



STATE OF IDAHO
DEPARTMENT OF
ENVIRONMENTAL QUALITY

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Governor Brad Little
Director John H. Tippetts

August 9, 2019

Chuck O. Pavco
Gooding Highway District
P.O. Box 266
Gooding, Idaho 83330

Re: NWW-2019-00363, ITD Bridge Replacement

Dear Mr. Pavco:

The Department of Environmental Quality (DEQ) has considered water quality certification for the completion of the above reference project. DEQ is issuing the enclosed 401 Water Quality Certification subject to the terms and conditions therein.

If you have any questions or further information, please contact Sean Woodhead, (208) 736-2190 or sean.woodhead@deq.idaho.gov.

Sincerely,

A handwritten signature in blue ink that reads "Sue Switzer".

Sue Switzer
Regional Administrator

SS:SW:sg

Enclosure (1)

cc: Sean Woodhead, DEQ-Twin Falls Regional Office
Shane Skaar, Corp of Engineers – Coeur D' Alene Regulatory Office
Loren Moore, DEQ State Office



Idaho Department of Environmental Quality Final §401 Water Quality Certification

August 9, 2019

404 Permit Application Number: NWW-2019-00363, Idaho Transportation Department (ITD) bridge replacement

Nationwide Permit Number: 14, Linear Transportation Projects

Applicant/Authorized Agent: ITD, District 4

Project Location: Latitude 42.952917 N, Longitude -114.742792 W; Gooding County; Gooding, Idaho

Receiving Water Body: Big Wood River

Pursuant to the provisions of Section 401(a)(1) of the Federal Water Pollution Control Act (Clean Water Act), as amended; 33 U.S.C. Section 1341(a)(1); and Idaho Code §§ 39-101 et seq. and 39-3601 et seq., the Idaho Department of Environmental Quality (DEQ) has authority to review activities receiving Section 404 dredge and fill permits and issue water quality certification decisions.

Based upon its review of the joint application for permit, received on July 1, 2019, DEQ certifies that if the permittee complies with the terms and conditions imposed by the permit along with the conditions set forth in this water quality certification, then there is reasonable assurance the activity will comply with the applicable requirements of Sections 301, 302, 303, 306, and 307 of the Clean Water Act, the Idaho Water Quality Standards (WQS) (IDAPA 58.01.02), and other appropriate water quality requirements of state law.

This certification does not constitute authorization of the permitted activities by any other state or federal agency or private person or entity. This certification does not excuse the permit holder from the obligation to obtain any other necessary approvals, authorizations, or permits.

Project Description

The Idaho Transportation Department (ITD) is planning on replacing and realigning the 1700 South Road Bridge over the Big Wood River near Gooding. The replacement structure is anticipated to be a 120-foot single span, precast concrete girder bridge. Approximately 2,000 feet of the 1700 South Road will be realigned as part of the project. The existing overflow culvert is a 35-foot pipe which will be replaced with two 65-foot long arch pipes. The project proposes to discharge 35 cubic yards of fill, (16 cubic yards of riprap and gravels, and 19 cubic yards of concrete). A coffer dam will be constructed to allow work in the dry.

The project proposes no construction activities within the river below the ordinary high water mark. There will be construction within wetlands adjacent to the Big Wood River. Construction is anticipated to take at least six months to complete and may occur as early as June of 2020, although the project timeline may extend to the subsequent year.

Antidegradation Review

The WQS contain an antidegradation policy providing three levels of protection to water bodies in Idaho (IDAPA 58.01.02.051).

- 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 1 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 deemed 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 not cause a lowering of water quality (IDAPA 58.01.02.051.03; 58.01.02.052.09).

DEQ is employing 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 Integrated Report and supporting data are used to determine support status and the tier of protection (IDAPA 58.01.02.052.05).

Pollutants of Concern

The primary pollutant of concern for this project is sediment. As part of the Section 401 water quality certification, DEQ is requiring the applicant comply with various conditions to protect water quality and to meet Idaho WQS, including the water quality criteria applicable to sediment.

Receiving Water Body Level of Protection

This project is located on Big Wood River within the Big Wood River Subbasin assessment unit (AU) 17040219SK002_06 (Big Wood River - Magic Reservoir Dam to mouth). This assessment unit is designated for cold water aquatic life, salmonid spawning and primary contact recreation beneficial uses. In addition to these uses, all waters of the state are protected for agricultural and industrial water supply, wildlife habitat, and aesthetics (IDAPA 58.01.02.100).

This AU is not fully supporting its cold water aquatic life, salmonid spawning and contact recreation beneficial uses. Causes of impairment include: total phosphorous, sedimentation/siltation and *Escherichia coli* (DEQ 2016 Integrated Report). As such, DEQ will provide Tier I protection for both the aquatic life use and the recreation beneficial use (IDAPA 58.01.02.051.01).

Protection and Maintenance of Existing Uses (Tier I Protection)

As noted above, 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 shall be maintained and protected. The numeric and narrative criteria in the WQS are set at levels that ensure protection of 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 shall be consistent with the allocations in the TMDL (IDAPA 58.01.02.055.05). Prior to the development of the TMDL, the WQS require the application of the antidegradation policy and implementation provisions to maintain and protect uses (IDAPA 58.01.02.055.04).

During the construction phase, the applicant will implement, install, maintain, monitor, and adaptively manage best management practices (BMPs) directed toward reducing erosion and minimizing turbidity levels in receiving water bodies downstream of the project. Specifically, construction equipment and methods used to limit the amount of sediment introduced at the construction site will include:

- Building a coffer dam so that work will be done in the dry;
- Placement of silt fence and fiber wattles;
- Placement of fencing to protect wetlands;
- Preparation of a bridge demolition plan to limit debris introduced into the channel;
- Installation of erosion blankets, if needed; and
- Disposal of excess waste material into a designated waste area, authorized by an ITD-approved waste plan.

Permanent erosion and sediment controls will also be implemented, which will minimize or prevent future sediment contributions from the project area. Equipment will be staged away from the river and wetlands and disturbed soils will be reseeded and mulched.

In order to prevent other contaminants from entering the Big Wood River, concrete wash outs will be installed a minimum of 200 feet from all waterways and wetlands and fueling activities within 150 feet of the river or wetlands will not be allowed. Also, spill kits will be made available.

As long as the project is conducted in accordance with the provisions of the project plans, Section 404 permit, and conditions of this certification, then there is reasonable assurance the project will comply with the state's numeric and narrative criteria. These criteria are set at levels that protect and maintain designated and existing beneficial uses. In addition, the project will be consistent with *The Big Wood River Management Plan* (DEQ 2002) by stabilizing soils and reducing erosion and sediment loads to the Big Wood River.

There is no available information indicating the presence of any existing beneficial uses aside from those that are already designated and discussed above; therefore, the permit ensures that the level of water quality necessary to protect both designated and existing uses is maintained and protected in compliance with the Tier I provisions of Idaho's WQS (IDAPA 58.01.02.051.01 and 58.01.02.052.07).

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

General Conditions

1. This certification is conditioned upon the requirement that any modification (e.g., change in BMPs, work windows, etc.) of the permitted activity shall first be provided to DEQ for review to determine compliance with Idaho WQS and to provide additional certification pursuant to Section 401. Such modifications may not be implemented until DEQ has determined whether additional certification is necessary.
2. DEQ reserves the right to modify, amend, or revoke this certification 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 WQS—there is no longer reasonable assurance of compliance with WQS or other appropriate requirements of state law.
3. If ownership of the project changes, the certification holder shall notify DEQ, in writing, upon transferring this ownership or responsibility for compliance with these conditions to another person or party. The new owner/operator shall request, in writing, the transfer of this water quality certification to his/her name.
4. 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.
5. Project areas shall be clearly identified in the field prior to initiating land-disturbing activities to ensure avoidance of impacts to waters of the US beyond project footprints.
6. The applicant shall provide access to the project site and all mitigation sites upon request by DEQ personnel for site inspections, monitoring, and/or to ensure that conditions of this certification are being met.
7. 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 Section 404 permit.

8. If this project disturbs more than 1 acre and there is potential for discharge of stormwater to waters of the US, coverage under the EPA Stormwater Construction General Permit *must* be obtained. More information can be found at <https://www.epa.gov/npdes-permits/stormwater-discharges-construction-activities-region-10>.

Fill Material

9. Fill material shall be free of organic and easily suspendable fine material. The fill material to be placed shall include clean earth fill, sand, and stone only.
10. Fill material shall not be placed in a location or in a manner that impairs surface or subsurface water flow into or out of any wetland area.
11. Placement of fill material in existing vegetated wetlands shall be minimized to the greatest extent possible.
12. All temporary fills shall be removed in their entirety on or before construction completion.
13. Excavated or staged fill material must be placed so it is isolated from the water edge or wetlands and not placed where it could re-enter waters of the state uncontrolled.

Erosion and Sediment Control

14. Sediment resulting from this activity must be mitigated to prevent violations of the turbidity standard as stipulated under the Idaho WQS (IDAPA 58.01.02.250.02.e). Any violation of this standard must be reported to the DEQ regional office immediately.
15. BMPs for sediment and erosion control suitable to prevent exceedances of state WQS shall be selected and installed before starting construction at the site. One resource that may be used in evaluating appropriate BMPs is DEQ's *Catalog of Stormwater Best Management Practices for Idaho Cities and Counties*, available online at <http://www.deq.idaho.gov/media/494058-entire.pdf>. Other resources may also be used for selecting appropriate BMPs.
16. One of the first construction activities shall be placing permanent and/or temporary erosion and sediment control measures around the perimeter of the project or initial work areas to protect the project water resources.
17. Permanent erosion and sediment control measures shall be installed in a manner that will provide long-term sediment and erosion control to prevent excess sediment from entering waters of the state.
18. Permanent erosion and sediment control measures shall be installed at the earliest practicable time consistent with good construction practices and shall be maintained as necessary throughout project operation.
19. Top elevations of bank stabilization shall be such that adequate freeboard is provided to protect from erosion at 100-year design flood elevation.
20. Structural fill or bank protection shall consist of materials that are placed and maintained to withstand predictable high flows in the waters of the state.
21. A BMP inspection and maintenance plan must be developed and implemented. At a minimum, BMPs must be inspected and maintained daily during project implementation.

22. BMP effectiveness shall be monitored during project implementation. BMPs shall be replaced or augmented if they are not effective.
23. All construction debris shall be properly disposed of so it cannot enter waters of the state or cause water quality degradation.
24. Disturbed areas suitable for vegetation shall be seeded or revegetated to prevent subsequent soil erosion.
25. Maximum fill slopes shall be such that material is structurally stable once placed and does not slough into the stream channel during construction, during periods prior to revegetation, or after vegetation is established.
26. To the extent reasonable and cost-effective, the activity submitted for certification shall be designed to minimize subsequent maintenance.
27. Sediment from disturbed areas or able to be tracked by vehicles onto pavement must not be allowed to leave the site in amounts that would reasonably be expected to enter waters of the state. 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.

Turbidity

28. Sediment resulting from this activity must be mitigated to prevent violations of the turbidity standard as stipulated under the Idaho WQS (IDAPA 58.01.02). Any violation of this standard must be reported to the DEQ regional office immediately.
29. All practical BMPs on disturbed banks and within the waters of the state must be implemented to minimize turbidity during in-water work.
30. Containment measures such as silt curtains, geotextile fabrics, and silt fences must be implemented and properly maintained to minimize instream sediment suspension and resulting turbidity.
31. Turbidity monitoring must be conducted and recorded as described below. Monitoring must occur each day during project implementation. A properly and regularly calibrated turbidimeter is recommended, but visual observation is acceptable.

A sample or observation must be taken every two hours at a relatively undisturbed area approximately 100 feet up-current from in-water disturbance or discharge to establish background turbidity levels for each monitoring event. Background turbidity, location, date, and time must be recorded prior to monitoring down-current.

Monitoring must occur every two hours approximately 100 feet down-current from the in-water disturbance or point of discharge and within any visible plume. The turbidity, location, date, and time must be recorded for each sample or observation.

Results from the compliance point sampling or observations must be compared to the background levels sampled or observed during each monitoring event. If the downstream turbidity exceeds upstream turbidity by 50 nephelometric turbidity units (NTU) or more, *or if a plume is observed*, then the project is causing an exceedance of the WQS. If an exceedance occurs, the applicant must inspect the condition of the projects BMPs. If the

BMPs appear to be functioning to their fullest capability, then the applicant must modify the activity (this may include modifying existing BMPs).

32. Turbidity monitoring must be reported. Copies of daily logs for turbidity monitoring must be available to DEQ upon request. The log must include background measurements (in NTUs) or observations; compliance point measurements or observations; comparison of background and compliance point monitoring as a numeric value (in NTUs) or in narrative form; and location, time, and date for each sampling event. The report must describe all exceedances and subsequent actions taken, monitoring, and the effectiveness of the action.

In-water Work

33. Work in open water is to be kept at a minimum and only when necessary. Equipment shall work from an upland site to minimize disturbance of waters of the US. If this is not practicable, appropriate measures must be taken to ensure disturbance to the waters of the US is minimized.
34. Construction affecting the bed or banks shall take place only during periods of low flow.
35. Fording of the channel is not permitted. Temporary bridges or other structures shall be built if crossings are necessary.
 - a. Temporary crossings must be perpendicular to channels and located in areas with the least impact. The temporary crossings must be supplemented with clean gravel or treated with other mitigation methods at least as effective in reducing impacts. Temporary crossings must be removed as soon as possible after the project is completed or the crossing is no longer needed.
36. Heavy equipment working in wetlands shall be placed on mats or suitably designed pads to prevent damage to the wetlands.
37. Activities in spawning areas must be avoided to the maximum extent practicable.
38. Work in waters of the state shall be restricted to areas specified in the application.
39. Measures shall be taken to prevent wet concrete from entering into waters of the state when placed in forms and/or from truck washing.
40. Activities that include constructing and maintaining intake structures must include adequate fish screening devices to prevent fish entrainment or capture.
41. Stranded fish found in dewatered segments should be moved to a location (preferably downstream) with water.
42. To minimize sediment transport, stream channel or stream bank stabilization must be completed prior to returning water to a dewatered segment.

Pollutants/Toxics

43. The use of chemicals such as soil stabilizers, dust palliatives, sterilants, growth inhibitors, fertilizers, and deicing salts during construction and operation should be limited to the best estimate of optimum application rates. All reasonable measures shall be taken to avoid excess application and introduction of chemicals into waters of the state.

Vegetation Protection and Restoration

44. Disturbance of existing wetlands and native vegetation shall be kept to a minimum.
45. To the maximum extent practical, staging areas and access points should be placed in open, upland areas.
46. Fencing and other barriers should be used to mark the construction areas.
47. Where possible, alternative equipment should be used (e.g., spider hoe or crane).
48. If authorized work results in unavoidable vegetative disturbance, riparian and wetland vegetation shall be successfully reestablished to function for water quality benefit at pre-project levels or improved at the completion of authorized work.

Dredge Material Management

49. Upland disposal of dredged material must be done in a manner that prevents the material from re-entering waters of the state.

Management of Hazardous or Deleterious Materials

50. Petroleum products and hazardous, toxic, and/or deleterious materials shall not be stored, disposed of, or accumulated adjacent to or in the immediate vicinity of waters of the state. Adequate measures and controls must be in place to ensure that those materials will not enter waters of the state as a result of high water, precipitation runoff, wind, storage facility failure, accidents in operation, or unauthorized third-party activities.
51. Vegetable-based hydraulic fluid should be used on equipment operating in or directly adjacent to the channel if this fluid is available.
52. Daily inspections of all fluid systems on equipment to be used in or near waters of the state shall be done to ensure no leaks or potential leaks exist prior to equipment use. A log book of these inspections shall be kept on site and provided to DEQ upon request.
53. Equipment and machinery must be removed from the vicinity of the waters of the state prior to refueling, repair, and/or maintenance.
54. Equipment and machinery shall be steam cleaned of oils and grease in an upland location or staging area with appropriate wastewater controls and treatment prior to entering a water of the state. Any wastewater or wash water must not be allowed to enter a water of the state.
55. Emergency spill procedures shall be in place and may include a spill response kit (e.g., oil absorbent booms or other equipment).
56. Spills of petroleum products must be cleaned up immediately in accordance with the WQS, IDAPA 58.01.02.851.04.
 - a. Any spill less than 25 gallons must be cleaned up within 24 hours of the release but does not require reporting to DEQ. If the spill is less than 25 gallons and is not cleaned up within 24 hours, then it becomes a reportable quantity.
 - b. Any spill greater than or equal to 25 gallons must be cleaned up within 24 hours of the release and reported to DEQ by calling 1-800-632-8000 (Idaho State Communications Center). Any spill equal to or greater than 25 gallons is reportable immediately.

c. Any release that causes a sheen (of any size) in waters of the state must be reported immediately to the National Response Center at 1-800-424-8802 and the Idaho State Communication Center (1-800-632-8000).

Culverts

57. The culvert shall not constrict the stream channel and shall not be angled such that the outflow is directed toward the stream bank. The culvert's flow line shall match the existing stream invert at its entrance and exit. Adequate grade control shall be installed to prevent channel down cutting or excessive deposition from occurring.
58. The culvert shall be installed such that it does not impede fish passage.
59. The culvert outflow shall 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.
60. Culverts shall be sized appropriately to maintain the natural drainage patterns.

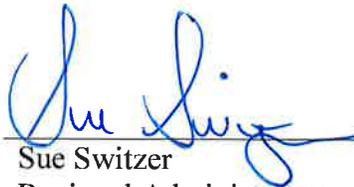
Treated Wood

61. Any use of treated wood materials in the aquatic environment must be conducted in accordance with DEQ's "Guidance for the Use of Wood Preservatives and Preserved Wood Products In or Around Aquatic Environments." This guidance is available online at http://www.deq.idaho.gov/media/488795-wood_products_guidance_final.pdf.

Right to Appeal Final Certification

The final Section 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 Sean Woodhead at the Twin Falls Regional Office (208-736-2190 or sean.woodhead@deq.idaho.gov).



Sue Switzer
Regional Administrator
Twin Falls Regional Office