch, etc.)

47. Woody native plants adapted to stream sides shall be established along all stream bank areas denuded by this project. Transplants, cuttings (live stakes and live poles) and/or nursery stock of black cottonwood, gravel-bar-type willows, red osier dogwood, and mountain alder shall be planted immediately above the ordinary high water mark. Cuttings shall be planted deeply into the low flow water table.

LOCATION #1: Site Name: Bar 14 Road Bridge  
1876 Bar 14 Road, Ellensburg, WA 98926

WORK START: October 30, 2017      WORK END: November 10, 2017

<u>WRIA</u>		<u>Waterbody:</u>			<u>Tributary to:</u>	
39 - Yakima (Above Naches R)		Naneum Creek (lb)			Wilson Creek	
<u>1/4 SEC:</u>	<u>Section:</u>	<u>Township:</u>	<u>Range:</u>	<u>Latitude:</u>	<u>Longitude:</u>	<u>County:</u>
SW 1/4	04	18 N	19 E	47.073625	-120.473056	Kittitas

### Location #1 Driving Directions

Exit Interstate 90 at Exit 109 (Canyon Road) and proceed north through Ellensburg to University Way. Proceed east on University Way to Naneum Road. Proceed North on Naneum Road to Bar 14 Road. Proceed west to project area.

**APPLY TO ALL HYDRAULIC PROJECT APPROVALS**



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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 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 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.



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**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 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 220-660-470 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.



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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            [jennifer.nelson@dfw.wa.gov](mailto:jennifer.nelson@dfw.wa.gov)  
Jennifer Nelson            509-962-3421

for Director  
WDFW





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Permit Number: 2017-3-92+01

FPA/Public Notice Number: N/A

Application ID: 13050

Kittitas County CDS

PERMITTEE	AUTHORIZED AGENT OR CONTRACTOR
Kittitas Reclamation District ATTENTION: Kevin Eslinger 315 North Water Street Ellensburg, WA 98926	Jacobs Engineering Group ATTENTION: Craig Broadhead 32 N 3rd St Yakima, WA 98901-2730

**Project Name:** Kittitas Reclamation District; Naneum Creek Intake and Channel Maintenance

**Project Description:** Kittitas Reclamation District (KRD) needs to prevent on-going and expected damage to irrigation infrastructure by removing accumulated sediment and debris from Naneum Creek (Attachment 2 – Photo 1). The irrigation intake at Naneum Creek and the NB canal is consistently plugged by sediment and debris during flooding. During flooding in the winter and again in the late spring of 2017, aggraded sediment completely blocked Naneum Creek, forcing flood flows out of channel and severely impacting the NB canal by ponding against the canal bank, and spilling over the bank into the canal. KRD needs to remove approximately 2,250 cubic yards (cy) of accumulated sediment and debris from an approximate 780-linear foot section of Naneum Creek. This section of the creek is completely blocked with sediment, and Naneum Creek flows are currently forced out of the channel and are causing damage to the KRD NB canal. KRD will plan the work concurrent with the County project, and therefore will not require separate isolation to complete the work in the dry. KRD will coordinate with the County and utilize Bar 14 Road and the existing County right-of-way for access to the creek, and will not require access roads.

## PROVISIONS

1. **TIMING LIMITATIONS:** The project may begin immediately and shall be completed by January 4, 2018.

### GENERAL

2. Work shall be accomplished per information submitted to Washington Department of Fish and Wildlife (WDFW) with the Hydraulic Project application, except as modified by this Approval.

3. Disturbance of the creek channel, banks, and shoreline vegetation shall be limited to the minimum necessary to construct the project.

4. Work shall be done with care to minimize discharge of earth and fine sediment to the flowing water of the creek. Temporary run-off and erosion control measures (BMPs) shall be installed as needed to prevent discharge of earth and fine sediment from the work area to the flowing water of Naneum Creek.

5. 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), immediate notification shall be made to the Washington Military Department's Emergency Management Division at 1-800-258-5990, Washington Department of Ecology at 1-800-424-8802, and to Jennifer Nelson, Area Habitat Biologist, 509-962-3421.

6. Permittee shall have spill cleanup materials (including absorbent pads and containment boom) available on site.



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Boom kit shall be pre-positioned immediately downstream of the work area and have enough boom materials to span the entire channel.

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12. Work area containment and a temporary stream flow bypass are required. Except for work to install/remove the temporary flow bypass facilities and work area containment, all work on the project shall be done in isolation from the flowing water of Naneum Creek.

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13. Equipment shall be maintained in good working condition such that hydraulic fluid, fuel, lubricants and other harmful chemicals are not leaked into the stream or its banks or bed. Equipment shall be inspected daily. Servicing of equipment shall be done in an upland area at least 50 feet away from the creek and wetlands.

14. Prior to arrival on site, equipment shall be pressure washed or steam cleaned so as to be free of accumulations of earth and petroleum products and free of invasive aquatic organisms. Care shall be taken to ensure that all areas of equipment that may harbor invasive aquatic organisms (such as zebra mussels, quagga mussels, etc.) are thoroughly cleaned.

15. Hydraulic excavators (e.g. trackhoes), loaders, and other heavy equipment may operate from positions on the dry streambank or from positions within the contained (isolated) work area to construct the project. The hydraulic excavator(s) shall be equipped with a thumb and be capable of grappling and individually placing large rocks, boulders, and trees.

16. If necessary, one hydraulic excavator may enter and operate within the wetted perimeter (i.e. the flowing water of the creek) as noted in provision 12 above. Otherwise, all equipment shall operate outside of the wetted perimeter).

17. Dump trucks may operate on dry gravel bars or in the isolated work area as necessary to remove streambed sediment from the aggradation area.

### WORKSITE ISOLATION AND TEMPORARY STREAM BYPASS



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18. Stream flow shall be bypassed around the active work areas as described in the project narrative and coordinated with Kittitas County Public Works' project immediately upstream of the work area (permit number 2017-3-91+01). Changes to bypass facilities shall be done in a manner that does not interrupt instream flow outside of the work area.

19. The stream flow bypass shall be only as long as necessary to isolate the work and prevent backwatering of the work area. Bypass facilities shall be of sufficient size to pass flows and debris reasonably expected to occur during the project.

20. A diversion dam of sandbags, bulk bags, ecology blocks, and plastic sheeting or equivalent clean material shall be installed at the upstream extent of the work area to divert the entire flow through the bypass. Dam boards may also be installed in the relic diversion structure to isolate the work area at the upstream extent. A similar structure may be installed at the downstream end of the bypass as necessary to prevent water from entering the work area.

21. If a pump is used, the inlet shall be screened to prevent entrainment of fish and the outlet shall be equipped with a diffusing device that ensures discharged water does not scour the stream bed or bank or cause downstream turbidity. (For WDFW/NMFS screening criteria, refer to the publication entitled Anadromous Salmonid Passage Facility Design by the National Marine Fisheries Service, Northwest Region, Portland, Oregon, 2011. A copy is available at Internet Link: [http://www.westcoast.fisheries.noaa.gov/publications/hydropower/fish\\_passage\\_design\\_criteria.pdf](http://www.westcoast.fisheries.noaa.gov/publications/hydropower/fish_passage_design_criteria.pdf)).

22. Gravity bypass channels shall be lined with heavy duty or reinforced plastic sheeting (if turbid water will return to Naneum Creek) with sandbag or rock check structures at least every 20 linear feet for stability. Alternatively, a pipe or other clean materials may be used for the temporary stream bypass. The outlet must be diffused such that discharged water does not scour the bed or bank downstream.

23. The diversion of flow into the temporary bypass shall be done incrementally to allow for the capture and safe removal of the fish from the work area. Fish trapped inside of the work area shall be captured and released unharmed upstream or downstream from the project. (Permittee may request assistance from WDFW for this task. Assistance will be provided if personnel are available. Please provide as much advance notice as possible.)

24. Upon completion of the project, material used in the temporary bypass or containment structures (other than rounded stream gravels) shall be removed from the site and the site restored to natural-like conditions. Swales and ditches that exist prior to construction shall be maintained and not filled after completion of this project.

### DEWATERING AND WASTE WATER MANAGEMENT

25. Dewatering of work areas in the channel shall be done incrementally to allow for the capture and safe removal of fish. Fish trapped in the work areas shall be captured and released unharmed upstream or downstream from the work area.

26. During initial dewatering of work areas, if water is turbid or muddy, it shall be pumped to an upland area for disposal by infiltration to the soil. Subsequent pumping to remove water infiltrating through the stream gravels and containment dams may be discharged directly back to the stream provided that: a) a perforated sump chamber is installed away from the main work area to intercept the inflow, b) waste water containing raw concrete or other harmful materials is not reaching the sump chamber, c) water being pumped from the sump is clear (no suspended solids or turbidity), and d) state water quality standards are achieved. Lines discharging water to the stream shall be equipped with a diffusing device which shall prevent the scouring and dislodging of fine sediments from the stream bank or bed

27. All turbid wastewater associated with the project shall be routed to an upland location and disposed of through infiltration. Pumps and lines of sufficient capacity shall be available on site during all dredging work.

### SALVAGE OF TREES, SHRUBS, AND LARGE WOODY DEBRIS



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28. If there are trees and shrubs on the bank that must be removed to construct this project, they shall be specifically identified prior to the start of excavation, marked so as to be visible to equipment operators, protected from damage and salvaged for immediate relocation/replanting in the toe of the re-graded streambank. Transplanting of these plants shall be consistent with the guidance provided by NRCS (3 publications attached).

29. If there is large woody debris (e.g. rootwads, stumps, logs greater than 10-inches in diameter and 10-feet in length) that must be removed to construct this project, it shall be removed intact, and incorporated in the toe of the graded streambank in a manner that provides habitat for fish along the bank toe.

### CHANNEL DREDGING AND STREAMBANK RE-GRADING

30. The work to dredge, re-grade and shape the channel and bank shall be done in the dry. Channel dredging shall only occur within 800 feet upstream of the North Branch Kittitas Reclamation District (KRD) canal in Naneum Creek.

31. The channel shall be dredged and shaped as shown on the attached typical plans with pools, bars, and meanders added to avoid large trees where possible and maintain channel complexity. The total amount of streambed material removed from the channel bed shall not exceed 2500 cubic yards. The excavation shall follow the path of the existing channel as staked on the ground and reviewed by WDFW. The channel bed shall be graded to provide a smooth transition between the excavated channel and the adjacent, unmodified channel segments immediately upstream and downstream of the work area.

32. The dredge spoils from the channel and bank sloping shall be hauled from the site and stockpiled at a location outside of the floodplain for use in future channel restoration work. The dredge spoils shall not be used to construct a levee or other floodplain obstruction that concentrates or re-directs flood flows.

33. Large woody debris salvaged from the work area shall be embedded or otherwise securely anchored in the toe of the re-graded bank. This woody material shall protrude into the channel so as to provide habitat for fish and help stabilize the bank toe.

34. A narrow, fish passable thalweg shall be defined in the channel to ensure that low flows are sufficiently concentrated to ensure fish passage at low stream flow. The streambed shall slope to the thalweg.

35. After the streambed has been graded and shaped, the bed shall be washed with water so as to leave a clean, natural-like streambed surface of cobble/gravel/sand, wash the fine materials down into the voids between the larger bed material and reduce the permeability of the bed. Any wastewater from this washing shall be captured at the downstream end of the work area and pumped to an upland area for disposal.

36. Once the channel has been cleaned and water in the channel is clear, the upstream and downstream containment dams shall be removed. Flow, if present, shall be restored to the channel and any temporary flow bypass facilities removed from the site.

### INSTALLATION OF SALVAGED PLANTS, TRANSPLANTS AND LIVE POLE CUTTINGS

37. Trees and shrubs salvaged from the work area shall be replanted in the toe of the re-graded streambank and other areas denuded of riparian vegetation within the entire dewatered reach. The trackhoe may dig planting holes along the bank to the depth of saturated soil, for each salvaged plant. A salvaged tree or shrub shall be planted in each hole such that the roots reach the zone of wet soil.

38. In addition to the salvaged plant material, cluster plantings of live willow pole cuttings and transplants (clump plantings) of native gravel bar-type willows, native red-osier dogwood and black cottonwood shall be planted along the bare banks within the dewatered reach to achieve a spacing of plants along the bank toe of not more than 10 feet between plants. The live poles and transplants shall be planted in holes or trenches excavated to the depth of



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saturated soil or to 3-feet below the depth of the streambed, whichever is less. The trackhoe may be used to open these planting holes along the bank.

## SITE RESTORATION

39. The disturbed streambed areas shall be restored to a natural-like condition. All waste material and earth in excess of backfill needs shall be removed completely from the project site and disposed of in an approved upland location where it will not alter flood flows nor reduce floodplain storage.

40. All earth areas adjacent to Naneum Creek which have been exposed, dewatered, or disturbed by this project are to be graded to a stable slope, seeded with a suitable erosion control seed mix, and protected from erosion with biodegradable erosion control materials suitable for the location. (Examples of biodegradable erosion control materials include erosion control blankets, hydro-mulch with tackifier, weed-free straw mulch, etc.)

41. Woody native plants adapted to stream sides shall be established along all stream bank areas denuded by this project. Transplants, cuttings (live stakes and live poles) and/or nursery stock of black cottonwood, gravel-bar-type willows, red osier dogwood, and mountain alder shall be planted immediately above the ordinary high water mark. Cuttings shall be planted deeply into the low flow water table.

LOCATION #1: , , WA						
WORK START: November 6, 2017			WORK END: December 1, 2017			
<u>WRIA</u>		<u>Waterbody:</u>		<u>Tributary to:</u>		
39 - Yakima (Above Naches R)		Naneum Creek (lb)		Wilson Creek		
<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	09	18 N	19 E	47.071526	-120.473207	Kittitas
<u>Location #1 Driving Directions</u>						

## 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.



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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 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.

**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



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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 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 220-660-470 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.

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.

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Habitat Biologist      jennifer.nelson@dfw.wa.gov  
Jennifer Nelson      509-962-3421

A handwritten signature in cursive script that reads "Jennifer Nelson".

for Director  
WDFW

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