Idaho Department of Environmental Quality
Draft Section 401 Water Quality Certification

June 25, 2026

Project Name: Zena Creek Restoration and Fish Passage Project, NWW-2025-00527

Permit Name and Number: Nationwide Permit 53; Removal of Low-Head Dams

Applicant/Authorized Agent: Secesh United; Clayton Roehner, United States Forest Service

Project Location: The project is located at Zena Creek Ranch, Yellow Pine, Valley County, Idaho; 45.042460° and -115.742126°

Receiving Water Body: Zena Creek; Secesh River

Pursuant to Section 401(a)(1) of the Federal Water Pollution Control Act (Clean Water Act), as amended; 33 U.S.C. Section 1341(a)(1); 40 CFR § 121; and Idaho Code §§ 39-101 et seq. and 39-3601 et seq., the Idaho Department of Environmental Quality (DEQ) has authority to review and certify that any discharge of dredged or fill material into waters of the United States will comply with water quality requirements under state law and the Clean Water Act. Consistent with DEQ's May 6, 2024, *Scope Directive for 2023 Clean Water Act § 401 Water Quality Certifications for § 404 Permits* (Scope Directive), this review is limited to the water quality-related impacts from the activity subject to the US Army Corps of Engineers (USACE) § 404 permit, including the activity's construction and any integral operational elements directly tied to that activity. DEQ's review does not extend to general project operations or ancillary upland activities that are subject to other federal, state, or local regulatory authorities. Moreover, the US Environmental Protection Agency's (EPA) May 21, 2025, clarification memorandum reiterates that CWA § 401 is limited to considering adverse impacts to water quality, and only insofar as they may prevent compliance with applicable water quality requirements. Conditions or denials may not be based on impacts unrelated to water quality or not within the scope of the federal permit.

In accordance with federal regulations at 40 CFR § 121.4, all project proponents must submit a request for a prefiling meeting at least thirty days in advance of submitting a certification request. A prefiling meeting request was received by DEQ on 3/11/2026. To facilitate early engagement and project coordination, DEQ accepted multiple opportunities to host prefiling meetings which were first conducted on 1/13/2026, to seek clarification as well as to discuss the project and potential information needs.

Based upon review of the federal permit application, readily available water quality related materials, and certification request in accordance with 40 CFR §§ 121.5 (b) and (c) and 121.7

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(c), received on, 5/6/2026, DEQ, certifies that if the permittee complies with the terms and conditions imposed by the federal permit and the conditions set forth in this water quality certification, then it is reasonable for DEQ to conclude that the activity will comply with water quality requirements, including applicable requirements of the Clean Water Act §§ 301, 302, 303, 306, and 307, Idaho's "Water Quality Standards" (IDAPA 58.01.02), and other appropriate water quality requirements of state law. This finding is based on DEQ's evaluation of the water quality-related impacts from the activity subject to the § 404 permit, consistent with DEQ's May 6, 2024, Scope Directive and EPA's May 21, 2025, clarification. Potential impacts unrelated to the permitted activity, or regulated under other authorities, were not evaluated or conditioned under this certification.

Pursuant to Clean Water Act § 401 (a)(1) and 40 CFR § 121.7 (d); and IDAPA 58.01.02.052.08, DEQ issued a 21-day public notice to solicit comments on the draft certification on 6/3/2026 through 6/24/2026. Any public comments received during the 21-day comment period were considered by DEQ to inform the certification decision and conditions.

This certification does not authorize activities by any other state or federal agency or any private individual or entity and does not relieve the permittee of the responsibility to obtain all other required approvals, authorizations, or permits that may be necessary for the project.

1 Project Description

The Zena Creek Restoration and Fish Passage Project proposes to remove the existing low-head dam and impoundment on Zena Creek and restore the stream channel, floodplain, and riparian area. The earthen dam, constructed in the 1940's to convey irrigation water, has accumulated sand and gravel over time, burying portions the historic stream channel and floodplain.

Construction requires temporarily dewatering approximately 330-feet of Zena Creek using a cofferdam and bypass system. Once the worksite is dry, a tracked excavator will remove the accumulated sand and gravel, concrete from the dam, the current impoundment and spillway. Excavated materials will either be placed above the ordinary high-water mark to recontour the valley's geometry or hauled to an approved off-site location. In addition to the dam removal, an associated drain culvert will also be removed.

Following dam removal, approximately 300 feet of the stream channel will then reconstructed to match the natural gradient and channel characteristics of upstream and downstream reference reaches. Approximately 1-acre of floodplain and riparian habitat will be restored by improving floodplain geometry, planting woody vegetation, woody structures, planting native seeds and mulching. Prior to the removal of the temporary cofferdam, the disturbed area will be rinsed with a high-pressure water system to compact sediment, limiting turbidity and sediment discharge associated with the project.

Best Management Practices (BMPs) such as a Forest Service approved dewatering plan, Forest Service approved erosion control plan, active turbidity monitoring and "pre-washed" streambed will be installed to limit pollution to Zena Creek and the Secesh River. The Forest

Service will implement an adaptive management approach to monitor the survival of plantings after years one and three post implementation and will include corrective actions, if necessary.

In total, approximately 630 linear feet of Zena Creek will be impacted by the project. Work includes removal of about 167 cubic yards of dam and accumulated rock and fill, excavation of approximately 3,592 cubic yards of material, and placement of about 177 cubic yards of fill to restore the channel and floodplain.

2 Antidegradation Review

Idaho's antidegradation policy only applies to waters subject to the jurisdiction of the Clean Water Act and establishes three tiers of water quality protection (IDAPA 58.01.02.051, 58.01.02.052).

Tier I Protection. The first level of protection applies to all water bodies subject to Clean Water Act jurisdiction and ensures that existing uses of a water body and the level of water quality necessary to protect those existing uses will be maintained and protected (IDAPA 58.01.02.051.01; 58.01.02.052.01). Additionally, a Tier I review is performed for all new or reissued permits or licenses (IDAPA 58.01.02.052.07).

Tier II Protection. The second level of protection applies to those water bodies considered high quality and ensures that no lowering of water quality will be allowed unless necessary to accommodate important economic or social development (IDAPA 58.01.02.051.02; 58.01.02.052.08).

Tier III Protection. The third level of protection applies to water bodies that have been designated outstanding resource waters and requires that activities do not lower water quality (IDAPA 58.01.02.051.03; 58.01.02.052.09).

DEQ employs a water-body-by-water-body approach to implementing Idaho's antidegradation policy. This approach means that any water body fully supporting its beneficial uses will be considered high quality (IDAPA 58.01.02.052.05.a). Any water body not fully supporting its beneficial uses will be provided Tier I protection for that use, unless specific circumstances warranting Tier II protection are met (IDAPA 58.01.02.052.05.c). The most recent federally approved *DEQ Integrated Report* and supporting data are used to determine support status and the tier of protection (IDAPA 58.01.02.052.05).

2.1 Pollutants of Concern

The pollutant of concern for this project is sediment. As part of the § 401 water quality certification, DEQ requires the applicant to comply with various conditions to protect water quality and ensure compliance with Idaho's water quality standards, including applicable water quality criteria for the identified pollutant.

The project may result in short-term increases in suspended sediment during construction activities. These effects are evaluated in the context of the § 404 activity footprint and immediate downstream waters.

2.2 Receiving Water Body Level of Protection

This project is located on Zena Creek within the South Fork Salmon subbasin assessment unit (AU) ID17060208SL005_02 (Secesh River – confluence of Summit Creek and Lake Creek to mouth). This AU has the following designated beneficial uses: cold water aquatic life, salmonid spawning, primary contact recreation and domestic water supply (IDAPA 58.01.02.130.10. In addition to these uses, all waters within the state are protected for agricultural and industrial water supply, wildlife habitat, and aesthetics (IDAPA 58.01.02.100).

According to DEQ's 2024 Integrated Report, this AU is not fully supporting one or more of its assessed uses. The aquatic life use is not fully supported. Causes of impairment include temperature. The contact recreation beneficial use is fully supported. As such, DEQ will provide Tier I protection (IDAPA 58.01.02.051.01) for the aquatic life use and Tier II protection, in addition to Tier I protection, for the primary contact recreation use (IDAPA 58.01.02.051.02 and 58.01.02.052.05.c).

2.3 Protection and Maintenance of Existing Uses (Tier I Protection)

A Tier I review is performed for all new or reissued permits or licenses, applies to all waters subject to the jurisdiction of the Clean Water Act, and requires demonstration that existing uses and the level of water quality necessary to protect existing uses must be maintained and protected. The numeric and narrative (non-numeric) criteria in the water quality standards are set at levels that ensure protection of existing and designated beneficial uses.

Water bodies not supporting existing or designated beneficial uses must be identified as water quality limited, and a total maximum daily load (TMDL) must be prepared for those pollutants causing impairment. Once a TMDL is developed, discharges of causative pollutants must be consistent with the allocations in the TMDL (IDAPA 58.01.02.055.05). Before developing the TMDL, the water quality standards require applying the antidegradation policy and implementation provisions to maintain and protect uses (IDAPA 58.01.02.055.04).

An EPA-approved TMDL has been developed for this AU. The TMDL addresses concerns that were identified in the *South Fork Salmon River Subbasin Temperature Total Maximum Daily Loads and Revised Sediment Targets: Addendum to the SF Salmon River Subbasin Assessment and TMDL*. Goals of the TMDL are to reduce temperature and sediment loading within the South Fork Salmon subbasin.

Throughout the life of the project, the applicant will implement, install, maintain, monitor, and adaptively manage BMPs to reduce erosion and minimize turbidity levels in receiving water bodies downstream of the project. In addition, permanent erosion and sediment controls will be implemented that will minimize or prevent future sediment contributions from the project area.

If the project is conducted according to the provisions of the project plans, federal permit and conditions of this certification, then it is reasonable for DEQ to conclude that the project will comply with the state's numeric and narrative water quality criteria. These criteria are set at levels that protect and maintain existing and designated beneficial uses.

There is no available information indicating the presence of any existing beneficial uses aside from those that are already designated and discussed above. The conditions in this certification ensure that the level of water quality necessary to protect both existing and designated uses is maintained and protected in compliance with the Tier I provisions of IDAPA 58.01.02.051.01 and 58.01.02.052.07.

2.4 High-Quality Waters (Tier II Protection)

Zena Creek is considered high quality for primary contact recreation. The water quality relevant to this use must be maintained and protected, unless lowering water quality is necessary to accommodate important social or economic development (IDAPA 58.01.02.051.02).

To determine whether degradation will occur, DEQ must evaluate how the activities subject to the federal permit issuance will affect water quality for each pollutant that is relevant to primary contact recreation uses of the Zena Creek (IDAPA 58.01.02.052.06). These pollutants include the following: sediment.

The only pollutant of concern associated with this project is sediment. Given that sediment primarily affects aquatic life at concentrations significantly lower than those affecting recreational uses and does not degrade water quality necessary to support contact recreation uses, DEQ focuses its sediment evaluations on aquatic life protections. Consequently, DEQ does not conduct a Tier II antidegradation analysis for contact recreation uses when sediment is the main pollutant of concern, as aquatic life protections inherently address the more sensitive endpoints (IDAPA 58.01.02.052.08). The project complies with IDAPA 58.01.02.051.02 and IDAPA 58.01.02.052.06.

To ensure protection of existing high-water quality, permanent erosion and sediment controls must be implemented to minimize or prevent future sediment contributions from the project area. The provisions in the federal permit, combined with the conditions of this certification, ensure that degradation to the Secesh River – confluence of Summit Creek and Lake Creek to mouth AU or the Zena Creek will not occur.

Based on this evaluation, DEQ concludes that this project complies with the Tier II provisions of IDAPA 58.01.02.051.02, 58.01.02.052.06, and 58.01.02.052.08.

3 Conditions Necessary to Ensure Compliance with Water Quality Standards or Other Appropriate Water Quality Requirements of State Law

The following conditions ensure the Zena Creek Restoration and Fish Passage project complies with Idaho's water quality standards and other appropriate water quality requirements of state law applicable to Zena Creek.

3.1 General Conditions

This certification is based on review of the federal permit application, readily available water quality related materials, and certification request submitted by Secesh United and the US Forest Service on 5/6/2026, and is conditioned upon the requirement that any modification (e.g., change in work windows, etc.) of the permitted activity must first be provided to DEQ for review to determine compliance with Idaho's water quality standards.

The following conditions apply solely to the activity subject to the § 404 permit. They are necessary to assure compliance with applicable water quality requirements as required by 40 CFR 121.3. Conditions do not extend to aspects of general project operation or unrelated upland activities regulated under other programs. Because DEQ is certifying only the activity described in the certification request, this condition ensures that discharges under circumstances that differ from those described in the certification request will comply with 33 U.S.C. § 1341, 40 CFR § 121, and other applicable water quality requirements, including without limitation 33 U.S.C. § 1311(a), Idaho Code § 39-108, IDAPA 58.01.02.051, IDAPA 58.01.02.052, IDAPA 58.01.02.080, IDAPA 58.01.02.200, IDAPA 58.01.02.210, IDAPA 58.01.02.250, IDAPA 58.01.02.251, IDAPA 58.01.02.252, IDAPA 58.01.02.253, and IDAPA 58.01.02.400.

1. DEQ reserves the right to modify this certification in accordance with 40 CFR § 121.10 if DEQ determines that, due to changes in relevant circumstances—including without limitation, changes in project activities, the characteristics of the receiving water bodies, or state water quality standards—there is no longer reasonable assurance of compliance with the water quality standards or other appropriate requirements of state law.
2. If ownership of the project changes, the certification holder must notify DEQ, in writing, upon transferring this ownership or responsibility for compliance with these conditions to another person or party. The new owner/operator must request, in writing, the transfer of this water quality certification to the new name.
3. A copy of this certification must be kept on the job site and readily available for review by any contractor working on the project and any federal, state, or local government personnel.
4. The applicant is responsible for all work done by contractors and must ensure the contractors are informed of and follow all the conditions described in this certification and the federal permit.
5. The applicant must provide access to the project site upon request by DEQ personnel for site inspections, monitoring, and/or to ensure that conditions of this certification are being met.
6. Projects must be conducted in a manner that complies with numeric and narrative criteria in Idaho's water quality standards, including criteria for sediment, turbidity, temperature, and dissolved oxygen.

3.2 Design, Implementation, and Maintenance of Best Management Practices (BMPs)

The following condition is necessary for the protection of beneficial uses according to Idaho's water quality standards, including without limitation, IDAPA 58.01.02.200, IDAPA 58.01.02.250, IDAPA 58.01.02.251, IDAPA 58.01.02.252, IDAPA 58.01.02.350, and IDAPA 58.01.02.401.

1. BMPs must be properly designed, implemented, and maintained to protect beneficial uses and minimize pollutant loading to surface waters. Proper installation and operation of BMPs are required to ensure the provisions of IDAPA 58.01.02.052 are met. To ensure that BMPs are operating properly and to demonstrate that degradation has not occurred, the permittee must monitor and evaluate BMP effectiveness daily during project activities to ensure that water quality standards are met. BMP inspection logs and documentation of corrective measures (if necessary) must be maintained on site, along with a copy of this certification and provided to DEQ upon request.

DEQ publishes the *Idaho Catalog of Storm Water Best Management Practices* (DEQ 2020), which identifies approved practices for controlling erosion and sediment during and following construction. Alternative sources of BMPs may be used only where consistent with state water quality standards and the conditions of this certification.

3.3 Fill Material

The following conditions are necessary for the protection of beneficial uses according to Idaho's water quality standards, including without limitation IDAPA 58.01.02.051, IDAPA 58.01.02.200, IDAPA 58.01.02.210, IDAPA 58.01.02.250, IDAPA 58.01.02.251, IDAPA 58.01.02.252, IDAPA 58.01.02.253, and IDAPA 58.01.02.400.

1. Fill material subject to suspension will be free of easily suspended fine material. Only clean materials may be placed as fill.
2. If dredged material is proposed for use as fill material and there is a possibility the material may be contaminated, then the permittee must assess and characterize sediment to determine the suitability of dredge material for unconfined-aquatic placement; determine the suitability of post-dredge surfaces; and predict the effect on water quality during dredging. Sediment assessment and characterization following the procedures in the *Sediment Evaluation Framework for the Pacific Northwest* (RSET 2018) satisfies this requirement. A different assessment and characterization methodology may be used if DEQ approves the methodology in writing.
3. When sand is utilized as fill material, appropriate BMPs must be implemented to ensure sand will not be easily dispersed (e.g., filter fabric anchored over the sand or other confinement).
4. Temporary fills must be removed in their entirety on or before construction completion.

3.4 Erosion and Sediment Control

The following conditions are necessary for the protection of beneficial uses according to Idaho's water quality standards, including without limitation IDAPA 58.01.02.051, IDAPA 58.01.02.200, IDAPA 58.01.02.250, IDAPA 58.01.02.253, and IDAPA 58.01.02.400.

1. BMPs for sediment and erosion control suitable to prevent exceedances of Idaho's water quality standards and consistency with TMDLs must be selected and installed before starting construction at the site.
2. Temporary and permanent erosion and sediment control measures must be installed around the perimeter of the project or initial work areas to control and prevent excess sediment from entering waters of the United States.
3. Temporary and permanent erosion and sediment control measures must be installed at the earliest practicable time consistent with good construction practices and must be maintained as necessary throughout the project.
4. Structural fill or bank protection must consist of materials that are placed and maintained to withstand predictable high flows in the waters of the United States.
5. A BMP inspection and maintenance plan must be developed and implemented. At a minimum, BMPs must be inspected and maintained daily during project implementation and replaced or augmented if they are not effective. BMP inspection logs and documentation of corrective measures (if necessary) must be maintained on site, along with a copy of this certification and provided to DEQ upon request.
6. All excess dredged or fill material generated by the authorized activity must be contained and properly disposed of so it does not enter waters of the United States or cause water quality degradation.
7. Disturbed areas suitable for vegetation must be seeded or revegetated to stabilize soils and prevent erosion to the maximum extent practicable (EPA 2000).
8. Maximum fill slopes must be material that is structurally stable once placed and does not slough into the stream channel during construction, during periods before revegetation, or after vegetation is established.
9. Sediment from disturbed areas or sediment that can be tracked by vehicles onto pavement must not leave the site in amounts reasonably expected to enter waters of the United States. Placement of clean aggregate at all construction entrances or exits and other BMPs such as truck or wheel washes, if needed, must be used when earth-moving equipment will be leaving the site and traveling on paved surfaces to prevent track-out.

3.5 Turbidity

The following conditions are necessary for the protection of beneficial uses according to Idaho's water quality standards, including without limitation IDAPA 58.01.02.051, IDAPA 58.01.02.200.08, IDAPA 58.01.02.250.02.e, IDAPA 58.01.02.253, and IDAPA 58.01.02.400.

1. Sediment resulting from activities—including BMP failures, construction mishaps, spills, or any unplanned event—must be mitigated to prevent violations of Idaho's water quality standards. Any violation of this standard must be reported to the DEQ regional office immediately.
2. Throughout the life of the project, the applicant must implement, maintain, monitor, and adaptively manage BMPs—such as silt curtains, geotextile fabrics, and silt fences—to minimize instream sediment suspension, turbidity, and the potential for spills or mishaps to affect surface waters.
3. Visual observation is acceptable to determine whether project activities, BMPs, or unanticipated events (e.g., construction mishaps or spills) are contributing to increased turbidity. If a sediment plume is observed, the project may be causing an exceedance of water quality standards, and the permittee must inspect BMPs and the project activity area to identify the cause. If the BMPs, site conditions, or any incident are contributing to turbidity, the permittee must take corrective measures and modify the activity, address the incident, and implement additional or revised BMPs.
4. If a visible sediment plume persists after corrective measures have been implemented, turbidity monitoring consistent with Table 1 and Appendix A is required.
    a. A properly and regularly calibrated turbidimeter is required for field measurements. The turbidimeter should be calibrated before each use or in accordance with the manufacturer's recommendations. Calibration logs must be maintained and made available to DEQ upon request. Instantaneous grab samples must be collected upstream of the disturbance to determine background turbidity and downstream within the visible plume to evaluate project impacts. Location, date, time, and turbidity values must be recorded for each sample.
    b. Results from the downstream sampling location must be compared to the upstream sample location or background turbidity to determine whether project activities are causing an exceedance of Idaho's water quality standards. If the downstream turbidity is 50 nephelometric turbidity units (NTUs) or greater than the upstream turbidity, then the project is causing an exceedance of the water quality standards. Any exceedance of the turbidity standard must be reported to the DEQ regional office within 24 hours of the sample event.
    c. Work (or earth-disturbing activities) may resume when turbidity readings return to within 50 NTU above background, or if turbidity has exceeded 25 NTU above background for more than 10 consecutive days, once readings have remained below 25 NTU above background for at least 24 consecutive hours.
    d. Daily turbidity monitoring logs must be available to DEQ upon request. Logs must describe all exceedances, the causes (including spills or incidents, if applicable), corrective measures taken, and the effectiveness of those measures.

Table 1. Turbidimeter monitoring and sampling when a plume is observed.

Turbidity Above Background[a]	Monitoring/Sampling Frequency[a]	Additional Actions Required
0 to 24 NTU	Visual monitoring every 2 hours. No sampling required.	None
25 to 49 NTU	Collect samples every 2 hours.	Continue work for up to 8 hours within any 24-hour period, then STOP work until turbidity returns to acceptable levels.
25 NTU for 10 or more consecutive days	Sample before and after implementing corrective actions, following instructions[b]	STOP work, implement corrective actions, and follow instructions[b]; notify DEQ regional office
50 NTU or more	Sample before and after implementing corrective actions, following instructions[c]	STOP work, implement corrective actions, and follow instructions[c]; notify DEQ regional office

a. For any required turbidity sampling, collect and report three measurements at each monitoring location. Use the maximum value of three measurements to determine compliance following Table 1 directions.
b. Instructions: If BMPs appear to be functioning properly, the permittee must modify the activity or implement corrective actions, such as installing additional or modifying existing BMPs, until turbidity measurements indicate turbidity standards are met. Sampling may cease once a sediment plume is no longer observed. Work may resume when the sediment plume is no longer visible and turbidity measurements remain consecutively below 25 NTU.
c. Instructions: If BMPs appear to be functioning properly, the permittee must modify the activity or implement corrective action, such as installing additional or modifying existing BMPs, until turbidity measurements indicate turbidity standards are met. Sampling may cease when the sediment plume is no longer visible. Work may resume when the sediment plume is no longer visible and turbidity measurements remain below 50 NTU.

3.6 In-Water Work

The following conditions are necessary for the protection of beneficial uses according to Idaho's water quality standards, including without limitation IDAPA 58.01.02.051, IDAPA 58.01.02.200, IDAPA 58.01.02.250, IDAPA 58.01.02.253, and IDAPA 58.01.02.400.

1. When practicable, equipment must work from an upland site to minimize disturbance of waters of the United States.
2. Construction affecting the streambed or streambanks must generally occur during low-flow periods, and where practicable, coincide with suitable in-water work periods for aquatic life.
3. To the maximum extent practicable, where fill is needed, temporary crossings must be installed perpendicular to the channel and located in areas that will result in the least environmental impact. Temporary crossings must be stabilized with clean gravel or treated with other measures that are equally effective in reducing impacts. All temporary crossings must be removed as soon as possible after project completion or when they are no longer needed.
4. To the maximum extent practicable, heavy equipment operating in wetlands must be placed on mats or suitably designed pads to prevent damage to wetland soil and vegetation. However, during winter conditions, mats or pads may not be required if the ground is adequately frozen and construction activities are expected to result in minimal impacts.
5. In-water activities in spawning areas must be avoided to the maximum extent practicable during spawning and incubation periods.

6. Prior to project commencement, the applicant should consider contacting the Idaho Department of Lands (IDL) and Idaho Department of Fish and Game (IDFG) offices for potential permit applicability.
7. Prior to the start of in-water work, the applicant must contact the local IDFG Regional Office to determine if spawning areas are present in the work area, and if so, the applicant must work with IDFG to determine an appropriate work window so as not to disturb spawning fish, incubating fish eggs, or newly emerged fry.
8. Wastewater from concrete washout and equipment cleaning must be managed to prevent discharge to waters of the United States. Control measures must be maintained to prevent or minimize the potential for wet concrete, slurry, or wash water from entering waters of the United States.
9. Activities that construct and maintain intake structures must include adequate fish exclusion screening devices in accordance with the National Marine Fisheries Services *Fish Screening Criteria for Anadromous Salmonids* (NMFS 1997) to minimize and prevent fish entrainment or capture. Stranded fish found in dewatered segments must be moved to a location with water (preferably downstream) by IDFG. A collection permit must be obtained from IDFG, and the applicant may consult with IDFG to coordinate fish salvage.
10. To the maximum extent practicable, equipment operating over water or directly adjacent to the channel must utilize environmentally acceptable lubricants or hydraulic fluids that are less toxic to fish and other aquatic organisms.

3.7 Vegetation Protection and Restoration

The following conditions are necessary for the protection of beneficial uses according to Idaho's water quality standards, including without limitation IDAPA 58.01.02.051, IDAPA 58.01.02.200, IDAPA 58.01.02.250, IDAPA 58.01.02.253, and IDAPA 58.01.02.400.

1. To the maximum extent practicable, locate staging areas and access points in open, upland areas.
    a. Fencing and other protective barriers should be used to mark the construction areas.
    b. To the maximum extent practicable, minimize disturbance of native vegetation to reduce soil erosion, sediment delivery of sediment to waterways, and impacts to aquatic biota.
2. Existing riparian vegetation within the project area must remain undisturbed to the maximum extent practicable. Where disturbance is unavoidable, implement BMPs to minimize impacts and replant disturbed areas with native riparian species that provide equivalent or improved shading, bank stability, and habitat functions within the current or next appropriate planting season.
3. Where project activities unavoidably remove native riparian or wetland vegetation, successfully reestablish native species within the current or next appropriate planting season to the maximum extent practicable. Restoration must achieve, at minimum,

preproject levels of water quality benefit or result in an overall ecosystem improvement.

3.8 Management of Hazardous or Deleterious Materials

The following conditions are necessary for the protection of beneficial uses according to Idaho's water quality standards, including without limitation IDAPA 58.01.02.051, IDAPA 58.01.02.080, IDAPA 58.01.02.200, IDAPA 58.01.02.400, IDAPA 58.01.02.800, and IDAPA 58.01.02.850.

1. Petroleum products and hazardous, toxic, and/or deleterious materials must not be stored, disposed of, or accumulated adjacent to or in the immediate vicinity of waters of the United States. Adequate measures and controls must ensure that those materials will not enter waters of the United States because of high water, precipitation runoff, wind, storage facility failure, accidents, or unauthorized third-party activities.
2. Secondary containment must be provided for all chemical materials stored or used on-site to prevent spills, leaks, or releases to soil or waters of the United States. Containment systems must be designed and maintained in accordance with applicable industry standards and manufacturer recommendations.
3. Daily inspections of all fluid systems on equipment to be used in or near waters of the United States must ensure no leaks or potential leaks exist before equipment use. A logbook of daily equipment inspections must be kept on site and provided to DEQ upon request.
4. Equipment and machinery must not be refueled, repaired, or serviced within waters of the United States.
5. Equipment and machinery must be steam cleaned of oils and grease in an upland location or staging area with appropriate wastewater controls and treatment capability before entering waters of the United States. Any wastewater or wash water must not enter waters of the United States.
6. Emergency spill response procedures must be in place and include a spill response kit (e.g., oil absorbent booms or other equipment).
7. If an unauthorized release of hazardous material to waters of the United States or to land occurs and there is a likelihood it will enter waters of the United States, the responsible persons in charge must:
    a. Make every reasonable effort to abate and stop a continuing spill.
    b. Make every reasonable effort to contain spilled material so it will not reach waters of the United States.
    c. Call 911 if immediate assistance is required to control, contain, or clean up the spill. If no assistance is needed in cleaning up the spill, contact the appropriate DEQ regional office during normal working hours or Idaho State Communications Center after normal working hours (1-800-632-8000). If the spilled volume is above federal reportable quantities, contact the National Response Center (1-800-424-8802).
    d. Contact Boise Regional Office: (208) 373-0550.

8. Collect, remove, and properly dispose of spill and cleanup materials in accordance with all federal, state, and local regulations.

3.9 Culverts

The following conditions to control erosion, sediment, and turbidity are necessary for the protection of beneficial uses according to Idaho's water quality standards, including without limitation IDAPA 58.01.02.200 and IDAPA 58.01.02.250.

1. To prevent road surface and culvert bedding material from entering a stream, culvert crossings must include BMPs to retain road base and culvert bedding material. For perennial waters, the permittee should consider Idaho's "Stream Channel Alterations Rules" (IDAPA 37.03.07). Another source of BMPs for culvert installation are found in the "Rules Pertaining to the Idaho Forest Practices Act" (IDAPA 20.02.01). Examples of BMPs include, but are not limited to: parapets, wing walls, inlet and outlet rock armoring, compaction, suitable bedding material, antiseep barriers such as bentonite clay, or other acceptable roadway retention systems.
2. Culverts and piping must be sized appropriately to maintain the natural drainage patterns.
3. Culverts must not constrict the stream channel or direct flow toward the streambank. Adequate grade control must be installed to prevent channel erosion or sediment buildup.
4. Culverts for fish-bearing waterways must be installed so they do not impede fish passage.
5. The culvert outflow must be armored with riprap to provide erosion control. This riprap will be clean, angular, dense rock that is free of fines and resistant to aquatic decomposition.

3.10 Treated Wood

The following conditions are necessary for the protection of beneficial uses according to Idaho's water quality standards, including without limitation IDAPA 58.01.02.051, IDAPA 58.01.02.200, IDAPA 58.01.02.210, IDAPA 58.01.02.250, IDAPA 58.01.02.251, IDAPA 58.01.02.252, IDAPA 58.01.02.253. These conditions ensure that toxic chemicals are not introduced into waters of the United States.

1. The *Guidance for the Use of Wood Preservatives and Preserved Wood Products In or Around Aquatic Environments* (DEQ 2008) must be considered when using treated wood materials in the aquatic environment. The DEQ guidance references the *Best Management Practices for the Use of Treated Wood in Aquatic and Wetland Environments* (Western Wood Preservers Institute et al. 2011). This BMP document provides recommended guidelines for producing and installing treated wood products for use in sensitive environments.
2. All treated wood must be treated in a manner consistent with the pesticide's EPA-approved labeling. As a matter of good industry practice, pressure-treated wood ties are

also to be treated in accordance with standards established by the American Wood Protection Association. Additionally, only wood treated with ACQ, ACZA, CA-B, and copper naphthenate may be used. Wood treated with creosote, CCA, pentachlorophenol (Penta), or any other prohibited chemical will not be covered under this water quality certification.

3. Adhere to the manufacturer's guidelines for proper storage, handling, and usage.
4. Materials must be stored out of direct soil or standing water, away from drainage conveyances adjacent to waters of the United States and covered until needed for use.
5. Set up a controlled workspace or designated work area with barriers to capture and contain debris to prevent it from spreading.
6. Collect and properly dispose of sawdust and wood scraps in accordance with federal, state, and local regulations. Treated wood waste must not be burned or composted.

3.11 Dredge Material Management

This condition ensures that there is no unauthorized discharge from upland disposal sites according to 33 U.S.C. § 1311(a) and Idaho's water quality requirements, including without limitation Idaho Code § 39-108, IDAPA 58.01.02.080, and IDAPA 58.01.02.400.

1. Upland disposal of dredged material must prevent the material from reentering waters of the United States.

3.12 Pollutants/Toxins

In conformance with IDAPA 58.01.02.200, the use of chemicals such as sterilants, growth inhibitors, fertilizers, and deicing salts during construction should be limited to the best estimate of optimum application rates. All reasonable measures must be taken to avoid excess application and introduction of chemicals into waters of the United States.

4 Required Notification

The permittee must notify the Boise Regional Office when authorized work begins and if the applicant or organization is transferred or changes.

The applicant should consult Idaho Department of Fish and Game for appropriate fish protection and handling methods prior to the start of stream realignment work and prior to the start of any work that requires dewatering.

5 Right to Appeal Final Certification

The final § 401 Water Quality Certification may be appealed by submitting a petition to initiate a contested case, pursuant to Idaho Code § 39-107(5) and the "Rules of Administrative

Procedure before the Board of Environmental Quality" (IDAPA 58.01.23), within 35-days of the date of the final certification.

Questions or comments regarding the actions taken in this certification should be directed to Meghan Cline in the Boise Regional Office at Meghan.Cline@deq.idaho.gov or (208)-373-0514.

Troy Smith
Regional Administrator
Boise Regional Office

References

DEQ (Idaho Department of Environmental Quality). 2008. *Guidance for the Use of Wood Preservatives and Preserved Wood Products in or Around Aquatic Environments*. Boise, ID. https://www2.deq.idaho.gov/admin/LEIA/api/document/download/4838

DEQ (Idaho Department of Environmental Quality).2012. *South Fork Salmon River Subbasin Temperature Total Maximum Daily Loads and Revised Sediment Targets: Addendum to the SF Salmon River Subbasin Assessment and TMDL*. Boise, ID. South Fork Salmon River Subbasin Temperature TMDL and Revised Sediment Targets

DEQ (Idaho Department of Environmental Quality). 2020. *Idaho Catalog of Storm Water Best Management Practices*. Boise, ID. https://www.deq.idaho.gov/water-quality/wastewater/storm-water/

DEQ (Idaho Department of Environmental Quality). 2024. *Idaho Department of Environmental Quality 2024 Integrated Report*. Boise, ID. https://www2.deq.idaho.gov/admin/LEIA/api/document/download/23740

EPA (US Environmental Protection Agency). 2000. *National Menu of Best Management Practices (BMPs) for Stormwater*. https://www.epa.gov/npdes/national-menu-best-management-practices-bmps-stormwater

NMFS (National Marine Fisheries Service). 1997. *Fish Screening Criteria for Anadromous Salmonids.* https://media.fisheries.noaa.gov/dam-migration/southwest_region_1997_fish_screen_design_criteria.pdf

RSET (Northwest Regional Sediment Evaluation Team). 2018. *Sediment Evaluation Framework for the Pacific Northwest*. Prepared by the RSET Agencies. https://usace.contentdm.oclc.org/utils/getfile/collection/p16021coll11/id/2548

Western Wood Preservers Institute, Wood Preservation Canada, Southern Pressure Treaters' Association, and Southern Forest Products Association. 2011. *Best Management Practices: For the Use of Treated Wood in Aquatic and Wetland Environments.* Vancouver, WA: Western Wood Preservers Institute. https://preservedwood.org/wp-content/uploads/BMP_Specifiers_Guide.pdf

Appendix A. Turbidity Monitoring Overview

