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## Central Valley Regional Water Quality Control Board

28 September 2016

Mr. Shawn Ankeny  
Shasta County Public Works  
1855 Placer Street  
Redding, CA 96001

### **AMENDED<sup>1</sup> CLEAN WATER ACT § 401 TECHNICALLY CONDITIONED WATER QUALITY CERTIFICATION FOR DISCHARGE OF DREDGED AND/OR FILL MATERIALS FOR THE CASSEL-FALL RIVER ROAD BRIDGE REPAIR AT PIT RIVER PROJECT (WDID#5A45CR00497), FALL RIVER MILLS, SHASTA COUNTY**

#### **ACTION:**

1.  Order for Standard Certification
2.  Order for Technically-conditioned Certification
3.  Order for Denial of Certification

#### **WATER QUALITY CERTIFICATION STANDARD CONDITIONS:**

1. This Order serves as a Water Quality Certification (Certification) action that is subject to modification or revocation upon administrative or judicial review, including review and amendment pursuant to § 13330 of the California Water Code and § 3867 of the California Code of Regulations (CCR).
2. This certification action is not intended and shall not be construed to apply to any discharge from any activity involving a hydroelectric facility requiring a Federal Energy Regulatory Commission (FERC) license or an amendment to a FERC license unless the pertinent certification application was filed pursuant to 23 CCR § 3855(b) of the California Code of Regulations, and the application specifically identified that a FERC license or amendment to a FERC license for a hydroelectric facility was being sought.

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<sup>1</sup> The Water Quality Certification has been amended to modify the monitoring requirements in order to make the requirements consistent with the monitoring required in the California Department of Fish and Wildlife's 1600 Agreement for the project. The Project Description was also amended to modify details regarding the installation of grout bags. All other conditions of the original Water Quality Certification remain unchanged.

3. The validity of any non-denial certification action shall be conditioned upon total payment of the full fee required under § 3833 of the California Code of Regulations.
4. This Certification is no longer valid if the project (as described) is modified, or coverage under § 404 of the Clean Water Act has expired.

**TECHNICAL CERTIFICATION CONDITIONS:**

In addition to the above standard conditions, the Applicant shall satisfy the following:

1. The Applicant shall notify the Central Valley Regional Water Quality Control Board (Central Valley Water Board) in writing at least **seven (7) days** in advance of the start of any work within waters of the United States. The notification shall include the name of the project and the WDID number, and shall be sent to the Central Valley Water Board Contact indicated in this Certification.
2. Except for activities permitted by the U.S. Army Corps under § 404 of the Clean Water Act, soil, silt, or other organic materials shall not be placed where such materials could pass into surface water or surface water drainage courses.
3. The Applicant shall maintain a copy of this Certification and supporting documentation (Project Information Sheet) at the Project site during construction for review by site personnel and agencies. All personnel (employees, contractors, and subcontractors) performing work on the proposed Project shall be adequately informed and trained regarding the conditions of this Certification.
4. The Applicant shall perform surface water sampling:
  - a) when performing any in-water work;
  - b) in the event that project activities result in any materials reaching surface waters; or
  - c) when any activities result in the creation of a visible plume in surface waters.

The monitoring requirements in Table 1 shall be conducted by taking a sample of the ambient conditions before work begins in the work area and sampling during work in the work area. The sampling frequency may be modified for certain projects with written approval from Central Valley Water Board staff.

**Table 1:**

Parameter	Unit	Type of Sample	Minimum Sampling Frequency	Required Analytical Test Method
Turbidity	NTU	Grab <sup>(1)</sup>	Every 4 hours during in-water work	(2,4)
Settleable Material	mL/L	Grab <sup>(1)</sup>	Every 4 hours during in-water work	(2)

Visible construction related pollutants <sup>(3)</sup>	Observations	Visual Inspections	Continuous throughout the construction period	—
pH <sup>(5)</sup>	Standard Units	Grab <sup>(1)</sup>	Every 4 hours during in-water work	(2,4)

- (1) Grab samples shall be taken at mid-depth and be collected at the same time each day to get a complete representation of variations in the receiving water.
- (2) Pollutants shall be analyzed using the analytical methods described in 40 Code of Federal Regulations Part 136; where no methods are specified for a given pollutant, the method shall be approved by Central Valley Water Board staff.
- (3) Visible construction-related pollutants include oil, grease, foam, fuel, petroleum products, and construction-related, excavated, organic or earthen materials.
- (4) A hand-held field meter may be used, provided that the meter utilizes a USEPA-approved algorithm/method and is calibrated and maintained in accordance with the manufacturer's instructions. A calibration and maintenance log for each meter used for monitoring required by this Certification shall be maintained at the Project site.
- (5) Water samples for pH are to be collected every four hours at mid-depth at three locations evenly spaced across the river, 50 feet downstream of the work area, and at three locations evenly spaced across the river approximately 150 feet upstream of the work area. If the project activity causes pH increases above 8.5 (where background average is below 8.5), or if the downstream average pH is measurably increased above the background (when the background average is above 8.5), corrective actions must be implemented and the Applicant must notify Central Valley Water Board staff immediately. Monitoring for pH is only required during the grout-installation phase of work.

As appropriate, surface water monitoring shall occur at mid-depth. A surface water monitoring report shall be submitted to the Central Valley Water Board Contact indicated in this Certification within two weeks of initiation of sampling and every two weeks thereafter. In reporting the monitoring data, the Applicant shall arrange the data in tabular form so that the sampling locations, date, constituents, and concentrations are readily discernible. The data shall be summarized in such a manner to illustrate clearly whether the Project complies with Certification requirements. The report shall include surface water sampling results, visual observations, and identification of the turbidity increase in the receiving water applicable to the natural turbidity conditions specified in the turbidity criteria below.

If no monitoring is conducted, the Applicant shall submit a written statement to the Central Valley Water Board Contact indicated in the Certification stating, "No monitoring was required," with the Notice of Completion.

5. The Central Valley Water Board adopted a *Water Quality Control Plan for the Sacramento River Basin and the San Joaquin River Basin, Fourth Edition, revised April 2016* or *Water Quality Control Plan for the Tulare Lake Basin, 2nd Edition* (Basin Plan) that designates beneficial uses, establishes water quality objectives, and contains implementation programs and policies to achieve those objectives for all waters addressed through the plan. Turbidity, settleable matter, temperature, pH, and dissolved oxygen limits are based on water quality objectives contained in the Basin Plan and are part of this Certification as follows:
  - a) Activities shall not cause turbidity increases in surface water to exceed:
    - i. where natural turbidity is less than 1 Nephelometric Turbidity Units (NTUs), controllable factors shall not cause downstream turbidity to exceed 2 NTU;

- ii. where natural turbidity is between 1 and 5 NTUs, increases shall not exceed 1 NTU;
- iii. where natural turbidity is between 5 and 50 NTUs, increases shall not exceed 20 percent;
- iv. where natural turbidity is between 50 and 100 NTUs, increases shall not exceed 10 NTUs;
- v. where natural turbidity is greater than 100 NTUs, increases shall not exceed 10 percent.

Except that these limits will be eased during in-water working periods to allow a turbidity increase of 15 NTUs over background turbidity. In determining compliance with the above limits, appropriate averaging periods may be applied provided that beneficial uses will be fully protected. Averaging periods may only be used with prior approval of the Central Valley Water Board staff.

- b) Activities shall not cause settleable matter to exceed 0.1 mL/L in surface waters as measured in surface waters within the work area
  - c) Activities shall not cause pH to be depressed below 6.5 nor raised above 8.5 in surface water.
6. Refueling of equipment within the floodplain or within 300 feet of the waterway is prohibited. If critical equipment must be refueled within 300 feet of the waterway, spill prevention and countermeasures must be implemented to avoid spills. Refueling areas shall be provided with secondary containment including drip pans and/or placement of absorbent material. No hazardous materials, pesticides, fuels, lubricants, oils, hydraulic fluids, or other construction-related potentially hazardous substances should be stored within a floodplain or within 300 feet of a waterway. The Applicant must perform frequent inspections of construction equipment prior to utilizing it near surface waters to ensure leaks from the equipment are not occurring and are not a threat to water quality.
  7. The Applicant shall develop and maintain onsite a project-specific Spill Prevention, Containment and Cleanup Plan outlining the practices to prevent, minimize, and/or clean up potential spills during construction of the Project. The Plan must detail the Project elements, construction equipment types and location, access and staging and construction sequence. The Plan must also address the potential of responding to a spill or prevention of spills occurring within the Project site.
  8. Asphalt, drilling fluids, lubricants, paints, coating material, oil, petroleum products, or any other substances which could be hazardous to fish and wildlife resulting from or disturbed by project-related activities, shall be prevented from contaminating the soil and/or entering surface waters.
  9. Creosote-treated wood products or any other treated wood products that are highly flammable and/or toxic to aquatic life shall not be installed in surface waters. A method of

containment must be used below the bridge(s), boardwalk(s), or temporary crossing(s) to prevent debris from falling into the water body as feasible.

10. This Certification does not allow permanent water diversion of flow from the receiving water. This Certification is invalid if any water is permanently diverted as a part of the Project.

The Applicant shall comply with all California Department of Fish and Wildlife requirements, including but not limited to those requirements described in Lake or Streambed Alteration Agreement No. 1600-2016-0186-R1.

11. In the event of any violation or threatened violation of the conditions of this Order, the violation or threatened violation shall be subject to any remedies, penalties, process or sanctions as provided for under applicable State or federal law. For the purposes of section 401(d) of the Clean Water Act, the applicability of any State law authorizing remedies, penalties, process or sanctions constitutes a limitation necessary to assure compliance with the water quality standards and other pertinent requirements incorporated into this Order.
- a) If Shasta County Public Works or a duly authorized representative of the project fails or refuses to furnish technical or monitoring reports, as required under this Order, or falsifies any information provided in the monitoring reports, the applicant is subject to civil monetary liabilities, for each day of violation, or criminal liability.
  - b) In response to a suspected violation of any condition of this certification, Central Valley Water Board may require the holder of any federal permit or license subject to this certification to furnish, under penalty of perjury, any technical or monitoring reports the Central Valley Water Board deems appropriate, provided that the burden, including costs, of the reports shall bear a reasonable relationship to the need for the reports and the benefits to be obtained from the reports (Water Code, §§ 1051, 13165, 13267 and 13383). In response to any violation of the conditions of this certification, the Central Valley Water Board may add to or modify the conditions of this certification as appropriate to ensure compliance.
  - c) Shasta County Public Works shall allow the staff of the Central Valley Water Board, or an authorized representative(s), upon the presentation of credentials and other documents, as may be required by law, to enter the Project premises for inspection, including taking photographs and securing copies of Project-related records, for the purpose of assuring compliance with this Certification and determining the ecological success of the Project.
12. The Applicant shall provide the Central Valley Water Board Contact indicated in this Certification a Notice of Completion (NOC) no later than 30 days after the Project completion. The NOC shall demonstrate that the project has been carried out in accordance with the project description in the Certification and in any amendments approved. The NOC shall include a map of the project location(s), including final boundaries of any on-site restoration area(s), if appropriate, and representative pre and post construction

photographs. Each photograph shall include a descriptive title, date taken, photographic site, and photographic orientation.

**REGIONAL WATER QUALITY CONTROL BOARD CONTACT PERSON:**

Dannas Berchtold, Engineering Associate, Central Valley Regional Water Quality Control Board, 364 Knollcrest Drive, Suite 205, Redding, California 96002, dberchtold@waterboards.ca.gov, (530) 224-4783

**WATER QUALITY CERTIFICATION:**

I hereby issue an Order certifying that any discharge from Shasta County Public Works, Cassel-Fall River Road Bridge Repair at Pit River Project (WDID# 5A45CR00497) will comply with the applicable provisions of § 301 ("Effluent Limitations"), § 302 ("Water Quality Related Effluent Limitations"), § 303 ("Water Quality Standards and Implementation Plans"), § 306 ("National Standards of Performance"), and § 307 ("Toxic and Pretreatment Effluent Standards") of the Clean Water Act. This discharge is also regulated under State Water Resources Control Board Water Quality Order No. 2003-0017-DWQ "Statewide General Waste Discharge Requirements For Dredged Or Fill Discharges That Have Received State Water Quality Certification (General WDRs)."

Except insofar as may be modified by any preceding conditions, all Certification actions are contingent on (a) the discharge being limited and all proposed mitigation being completed in compliance with conditions of this Certification, the Shasta County Public Works' application package, and the attached Project Information Sheet, and (b) compliance with all applicable requirements of the *Water Quality Control Plan for the Sacramento River Basin and the San Joaquin River Basin, Fourth Edition, revised April 2016* (Basin Plan).

Any person aggrieved by this action may petition the State Water Quality Control Board to review the action in accordance with California Water Code § 13320 and California Code of Regulations, title 23, § 2050 and following. The State Water Quality Control Board must receive the petition by 5:00 p.m., 30 days after the date of this action, except that if the thirtieth day following the date of this action falls on a Saturday, Sunday, or state holiday, the petition must be received by the State Water Quality Control Board by 5:00 p.m. on the next business day. Copies of the law and regulations applicable to filing petitions may be found on the Internet at: [http://www.waterboards.ca.gov/public\\_notices/petitions/water\\_quality](http://www.waterboards.ca.gov/public_notices/petitions/water_quality) or will be provided upon request.



(for) Pamela C. Creedon  
Executive Officer

DJB:reb

Enclosure: Water Quality Order No. 2003-0017-DWQ

cc list on following page

cc w/o

enclosures: Mr. Matt Kelley, U.S. Army Corp of Engineers, Redding  
Ms. Donna Cobb Department of Fish and Wildlife, Region 1, Redding  
U.S. Fish and Wildlife Service, Sacramento  
Mr. Bill Jennings, CALSPA, Stockton  
Mr. Don Burk, ENPLAN, Redding

cc w/o

enclosures

by email: Mr. Bill Orme, SWRCB, Certification Unit, Sacramento  
U.S. EPA, Region 9, San Francisco

## PROJECT INFORMATION

**Application Date:** 15 April 2016

**Application Complete Date:** 11 May 2016

**Applicant:** Mr. Shawn Ankeny  
Shasta County Public Works  
1855 Placer Street  
Redding, CA 96001

**Project Name:** Cassel-Fall River Road Bridge Repair at Pit River Project

**Application Number:** WDID No. 5A45CR00497

**U.S. Army Corps File Number:** SPK-2016-00248

**Type of Project:** Restore structural stability to the foundations of the Cassel-Fall River Road Bridge.

**Project Location:** Section 31, Township 37 North, Range 5 East  
Latitude: 41°00'03" and Longitude: -121°26'10"

**County:** Shasta County

**Receiving Water(s) (hydrologic unit):** Pit River. Pitt River Hydrologic Unit-Big Lake  
Hydrologic Subarea No. 526.41

**Water Body Type:** Streambed

**Designated Beneficial Uses:** The *Water Quality Control Plan for the Sacramento River Basin and the San Joaquin River Basin, Fourth Edition, revised April 2016* (Basin Plan) has designated beneficial uses for surface and ground waters within the region. Beneficial uses that could be impacted by the project include, but are not limited to: Municipal and Domestic Water Supply (MUN); Agricultural Supply (AGR); Industrial Supply (IND); Hydropower Generation (POW); Groundwater Recharge (GWR); Water Contact Recreation (REC-1); Non-Contact Water Recreation (REC-2); Warm Freshwater Habitat (WARM); Cold Freshwater Habitat (COLD); Spawning, Reproduction, and/or Early Development (SPWN); and Wildlife Habitat (WILD). A comprehensive and specific list of the beneficial uses applicable for the project area can be found at [http://www.waterboards.ca.gov/centralvalley/water\\_issues/basin\\_plans/index.shtml](http://www.waterboards.ca.gov/centralvalley/water_issues/basin_plans/index.shtml).

**Project Description (purpose/goal):** The Cassel-Fall River Road Bridge Repair at Pit River Project is located 0.25 miles south of the community of Fall River Mills. The project consists of repairing three piers of the existing bridge (06C0039) over the Pit River on Cassel-Fall River Road. The purpose of the project is to restore structural stability to the foundations at Piers 3, 4, and 5. The project is needed at this time to expedite the replacement of the bridge by making the bridge stable enough to use for constructing a new bridge, and to facilitate the demolition of the existing structure. The repairs also have the potential to re-establish an allowable load rating for the facility.



The scour repairs will consist of two stages of work at Piers 3, 4, and 5, conducted in sequence. Stage 1 will consist of clearing accumulated debris and sediment from under and around the pier column footings. Equipment required for Stage 1 will be a crane to lift the dive barges into the river, and at least two dive barges and one skiff boat for the use of the divers, their equipment, and the support crew.

Stage 2 will consist of installing the grout bags and pumping concrete grout into the bags to fill the voids under the footings. Equipment required for Stage 2 will be a crane, two dive barges, one skiff boat, a concrete boom pump, possibly an intermediate barge-mounted concrete pump due to the length/reach required for Pier 4 in the center of the bridge, and mobile conventional concrete trucks.

Staging areas are anticipated to be entirely within the County's right-of-way, on portions of paved road that are currently closed to the public. To prevent construction personnel from encroaching on private property, visual markers will be used to identify the extent of the County's right-of-way. No vegetation disturbance/removal will occur. Project design features include implementation of standard Best Management Practices for spill prevention, use of turbidity curtains to contain suspended sediments during sediment clearing, the addition of an anti-washout admixture to the grout to minimize leaching into the water column, turbidity and pH monitoring, and ensuring that vessels placed into the Pit River do not harbor invasive mussels. The project will permanently impact 0.1 acre and 160 cubic yards of waters of the United States.

**Preliminary Water Quality Concerns:** Construction activities including soil disturbance, excavation, cutting/filling, and grading activities could result in increased erosion and sedimentation and may impact surface waters with increased turbidity, settleable matter, and pH.

**Proposed Mitigation to Address Concerns:** The Applicant will implement Best Management Practices (BMPs) to control sedimentation and erosion. All temporary affected areas will be restored to pre-construction contours and conditions upon completion of construction activities. The Applicant will conduct turbidity, settleable matter, and pH testing during in-water work, stopping work if Basin Plan criteria are exceeded or are observed.

**Fill/Excavation Area:** Approximately 0.1 acre of sediment will be excavated from 0.55 acres of waters of the United States. Approximately 160 cubic yards of concrete will be placed into 0.55 acres of waters of the United States.

**Dredge Volume:** Not Applicable

**California Integrated Water Quality System Impact Data:** The Project will permanently impact 0.1 acre and 160 cubic yards of stream bed from fill and excavation activities.

**Table 1: Impacts from Fill and/or Excavation Activities**

Fill Type	Permanent			Temporary		
	Acres	Linear Feet	Cubic Yards	Acres	Linear Feet	Cubic Yards
Stream Channel						
Pit River	0.1	--	160		--	
Stream Total	<b>0.1</b>	--	<b>160</b>		--	
<b>Total Impacts</b>	<b>0.1</b>	--	<b>160</b>		--	

**U.S. Army Corps of Engineers Permit Number:** SPK 2016-00248

**United States Army Corps of Engineers Permit Type:** Nationwide Permit 3 (Maintenance)

**Department of Fish and Wildlife Lake or Streambed Alteration Agreement:** The Applicant applied for a Lake or Streambed Alteration Agreement in April 2016. Lake or Streambed Alteration Agreement number 1600-2016-0186-R1.

**Possible Listed Species:** Not Applicable

**Status of CEQA Compliance:** The County of Shasta has determined that this project meets the Categorical Exemption, under § 15301 of the CEQA Guidelines, which exempts Class 1, Existing Facilities. Class 1 consists of the operation, repair, maintenance, permitting, leasing, licensing, or minor alteration of existing public or private structures, facilities, mechanical equipment, or topographical features, involving negligible or no expansion of use beyond that existing at the time of the lead agency's determination.

The County of Shasta filed a Notice of Exemption/Determination with the State Clearinghouse on 22 April 2016.

**Compensatory Mitigation:** The Central Valley Water Board is not requesting compensatory mitigation for the project.

**Application Fee Provided:** An application fee of \$1,097 was submitted on 15 April 2016. A total fee of \$1,097 has been submitted to the Central Valley Water Board as required by § 3833(b)(3)(A) and § 2200(a)(3) of the California Code of Regulations.