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## Central Valley Regional Water Quality Control Board

13 June 2016

Lewis Bair  
Reclamation District 108  
975 Wilson Bend Road  
Grimes, CA 95950

CERTIFIED MAIL  
91 7199 9991 7035 8363 6726

***CLEAN WATER ACT §401 TECHNICALLY CONDITIONED WATER QUALITY  
CERTIFICATION; RECLAMATION DISTRICT 108, WALLACE WEIR FISH RESCUE  
FACILITY PROJECT (WDID#5A57CR00145), YOLO COUNTY***

This Order responds to the 20 April 2016 application submitted by Reclamation District 108 (Applicant) for the Water Quality Certification of the Wallace Weir Fish Rescue Facility Project (Project), permanently impacting 1.779 acre/2,642 linear feet and temporarily impacting 6.870 acres/1,048 linear feet of waters of the United States.

This Order serves as certification of the United States Army Corps of Engineers' Individual Permit (SPK-2013-00229) under § 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 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.
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 § 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.
3. The validity of any non-denial Certification action shall be conditioned upon total payment of the full fee required under § 3860(c) 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 This Certification is no longer valid if the Project (as described) is modified, or coverage under § 404 of the Clean Water Act has expired.
5. All reports, notices, or other documents required by this Certification or requested by the Central Valley Regional Water Quality Control Board (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.
6. Any person signing a document under Standard Condition number 5 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 § 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)
Settleable Material	mL/L	Grab <sup>(1)</sup>	Every 4 hours during in-water work	(2)
Visible construction related pollutants (3)	Observations	Visual Inspections	Continuous throughout the construction period	—
pH	Standard Units	Grab(1)	Every 4 hours during in-water work	(2, 4)

- <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*, Fourth Edition, revised April 2016 (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 settleable matter 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 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.

Appropriate averaging periods may be applied, provided that beneficial uses will be fully protected.

- b) Activities shall not cause settleable matter to exceed 0.1 mL/L in surface waters as measured in surface waters within 300 feet downstream of the Project.
6. The Applicant shall notify the Central Valley Water Board immediately if the above criteria for turbidity, settleable matter, pH, or other water quality objectives are exceeded.
  7. In-water work shall occur during periods of no flow and no precipitation. 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 is conducted during an unanticipated flow event; 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.
  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. Concrete must be completely cured before coming into contact with waters of the United States. 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. 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.
12. The use of netting material (e.g., monofilament-based erosion blankets) that could trap aquatic dependent wildlife is prohibited within the Project area.
13. All areas disturbed by Project activities shall be protected from washout and erosion.
14. All temporarily affected areas shall be restored to pre-construction contours and conditions upon completion of construction activities.
15. All materials resulting from the Project shall be removed from the site and disposed of properly.
16. 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.
17. If temporary surface water diversions and/or dewatering are anticipated, the Applicant shall develop and maintain on-site a Surface Water Diversion and/or Dewatering Plan(s). The Plan(s) must be developed prior to initiation of any water diversions. The Plan(s) shall include the proposed method and duration of diversion activities. The Plan(s) must be consistent with this Certification and must be made available to the Central Valley Water Board staff upon request.
18. When work in a flowing stream is unavoidable and any 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.
19. Any temporary dam or other artificial obstruction constructed 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.
20. 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.

21. 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' Individual Permit, United States Fish and Wildlife Service decision documents, National Marine Fisheries Service decision documents, or the California Department of Fish and Wildlife Streambed Alteration Agreement.
22. The Applicant shall submit a copy of the final, signed and dated Lake or Streambed Alteration Agreement to the Central Valley Water Board Contact within 14 days of issuance by the California Department of Fish and Wildlife.
23. The Applicant shall comply with all California Department of Fish and Wildlife requirements, including those requirements described in the Lake or Streambed Alteration Agreement.
24. The Applicant shall submit a copy of the Biological Opinion to the Central Valley Water Board Contact within 14 days of issuance by the United States Fish and Wildlife Service.
25. The Applicant shall comply with all United States Fish and Wildlife Service requirements, including those requirements described in the Biological Opinion.
26. The Applicant shall submit a copy of the Biological Opinion to the Central Valley Water Board Contact within 14 days of issuance by the National Marine Fisheries Service.
27. The Applicant shall comply with all National Marine Fisheries Service requirements, including, but not limited to those requirements described in the Biological Opinion.
28. 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.
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. The Applicant shall implement each of the mitigation measures specified in the approved Mitigated Negative Declaration for the Project, as they pertain to biology, hydrology and water quality impacts as required by § 21081.6 of the Public Resource Code and § 15097 of the California Code of Regulations.
31. 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.
32. Prior to commencing construction, the Applicant shall provide evidence of all off-site compensatory mitigation to the Central Valley Water Board. Evidence of on-site compensatory mitigation shall be provided with the Notice of Completion. At a minimum, compensatory mitigation must achieve a ratio of 1:1 for permanent impacts. Evidence of mitigation includes, but is not limited to, purchasing 0.009 acre of riparian habitat mitigation creation credits and 1.770 acres of floodplain mosaic mitigation creation credits from Westervelt and Wildlands Mitigation Banks, or as otherwise required by the United States Army Corps of Engineers.

#### **NOTIFICATIONS AND REPORTS:**

33. 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.
34. 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:**

Stephanie Tadlock, Environmental Scientist  
Central Valley Regional Water Quality Control Board  
11020 Sun Center Drive, Suite 200  
Rancho Cordova, CA 95670-8114  
Stephanie.Tadlock@waterboards.ca.gov  
(916) 464-4644

**CALIFORNIA ENVIRONMENTAL QUALITY ACT:**

Reclamation District 108 is the Lead Agency responsible for compliance with the California Environmental Quality Act for the Wallace Weir Fish Rescue Facility Project pursuant to § 21000 et seq. of the Public Resources Code. Reclamation District 108 approved the Mitigated Negative Declaration on 19 May 2016. Reclamation District 108 filed a Notice of Determination with the State Clearinghouse on 20 May 2016 (SCH No. 2016042028).

The Central Valley Water Board is a responsible agency for the project. The Central Valley Water Board has determined that the Mitigated Negative Declaration is in accordance with the requirements of the California Environmental Quality Act.

The Central Valley Water Board has reviewed and evaluated the impacts to water quality identified in the Mitigated Negative Declaration. The mitigation measures discussed in the Mitigated Negative Declaration to minimize project impacts to State waters are required by this Certification.

With regard to the remaining impacts identified in the Mitigated Negative Declaration, the corresponding mitigation measures proposed are within the responsibility and jurisdiction of other public agencies.

**WATER QUALITY CERTIFICATION:**

I hereby issue an Order certifying that any discharge from the Reclamation District 108, Wallace Weir Fish Rescue Facility Project (WDID#5A57CR00145) 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. 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, Reclamation District 108'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*, Fourth Edition, revised April 2016.

*Original Signed By Adam Laputz for:*

Pamela C. Creedon  
Executive Officer

Enclosure: Project Information Sheet

Attachments: Figure 1 – Project Location Map  
Figure 2 – Site Impacts Map  
Figure 3 – Site Activities Map  
Figure 4 – Power Pole Location Map

cc: Distribution List, page 15

## PROJECT INFORMATION SHEET

**Application Date:** 20 April 2016

**Applicant:** Lewis Bair  
Reclamation District 108  
975 Wilson Bend Road  
Grimes, CA 95950

**Applicant Representative:** Gregg Ellis  
ICF International  
630 K Street, Suite 400  
Sacramento, CA 95814

**Project Name:** Wallace Weir Fish Rescue Facility Project

**Application Number:** WDID#5A57CR00145

**Date on Public Notice:** 22 April 2016

**Date Application Deemed Complete:** 20 May 2016

**Type of Project:** Ecological Aquatic/Stream/Habitat Restoration

**Approved Months of Project Implementation:** 15 July through 1 November

**Project Location:** Section 11, Township 10 North, Range 2 East, MDB&M.  
Latitude: 38°43'18.1668" N and Longitude: 121°43'30" W

**County:** Yolo County

**Receiving Water(s) (hydrologic unit):** Knights Landing Ridge Cut, Sacramento Hydrologic Basin, Valley Putah-Cache Hydrologic Unit #511.20, Lower Putah Creek HSA

**Water Body Type:** Streambed, Riparian

**Designated Beneficial Uses:** The *Water Quality Control Plan for the Sacramento River and San Joaquin River Basins*, 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); 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:** Knights Landing Ridge Cut is the receiving water for the Wallace Weir Fish Rescue Facility Project. Knights Landing Ridge Cut is on the 303(d) list for boron, dissolved oxygen, and salinity. This project, as conditioned with mitigation measures to prevent transport of sediment due to project activities, will minimize impacts to Knights Landing Ridge Cut. The most recent list of approved water quality limited segments is found at: [http://www.waterboards.ca.gov/water\\_issues/programs/tmdl/integrated2010.shtml](http://www.waterboards.ca.gov/water_issues/programs/tmdl/integrated2010.shtml). [http://www.waterboards.ca.gov/water\\_issues/programs/tmdl/integrated2010.shtml](http://www.waterboards.ca.gov/water_issues/programs/tmdl/integrated2010.shtml).

**Project Description:** California EcoRestore (EcoRestore) is a habitat initiative that replaced the Bay Delta Conservation Plan that identifies 30,000 acres of priority restoration projects located in the Delta, Yolo Bypass, and Suisun Marsh. EcoRestore is a result of pre-existing regulatory requirements to improve the overall health of the Delta ecosystem. EcoRestore will accelerate and implement a comprehensive suite of habitat restoration actions to support the long-term health of the Sacramento-San Joaquin Delta's native fish and wildlife species. The EcoRestore project includes twenty four individual projects that are scheduled to break ground between 2015 and 2018. Wallace Weir Fish Rescue Facility Project is identified as an EcoRestore project.

The Wallace Weir Fish Rescue Facility Project (Project) is located near the eastern terminus of Road 17 in Yolo County. The Project consists of: 1) constructing a permanent weir; 2) constructing an armored earthen berm; 3) constructing a fish barrier and collection facility downstream of Wallace Weir; 4) constructing an access road and bridge across the new weir; 5) removing Wallace Weir; 6) use of an on-site borrow/spoils site; and 7) constructing power poles and a powerline corridor.

#### Permanent Weir Installation

The new weir will be built approximately 50-100 feet downstream of the existing Wallace Weir. Soil will be excavated from the dry bed of the Knights Landing Ridge Cut to build a cast-in-place concrete platform for the new weir. To control the water flow through the new weir, three remote-operated, inflatable bladders will be installed on the upstream side of the weir to raise and lower the gates. Three cast-in-place concrete bays will be constructed to hold the three 6 to 11-foot tall gates. Rip rap will be placed upstream and downstream of the weir to prevent erosion during operation. A 20-foot wide all-weather access road will be constructed across the new weir to provide access between the right and left banks of the Knights Landing Ridge Cut. The weir installation will permanently impact 0.111 acre/183 linear feet of waters of the United States.

#### Armored Earthen Berm Installation

On site soil will be placed between the right bank of the Knights Landing Ridge Cut and the new weir. A culvert and check valve will be installed through the berm to maintain flows into the existing ditch. Rip rap will be placed through the length of the new berm to prevent scour. The armored berm installation will permanently impact 0.660 acre of waters of the United States.

### Fish Barrier and Collection Facility Installation

Six steel picket weirs will be installed to prevent fish from entering the Kings Landing Ridge Cut. Each picket weir will be 28 feet long and 16 feet wide. The channel will be excavated to approximately 100 feet wide and transition to 30 feet wide over 200 feet. Rip rap will be placed in the excavated area directly downstream of the picket weirs to maintain elevation and prevent scour.

The fish collection facility will be installed on the east side of the flow control structure. The walls and floors of the facility will be made of cast-in-place concrete. Flow will enter the facility through an intake upstream of the steel gates. A 5-foot long by 10-foot wide bar rack with 1-inch spacing will be installed on the upstream intake structure to prevent downstream migrant fish and large debris from entering the collection facility.

The fish barrier and collection facility will permanently impact 0.033 acre of waters of the United States.

### Access Road and Bridge Construction

The new access road and bridge will allow for vehicular and agricultural equipment to travel between the left and right banks of the Knights Landing Ridge Cut. A 20-foot all weather road will be constructed on the top of the armored earthen berm using aggregate base and the bridge will be constructed to span the new weir and fish collection facility. The bridge will be supported by piles every 20 feet along its length. A 6-inch curb will be constructed on both sides of the bridge. A manual access gate will be installed at the western end of the access road to restrict entry into the facility. Road and bridge construction will permanently impact 0.976 acre/2,453 linear feet and temporarily impact 0.20 acre of waters of the United States.

### Wallace Weir Removal

Wallace Weir is a seasonally-constructed earthen berm that crosses the Knights Landing Ridge Cut. Wallace Weir will be used to dewater the work area during construction activities. After construction has completed, Wallace Weir will be permanently removed and the new weir will be used for flow control on a permanent basis. The removal of Wallace Weir removal will temporarily impact 0.673 acre/40 linear feet of waters of the United States.

### Borrow and Spoils Areas

Spoils generated from the removal of Wallace Weir will be temporarily stockpiled in a spoils and staging area, shown in Figure 3. Silt fences, fiber rolls, or similar best management practices will be installed around the base of the temporary stockpiles. Temporary stockpiles will be covered with geotextile fabric to increase protection from erosion. Soil from the borrow area (Figure 3) will be used for new weir and berm construction. The borrow and spoils area will temporarily impact 5.737 acres/788 linear feet of waters of the United States.

### Power Pole and Powerline Corridor Construction

A new powerline corridor with 6 new power poles spaced approximately 272 feet apart will connect to an existing power line and be installed along the southwestern portion of the Project area along the powerline corridor, as shown in Figure 4. The new power infrastructure will facilitate an adequate power supply to the new fish rescue facility infrastructure. Power pole and

powerline corridor construction will permanently impact 6 linear feet and temporarily impact 0.260 acre/220 linear feet of waters of the United States.

Summary of Impacts

Dewatering will occur within the Project area. Project activities will be performed during dry conditions. Wet concrete will be placed into waters of the United States after fully dewatering the area and during periods of no precipitation. The Project will permanently impact 1.779 acres/2,642 linear feet and temporarily impact 6.870 acres/1,048 linear feet of waters of the United States.

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

**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, settleable matter, and pH 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.

**Excavation/Fill Area:** Approximately 5,889 cubic yards of native soil will be excavated from 8.649 acres of waters of the United States.

Approximately 3,250 cubic yards of rip rap, 26,670 cubic yards of clean soil, and 2,400 cubic yards of concrete will be placed into 6.870 acres of waters of the United States.

**Dredge Volume:** None

**California Integrated Water Quality System Impact Data:** The Project will permanently impact 0.009 acre/84 linear feet of riparian habitat and 1.770 acre/2,558 linear feet of streambed habitat, and temporarily impact 6.870 acres/1,048 linear feet of stream bed habitat from fill and 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
Riparian Zone	--	--	--	0.009	--	84	--	--	--
Stream Channel	6.870	--	1,048	1.770	--	2,558	--	--	--
<b>Total</b>	<b>6.870</b>	<b>--</b>	<b>1,048</b>	<b>1.779</b>	<b>--</b>	<b>2,642</b>	<b>--</b>	<b>--</b>	<b>--</b>

**United States Army Corps of Engineers File Number:** SPK-2013-00229

**United States Army Corps of Engineers Permit Type:** Individual Permit

**California Department of Fish and Wildlife Lake or Streambed Alteration Agreement:**

The Applicant applied for a Lake or Streambed Alteration Agreement on 20 April 2016.

**Possible Listed Species:** Swainson’s hawk, Western yellow-billed cuckoo, Giant gerter snake, Sacramento River winter-run Chinook salmon, Central Valley spring-run Chinook salmon, Central Valley steelhead, and North American green sturgeon.

**Status of CEQA Compliance:** Reclamation District 108 approved a Mitigated Negative Declaration on 19 May 2016. Reclamation District 108 filed a Notice of Determination with the State Clearinghouse on 20 May 2016 (SCH No. 2016042028).

The Central Valley Water Board will file a Notice of Determination with the State Clearinghouse as a responsible agency within five (5) days of the date of this Certification.

**Compensatory Mitigation:** Prior to commencing construction, the Applicant shall provide evidence of all off-site compensatory mitigation to the Central Valley Water Board. Evidence of on-site compensatory mitigation shall be provided with the Notice of Completion. At a minimum, compensatory mitigation must achieve a ratio of 1:1 for permanent impacts. Evidence of mitigation includes, but is not limited to, purchasing 0.009 acre of riparian habitat mitigation creation credits and 1.770 acres of floodplain mosaic mitigation creation credits from Westervelt and Wildlands Mitigation Banks, or as otherwise required by the United States Army Corps of Engineers.

**Table 3: Compensatory Mitigation for Permanent Physical Loss of Area**

Aquatic Resource Type	Comp Mitigation Type			Units		Established	Re-established	Rehabilitated	Enhanced	Preserved	Unknown
	In-Lieu	Mit. Bank	Permittee Responsible	AC (Acres)	LF (Linear Feet)						
Riparian Zone	--	--	--	0.009	--	X	--	--	--	--	--
Stream Channel	--	--	--	1.770	--	X	--	--	--	--	--
<b>TOTAL</b>	--	--	--	1.779	--	--	--	--	--	--	--

**Application Fee Provided:** Total fees of \$200.00 have 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.

**DISTRIBUTION LIST**

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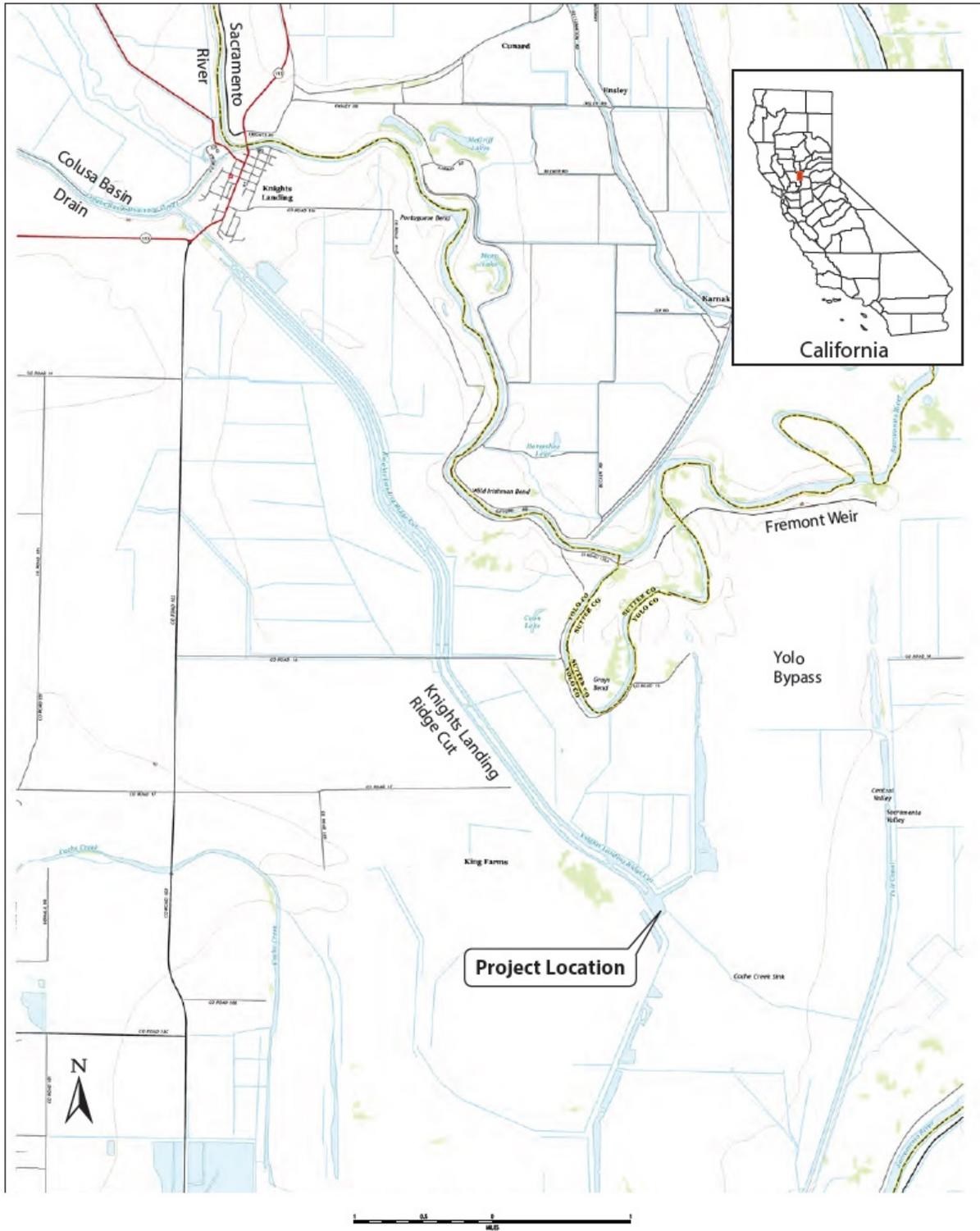


Figure 1  
Project Location

Figure 1 – Project Location Map

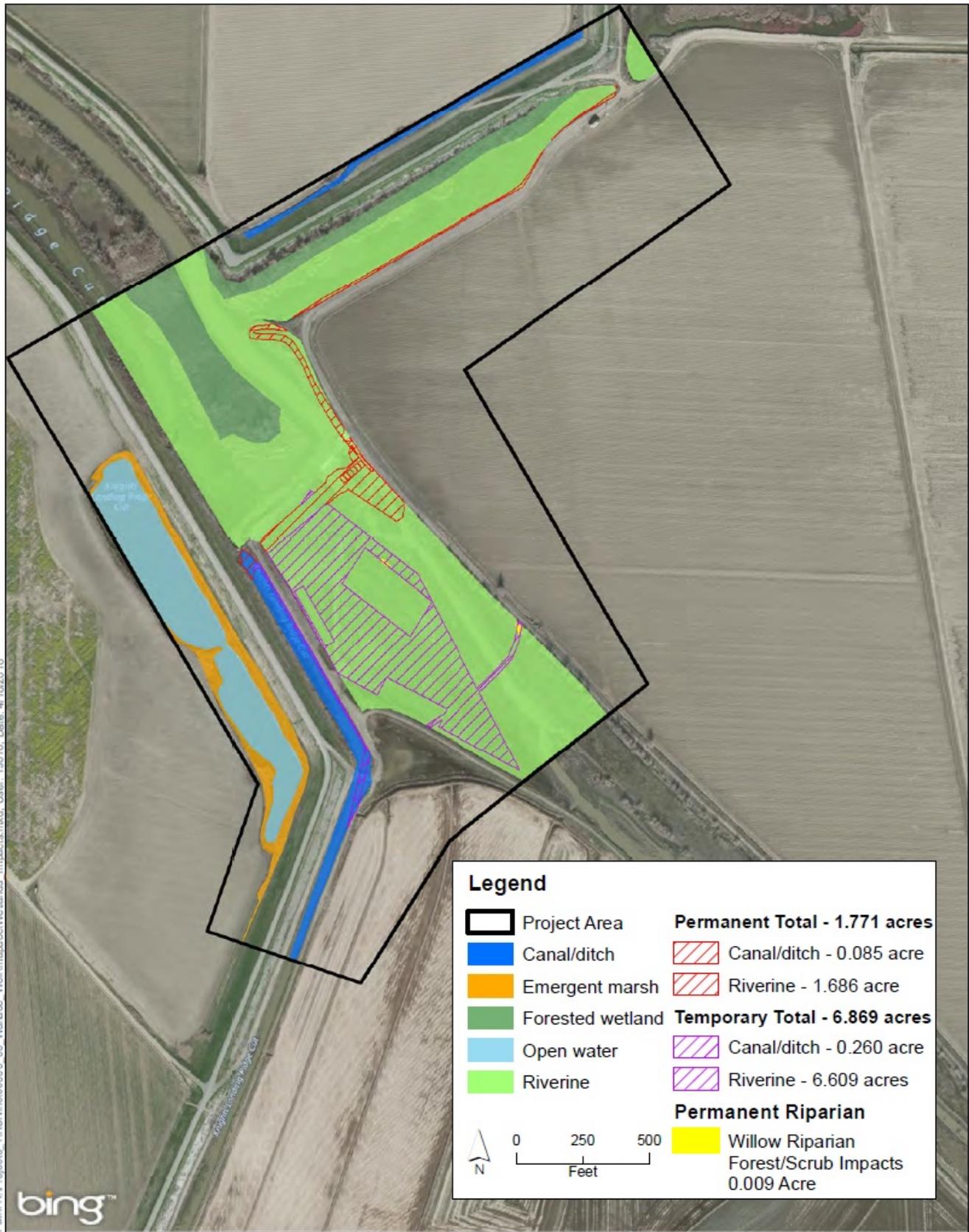


Figure 2 – Site Impacts Map

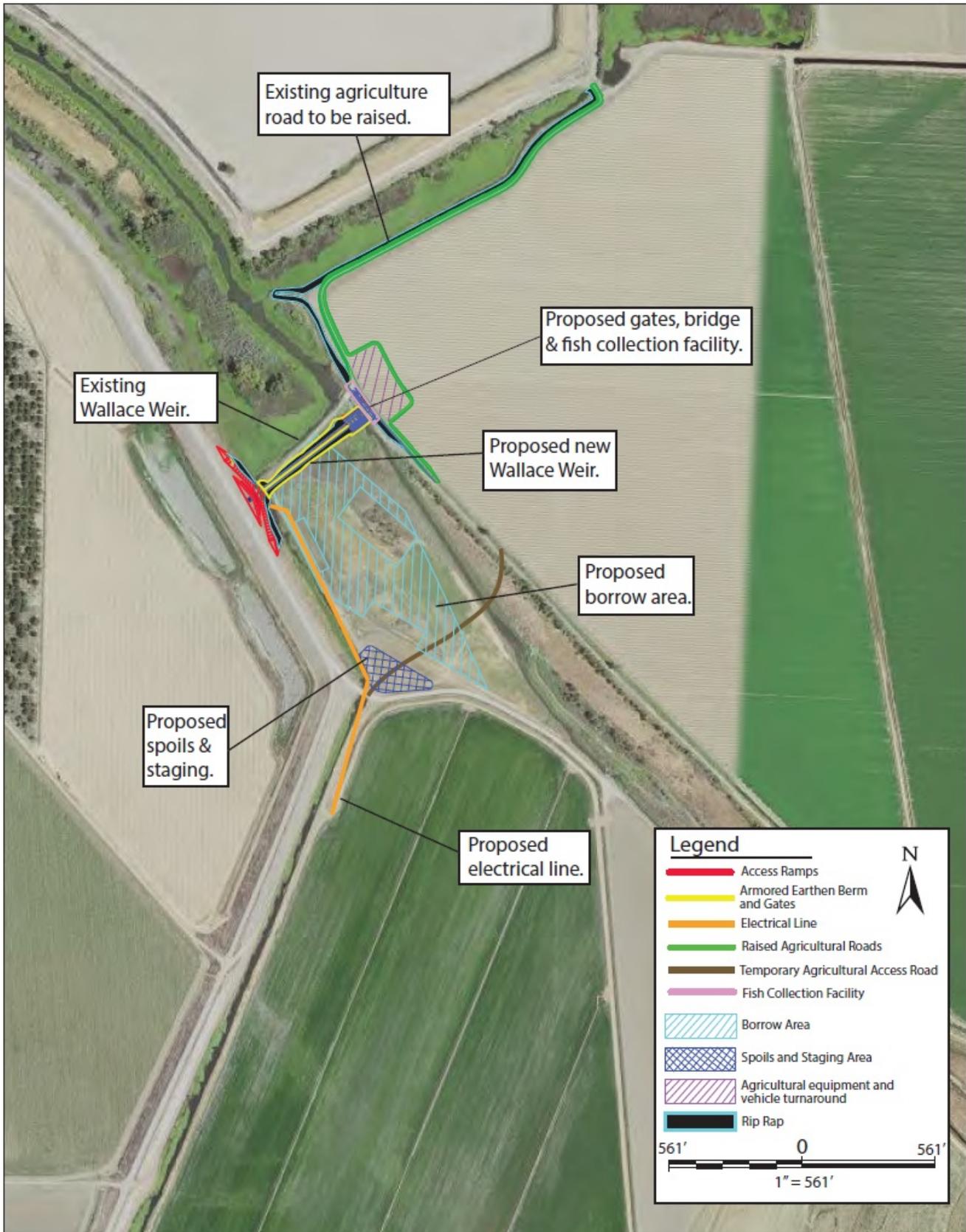


Figure 3 – Project Activities Map

