

## Central Valley Regional Water Quality Control Board

12 March 2019

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Central Federal Lands Highway Division  
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***CLEAN WATER ACT SECTION 401 TECHNICALLY CONDITIONED WATER QUALITY CERTIFICATION; FEDERAL HIGHWAY ADMINISTRATION-CENTRAL FEDERAL LANDS HIGHWAY DIVISION, BOWMAN LAKE ROAD (FHWA PROJECT NO. CA ERFO TAHOE 18(1) PROJECT (WDID#5A29CR00117), NEVADA COUNTY***

This Order responds to the 4 June 2018 application submitted by the Federal highway Administration-Central Federal Lands Highway Division (Applicant) for the Water Quality Certification of the Bowman Lake Road (FHWA Project No. CA ERFO Tahoe 18(1) Project (Project), permanently impacting 0.08 acre and temporarily impacting 1.3 acre of waters of the United States.

This Order serves as certification of the United States Army Corps of Engineers' Nationwide Permit #23 (SPK-2018-0045) under Section 401 of the Clean Water Act, and a Waste Discharge Requirement under the Porter-Cologne Water Quality Control Act and State Water Board Order 2003-0017-DWQ.

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

- 1. This Water Quality Certification (Certification) is not valid until coverage under Section 404 of the Clean Water Act is obtained. If the Project, including the area of impact (as described) is modified through this process, this Certification will not be valid until amended by the Central Valley Regional Water Quality Control Board (Central Valley Water Board).**
2. 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 Section 13330 of the California Water Code and Section 3867 of the California Code of Regulations.
3. 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 Section 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.

4. The validity of any non-denial Certification action shall be conditioned upon total payment of the full fee required under Section 3860(c) of the California Code of Regulations.
5. This Certification is no longer valid if the Project (as described) is modified, or coverage under Section 404 of the Clean Water Act has expired.
6. All reports, notices, or other documents required by this Certification or requested by the Central Valley Water Board shall be signed by a person described below or by a duly authorized representative of that person.
  - (a) For a corporation: by a responsible corporate officer such as: 1) a president, secretary, treasurer, or vice president of the corporation in charge of a principal business function; 2) any other person who performs similar policy or decision-making functions for the corporation; or 3) the manager of one or more manufacturing, production, or operating facilities if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.
  - (b) For a partnership or sole proprietorship: by a general partner or the proprietor.
  - (c) For a municipality, state, federal, or other public agency: by either a principal executive officer or ranking elected official.

7. Any person signing a document under Standard Condition number 6 shall make the following certification:

“I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.”

**TECHNICAL CERTIFICATION CONDITIONS:**

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

1. The Applicant shall notify the Central Valley Water Board in writing seven (7) days in advance of the start of any work within waters of the United States.

2. Except for activities permitted by the United States Army Corps of Engineers under Section 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 sampling requirements in Table 1 shall be conducted upstream out of the influence of the Project, and 300 feet downstream of 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)                          |
| Visible construction related pollutants <sup>(3)</sup> | Observations | Visual Inspections  | Continuous throughout the construction period | —                               |

<sup>(1)</sup> Grab samples shall not be collected at the same time each day to get a complete representation of variations in the receiving water.

<sup>(2)</sup> 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.

<sup>(3)</sup> Visible construction-related pollutants include oil, grease, foam, fuel, petroleum products, and construction-related, excavated, organic or earthen materials.

<sup>(4)</sup> A hand-held field meter may be used, provided 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 shall be maintained onsite.

Surface water sampling shall occur at mid-depth. A surface water monitoring report shall be submitted within two weeks of initiation of in-water construction, and every two weeks thereafter. In reporting the sampling 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 sampling is required, the Applicant shall submit a written statement stating, "No sampling was required" within two weeks of initiation of in-water construction, and every two weeks thereafter.

5. The Central Valley Water Board adopted a *Water Quality Control Plan for the Sacramento River and San Joaquin River Basins*, Fifth Edition, revised May 2018 (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 limits are based on water quality objectives contained in the Basin Plan and are part of this Certification as follows:
  - a) Waters shall not contain oils, greases, waxes, or other materials in concentrations that cause nuisance, result in a visible film or coating on the surface of the water or on objects in the water, or otherwise adversely affect beneficial uses.
  - b) 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 NTUs;
    - 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; and
    - v. where natural turbidity is greater than 100 NTUs, increases shall not exceed 10 percent.

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 permission of the Central Valley Water Board Executive Officer.
6. The Applicant shall notify the Central Valley Water Board immediately if the above criteria for turbidity or other water quality objectives are exceeded.
7. In-water work shall occur during periods of low flow (i.e., water level is below the construction area) and no precipitation.
8. Activities shall not cause visible oil, grease, or foam in the receiving water.
9. 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.

10. 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.
11. The discharge of petroleum products, any construction materials, hazardous materials, pesticides, fuels, lubricants, oils, hydraulic fluids, raw cement, concrete, asphalt, paint, coating material, drilling fluids, or other construction-related potentially hazardous substances to surface water and/or soil is prohibited. In the event of a prohibited discharge, the Applicant shall notify the Central Valley Water Board Contact within 24-hours of the discharge.
12. Silt fencing, straw wattles, or other effective management practices must be used along the construction zone to minimize soil or sediment along the embankments from migrating into the waters of the United States through the entire duration of the Project.
13. The use of netting material (e.g., monofilament-based erosion blankets) that could trap aquatic dependent wildlife is prohibited within the Project area.
14. All areas disturbed by Project activities shall be protected from washout and erosion.
15. All temporarily affected areas shall be restored to pre-construction contours and conditions upon completion of construction activities.
16. Hydroseeding shall be performed with California native seed mix.
17. All materials resulting from the Project shall be removed from the site and disposed of properly.
18. 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.
19. If water is present, the area must be dewatered prior to the start of work.
20. When work in a flowing stream is unavoidable and any temporary dam or other artificial obstruction is being constructed, maintained, or placed in operation, sufficient water shall at all times be allowed to pass downstream, to maintain beneficial uses of waters of the state below the dam. Construction, dewatering, and removal of temporary cofferdams shall not violate Technical Certification Condition 5 of this Certification.
21. If any temporary dam or other artificial obstruction is constructed, the temporary dam or other artificial obstruction shall only be built from clean materials such as sandbags, gravel

bags, water dams, or clean/washed gravel which will cause little or no siltation. Stream flow shall be temporarily diverted using gravity flow through temporary culverts/pipes or pumped around the work site with the use of hoses.

22. The Applicant shall apply for a name change or amendment to this Certification should any of the following occur: a) a change in the ownership of all or any portion of the Project; b) any change in the Project description; c) any change involving discharge amounts, temporary impacts, or permanent impacts; or d) amendments, modifications, revisions, extensions, or changes to the United States Army Corps of Engineers' Nationwide Permit #23, the United States Fish and Wildlife Service decision document(s), or the California Department of Fish and Wildlife Streambed Alteration Agreement.
23. If the Project will involve land disturbance activities of one or more acres, or where the Project disturbs less than one acre but is part of a larger common plan of development that in total disturbs one or more acres, the Applicant shall obtain coverage under the National Pollutant Discharge Elimination System (NPDES) General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities Order No. 2009-0009-DWQ for discharges to surface waters comprised of storm water associated with construction activity.
24. The Conditions in this Certification are based on the information in the attached "Project Information Sheet" and the application package. If the actual project, as described in the attached Project Information Sheet and application package, is modified or changed, this Certification is no longer valid until amended by the Central Valley Water Board.
25. In the event of any violation or threatened violation of the conditions of this Certification, the violation or threatened violation shall be subject to any remedies, penalties, process, or sanctions as provided for under state and federal law. The applicability of any state law authorizing remedies, penalties, process, or sanctions for the violation or threatened violation constitutes a limitation necessary to ensure compliance with this Certification.
  - (a) If the Applicant or a duly authorized representative of the Project fails or refuses to furnish technical or monitoring reports, as required under this Certification, or falsifies any information provided in the monitoring reports, the applicant is subject to civil liability, for each day of violation, and/or criminal liability.
  - (b) In response to a suspected violation of any condition of this Certification, the Central Valley Water Board may require the Applicant to furnish, under penalty of perjury, any technical or monitoring reports the Central Valley Water Board deems appropriate, provided that the burden, including cost of the reports, shall be in reasonable relationship to the need for the reports and the benefits to be obtained from the reports.
  - (c) The Applicant 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.

**NOTIFICATIONS AND REPORTS:**

26. The Applicant shall provide 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 approved amendments. 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.
27. The Applicant shall submit all notifications, submissions, materials, data, correspondence, and reports in a searchable Portable Document Format (PDF). Documents less than 50 MB must be emailed to: [centralvalleysacramento@waterboards.ca.gov](mailto:centralvalleysacramento@waterboards.ca.gov). In the subject line of the email, include the Central Valley Water Board Contact, Project name, and WDID number as shown in the subject line above. Documents that are 50 MB or larger must be transferred to a disk and mailed to the Central Valley Water Board Contact.

**CENTRAL VALLEY WATER BOARD CONTACT:**

Peter Minkel  
Central Valley Regional Water Quality Control Board  
11020 Sun Center Drive, Suite 200  
Rancho Cordova, CA 95670-8114  
[PeterG.Minkel@waterboards.ca.gov](mailto:PeterG.Minkel@waterboards.ca.gov)  
(916) 464-4684

**CALIFORNIA ENVIRONMENTAL QUALITY ACT:**

The Central Valley Water Board has determined that this project meets the Categorical Exemption, under Section 15302 of the California Code of Regulations, which exempts the replacement or reconstruction of an existing structure where the new structure will be located on the same site as the structure replaced and will have the same capacity and purpose as the structure replaced.

**WATER QUALITY CERTIFICATION:**

I hereby issue an Order certifying that any discharge from the Federal Highway Administration, Bowman Lake Road (FHWA Project No. CA ERFO TAHOE 18(1)) Project (WDID#5A29CR00117) will comply with the applicable provisions of Section 301 ("Effluent Limitations"), Section 302 ("Water Quality Related Effluent Limitations"), Section 303 ("Water Quality Standards and Implementation Plans"), Section 306 ("National Standards of Performance"), and Section 307 ("Toxic and Pretreatment Effluent Standards") of the Clean Water Act. Through this Order, 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 the conditions of this Certification, the Federal Highway Administration's 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 and San Joaquin River Basins*, Fifth Edition, revised May 2018.

Any person aggrieved by this action may petition the State Water Resources Control Board to review the action in accordance with California Water Code Section 13320 and California Code of Regulations, Title 23, Section 2050 and following. The State Water Resources 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 Resources 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.

*Original Signed By Adam Laputz for:*

Patrick Pulupa  
Executive Officer

Enclosure: Project Information Sheet

Attachments: Figure 1 – Project Location Map  
Figure 2 – Site Map

cc: Distribution List, page 12

## PROJECT INFORMATION SHEET

**Application Date:** 4 June 2018

**Applicant:** Justin Henwood  
12300 W. Dakota Ave, Suite 380  
Lakewood, CO 80228

**Applicant Representative:** Leslie Perry  
FHWA-AFLHD  
12300 W. Dakota Ave, Suite 380  
Lakewood, CO 80228

**Project Name:** Bowman Lake Road (FHWA Project No. CA ERFO TAHOE 18(1)) Project

**Application Number:** WDID#5A29CR00117

**Date on Public Notice:** 8 June 2018

**Date Application Deemed Complete:** 30 August 2018

**Date All Information Received:** 16 October 2018

**Type of Project:** Bank and Channel Modification – Restoration Bank Stabilization and/or  
Adjacent Upland Area

**Approved Months of Project Implementation:** 1 January through 31 December

**Project Location:** Section 8, Township 18 North, Range 12 East, MDB&M.  
Latitude: 39°26'36.13"N and Longitude: 120°39'25.81" W

**County:** Nevada County

**Receiving Water(s) (hydrologic unit):** Unnamed tributary of the Upper South Yuba River,  
Sacramento Hydrologic Basin, Yuba River Hydrologic Unit #517.33, Canyon Creek HSA

**Water Body Type:** Streambed

**Designated Beneficial Uses:** The *Water Quality Control Plan for the Sacramento River and San Joaquin River Basins*, Fifth Edition, revised May 2018 (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);

Preservation of Biological Habitats of Special Significance (BIOL); Rare, Threatened, or Endangered Species (RARE); Migration of Aquatic Organisms (MIGR); 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).

**303(d) List of Water Quality Limited Segments:** The unnamed tributary of the Upper South Yuba River the receiving water for the Bowman Lake Road (FWHA Project No. CA ERFO TAHOE 18(1)). The unnamed tributary of the Upper South Yuba River not listed on the 303(d) list. The most recent list of approved water quality limited segments is found at: [http://www.waterboards.ca.gov/water\\_issues/programs/tmdl/integrated2012.shtml](http://www.waterboards.ca.gov/water_issues/programs/tmdl/integrated2012.shtml)

**Project Description:** The Bowman Lake Road (FWHA Project No. CA ERFO TAHOE 18(1)) Project (Project) is located southeast of the Meadow Lake Road-Bowman Lake Road intersection on the western side of Bowman Lake in the Tahoe National Forest. The 3-acre Project consists of repairing a flood-damaged section of a tributary to Canyon Creek, downstream of the spillway dam on Bowman Lake. Prior erosion of the north bank redirected flow into a side channel, which crosses Bowman Lake Road at a low-water crossing. The Project will fill in two openings along the north bank of the main channel to keep flow in the main channel, grade the streambed of the main channel to improve flow under a bridge, replace the low-water crossing with a new culvert, apply rip rap, and road fill, and grade the streambed of the side channel at the culvert outlet to improve flow. The flow in the spillway tributary is heavily regulated by the Nevada Irrigation operations at Bowman Lake and the stream only conveys flow when water is released at the spillway dam to reduce lake levels and during storm events.

Alluvial material and rocks from the floodplain of the spillway tributary, primarily from the grading activity, will be used for fill along the bank to avoid the need for haul trucks and importing fill materials. A low water crossing will be replaced with one 48-inch diameter by 50-foot long metal culvert and backfilled with road fill to raise the elevation of the road at the crossing by several feet. A rip rap apron, approximately 16-feet wide by 24-feet long, will be installed at the outlet of the culvert using local rocks and materials. In addition, approximately 130 feet of the channel downstream of the culvert outlet will be graded to improve flow.

No dewatering will occur within the Project area. No wet concrete will be placed into the stream bed. The Project will permanently impact 0.08 acre and temporarily impact 1.3 acre of waters of the United States.

**Preliminary Water Quality Concerns:** Construction activities may impact surface waters with increased turbidity.

**Proposed Mitigation to Address Concerns:** The Applicant will implement Best Management Practices to control sedimentation and erosion. This Certification requires all work to be conducted during periods of no flow. In the event that project activities result in any materials reaching surface waters or unanticipated in-water work occurs, the Applicant will conduct

turbidity testing. During this testing, the Applicant will stop work if Basin Plan criteria are exceeded or observations indicate an exceedance of a water quality objective. All temporary affected areas will be restored to pre-construction contours and conditions upon completion of construction activities to provide 1:1 mitigation for temporary impacts.

**Excavation/Fill Area:** Approximately 1,550 cubic yards of native soil and rock will be excavated from 0.08 acre of stream bed (waters of the United States).

Approximately 496 cubic yards of clean soil and rock will be placed into 0.08 acre of waters of the United States.

**Dredge Volume:** None

**California Integrated Water Quality System Impact Data:** The Project will permanently impact 0.08 acre of stream bed habitat and temporarily impact 1.3 acre of stream bed habitat from fill/excavation activities.

**Table 2: Impacts from Fill and Excavation Activities**

| Aquatic Resource Type | Temporary |             |             | Permanent             |             |             |  |             |             |
|-----------------------|-----------|-------------|-------------|-----------------------|-------------|-------------|--|-------------|-------------|
|                       |           |             |             | Physical Loss of Area |             |             | Degradation of Ecological Condition Only |             |             |
|                       | Acres     | Cubic-yards | Linear-feet | Acres                 | Cubic-yards | Linear-feet | Acres                                    | Cubic-yards | Linear-feet |
| Stream Channel        | 1.3       | -           | -           | 0.08                  | -           | -           | -  | -           | -           |

**United States Army Corps of Engineers File Number:** SPK-2018-00445

**United States Army Corps of Engineers Permit Type:** Nationwide Permit #23

**Possible Listed Species:** Bald eagle, California red-legged frog, California spotted Owl, Delta smelt, Great gray owl, Lahontan cutthroat trout, Northern goshawk, Pacific marten, Sierra Nevada yellow-legged frog

**Status of CEQA Compliance:** The Central Valley Water Board has determined that this project meets the Categorical Exemption, under Section 15302 of the California Code of Regulations, which exempts the replacement or reconstruction of an existing structure where the new structure will be located on the same site as the structure replaced and will have the same capacity and purpose as the structure replaced.

**Compensatory Mitigation:** The Central Valley Water Board is not requiring mitigation for this project since the project is considered self-mitigating.

**Application Fee Provided:** Federal dischargers involved in Dredge and Fill Operations only are not subject to permit fees as required by Section 3833(b)(3)(A) and Section 2200(a)(3) of the California Code of Regulations.

### **DISTRIBUTION LIST**

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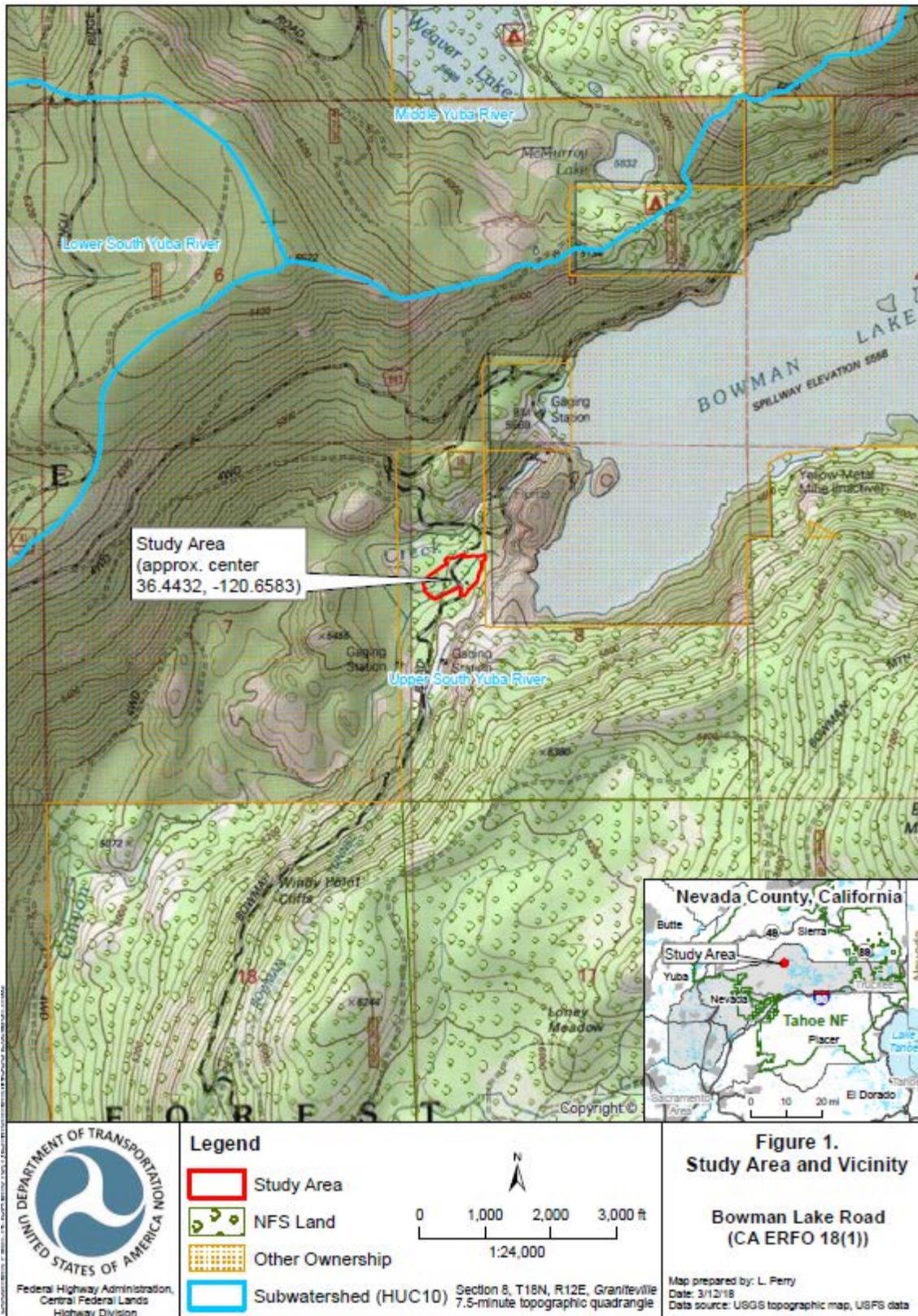


Figure 1 – Project Location Map

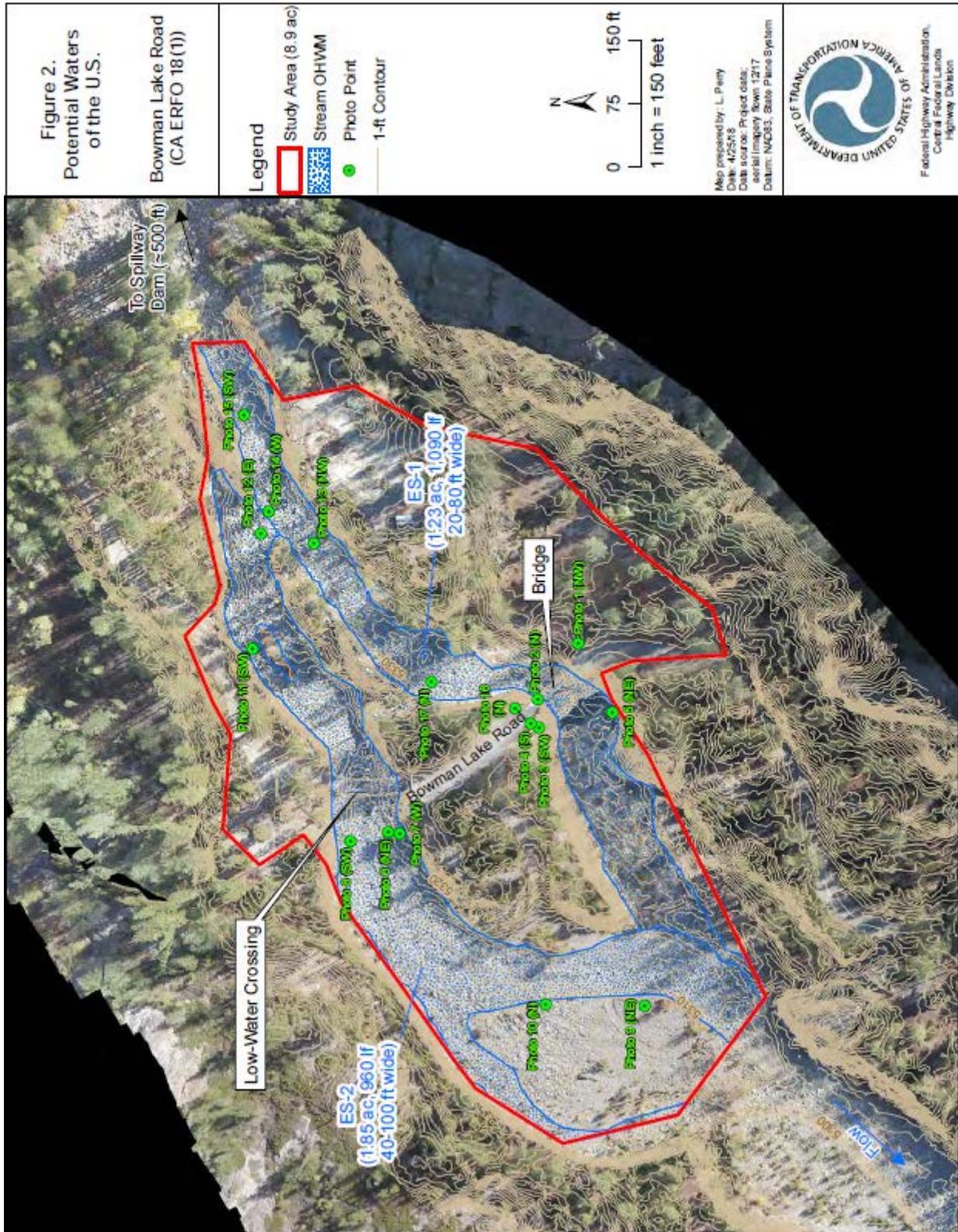


Figure 2 – Site Map