25 August 2020

Dena Gonzalez
California Department of Transportation
855 M Street, Suite 200
Fresno, CA 93721

CLEAN WATER ACT SECTION 401 TECHNICALLY CONDITIONED WATER QUALITY CERTIFICATION; CALIFORNIA DEPARTMENT OF TRANSPORTATION; SUGAR PINE CULVERT REPLACEMENT PROJECT; (WDID#5B20CR00114); MADERA COUNTY

This Order responds to the 17 June 2020 application submitted by California Department of Transportation (Applicant) for the Water Quality Certification of the Sugar Pine Culvert Replacement (Project), permanently impacting 0.0018 acre of waters of the United States.

This Order serves as certification of the Project permitted by the United States Army Corps of Engineers' Nationwide Permit #14 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 an 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 This Certification is no longer valid if the Project (as described) is modified, or coverage under Section 404 of the Clean Water Act has expired.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 and/or waters of the state.

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 or diversion;

   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 approximately 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. Sampling is not required in wetlands, where the entire wetland is being permanently filled; provided there is no outflow connecting the wetland to surface waters.

Table 1: Sample Type and Frequency Requirements

Parameter	Unit	Type of Sample	Minimum Sampling Frequency	Required Analytical Test Method
Turbidity	NTU	Grab (see 1 below)	Every 4 hours during in-water work	(see 2, 3 below)
Visible construction related pollutants (see 4 below)	Observations	Visual Inspections	Continuous throughout the construction period	NA
pH (see 5 below)	Standard Units	Grab (see 1 below)	Every 4 hours during in-water work	(see 2, 3 below)

1. Grab samples shall not 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. 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.
4. Visible construction-related pollutants include oil, grease, foam, fuel, petroleum products, and construction-related, excavated, organic or earthen materials.
5. Sampling to be conducted if wet concrete comes into contact with surface water.

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 and pH 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.

   c) Activities shall not cause pH to be depressed below 6.5 nor raised above 8.5 in surface water.

6. The Applicant shall notify the Central Valley Water Board immediately if the above criteria for turbidity, pH, or other water quality objectives are exceeded.

7. In-water work shall occur during periods of no precipitation after the work area has been completely dewatered.

8. The Applicant shall perform surface water sampling in accordance with Technical Certification Condition No. 4, if any of the following conditions occur: 1) in-water work or diversion is conducted; 2) Project activities result in any materials reaching surface waters; or 3) Project activities result in the creation of a visible plume in surface waters.

9. Activities shall not cause visible oil, grease, or foam in the receiving water.

10. 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.

11. 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.

12. Raw cement, concrete (or washing thereof), 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 waters of the United States and/or waters of the state.

13. 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.

14. Concrete must be completely cured before coming into contact with waters of the United States and/or waters of the state. Surface water that contacts wet concrete must be pumped out and disposed of at an appropriate off-site commercial facility, which is authorized to accept concrete wastes.

15. 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 and/or waters of the state through the entire duration of the Project.

16. The use of netting material (e.g., monofilament-based erosion blankets, plastic-net wrapped straw wattles) that could trap aquatic dependent wildlife is prohibited within the Project area.

17. All areas disturbed by Project activities shall be protected from washout and erosion.

18. All temporarily affected areas shall be restored to pre-construction contours and conditions upon completion of construction activities. The Applicant shall submit to the Central Valley Water Board a report that describes the restoration activities and includes photographs of the restored areas within 90 days following completion of restoration activities. The camera position and view angles of post-construction photographs shall be identical to pre-construction photographs.

19. Hydroseeding shall be performed with California native seed mix.

20. All waste materials resulting from the Project shall be removed from the site and disposed of properly.

21. 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.

22. 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.

23. 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 #14.

24. The Applicant shall comply with all California Department of Fish and Wildlife requirements.

25. The Applicant shall comply with all United States Fish and Wildlife Service National Marine Fisheries requirements.

26. 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.

27. The Applicant shall work with the Central Valley Water Board to obtain coverage under an NPDES permit for dewatering activities that result in discharges into surface water.

28. The Applicant shall work with the Central Valley Water to obtain coverage under Waste Discharge Requirements (WDRs), or waiver thereof, for dewatering activities that result in discharges to land.

29. 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.

30. 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:

31. 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.

32. 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: centralvalleyfresno@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:

Debra Mahnke
Central Valley Regional Water Quality Control Board
1685 E Street
Fresno, CA 93706
debra.mahnke@waterboards.ca.gov
559-445-6281

CALIFORNIA ENVIRONMENTAL QUALITY ACT:

The Central Valley Water Board has determined that the Project is exempt from review under CEQA pursuant to California Code of Regulations, Title 14, section 15061. Specifically, the issuance of this Order and the activities described herein meet the exemption criteria under California Code of Regulations, Title 14, section(s) 15302, replacement or reconstruction of existing structures and facilities.

WATER QUALITY CERTIFICATION:

I hereby issue an Order certifying that any discharge from the California Department of Transportation, Sugar Pine Culvert Replacement Project (WDID#5B20CR00114) 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, California Department of Transportation'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 State Water Resources Control Board's Water Quality Petitions webpage (http://www.waterboards.ca.gov/public_notices/petitions/water_quality) or will be provided upon request.

Original Signed by Clay L. Rodgers for:
Patrick Pulupa
Executive Officer

Attachments: Project Information Sheet
Figure 1 – Project Location Map

cc: Distribution List, page 11

DISTRIBUTION LIST

United States Army Corps of Engineers (Electronic Copy Only)
Sacramento District Headquarters
Regulatory Division
SPKRegulatoryMailbox@usace.army.mil

Sam Ziegler (Electronic Copy Only)
United States Environmental Protection Agency
Ziegler.Sam@epa.gov

Department of Fish and Wildlife, Region 4 (Electronic Copy Only)
R4LSA@wildlife.ca.gov

CWA Section 401 WQC Program (Electronic Copy Only)
Division of Water Quality
State Water Resources Control Board
Stateboard401@waterboards.ca.gov

Theresa Tillson (Electronic Copy Only)
California Department of Transportation
theresa.tillson@dot.ca.gov

PROJECT INFORMATION SHEET

Application Date: 17 June 2020

Applicant: Dena Gonzalez
California Department of Transportation
855 M Street, Suite 200
Fresno, CA 93721
dena.gonzalez@dot.ca.gov

Project Name: Sugar Pine Culvert Replacement Project

Application Number: WDID#5B20CR00114

Date on Public Notice: 17 July 2020

Date Application Deemed Complete: 30 July 2020

Date All Information Received: 30 July 2020

Type of Project: Transportation

Project Location: State Route 41 at Milepost 1.45 near the Narrow Gauge Inn, Latitude: 37.455259° and Longitude: -119.64475°
Section 35, Township 5S, Range 21E, MDB&M

County: Madera

Receiving Water: Unnamed tributary to the Lewis Fork River in the San Joaquin River Hydrologic Basin, Ahwahnee Hydrologic Unit #539.31, Fresno River HA, Coarse Gold Creek HSA

Water Body Type: Stream channels

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 on the Central Valley Water Board's Basin Planning webpage (http://www.waterboards.ca.gov/centralvalley/water_issues/basin_plans/index.shtml).

303(d) List of Water Quality Limited Segments: Not applicable

Project Description: A new reinforced 36-inch concrete pipe culvert, approximately 64 feet in length, will be installed approximately 2 feet from the existing 18-inch culvert. A 5.5 foot by 4.75 foot headwall will be installed and approximately 140 cubic yards of fill will be used to regrade the shoulders and reconfigure the slope down to the headwall. Approximately 4 cubic yards of rock slope protection will be placed at the outlet of the new culvert. The existing culvert will be backfilled with a concrete slurry mix.

During construction, a cofferdam will be installed approximately 20 feet from the inlet of the existing culvert. The cofferdam is anticipated to be constructed out of sandbags and plastic liner to keep the water from getting into the work area. The water will then be diverted into the existing culvert using hoses and a water pump that will be placed away from the stream.

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

Proposed Mitigation to Address Concerns: Potential impacts to water quality from construction activity could increase sediment loads causing increased turbidity. Water levels will be temporarily disturbed when a coffer dam water diversion is installed. After the installation of the new culvert, it is anticipated that water velocity at the site will decrease due to the larger culvert. Pollution could occur from construction equipment, but that is not anticipated to occur with best management practices including a water pollution control program, job site management, additional water pollution control, and a temporary concrete washout.

Excavation/Fill Area: Approximately 4 cubic yards of clean rock rip rap and 64 cubic yards of concrete will be placed into 0.0035 acre of waters of the United States.

Dredge Volume: None

California Integrated Water Quality System Impact Data:

Table 1: Total Project Fill/Excavation Temporary Physical Loss of Area Impact Quantity

Aquatic Resource Type	Acres	Linear Feet
Stream Channel	0.0017	80

Table 2: Total Project Fill/Excavation Permanent Physical Loss of Area Impact Quantity

Aquatic Resource Type	Acres	Linear Feet
Stream Channel	0.0018	80

United States Army Corps of Engineers Permit Type: Nationwide Permit #14, non-notifying.

California Department of Fish and Wildlife Lake or Streambed Alteration Agreement: Applicant applied for a Streambed Alteration Agreement on 15 June 2020.

Possible Listed Species: None

Compensatory Mitigation: Mitigation is not required as the impacts to waters will not impact beneficial use of aquatic resources. In addition, increasing culvert capacity will improve stream condition.

Application Fee Provided: $1,949 was received on 30 July 2020. The fee amount was determined as required by California Code of Regulations, title 23, sections 3833(b)(3) and 2200(a)(3), and was calculated as category E - Low Impact Discharges (fee code 87) .

Figure 1-Project Location

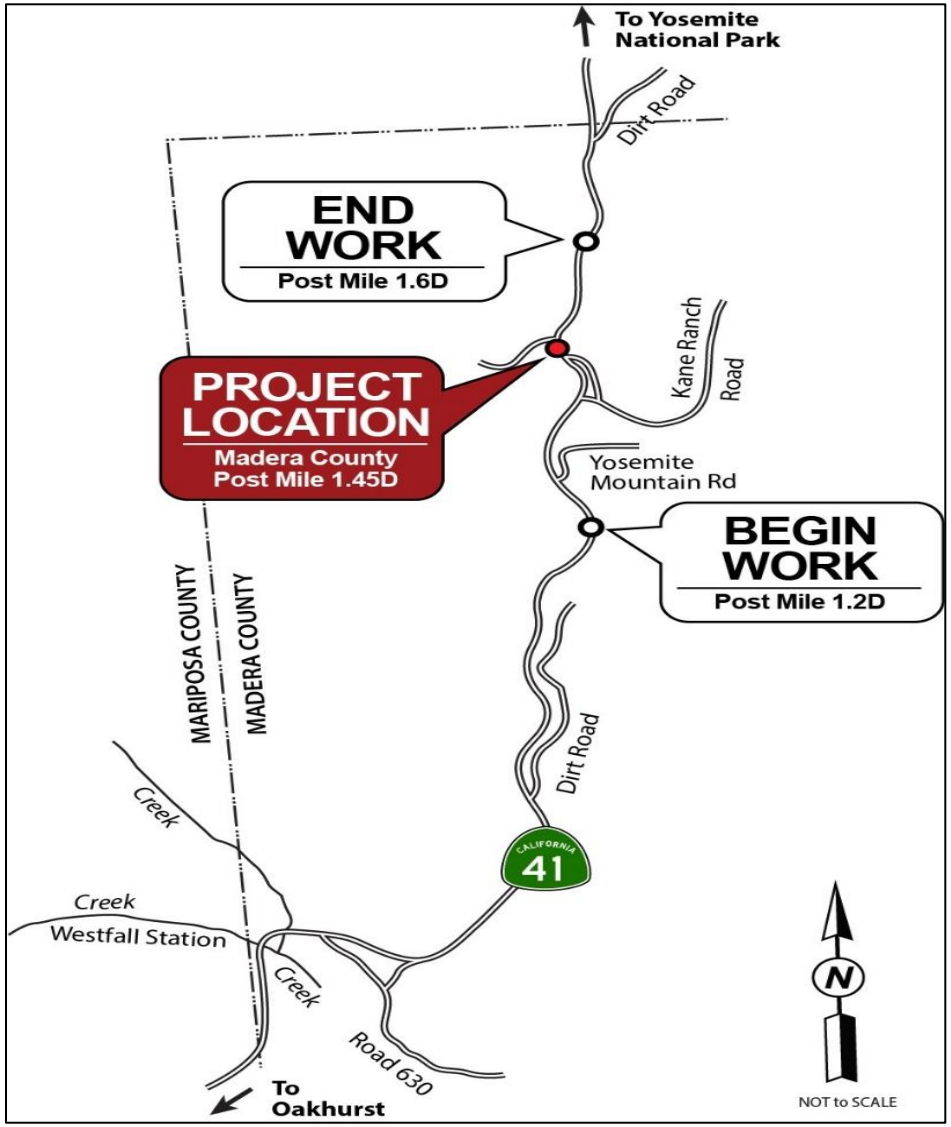

Figure 2- Impact Area