



**California Department of Fish and Wildlife  
Central Region (R4)  
1234 EAST SHAW AVENUE  
FRESNO, CALIFORNIA 93710**

California Endangered Species Act  
Incidental Take Permit No. 2081-2022-068-04

**MADERA LAKE PUMP AND PIPELINE PROJECT**

**I. Authority:**

This California Endangered Species Act (CESA) incidental take permit (ITP) is issued by the California Department of Fish and Wildlife (CDFW) pursuant to Fish and Game Code section 2081, subdivisions (b) and (c), and California Code of Regulations, Title 14, section 783.0 et seq. CESA prohibits the take<sup>1</sup> of any species of wildlife designated by the California Fish and Game Commission as an endangered, threatened, or candidate species.<sup>2</sup> However, CDFW may authorize the take of any such species by permit pursuant to the conditions set forth in Fish and Game Code section 2081, subdivisions (b) and (c). (See Cal. Code Regs., tit. 14, § 783.4.)

<b>Permittee:</b>	<b>Madera Water District</b>
<b>Principal Officer:</b>	<b>John Gies, District Manager</b>
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**II. Effective Date and Expiration Date of this ITP:**

This ITP is effective as of the date signed by CDFW below. Unless renewed by CDFW, this ITP and its authorization to take the Covered Species shall expire on **June 20, 2029**.

<sup>1</sup>Pursuant to Fish and Game Code section 86, "'take' means hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture, or kill." (See also *Environmental Protection Information Center v. California Department of Forestry and Fire Protection* (2008) 44 Cal.4th 459, 507 [for purposes of incidental take permitting under Fish and Game Code section 2081, subdivision (b), "'take' ... means to catch, capture or kill".])

<sup>2</sup>The definition of an endangered, threatened, and candidate species for purposes of CESA are found in Fish and Game Code sections 2062, 2067, and 2068, respectively.

Notwithstanding the expiration date on the take authorization provided by this ITP, Permittee's obligations pursuant to this ITP do not end until CDFW accepts as complete the Permittee's Final Mitigation Report required by Final Mitigation Report Condition of Approval of this ITP.

### **III. Project Location:**

The Madera Lake Pump and Pipeline Project (Project) is located approximately 3 miles northeast of the City of Madera in unincorporated Madera County, California (Figure 1). It is found on the Daulton and Kismet USGS 7.5-minute quadrangles (Figure 2) in Sections 28, 33, and 34 of Township 10 South, Range 18 East, Mount Diablo Base and Meridian.

The Project will be constructed along an approximate 1.7-mile alignment that originates in Madera Lake near its western shore then continues west and north through approximately 1.6 miles before terminating just north of the Avenue 19 ½ alignment.

### **IV. Project Description:**

The Project purpose is to allow water from Madera Irrigation District (MID) or other sources to be brought into Madera Water District (MWD) through Madera Lake.

The Project would entail the installation of a siphon in Madera Lake, siphon inlet channel, booster pumps, and a pipeline to obtain a flowrate of up to 8,000 gallons per minute (gpm), with up to 6,000 gpm delivered into MWD and up to 2,000 gpm delivered to the neighboring property. The pipe would be supported by a continuous concrete footing constructed on the lakebed below the normal water surface. Upon exiting the lake, the pipe will be aboveground until buried through the top of the dam embankment and associated dirt roadway. Within grasslands on the west side of the dam, the pipe would be installed aboveground supported by a single concrete saddle until reaching the existing dirt farm road west of the grassland habitat. The dam is located at the western edge of the annual grassland habitat. There the siphon pipe would again be undergrounded before terminating at a proposed sump with booster pump(s).

The booster pump(s) will discharge into a buried plastic pipeline that passes through a large orchard west of Madera Lake for about ½ mile, then turns north and follows an existing dirt farm road within the orchard on the Road 29½ alignment for about 5,700 feet. Pipe diameter will initially be 27 inches but will transition to 24 inches at the proposed location of a landowner turnout about one-fourth of the way along the Road 29½ pipeline segment. The pipeline will terminate at a proposed booster pump station north of the Avenue 19 ½ alignment, which will discharge into the existing MWD distribution system near the existing Well No. 3 and associated basin.

The temporary disturbance corridor anticipated for pipeline installation is approximately 100 feet wide for the siphon pipe and siphon inlet channel and 25 feet wide for the buried plastic pipe. During construction, equipment and materials would be staged within the temporary disturbance corridor and/or within two approximately ½ acre agricultural storage

areas located along the pipeline alignment within the interior and eastern edge of the orchard (“staging areas”).

A 1.1-acre equipment turnaround area has been designated adjacent to the existing lake embankment roadway at an area already used as a turnaround for service and ranch vehicles (Figure 3). All Project-related disturbances would be limited to an area of approximately 10.6 acres consisting of the temporary disturbance corridor, staging areas, equipment turnaround, and work areas associated with the sump, booster pump stations, and pipeline turnout supplying the orchard.

Project activities in the grassland habitat and remnant (vernal) pool to the west will be limited to the dry season. Such activities will not be initiated until the remnant pool and the two closest off-site vernal pools have completely dried and will be completed before the first significant autumn or winter rainfall. Estimated timelines for Covered Activities within the project site’s annual grassland and remnant pool habitat are discussed in more detail below.

### Staging Areas

Construction will require temporary staging and storage of materials and equipment. There are three potential staging areas located onsite: 1) near the proposed sump/booster pump station (0.49 acres); 2) northeast of the north/south pipeline alignment and the Avenue 19 alignment (0.77 acres) and 3) near the pipeline connection at the existing MWD Well No. 3 site (0.67 acres). There is also a designated truck turn around area of about 1.1 acres to limit equipment operations on the lakebed (Figure 4).

### Heavy Equipment Operation

Operation and movement of heavy equipment and machinery that may include an excavator, backhoe, dump truck, loader tractor, and service trucks will occur throughout the entire Project site, estimated to be 35 days in total for all the work on the Madera Lake property, both above and below the ordinary water surface.

### Riprap Relocation

Approximately 1,775 square feet of riprap, assuming a continuous riprap coverage of one foot in depth, will be removed and temporarily stockpiled at a convenient location within the Project site (likely on the dam embankment immediately adjacent to the dam embankment disturbance area) and then returned after the pipe has been installed through the embankment. Relocation of existing riprap on the lower lakeside dam embankment to clear ground for underneath portions of the above ground siphon pipeline is anticipated to take less than one day.

### Construction of Concrete Saddle

Construction of one small concrete pipe support saddle will be constructed, with concrete finished dimensions of about 3.2 feet by 1.5 feet (approximately 5 square feet). The area will

likely be excavated with a backhoe or excavator to about 2 feet below existing grade, with the soil material temporarily placed next to the work area while the subgrade is roughed up and compacted with an attachment on the end of the equipment or with a vibratory rammer or plate compaction device ("wacker"). Then the earth will be compacted back into the hole with the same equipment. Wooden forms would be placed on the compacted area about 1-foot below grade and 1.5 feet above grade to contain the concrete when being poured. Reinforcing steel will be placed within the forms and concrete delivered to the forms by way of a concrete pump likely located on the farm road with the concrete mixer truck. Once the concrete has set, the forms will be removed and finish earthwork is preformed around the pipe support to bring the area back to existing grade, likely by a backhoe with a bucket. Site preparation and placement of a concrete pipe support saddle is anticipated to take less than one day.

### Construction of Trench through Existing Roadway and Addition of Slurry

The trench, an approximate depth of 5.5 feet, will likely be constructed using an excavator, in preparation for pipeline placement. Earth material will be set aside temporarily next to the work area or placed in a truck to haul away and be stockpiled off-site until needed to backfill above the pipeline. The steel pipeline will be placed on blocks by an excavator or crane and then welded from the outside of the pipe once in the proper alignment. Wooden forms will be placed around the upper half of the pipe for the cutoff walls and at the edge of the embankment to contain the sand slurry. A concrete truck will bring the sand slurry to the edge of the trench from the road at the top of the dam embankment and poured into the trench around the pipe and cutoffs. Once the sand slurry is set, the wooden forms will be removed, and the stockpiled earth material will be used to fill the remaining trench area back to the original embankment line and grade. Compaction of earthen backfill will likely be accomplished with a vibratory rammer or plate walk behind compaction equipment for the initial fill above the pipe, and then with a compaction wheel on an excavator or backhoe boom. Trenching through the top of the dam embankment will take no more than a single working day. The installation of pipe, slurry, and cutoff walls in the trench is estimated to take about four working days and the final backfill of the trench, less than one working day. In total these activities are expected to take an estimated five to six days.

### Installation of Siphon Pipe and Pipeline

Much of the siphon pipe is above ground and does not go underground until entering the orchard property, and then is buried under the existing farm roadway. The steel siphon pipeline will be trucked to the Project site in sections and welded on site. For the portion that will be elevated above the ground surface, temporary blocks will be placed on the ground and the pipe sections will be lifted into place by a crane or excavator. When one piece is properly aligned on the temporary blocks it would be welded together from the outside of the pipe. After the entire elevated section is secured (welded) to a supported section in the embankment, the concrete pipe support saddle, or buried section off the lake property, the temporary blocks will be removed. Installation of the aboveground portion of the siphon pipe is anticipated to take approximately twelve days.

Activities within the Project site's remnant pool will be limited to the temporary storage of equipment and materials during dry-season construction, a level of disturbance similar to the yearly farming activities occurring in the area of this remnant pool. No materials will be placed in the pool when it is wet.

Upon completion of Project activities within the grassland habitat, all temporary disturbance areas will be restored to pre-Project conditions, primarily using hand tools such as rakes, that will be used to smooth and minor surface irregularities from equipment use in these areas. The estimated time for completion of all covered activities is 35 days.

#### **V. Covered Species Subject to Take Authorization Provided by this ITP:**

This ITP covers the following species:

<u>Name</u>	<u>CESA Status</u> <sup>3</sup>
1. California tiger salamander ( <i>Ambystoma californiense</i> ) (CTS)	Threatened <sup>4</sup>

This species and only this species is the "Covered Species" for the purposes of this ITP.

#### **VI. Impacts of the Taking on Covered Species:**

Project activities and their resulting impacts are expected to result in the incidental take of individuals of the Covered Species. The activities described above expected to result in incidental take of individuals of the Covered Species include surface-level disturbance with the operation and/or travel of heavy equipment and machinery, relocation of riprap on a dam embankment, trenching and backfilling soils for the formation pipe installation through the dam embankment and associated roadway, localized excavation and compaction for placement of the concrete saddles, installation of pipe, slurry, and cutoff walls in trench, installation of siphon pipe, temporary storage of heavy equipment and materials (Covered Activities).

Incidental take of individuals of the Covered Species in the form of mortality ("kill") may occur as a result of Covered Activities such as being crushed under moving vehicles and equipment, disturbance in the vicinities of small mammal burrows resulting from clearing and grubbing activities, compacting soils and resulting in the destruction of small mammal burrows; Covered Species actively inhabiting these burrows may become trapped, injured or be forced to move, resulting in take of the species. In addition, the destruction of local burrows may eliminate refugia habitat for dispersing Covered Species, increasing their susceptibility to desiccation or predation. Pipeline installation may trap Covered Species within pipes, culverts or within an intake pipe during de-watering events potentially causing take. During the construction of the temporary road, temporary import of fill within annual grassland habitat may bury existing burrows, which may be occupied by Covered Species. Furthermore, noise and vibration associated with ground disturbance may disrupt Covered Species occupying subterranean burrow systems resulting in above ground emergence and

<sup>3</sup> Under CESA, a species may be on the list of endangered species, the list of threatened species, or the list of candidate species.

<sup>4</sup>See Cal. Code Regs. tit. 14 § 670.5, subd. (b)(3)(G).

potential take. Incidental take of individuals of the Covered Species may also occur from the Covered Activities in the form of pursue, catch, capture, or attempt to do so of the Covered Species from capture and relocation attempts as required by this ITP. Relocation could, absent implementation of protective measures, result in mortality, and/or disease transmission to Covered Species by individuals involved in the relocation effort. The areas where authorized take of the Covered Species is expected to occur include: the area consisting of 1.34 acres of annual grassland habitat, a remnant pool 0.26 acres in size, and the remaining area within the 10.6-acre Project site outside of the annual grassland habitat and remnant pool but within Project's overall footprint (Figures 3, 4, and 5) (collectively, the Project Area).

The Project is expected to cause the permanent loss of 5 square feet of annual grassland and the temporary loss of 1.34 acres of annual grassland that provides upland habitat for the Covered Species. The Project will stage within a 0.26 acre of remnant pool, that provides Covered Species breeding habitat, but the activities will occur when the pool is dry and therefore not actively used by the Covered Species. Staging is consistent with ongoing activities that have historically occurred within the dry remnant pool, and Covered Activities are not expected to alter the habitat features of the remnant pool. Table 1 provides the Covered Activities occurring within Covered Species habitat outside the dirt road. While the dirt road and remaining Project site outside of the annual grassland habitat and remnant pool do not provide refugia or resources to support the Covered Species, the Covered Species may use it as dispersal habitat if it attempts to move through the area. The Project is not anticipated to alter this function. Impacts of the authorized taking also include adverse impacts to the Covered Species related to temporal losses, increased habitat fragmentation and edge effects, and the Project's incremental contribution to cumulative impacts (indirect impacts). These impacts include stress resulting from noise and vibrations from tunneling and capture and relocation, and long-term effects due to increased pollution, displacement from preferred habitat, increased competition for food and space, and increased vulnerability to predation.

**Table 1. Project Impacts to Potential Covered Species/CTS Habitat.**

Impact Area	CTS Habitat Type	Project Activities	Area of Permanent Impacts	Area of Temporary Impacts
Annual grassland	Subterranean refugia	<ul style="list-style-type: none"> <li>• Operation and movement of equipment and machinery</li> <li>• Relocation of riprap on dam embankment</li> <li>• Localized excavation and compaction for placement of the concrete saddles</li> <li>• Installation of concrete saddles</li> <li>• Trenching through top of dam embankment</li> <li>• Installation of pipe, slurry, and cutoff walls in trench</li> </ul>	5 SF (ground disturbing/excavation)	1.34 Acre (Surface level/driving) and 38 SF (ground disturbing/excavation)

Impact Area	CTS Habitat Type	Project Activities	Area of Permanent Impacts	Area of Temporary Impacts
		<ul style="list-style-type: none"> <li>• Backfilling trench</li> <li>• Installation of siphon pipe aboveground pipe sections</li> </ul>		
Remnant vernal pool	Breeding	Temporary storage of equipment and materials	0.0 SF	0.26 Acre
			<b>5 SF</b>	<b>1.60 Acre</b>

### VII. Incidental Take Authorization of Covered Species:

This ITP authorizes incidental take of the Covered Species and only the Covered Species. With respect to incidental take of the Covered Species, CDFW authorizes the Permittee, its employees, contractors, and agents to take Covered Species incidentally in carrying out the Covered Activities, subject to the limitations described in this section and the Conditions of Approval identified below. This ITP does not authorize take of Covered Species from activities outside the scope of the Covered Activities, take of Covered Species outside of the Project Area, take of Covered Species resulting from violation of this ITP, or intentional take of Covered Species except for capture and relocation of Covered Species as authorized by this ITP.

### VIII. Conditions of Approval:

Unless specified otherwise, the following measures apply to all Covered Activities within the Project Area, including areas used for vehicular ingress and egress, staging and parking, and noise and vibration generating activities that may/will cause take. CDFW's issuance of this ITP and Permittee's authorization to take the Covered Species are subject to Permittee's compliance with and implementation of the following Conditions of Approval:

- 1. Legal Compliance:** Permittee shall comply with all applicable federal, state, and local laws in existence on the effective date of this ITP or adopted thereafter.
- 2. CEQA Compliance:** Permittee shall implement and adhere to the mitigation measures related to the Covered Species in the Biological Resources section of the Mitigated Negative Declaration and Initial Study (SCH No.: 2022090367) adopted by Madera Water District on November 9, 2023, as lead agency for the Project pursuant to the California Environmental Quality Act (CEQA) (Pub. Resources Code, § 21000 et seq.).
- 3. LSA Agreement Compliance:** Permittee shall implement and adhere to the mitigation measures and conditions related to the Covered Species in the Lake and Streambed Alteration Agreement (LSAA) (Notification No. MAD-34953 for the Project executed by CDFW pursuant to Fish and Game Code section 1600 et seq.).
- 4. ESA Compliance:** Permittee shall implement and adhere to the terms and conditions related to the Covered Species in the Madera Lake Pump and Pipeline Project (SPK-2020-00876) for the Project pursuant to the Federal Endangered Species Act

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(ESA). For purposes of this ITP, where the terms and conditions for the Covered Species in the federal authorization are less protective of the Covered Species or otherwise conflict with this ITP, the conditions of approval set forth in this ITP shall control.

**5. ITP Time Frame Compliance:** Permittee shall fully implement and adhere to the conditions of this ITP within the time frames set forth below and as set forth in the Mitigation Monitoring and Reporting Program (MMRP), which is included as Attachment 1 to this ITP.

**6. General Provisions:**

- 6.1. Designated Representative.** Before starting Covered Activities, Permittee shall designate a representative (Designated Representative) responsible for communications with CDFW and overseeing compliance with this ITP. Permittee shall notify CDFW in writing before starting Covered Activities of the Designated Representative's name, business address, and contact information, and shall notify CDFW in writing if a substitute Designated Representative is selected or identified at any time during the term of this ITP.
- 6.2. Designated Biologist(s) and Designated Monitor(s).** Permittee shall submit to CDFW in writing the name, qualifications, business address, and contact information of the Designated Biologist(s) and Designated Monitor(s) using the Biologist Resume Form (ATTACHMENT 2) or another format containing the same information at least 30 days before starting Covered Activities. Permittee shall ensure that the Designated Biologist(s) and Designated Monitor(s) are knowledgeable and experienced in the biology, natural history, collecting and handling of the Covered Species. The Designated Biologist(s) and Designated Monitor(s) shall be responsible for monitoring Covered Activities to help minimize and fully mitigate or avoid the incidental take of individual Covered Species and to minimize disturbance of Covered Species' habitat. Permittee shall obtain CDFW approval of the Designated Biologist(s) and Designated Monitor(s) in writing before starting Covered Activities and shall also obtain approval in advance, in writing, if the Designated Biologist(s) or Designated Monitors(s) must be changed. Designated Monitors specific activities shall be approved in advance and in writing by CDFW.
- 6.3. Designated Biologist Authority.** To ensure compliance with the Conditions of Approval of this ITP, the Designated Biologist shall immediately stop any activity that does not comply with this ITP and/or order any reasonable measure to avoid the unauthorized take of an individual of the Covered Species. Permittee shall provide unfettered access to the Project Site and otherwise facilitate the Designated Biologist in the performance of his/her duties. If the Designated Biologist is unable to comply with the ITP, then the Designated Biologist shall notify the CDFW Representative immediately. Permittee shall not enter into any agreement or contract of any kind, including but not limited to non-disclosure



agreements and confidentiality agreements, with its contractors and/or the Designated Biologist that prohibit or impede open communication with CDFW, including but not limited to providing CDFW staff with the results of any surveys, reports, or studies or notifying CDFW of any non-compliance or take. Failure to notify CDFW of any non-compliance or take or injury of a Covered Species as a result of such agreement or contract may result in CDFW taking actions to prevent or remedy a violation of this ITP.

- 6.4. Education Program.** Permittee shall conduct an education program for all persons employed or otherwise working in the Project Area before performing any work. The program shall consist of a presentation from the Designated Biologist that includes a discussion of the biology and general behavior of the Covered Species, information about the distribution and habitat needs of the Covered Species, sensitivity of the Covered Species to human activities, its status pursuant to CESA including legal protection, recovery efforts, penalties for violations and Project-specific protective measures described in this ITP. Permittee shall prepare and distribute wallet-sized cards or a fact sheet handout containing this information for workers to carry in the Project Area. Permittee shall provide interpretation for non-English speaking workers, and the same instruction shall be provided to any new workers before they are authorized to perform work in the Project Area. Upon completion of the program, employees shall sign a form stating they attended the program and understand all protection measures. This training shall be repeated at least once annually for long-term and/or permanent employees that will be conducting work in the Project Area.
- 6.5. Construction Monitoring Documentation.** The Designated Biologist(s) and Designated Monitor(s) shall maintain construction-monitoring documentation on-site in either hard copy or digital format throughout the construction period, which shall include a copy of this ITP with attachments and a list of signatures of all personnel who have successfully completed the education program. Permittee shall ensure a copy of the construction-monitoring documentation is available for review at the Project site upon request by CDFW.
- 6.6. Trash Abatement.** Permittee shall initiate a trash abatement program before starting Covered Activities and shall continue the program for the duration of the Project. Permittee shall ensure that trash and food items are contained in animal-proof containers and removed, ideally at daily intervals but at least once a week, to avoid attracting opportunistic predators such as ravens, coyotes, and feral dogs.
- 6.7. Dust Control.** Permittee shall implement dust control measures during Covered Activities to facilitate visibility for monitoring of the Covered Species by the Designated Biologist. Permittee shall keep the amount of water used to the minimum amount needed and shall not allow water to form puddles.

- 6.8.** Erosion Control Materials. Permittee shall prohibit use of erosion control materials potentially harmful to Covered Species and other species, such as monofilament netting (erosion control matting) or similar material, in potential Covered Species' habitat.
- 6.9.** Delineation of Property Boundaries. Before starting Covered Activities along each part of the route in active construction, Permittee shall clearly delineate the boundaries of the Project Area with fencing, stakes, or flags. Permittee shall restrict all Covered Activities to within the fenced, staked, or flagged areas. Permittee shall maintain all fencing, stakes, and flags until the completion of Covered Activities in that area.
- 6.10.** Delineation of Habitat. Permittee shall clearly delineate habitat of the Covered Species within the Project Area with posted signs, posting stakes, flags, and/or rope or cord, and place fencing as necessary to minimize the disturbance of Covered Species' habitat.
- 6.11.** Project Access. Project-related personnel shall access the Project Area using existing routes, and shall not cross Covered Species' habitat outside of or en route to the Project Area. Permittee shall restrict Project-related vehicle traffic to established roads, staging, and parking areas. Permittee shall ensure that vehicle speeds do not exceed 20 miles per hour to avoid Covered Species on or traversing the roads. If Permittee determines construction of routes for travel are necessary outside of the Project Area, the Designated Representative shall contact CDFW for written approval before carrying out such an activity. CDFW may require an amendment to this ITP, among other reasons, if additional take of Covered Species will occur as a result of the Project modification.
- 6.12.** Staging Areas. Permittee shall confine all Project-related parking, storage areas, laydown sites, equipment storage, and any other surface-disturbing activities to the Project Area using, to the extent possible, previously disturbed areas. Additionally, Permittee shall not use or cross Covered Species' habitat outside of the marked Project Area unless provided for as described in Project Access of this ITP.
- 6.13.** Hazardous Waste. Permittee shall immediately stop and, pursuant to pertinent state and federal statutes and regulations, arrange for repair and clean up by qualified individuals of any fuel or hazardous waste leaks or spills at the time of occurrence, or as soon as it is safe to do so. Permittee shall exclude the storage and handling of hazardous materials from the Project Area and shall properly contain and dispose of any unused or leftover hazardous products off-site.
- 6.14.** CDFW Access. Permittee shall provide CDFW staff with reasonable access to the Project and mitigation lands under Permittee control and shall otherwise fully cooperate with CDFW efforts to verify compliance with or effectiveness of mitigation measures set forth in this ITP.

- 6.15. Refuse Removal.** Upon completion of Covered Activities, Permittee shall remove from the Project Area and properly dispose of all temporary fill and construction refuse, including, but not limited to, broken equipment parts, wrapping material, cords, cables, wire, rope, strapping, twine, buckets, metal or plastic containers, and boxes.

## **7. Monitoring, Notification and Reporting Provisions:**

- 7.1. Notification Before Commencement.** The Designated Representative shall notify CDFW 14 calendar days before starting Covered Activities and shall document compliance with all pre-Project Conditions of Approval before starting Covered Activities.
- 7.2. Notification of Non-compliance.** The Designated Representative shall immediately notify CDFW if the Permittee is not in compliance with any Condition of Approval of this ITP, including but not limited to any actual or anticipated failure to implement measures within the time periods indicated in this ITP and/or the MMRP. The Designated Representative shall follow up within 24 hours with a written report to CDFW describing, in detail, any non-compliance with this ITP and suggested measures to remedy the situation.
- 7.3. Compliance Monitoring.** The Designated Biologist shall be on-site daily when Covered Activities occur. The Designated Biologist shall conduct compliance inspections a minimum of weekly inspections during periods of inactivity and after clearing, grubbing, and grading are completed. The Designated Biologist shall conduct compliance inspections to:
- (1) minimize incidental take of the Covered Species;
  - (2) prevent unlawful take of species;
  - (3) check for compliance with all measures of this ITP;
  - (4) check all exclusion zones; and
  - (5) ensure that signs, stakes, and fencing are intact, and that Covered Activities are only occurring in the Project Area.

The Designated Representative or Designated Biologist shall prepare daily written observation and inspection records summarizing oversight activities and compliance inspections, observations of Covered Species and their sign, survey results, and monitoring activities required by this ITP.

- 7.4. Monthly Compliance Report.** The Designated Representative or Designated Biologist shall compile the observation and inspection records identified in Compliance Monitoring Condition of Approval into a Monthly Compliance Report and submit it to CDFW along with a copy of the MMRP table with notes showing the current implementation status of each mitigation measure. Monthly Compliance

Reports shall be submitted to the CDFW offices listed in the Notices section of this ITP and via e-mail to CDFW's Regional Representative and Headquarters CESA Program. At the time of this ITP's approval, the CDFW Regional Representative is Stephanie Manzo ([Stephanie.Manzo@wildlife.ca.gov](mailto:Stephanie.Manzo@wildlife.ca.gov)), the CDFW regional office e-mail is [R4CESA@wildlife.ca.gov](mailto:R4CESA@wildlife.ca.gov), and Headquarters CESA Program email is [CESA@wildlife.ca.gov](mailto:CESA@wildlife.ca.gov). CDFW may at any time increase the timing and number of compliance inspections and reports required under this provision depending upon the results of previous compliance inspections. If CDFW determines the reporting schedule must be changed, CDFW will notify Permittee in writing of the new reporting schedule.

- 7.5. Annual Status Report.** Permittee shall provide CDFW with an Annual Status Report (ASR) no later than January 31 of every year beginning with issuance of this ITP and continuing until CDFW accepts the Final Mitigation Report identified below. Each ASR shall include, at a minimum: (1) a summary of all Monthly Compliance Reports for that year; (2) a general description of the status of the Project Area and Covered Activities, including actual or projected completion dates, if known; (3) a copy of the table in the MMRP with notes showing the current implementation status of each mitigation measure; (4) an assessment of the effectiveness of each completed or partially completed mitigation measure in avoiding, minimizing and mitigating Project impacts; (5) all available information about Project-related incidental take of the Covered Species; (6) an accounting of the number of acres subject to both temporary and permanent disturbance, both for the prior calendar year, and a total since ITP issuance; and (7) information about other Project impacts on the Covered Species.
- 7.6. CNDDDB Observations.** The Designated Biologist shall submit all observations of Covered Species to CDFW's California Natural Diversity Database (CNDDDB) within 60 calendar days of the observation and the Designated Biologist shall include copies of the submitted forms with the next Monthly Compliance Report or ASR, whichever is submitted first relative to the observation.
- 7.7. Final Mitigation Report.** No later than 45 days after completion of all mitigation measures, Permittee shall provide CDFW with a Final Mitigation Report. The Designated Biologist shall prepare the Final Mitigation Report which shall include, at a minimum: (1) a summary of all Monthly Compliance Reports and all ASRs; (2) a copy of the table in the MMRP with notes showing when each of the mitigation measures was implemented; (3) all available information about Project-related incidental take of the Covered Species; (4) information about other Project impacts on the Covered Species; (5) beginning and ending dates of Covered Activities; (6) an assessment of the effectiveness of this ITP's Conditions of Approval in minimizing and fully mitigating Project impacts of the taking on Covered Species; (7) recommendations on how mitigation measures might be changed to more effectively minimize take and mitigate the impacts of future projects on the Covered Species; and (8) any other pertinent information.

**7.8. Notification of Take or Injury.** Permittee shall immediately notify the Designated Biologist if a Covered Species is taken or injured by a Project-related activity, or if a Covered Species is otherwise found dead or injured within the vicinity of the Project. The Designated Biologist or Designated Representative shall provide initial notification to CDFW by calling the Regional Office at (559) 243-4005. The initial notification to CDFW shall include information regarding the location, species, and number of animals taken or injured and the ITP Number. Following initial notification, Permittee shall send CDFW a written report within two calendar days. The report shall include the date and time of the finding or incident, location of the animal or carcass, and if possible, provide a photograph, explanation as to cause of take or injury, and any other pertinent information.

**8. Take Minimization Measures:** The following requirements are intended to ensure the minimization of incidental take of Covered Species in the Project Area during Covered Activities. Permittee shall implement and adhere to the following conditions to minimize take of Covered Species:

**8.1. CTS Pre-Activity Clearance Surveys.** No more than 14 days prior to any vegetation- or ground-disturbing activities in the Project Area, the Designated Biologist shall survey the Project Area for CTS. These surveys shall provide 100 percent visual coverage of the potential habitat (including burrow and crevice openings) at the Project Area as well as a 50-foot buffer zone around the Project Area. If CTS individuals are found, the Designated Biologist(s) shall relocate them from the Project Area in accordance with the CDFW-approved CTS Mortality Reduction and Relocation Plan. The Permittee shall provide the survey results to CDFW in a written report prior to the beginning of Covered Activities within the Project Area.

**8.2. CTS Mortality Reduction and Relocation Plan.** The Designated Biologist shall prepare a CTS Mortality Reduction and Relocation Plan and submit it to CDFW for approval prior to the beginning of Covered Activities. The CTS Mortality Reduction and Relocation Plan shall include, but not be limited to, a discussion (and map) of the portion of the Project Area which represents potential upland habitat; the area within 1.3 miles of known or potential breeding habitat for CTS; an identification of survey, capture, handling, and relocation methods; identification of relocation areas; and identification of a wildlife rehabilitation center or veterinary facility and submit it to CDFW for written approval prior to the start of Covered Activities. Covered Activities within the Project Area may not proceed until the CTS Mortality Reduction and Relocation Plan is approved in writing by CDFW.

**8.3. Flag Burrows/Crevices.** During the CTS Pre-Activity Clearance Surveys, the Designated Biologist shall flag all animal burrows and crevices suitable for CTS occupancy within the Project Area. Flagged burrows/crevices which occur within 600 meters of known or potential breeding habitat and which cannot be avoided

shall be fully excavated in accordance with Burrow and Crevice Excavation Condition of Approval below.

- 8.4. Burrow and Crevice Excavation.** Prior to any vegetation- or ground-disturbing activities, those animal burrows and crevices identified during the CTS Pre-Activity Clearance Surveys and Flag Burrows/Crevices Condition of Approval within 600 meters of known or potential CTS breeding habitat as identified in a CTS Mortality Reduction and Relocation Plan, and which cannot be fully avoided, shall be fully excavated. Applicable burrows/crevices may be excavated by hand or in a manner otherwise approved by CDFW in accordance with the CDFW approved CTS Mortality Reduction and Relocation Plan. Burrow/crevice excavation shall occur under the direct supervision of the Designated Biologist(s).

The Designated Biologist(s) shall relocate any live CTS discovered during burrow/crevice excavation in accordance with the CTS Mortality Reduction and Relocation Plan Conditions of Approval. Excavation shall occur no more than 14 days after the completion of the CTS Pre-Activity Clearance Surveys.

- 8.5. Open Excavations.** The Designated Biologist(s) shall inspect all open holes, sumps, and trenches within the Project Area at the beginning and end of each workday (including once daily on any other non-workdays) for trapped CTS to prevent inadvertent entrapment. All open trenches, holes, sumps, and other excavations with sidewalls steeper than a 1:1 (45 degree) slope shall have an escape ramp of earth or a non-slip material with a less than 1:1 (45 degree) slope. At the end of each workday, Project workers shall ensure all trenches, holes, sumps, or other excavations with sidewalls steeper than a 1:1 (45 degree) slope of any depth are covered with barrier material (e.g., hardware cloth) such that animals are unable to dig or squeeze under the barrier and become entrapped. The outer two feet of excavation cover shall conform to solid ground so that gaps do not occur between the cover and the ground, and the excavation cover shall be secured with soil staples or by similar means to prevent gaps. Project workers shall also thoroughly inspect all open trenches, holes, sumps, or other excavations for CTS (or other wildlife) before they are backfilled. If any Project worker discovers that CTS have become trapped, Permittee shall cease all Covered Activities in the vicinity and notify the Designated Biologist(s) immediately. Project workers and the Designated Biologist(s) shall allow CTS to escape unimpeded, if possible, before Covered Activities are allowed to continue, or the Designated Biologist(s) may capture and relocate the CTS as per the CTS Mortality Reduction and Relocation Plan.

- 8.6. CTS Record of Observations and Handling.** All CTS captures, relocations, and observations by the Designated Biologist(s) shall include the following documented information: the date, time, and location of each occurrence using Global Positioning System (GPS) technology; the name of the party that actually identified the CTS; circumstances of the incident; the general condition and health of each

individual; any diagnostic markings, sex, age (juvenile or adult); actions undertaken; and habitat description. Permittee shall also submit this information to the CNDDDB as per CNDDDB Observations Condition of Approval. This information should also be included in the Monthly Compliance Report and Annual Status Report.

- 8.7. Dry Season Work.** Ground-disturbing activities within or immediately adjacent (within 50 feet) to potential CTS breeding habitat shall not occur until the pools are dry.
- 8.8. Fieldwork Code of Practice.** To ensure that disease is not conveyed to or from the Project Area by the Designated Biologist(s) or Designated Monitors(s), the Fieldwork Code of Practice developed by the Declining Amphibian Populations Task Force (see Attachment 3) shall be followed at all times. The Designated Biologist(s) or Designated Monitor(s) may substitute a bleach solution (0.5 to 1.0 cup of bleach to 1.0 gallon of water) for the ethanol solution. Care shall be taken so that all traces of the disinfectant are removed before entering the next aquatic habitat.
- 8.9. Rain Forecast.** The Designated Biologist and Permittee shall monitor the National Weather Service 72-hour forecast for the Project Area. If a 50 percent or greater chance of rainfall is predicted within 72 hours, Permittee shall cease all Covered Activities in the Project Area if initial ground or vegetation disturbance has yet to occur until no further rain is forecast. Work may continue 24 hours after the rain ceases and there is no precipitation in the 72-hour forecast. If the Project Area has been previously disturbed and surrounded by exclusion fence, Covered Activities may continue during rainfall events.
- 8.10. Covered Species Injury.** If a Covered Species is injured as a result of Project-related activities, the Designated Biologist shall immediately take it to a CDFW-approved wildlife rehabilitation or veterinary facility. Permittee shall identify the facility before starting Covered Activities. Permittee shall bear any costs associated with the care or treatment of such injured Covered Species. The Permittee shall notify CDFW of the injury to the Covered Species immediately by telephone and e-mail followed by a written incident report as described in Notification of Take or Injury above. Notification shall include the name of the facility where the animal was taken.

**9. Habitat Management Land Acquisition:** CDFW has determined that permanent protection and perpetual management of compensatory habitat is necessary and required pursuant to CESA to fully mitigate Project-related impacts of the taking on the Covered Species that will result from implementation of the Covered Activities. This determination is based on factors including an assessment of the importance of the habitat in the Project Area, the extent to which the Covered Activities will impact the habitat, and CDFW's estimate of the protected acreage required to provide for adequate compensation.

To meet this requirement, the Permittee shall purchase 1.6 acres of Covered Species upland habitat credits from a CDFW-approved mitigation or conservation bank pursuant to Covered Species Credits Condition of Approval below. Purchase of Covered Species credits must be completed before starting Covered Activities.

- 9.1. Covered Species Credits.** The Permittee shall purchase 1.6 acres of Covered Species upland habitat credits from a CDFW-approved mitigation or conservation bank prior to initiating Covered Activities. Prior to purchase of Covered Species credits, Permittee shall obtain CDFW approval to ensure the mitigation or conservation bank is appropriate to compensate for the impacts of the Project. Permittee shall submit to CDFW a copy of the Bill of Sale(s) and Payment Receipt prior to initiating Covered Activities.

**IX. Amendment:**

This ITP may be amended as provided by California Code of Regulations, Title 14, section 783.6, subdivision (c), and other applicable law. This ITP may be amended without the concurrence of the Permittee as required by law, including if CDFW determines that continued implementation of the Project as authorized under this ITP would jeopardize the continued existence of the Covered Species or where Project changes or changed biological conditions necessitate an ITP amendment to ensure that all Project-related impacts of the taking to the Covered Species are minimized and fully mitigated.

**X. Stop-Work Order:**

If CDFW determines the Permittee has violated any term or condition of this ITP or has engaged in unlawful take, CDFW may issue Permittee a written stop-work order instructing the Permittee to suspend any Covered Activity for an initial period of up to 30 days or risk suspension or revocation of this ITP. CDFW can issue a stop-work order to prevent or remedy a violation of this ITP, including but not limited to the failure to comply with reporting or monitoring obligations, or to prevent the unauthorized take of any CESA endangered, threatened, or candidate species, regardless of whether that species is a Covered Species under this ITP. Permittee shall stop work immediately as directed by CDFW upon receipt of any such stop-work order. Upon written notice to Permittee, CDFW may extend any stop-work order issued to Permittee for a period not to exceed 30 additional days.

If Permittee fails to remedy the violation or to comply with a stop-work order, CDFW may proceed with suspension and revocation of this ITP. Suspension and revocation of this ITP shall be governed by California Code of Regulations, Title 14, section 783.7, and any other applicable law. Neither the Designated Biologist nor CDFW shall be liable for any costs incurred in complying with stop-work orders.

**XI. Compliance with Other Laws:**

This ITP sets forth CDFW's requirements for the Permittee to implement the Project pursuant to CESA. This ITP does not necessarily create an entitlement to proceed with the Project. Permittee is responsible for complying with all other applicable federal, state, and local law.



**XII. Notices:**

Written notices, reports and other communications relating to this ITP shall be delivered to CDFW by email or registered first class mail at the following address, or at addresses CDFW may subsequently provide the Permittee. Notices, reports, and other communications shall reference the Project name, Permittee, and ITP Number (2081-2022-068-04) in a cover letter and on any other associated documents.

Original cover with attachment(s) to:

Julie A. Vance, Regional Manager  
California Department of Fish and Wildlife  
Central Region (R4)  
1234 East Shaw Avenue  
Fresno, California 93710  
[R4CESA@wildlife.ca.gov](mailto:R4CESA@wildlife.ca.gov)

and a copy to:

Habitat Conservation Planning Branch  
California Department of Fish and Wildlife  
[CESA@wildlife.ca.gov](mailto:CESA@wildlife.ca.gov)

Unless Permittee is notified otherwise, CDFW's Regional Representative for purposes of addressing issues that arise during implementation of this ITP is:

Stephanie Manzo  
California Department of Fish and Wildlife  
1234 East Shaw Avenue  
Fresno, California 95370  
Telephone (559) 578-0409  
[Stephanie.Manzo@wildlife.ca.gov](mailto:Stephanie.Manzo@wildlife.ca.gov)

**XIII. Compliance with the California Environmental Quality Act:**

CDFW's issuance of this ITP is subject to CEQA. CDFW is a responsible agency pursuant to CEQA with respect to this ITP because of prior environmental review of the Project by the lead agency, Madera Water District. (See generally Pub. Resources Code, §§ 21067, 21069.) The lead agency's prior environmental review of the Project is set forth in the Madera Lake Pump and Pipeline Project Draft Initial Study/Mitigated Negative Declaration, (SCH No.: 2022090367) dated September 2022 that the Madera Water District adopted for Madera Lake Pump and Pipeline Project on November 09, 2022. At the time the lead agency adopted the Mitigated Negative Declaration and approved the Project it also adopted various mitigation measures for the Covered Species as conditions of Project approval.

This ITP, along with CDFW's related CEQA findings, which are available as a separate document, provide evidence of CDFW's consideration of the lead agency's Mitigated

Incidental Take Permit  
No. 2081-2022-068-04  
**MADERA WATER DISTRICT**  
**MADERA LAKE PUMP AND PIPELINE PROJECT**

Negative Declaration for the Project and the environmental effects related to issuance of this ITP (CEQA Guidelines, § 15096, subd. (f)). CDFW finds that issuance of this ITP will not result in any previously undisclosed potentially significant effects on the environment or a substantial increase in the severity of any potentially significant environmental effects previously disclosed by the lead agency. Furthermore, to the extent the potential for such effects exists, CDFW finds adherence to and implementation of the Conditions of Project Approval adopted by the lead agency, and that adherence to and implementation of the Conditions of Approval imposed by CDFW through the issuance of this ITP, will avoid or reduce to below a level of significance any such potential effects. CDFW consequently finds that issuance of this ITP will not result in any significant, adverse impacts on the environment.

#### **XIV. Findings Pursuant to CESA:**

These findings are intended to document CDFW's compliance with the specific findings requirements set forth in CESA and related regulations. (Fish & G. Code § 2081, subs. (b)-(c); Cal. Code Regs., tit. 14, §§ 783.4, subds, (a)-(b), 783.5, subd. (c)(2).)

CDFW finds based on substantial evidence in the ITP application, Madera Lake Pump and Pipeline Project Draft Initial Study / Mitigated Negative Declaration, email correspondence, the results of consultations, and the administrative record of proceedings, that issuance of this ITP complies and is consistent with the criteria governing the issuance of ITPs pursuant to CESA:

- (1) Take of Covered Species as defined in this ITP will be incidental to the otherwise lawful activities covered under this ITP;
- (2) Impacts of the taking on Covered Species will be minimized and fully mitigated through the implementation of measures required by this ITP and as described in the MMRP. Measures include: (1) permanent habitat protection; (2) establishment of avoidance zones; (3) worker education; and (4) Monthly and Annual Compliance Reports. CDFW evaluated factors including an assessment of the importance of the habitat in the Project Area, the extent to which the Covered Activities will impact the habitat, and CDFW's estimate of the acreage required to provide for adequate compensation. Based on this evaluation, CDFW determined that the protection and management in perpetuity of 1.6 acres of compensatory habitat that is contiguous with other protected Covered Species habitat and/or is of higher quality than the habitat being destroyed by the Project, along with the minimization, monitoring, reporting, and funding requirements of this ITP minimizes and fully mitigates the impacts of the taking caused by the Project;
- (3) The take avoidance and mitigation measures required pursuant to the conditions of this ITP and its attachments are roughly proportional in extent to the impacts of the taking authorized by this ITP;
- (4) The measures required by this ITP maintain Permittee's objectives to the greatest extent possible;

Incidental Take Permit  
No. 2081-2022-068-04  
**MADERA WATER DISTRICT**  
**MADERA LAKE PUMP AND PIPELINE PROJECT**

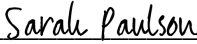
- (5) All required measures are capable of successful implementation;
- (6) This ITP is consistent with any regulations adopted pursuant to Fish and Game Code sections 2112 and 2114;
- (7) Permittee has ensured adequate funding to implement the measures required by this ITP as well as for monitoring compliance with, and the effectiveness of, those measures for the Project; and
- (8) Issuance of this ITP will not jeopardize the continued existence of the Covered Species based on the best scientific and other information reasonably available, and this finding includes consideration of the species' capability to survive and reproduce, and any adverse impacts of the taking on those abilities in light of (1) known population trends; (2) known threats to the species; and (3) reasonably foreseeable impacts on the species from other related projects and activities. Moreover, CDFW's finding is based, in part, on CDFW's express authority to amend the terms and conditions of this ITP without concurrence of the Permittee as necessary to avoid jeopardy and as required by law.

**XV. Attachments:**

Figure 1	Site Location
Figure 2	Sie Quadrangle
Figure 3	Habitat Types
Figure 4	Areas of CTS Habitat Impacts A
Figure 5	Areas of CTS Habitat Impacts B
ATTACHMENT 1	Mitigation Monitoring and Reporting Program
ATTACHMENT 2	Biologist Resume Form
ATTACHMENT 3	Letter of Credit Form

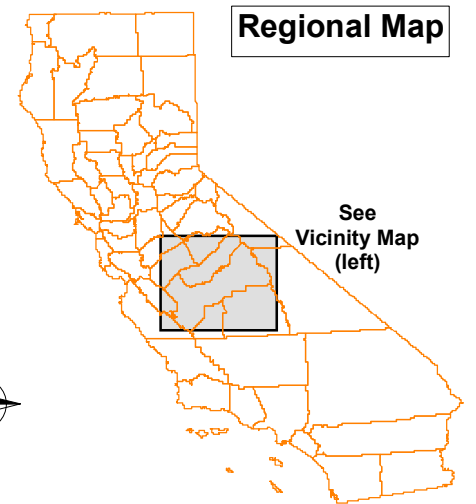
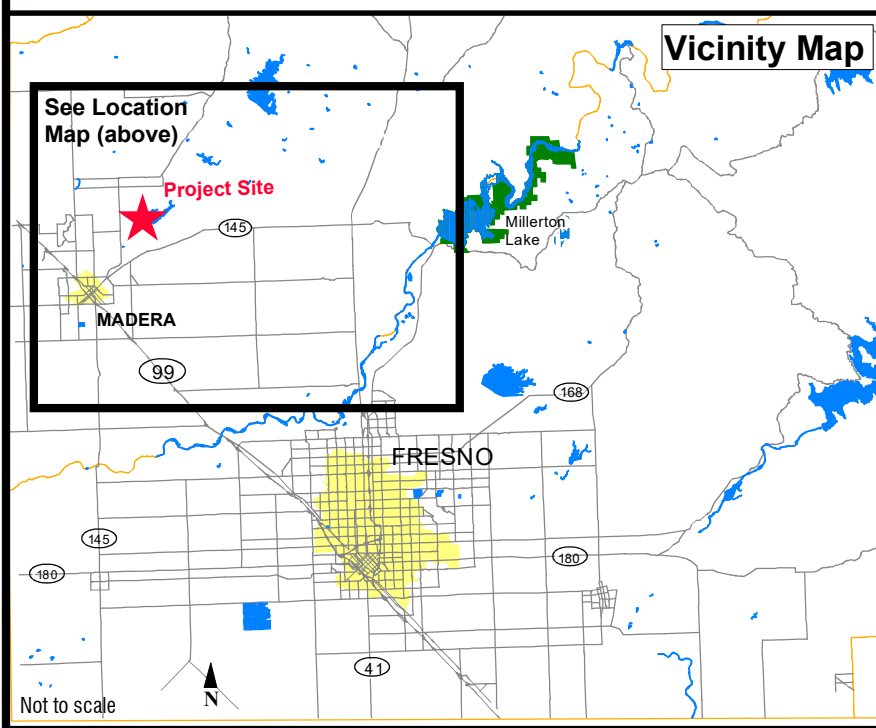
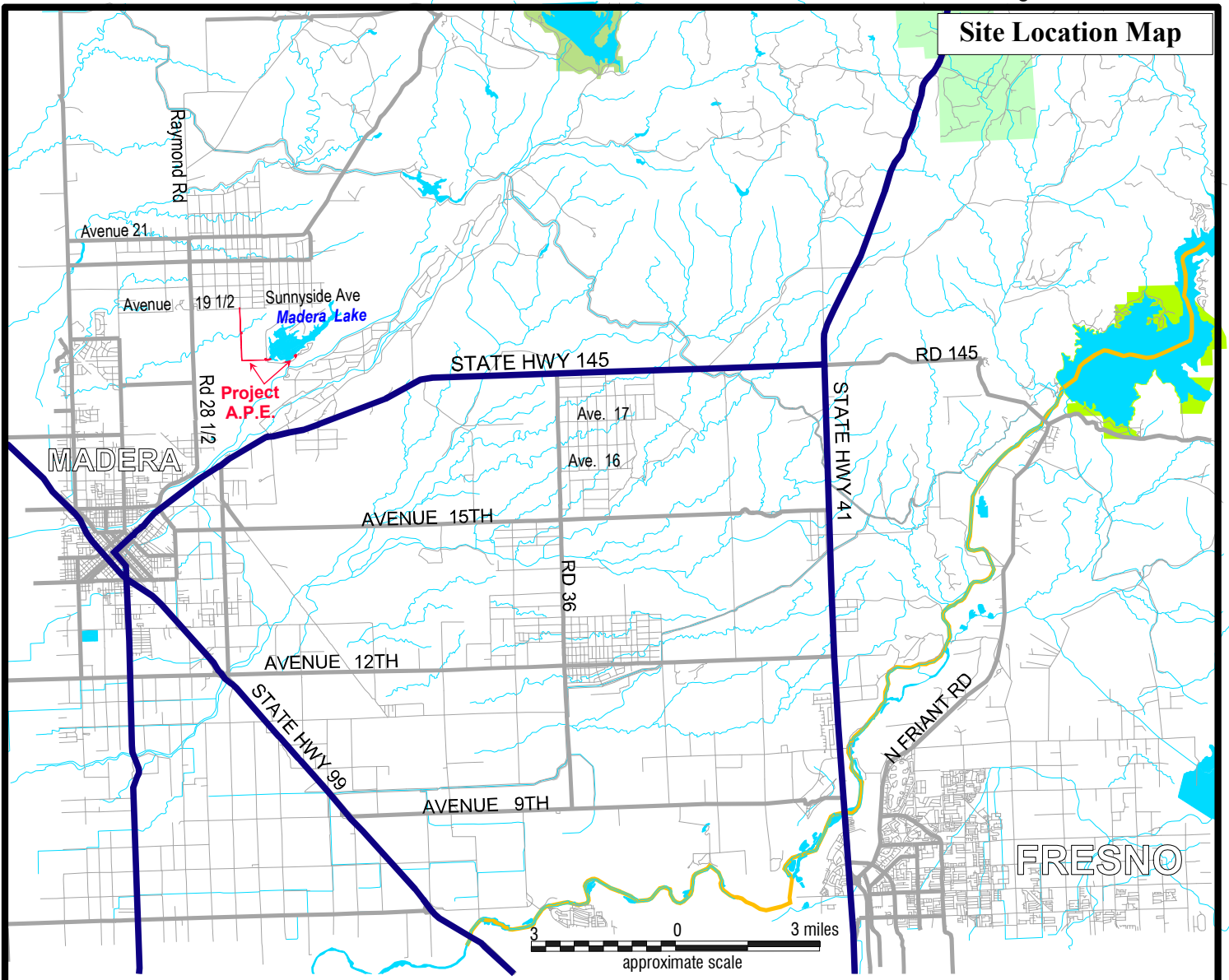
**ISSUED BY THE CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE**

**ON** 5/30/2024

DocuSigned by:  
  
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 for Julie A. Vance, Regional Manager  
 Central Region (R4)

Incidental Take Permit  
 No. 2081-2022-068-04  
**MADERA WATER DISTRICT**  
**MADERA LAKE PUMP AND PIPELINE PROJECT**

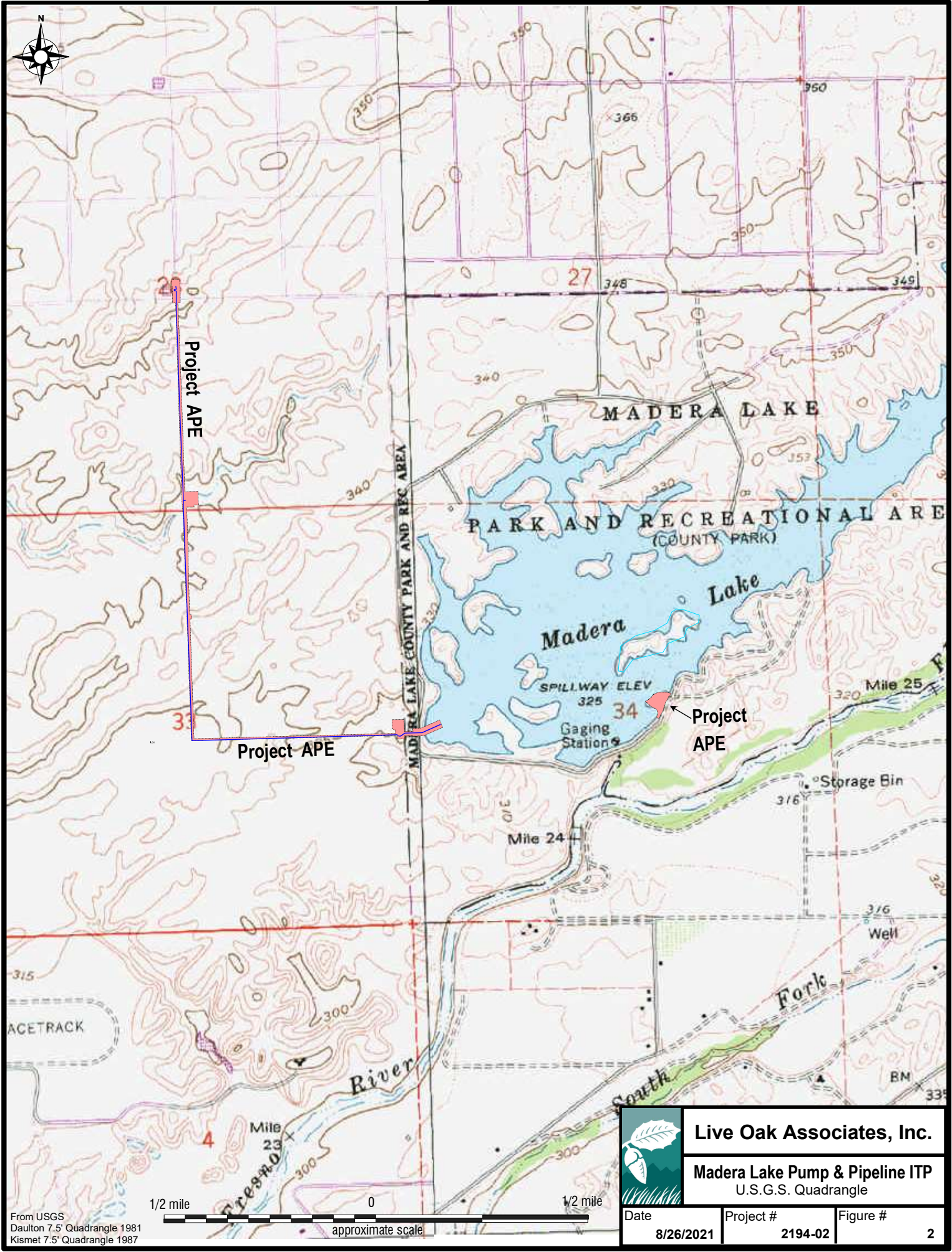
Figure 1. Site Location



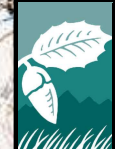
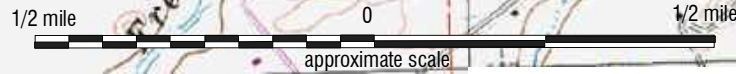
**Live Oak Associates, Inc.**

**Madera Lake Pump & Pipeline ITP**  
Site / Vicinity Map

Date	Project #	Figure #
8/26/2021	2194-02	1



From USGS  
 Daulton 7.5' Quadrangle 1981  
 Kismet 7.5' Quadrangle 1987



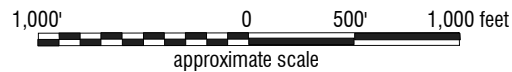
**Live Oak Associates, Inc.**  
**Madera Lake Pump & Pipeline ITP**  
 U.S.G.S. Quadrangle

Date	Project #	Figure #
8/26/2021	2194-02	2

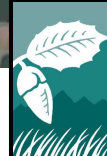


LEGEND

- Project APE
- Ruderal Pool (Potential Breeding Habitat)
- Annual Grassland (Potential Aestivation Habitat)



U.S.D.A. National Agriculture Imagery Program (NAIP) AFPO 12/17/2018

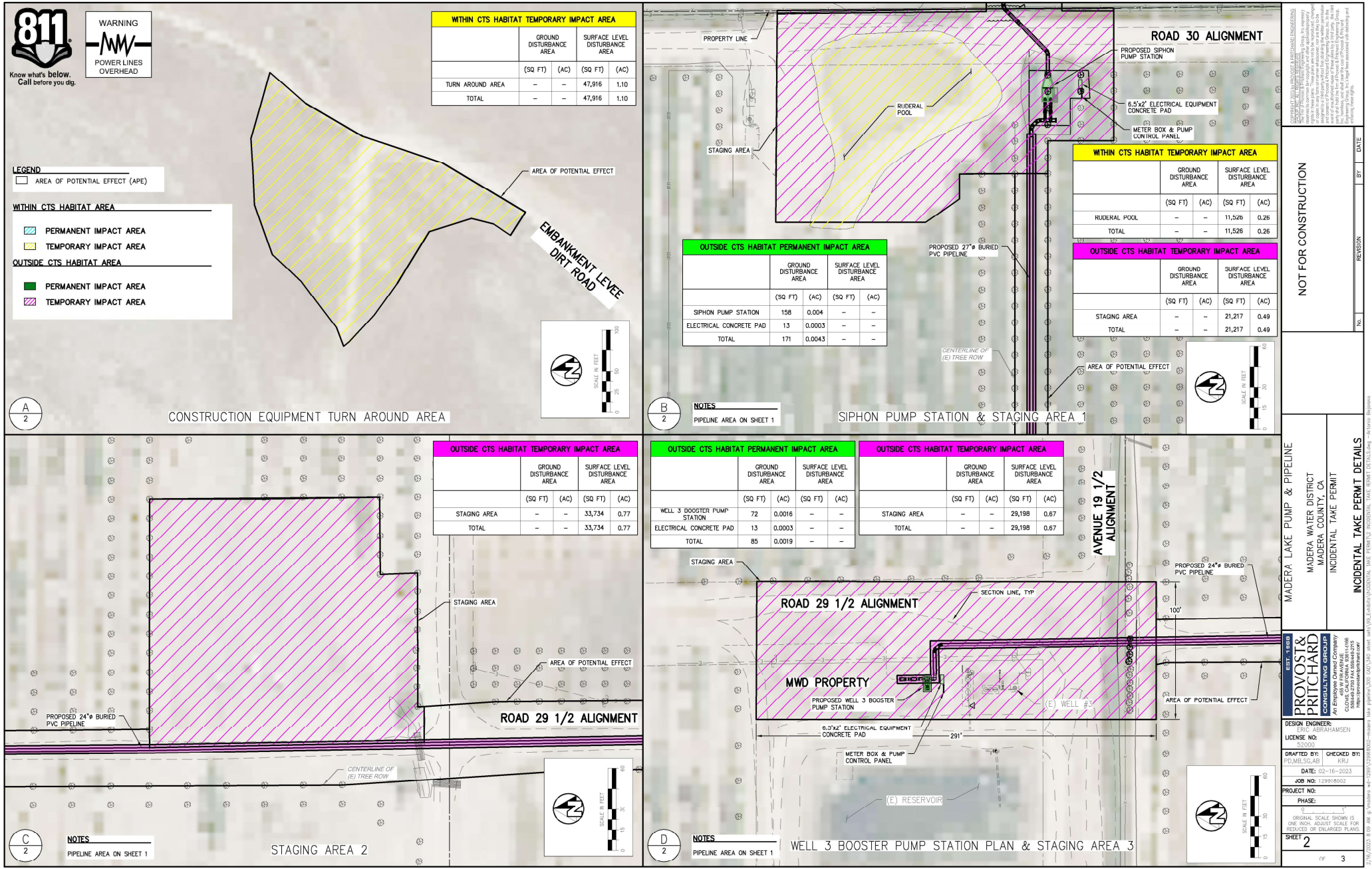


**Live Oak Associates, Inc.**

**Madera Lake Pump & Pipeline ITP**  
Potential CTS Habitat

Date	Project #	Figure #
8/26/2021	2194-02	3

Figure 4. Areas of CTS Habitat Impacts A



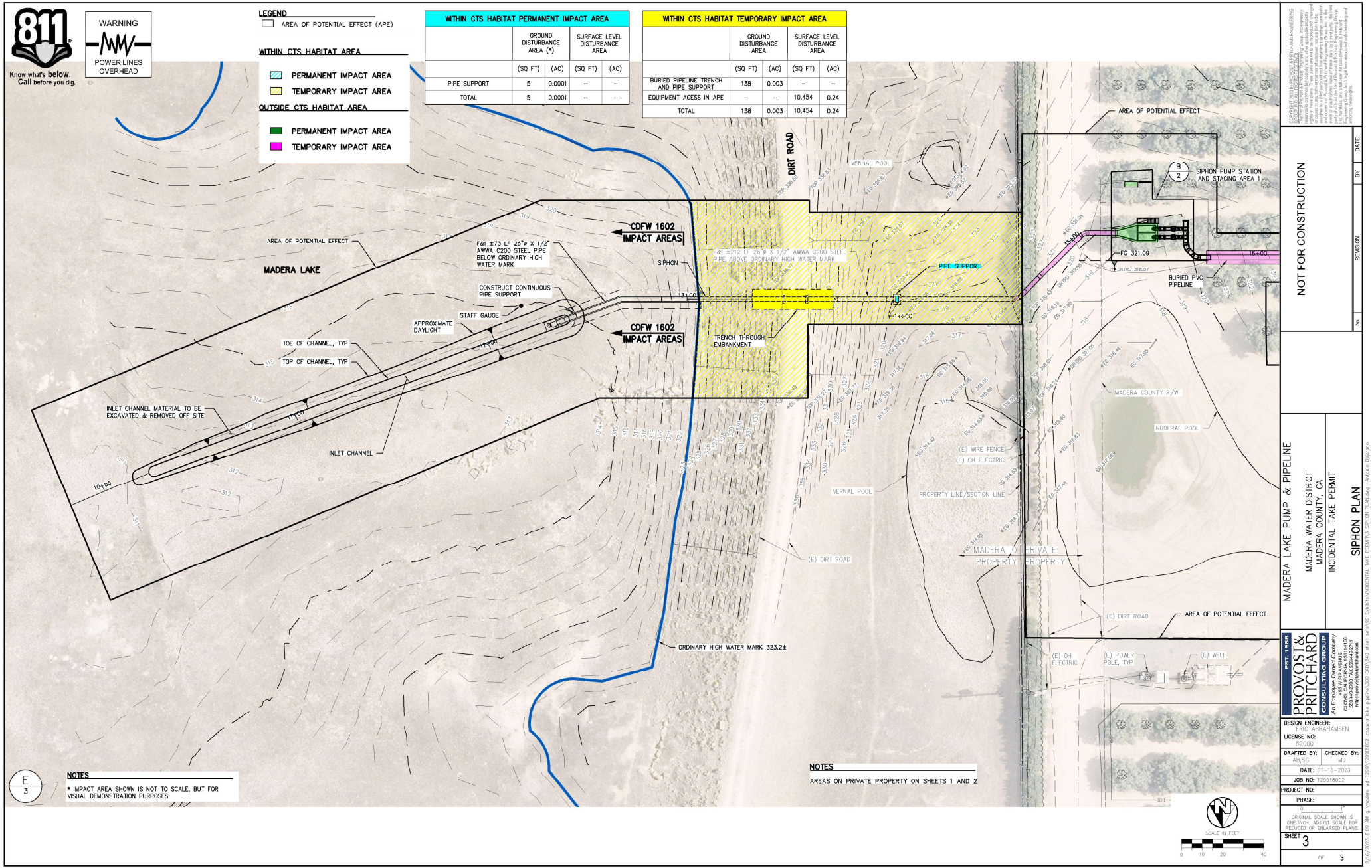
NOT FOR CONSTRUCTION

MADERA LAKE PUMP & PIPELINE  
MADERA WATER DISTRICT  
MADERA COUNTY, CA  
INCIDENTAL TAKE PERMIT  
INCIDENTAL TAKE PERMIT DETAILS

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ERIC A. HANSEN  
LICENSE NO. 52504  
DRAFTED BY: PCL/MB, SC/AB  
CHECKED BY: R/RJ  
DATE: 02-16-2023  
JOB NO: 129915002  
PROJECT NO:  
PHASE: 1  
ORIGINAL SCALE SHOWN IS ONE INCH. ADJUST SCALE FOR REDUCED OR ENLARGED PLANS.  
SHEET 2  
OF 3

Figure 5. Areas of CTS Habitat Impacts B





**Attachment 1**

**CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE  
MITIGATION MONITORING AND REPORTING PROGRAM (MMRP)  
CALIFORNIA ENDANGERED SPECIES ACT**

**INCIDENTAL TAKE PERMIT NO. 2081-2022-068-04**

**PERMITTEE: Madera Water District**

**PROJECT: Madera Lake Pump and Pipeline**

**PURPOSE OF THE MMRP**

The purpose of the MMRP is to ensure that the impact minimization and mitigation measures required by the Department of Fish and Wildlife (CDFW) for the above-referenced Project are properly implemented, and thereby to ensure compliance with section 2081(b) of the Fish and Game Code and section 21081.6 of the Public Resources Code. A table summarizing the mitigation measures required by CDFW is attached. This table is a tool for use in monitoring and reporting on implementation of mitigation measures, but the descriptions in the table do not supersede the mitigation measures set forth in the California Incidental Take Permit (ITP) and in attachments to the ITP, and the omission of a permit requirement from the attached table does not relieve the Permittee of the obligation to ensure the requirement is performed.

**OBLIGATIONS OF PERMITTEE**

Mitigation measures must be implemented within the time periods indicated in the table that appears below. Permittee has the primary responsibility for monitoring compliance with all mitigation measures and for reporting to CDFW on the progress in implementing those measures. These monitoring and reporting requirements are set forth in the ITP itself and are summarized at the front of the attached table.

**VERIFICATION OF COMPLIANCE, EFFECTIVENESS**

CDFW may, at its sole discretion, verify compliance with any mitigation measure or independently assess the effectiveness of any mitigation measure.

## **TABLE OF MITIGATION MEASURES**

The following items are identified for each mitigation measure: Mitigation Measure, Source, Implementation Schedule, Responsible Party, and Status/Date/Initials. The Mitigation Measure column summarizes the mitigation requirements of the ITP. The Source column identifies the ITP condition that sets forth the mitigation measure. The Implementation Schedule column shows the date or phase when each mitigation measure will be implemented. The Responsible Party column identifies the person or agency that is primarily responsible for implementing the mitigation measure. The Status/Date/Initials column shall be completed by the Permittee during preparation of each Status Report and the Final Mitigation Report and must identify the implementation status of each mitigation measure, the date that status was determined, and the initials of the person determining the status.

	Mitigation Measure	Source	Implementation Schedule	Responsible Party	Status / Date / Initials
<b>BEFORE DISTURBING SOIL OR VEGETATION</b>					
1	<u>Designated Representative</u> . Before starting Covered Activities, Permittee shall designate a representative (Designated Representative) responsible for communications with CDFW and overseeing compliance with the ITP. Permittee shall notify CDFW in writing before starting Covered Activities of the Designated Representative's name, business address, and contact information, and shall notify CDFW in writing if a substitute Designated Representative is selected or identified at any time during the term of the ITP.	ITP Condition # 6.1	Before commencing ground- or vegetation-disturbing activities/ Entire Project	Permittee	
2	<u>Designated Biologist(s) and Designated Monitor(s)</u> . Designated Biologist(s), and Biological Monitor(s). Permittee shall submit to CDFW in writing the name, qualifications, business address, and contact information of the Designated Biologist(s) and Biological Monitor(s) using the Biologist Resume Form (ATTACHMENT 2) or another format containing the same information at least 30 days before starting Covered Activities. Permittee shall ensure that the Designated Biologist(s) and Biological Monitor(s) are knowledgeable and experienced in the biology, natural history, collecting and handling of the Covered Species. The Designated Biologist(s) and Biological Monitor(s) shall be responsible for monitoring Covered Activities to help minimize and fully mitigate or avoid the incidental take of individual Covered Species and to minimize disturbance of Covered Species' habitat. Permittee shall obtain CDFW approval of the Designated Biologist(s) and Biological Monitor(s) in writing before starting Covered Activities and shall also obtain approval in advance, in writing, if the Designated Biologist(s) or Biological Monitor(s) must be changed.	ITP Condition # 6.2	Before commencing ground- or vegetation-disturbing activities	Permittee	
3	<u>Education Program</u> . Permittee shall conduct an education program for all persons employed or otherwise working in the Project Area before performing any work. The program shall consist of a presentation from the Designated Biologist that includes a discussion of the biology and general behavior of the Covered Species, information about the distribution and habitat needs of the Covered Species, sensitivity of the Covered Species to human activities, its status pursuant to CESA including legal protection, recovery efforts, penalties for violations and Project-specific protective measures described in this ITP. Permittee shall prepare and distribute wallet-sized cards or a fact sheet handout containing this information for workers to carry in the Project Area. Permittee shall provide interpretation for non-English speaking workers, and the same instruction shall be provided to any new workers before they are authorized to perform work in the Project Area. Upon completion of the program, employees shall sign a form stating they attended the program and understand all protection measures. This training shall be repeated at least once annually for long-term and/or permanent employees that will be conducting work in the Project Area.	ITP Condition # 6.4	Before commencing ground- or vegetation-disturbing activities / Entire Project	Permittee	
4	<u>Trash Abatement</u> . Permittee shall initiate a trash abatement program before starting Covered Activities and shall continue the program for the duration of the Project. Permittee shall ensure that trash and food items are contained in animal-proof containers and removed, ideally at daily intervals but at least once a week, to avoid attracting opportunistic predators such as ravens, coyotes, and feral dogs.	ITP Condition # 6.6	Before commencing ground- or vegetation-disturbing activities / Entire Project	Permittee	

	<b>Mitigation Measure</b>	<b>Source</b>	<b>Implementation Schedule</b>	<b>Responsible Party</b>	<b>Status / Date / Initials</b>
5	<u>Dust Control</u> . Permittee shall implement dust control measures during Covered Activities to facilitate visibility for monitoring of the Covered Species by the Designated Biologist. Permittee shall keep the amount of water used to the minimum amount needed and shall not allow water to form puddles.	ITP Condition # 6.7	Before commencing ground- or vegetation-disturbing activities/ Entire Project	Permittee	
6	<u>Delineation of Property Boundaries</u> . Before starting Covered Activities along each part of the route in active construction, Permittee shall clearly delineate the boundaries of the Project Area with fencing, stakes, or flags. Permittee shall restrict all Covered Activities to within the fenced, staked or flagged areas. Permittee shall maintain all fencing, stakes and flags until the completion of Covered Activities in that area.	ITP Condition # 6.9	Before commencing ground- or vegetation-disturbing activities / Entire Project	Permittee	
7	<u>Delineation of Habitat</u> . Permittee shall clearly delineate habitat of the Covered Species within the Project Area with posted signs, posting stakes, flags, and/or rope or cord, and place fencing as necessary to minimize the disturbance of Covered Species' habitat.	ITP Condition # 6.10	Before commencing ground- or vegetation-disturbing activities / Entire Project	Permittee	
8	<u>Notification Before Commencement</u> . The Designated Representative shall notify CDFW 14 calendar days before starting Covered Activities and shall document compliance with all pre-Project Conditions of Approval before starting Covered Activities.	ITP Condition # 7.1	Before commencing ground- or vegetation-disturbing activities	Permittee	
9	<u>CTS Pre-Activity Clearance Surveys</u> . No more than 14 days prior to any vegetation- or ground-disturbing activities in the Project Area, the Designated Biologist shall survey the Project Area for CTS. These surveys shall provide 100 percent visual coverage of the potential habitat (including burrow and crevice openings) at the Project Area as well as a 50-foot buffer zone around the Project Area. If CTS individuals are found, the Designated Biologists(s) shall relocate them from the Project Area in accordance with the CDFW-approved <u>CTS Mortality Reduction and Relocation Plan</u> . The Permittee shall provide the survey results to CDFW in a written report prior to the beginning of Covered Activities within the Project Area.	ITP Condition # 8.1	Before commencing ground- or vegetation-disturbing activities	Permittee	
10	<u>CTS Mortality Reduction and Relocation Plan</u> . The Designated Biologist shall prepare a CTS Mortality Reduction and Relocation Plan and submit it to CDFW for approval prior to the beginning of Covered Activities. The CTS Mortality Reduction and Relocation Plan shall include, but not be limited to, a discussion (and map) of the portion of the Project Area which represents potential upland habitat; the area within 1.3 miles of known or potential breeding habitat for CTS; an identification of survey, capture, handling, and relocation methods; identification of relocation areas; and identification of a wildlife rehabilitation center or veterinary facility and submit it to CDFW for written approval prior to the start of Covered Activities. Covered Activities within the Project Area may not proceed until the CTS Mortality Reduction and Relocation Plan is approved in writing by CDFW.	ITP Condition #8.2	Before commencing ground- or vegetation-disturbing activities	Permittee	
11	<u>Flag Burrows/Crevices</u> . During the <u>CTS Pre-Activity Clearance Surveys</u> , the Designated Biologist shall flag all animal burrows and crevices suitable for CTS occupancy within the Project Area. Flagged burrows/crevices which occur within 600 meters of known or potential breeding habitat and which cannot be avoided shall be fully excavated in accordance with <u>Burrow and Crevice Excavation</u> Condition of Approval below.	ITP Condition #8.3	Before commencing ground- or vegetation-disturbing activities	Permittee	

	<b>Mitigation Measure</b>	<b>Source</b>	<b>Implementation Schedule</b>	<b>Responsible Party</b>	<b>Status / Date / Initials</b>
12	<p><u>Burrow and Crevice Excavation</u>. Prior to any vegetation- or ground-disturbing activities, those animal burrows and crevices identified during the <u>CTS Pre-Activity Clearance Surveys</u> and <u>Flag Burrows/Crevices</u> Condition of Approval within 600 meters of known or potential CTS breeding habitat as identified in a <u>CTS Mortality Reduction and Relocation Plan</u>, and which cannot be fully avoided, shall be fully excavated. Applicable burrows/crevices may be excavated by hand or in a manner otherwise approved by CDFW in accordance with the CDFW approved <u>CTS Mortality Reduction and Relocation Plan</u>. Burrow/crevice excavation shall occur under the direct supervision of the Designated Biologist(s).</p> <p>The Designated Biologist(s) shall relocate any live CTS discovered during burrow/crevice excavation in accordance with the <u>CTS Mortality Reduction and Relocation Plan</u> Conditions of Approval. Excavation shall occur no more than 14 days after the completion of the <u>CTS Pre-Activity Clearance Surveys</u>.</p>	ITP Condition #8.4	Before commencing ground- or vegetation-disturbing activities	Permittee	
13	<p><u>Covered Species Credits</u>. The Permittee shall purchase 1.6 acres of Covered Species upland habitat credits from a CDFW-approved mitigation or conservation bank prior to initiating Covered Activities. Prior to purchase of Covered Species credits, Permittee shall obtain CDFW approval to ensure the mitigation or conservation bank is appropriate to compensate for the impacts of the Project. Permittee shall submit to CDFW a copy of the Bill of Sale(s) and Payment Receipt prior to initiating Covered Activities.</p>	ITP Condition #9.1	Before commencing ground- or vegetation-disturbing activities	Permittee	
<b>DURING CONSTRUCTION</b>					
14	<p><u>Compliance Monitoring</u>. The Designated Biologist shall be on-site daily when Covered Activities occur. The Designated Biologist shall conduct compliance inspections a minimum of weekly inspections during periods of inactivity and after clearing, grubbing, and grading are completed. The Designated Biologist shall conduct compliance inspections to:</p> <ol style="list-style-type: none"> <li>(1) minimize incidental take of the Covered Species;</li> <li>(2) prevent unlawful take of species;</li> <li>(3) check for compliance with all measures of this ITP;</li> <li>(4) check all exclusion zones; and</li> <li>(5) ensure that signs, stakes, and fencing are intact, and that Covered Activities are only occurring in the Project Area.</li> </ol> <p>The Designated Representative or Designated Biologist shall prepare daily written observation and inspection records summarizing oversight activities and compliance inspections, observations of Covered Species and their sign, survey results, and monitoring activities required by this ITP.</p>	ITP Condition # 7.3	Entire Project	Permittee	

	<b>Mitigation Measure</b>	<b>Source</b>	<b>Implementation Schedule</b>	<b>Responsible Party</b>	<b>Status / Date / Initials</b>
15	<u>Monthly Compliance Report.</u> The Designated Representative or Designated Biologist shall compile the observation and inspection records identified in <u>Compliance Monitoring Condition of Approval</u> into a Monthly Compliance Report and submit it to CDFW along with a copy of the MMRP table with notes showing the current implementation status of each mitigation measure. Monthly Compliance Reports shall be submitted to the CDFW offices listed in the Notices section of this ITP and via e-mail to CDFW's Regional Representative and Headquarters CESA Program. At the time of this ITP's approval, the CDFW Regional Representative is Stephanie Manzo ( <a href="mailto:Stephanie.Manzo@wildlife.ca.gov">Stephanie.Manzo@wildlife.ca.gov</a> ), the CDFW regional office e-mail is <a href="mailto:R4CESA@wildlife.ca.gov">R4CESA@wildlife.ca.gov</a> , and Headquarters CESA Program email is <a href="mailto:CESA@wildlife.ca.gov">CESA@wildlife.ca.gov</a> . CDFW may at any time increase the timing and number of compliance inspections and reports required under this provision depending upon the results of previous compliance inspections. If CDFW determines the reporting schedule must be changed, CDFW will notify Permittee in writing of the new reporting schedule.	ITP Condition # 7.4	Entire Project	Permittee	
16	<u>Annual Status Report.</u> Permittee shall provide CDFW with an Annual Status Report (ASR) no later than January 31 of every year beginning with issuance of this ITP and continuing until CDFW accepts the Final Mitigation Report identified below. Each ASR shall include, at a minimum: (1) a summary of all <u>Monthly Compliance Reports</u> for that year; (2) a general description of the status of the Project Area and Covered Activities, including actual or projected completion dates, if known; (3) a copy of the table in the MMRP with notes showing the current implementation status of each mitigation measure; (4) an assessment of the effectiveness of each completed or partially completed mitigation measure in avoiding, minimizing and mitigating Project impacts; (5) all available information about Project-related incidental take of the Covered Species; (6) an accounting of the number of acres subject to both temporary and permanent disturbance, both for the prior calendar., and a total since ITP issuance; and (7) information about other Project impacts on the Covered Species.	ITP Condition # 7.5	Entire Project	Permittee	
17	<u>CNDDDB Observations.</u> The Designated Biologist shall submit all observations of Covered Species to CDFW's California Natural Diversity Database (CNDDDB) and the Designated Biologist shall include copies of the submitted forms with the next Monthly Compliance Report or ASR, whichever is submitted first relative to the observation.	ITP Condition # 7.6	Entire Project	Permittee	
18	<u>Notification of Non-compliance.</u> The Designated Representative shall immediately notify CDFW if the Permittee is not in compliance with any Condition of Approval of this ITP, including but not limited to any actual or anticipated failure to implement measures within the time periods indicated in this ITP and/or the MMRP. The Designated Representative shall follow up within 24 hours with a written report to CDFW describing, in detail, any non-compliance with this ITP and suggested measures to remedy the situation.	ITP Condition # 7.2	Entire Project	Permittee	
19	<u>Construction Monitoring Documentation.</u> The Designated Biologist(s) and Designated Monitor(s) shall maintain construction-monitoring documentation on-site in either hard copy or digital format throughout the construction period, which shall include a copy of this ITP with attachments and a list of signatures of all personnel who have successfully completed the education program. Permittee shall ensure a copy of the construction-monitoring documentation is available for review at the Project site upon request by CDFW.	ITP Condition # 6.5	Entire Project	Permittee	
20	<u>Erosion Control Materials.</u> Permittee shall prohibit use of erosion control materials potentially harmful to Covered Species and other species, such as mono-filament netting (erosion control matting) or similar material, in potential Covered Species' habitat.	ITP Condition # 6.8	Entire Project	Permittee	

	<b>Mitigation Measure</b>	<b>Source</b>	<b>Implementation Schedule</b>	<b>Responsible Party</b>	<b>Status / Date / Initials</b>
21	<u>Project Access</u> . Project-related personnel shall access the Project Area using existing routes, and shall not cross Covered Species' habitat outside of or en route to the Project Area. Permittee shall restrict Project-related vehicle traffic to established roads, staging, and parking areas. Permittee shall ensure that vehicle speeds do not exceed 20 miles per hour to avoid Covered Species on or traversing the roads. If Permittee determines construction of routes for travel are necessary outside of the Project Area, the Designated Representative shall contact CDFW for written approval before carrying out such an activity. CDFW may require an amendment to this ITP, among other reasons, if additional take of Covered Species will occur as a result of the Project modification.	ITP Condition # 6.11	Entire Project	Permittee	
22	<u>Project Access</u> . Permittee shall confine all Project-related parking, storage areas, laydown sites, equipment storage, and any other surface-disturbing activities to the Project Area using, to the extent possible, previously disturbed areas. Additionally, Permittee shall not use or cross Covered Species' habitat outside of the marked Project Area unless provided for as described in <u>Project Access</u> of this ITP.	ITP Condition # 6.12	Entire Project	Permittee	
23	<u>Hazardous Waste</u> . Permittee shall immediately stop and, pursuant to pertinent state and federal statutes and regulations, arrange for repair and clean up by qualified individuals of any fuel or hazardous waste leaks or spills at the time of occurrence, or as soon as it is safe to do so. Permittee shall exclude the storage and handling of hazardous materials from the Project Area and shall properly contain and dispose of any unused or leftover hazardous products off-site.	ITP Condition # 6.13	Entire Project	Permittee	
24	Permittee shall provide CDFW staff with reasonable access to the Project and mitigation lands under Permittee control, and shall otherwise fully cooperate with CDFW efforts to verify compliance with or effectiveness of mitigation measures set forth in this ITP.	ITP Condition # 6.14	Entire Project	Permittee	
25	<u>Refuse Removal</u> . Upon completion of Covered Activities, Permittee shall remove from the Project Area and properly dispose of all temporary fill and construction refuse, including, but not limited to, broken equipment parts, wrapping material, cords, cables, wire, rope, strapping, twine, buckets, metal or plastic containers, and boxes.	ITP Condition # 6.15	Entire Project	Permittee	
26	<u>Open Excavations</u> . The Designated Biologist(s) shall inspect all open holes, sumps, and trenches within the Project Area at the beginning and end of each workday (including once daily on any other non-workdays) for trapped CTS to prevent inadvertent entrapment. All open trenches, holes, sumps, and other excavations with sidewalls steeper than a 1:1 (45 degree) slope shall have an escape ramp of earth or a non-slip material with a less than 1:1 (45 degree) slope. At the end of each workday, Project workers shall ensure all trenches, holes, sumps, or other excavations with sidewalls steeper than a 1:1 (45 degree) slope of any depth are covered with barrier material (e.g., hardware cloth) such that animals are unable to dig or squeeze under the barrier and become entrapped. The outer two feet of excavation cover shall conform to solid ground so that gaps do not occur between the cover and the ground, and the excavation cover shall be secured with soil staples or by similar means to prevent gaps. Project workers shall also thoroughly inspect all open trenches, holes, sumps, or other excavations for CTS (or other wildlife) before they are backfilled. If any Project worker discovers that CTS have become trapped, Permittee shall cease all Covered Activities in the vicinity and notify the Designated Biologist(s) immediately. Project workers and the Designated Biologist(s) shall allow CTS to escape unimpeded, if possible, before Covered Activities are allowed to continue, or the Designated Biologist(s) may capture and relocate the CTS as per the <u>CTS Mortality Reduction and Relocation Plan</u> .	ITP Condition # 8.5	Entire Project	Permittee	

	<b>Mitigation Measure</b>	<b>Source</b>	<b>Implementation Schedule</b>	<b>Responsible Party</b>	<b>Status / Date / Initials</b>
27	<u>CTS Record of Observations and Handling</u> . All CTS captures, relocations, and observations by the Designated Biologist(s) shall include the following documented information: the date, time, and location of each occurrence using Global Positioning System (GPS) technology; the name of the party that actually identified the CTS; circumstances of the incident; the general condition and health of each individual; any diagnostic markings, sex, age (juvenile or adult); actions undertaken; and habitat description. Permittee shall also submit this information to the CNDDB as per <u>CNDDB Observations</u> Condition of Approval. This information should also be included in the <u>Monthly Compliance Report</u> and <u>Annual Status Report</u> .	ITP Condition # 8.6	Entire Project	Permittee	
28	<u>Dry Season Work</u> . Ground-disturbing activities within or immediately adjacent (within 50 feet) to potential CTS breeding habitat shall not occur until the pools are dry.	ITP Condition #8.7	Entire Project	Permittee	
29	<u>Fieldwork Code of Practice</u> . To ensure that disease is not conveyed to or from the Project Area by the Designated Biologist(s) or Designated Monitors(s), the Fieldwork Code of Practice developed by the Declining Amphibian Populations Task Force (see Attachment 3) shall be followed at all times. The Designated Biologist(s) or Designated Monitor(s) may substitute a bleach solution (0.5 to 1.0 cup of bleach to 1.0 gallon of water) for the ethanol solution. Care shall be taken so that all traces of the disinfectant are removed before entering the next aquatic habitat.	ITP Condition #8.8	Entire Project	Permittee	
30	<u>Rain Forecast</u> . The Designated Biologist and Permittee shall monitor the National Weather Service 72-hour forecast for the Project Area. If a 50 percent or greater chance of rainfall is predicted within 72 hours, Permittee shall cease all Covered Activities in the Project Area if initial ground or vegetation disturbance has yet to occur until no further rain is forecast. Work may continue 24 hours after the rain ceases and there is no precipitation in the 72-hour forecast. If the Project Area has been previously disturbed and surrounded by exclusion fence, Covered Activities may continue during rainfall events.	ITP Condition #8.9	Entire Project	Permittee	
31	<u>Covered Species Injury</u> . If a Covered Species is injured as a result of Project-related activities, the Designated Biologist shall immediately take it to a CDFW-approved wildlife rehabilitation or veterinary facility. Permittee shall identify the facility before starting Covered Activities. Permittee shall bear any costs associated with the care or treatment of such injured Covered Species. The Permittee shall notify CDFW of the injury to the Covered Species immediately by telephone and e-mail followed by a written incident report as described in <u>Notification of Take or Injury</u> above. Notification shall include the name of the facility where the animal was taken.	ITP Condition # 8.10	Entire Project	Permittee	
32	<u>Notification of Take or Injury</u> . Permittee shall immediately notify the Designated Biologist if a Covered Species is taken or injured by a Project-related activity, or if a Covered Species is otherwise found dead or injured within the vicinity of the Project. The Designated Biologist or Designated Representative shall provide initial notification to CDFW by calling the Regional Office at (559) 243-4005. The initial notification to CDFW shall include information regarding the location, species, and number of animals taken or injured and the ITP Number. Following initial notification, Permittee shall send CDFW a written report within two calendar days. The report shall include the date and time of the finding or incident, location of the animal or carcass, and if possible, provide a photograph, explanation as to cause of take or injury, and any other pertinent information.	ITP Condition #7.8	Entire Project	Permittee	



	Mitigation Measure	Source	Implementation Schedule	Responsible Party	Status / Date / Initials
33	<u>Designated Biologist Authority.</u> To ensure compliance with the Conditions of Approval of this ITP, the Designated Biologist shall immediately stop any activity that does not comply with this ITP and/or order any reasonable measure to avoid the unauthorized take of an individual of the Covered Species. Permittee shall provide unfettered access to the Project Site and otherwise facilitate the Designated Biologist in the performance of his/her duties. If the Designated Biologist is unable to comply with the ITP, then the Designated Biologist shall notify the CDFW Representative immediately. Permittee shall not enter into any agreement or contract of any kind, including but not limited to non-disclosure agreements and confidentiality agreements, with its contractors and/or the Designated Biologist that prohibit or impede open communication with CDFW, including but not limited to providing CDFW staff with the results of any surveys, reports, or studies or notifying CDFW of any non-compliance or take. Failure to notify CDFW of any non-compliance or take or injury of a Covered Species as a result of such agreement or contract may result in CDFW taking actions to prevent or remedy a violation of this ITP.	ITP Condition # 6.3	Entire Project	CDFW	
<b>POST-CONSTRUCTION</b>					
34	<u>Refuse Removal.</u> Upon completion of Covered Activities, Permittee shall remove from the Project Area and properly dispose of all temporary fill and construction refuse, including, but not limited to, broken equipment parts, wrapping material, cords, cables, wire, rope, strapping, twine, buckets, metal or plastic containers, and boxes.	ITP Condition # 6.15	Post-construction	Permittee	
35	<u>Final Mitigation Report.</u> No later than 45 days after completion of all mitigation measures, Permittee shall provide CDFW with a Final Mitigation Report. The Designated Biologist shall prepare the Final Mitigation Report which shall include, at a minimum: (1) a summary of all Monthly Compliance Reports and all ASRs; (2) a copy of the table in the MMRP with notes showing when each of the mitigation measures was implemented; (3) all available information about Project-related incidental take of the Covered Species; (4) information about other Project impacts on the Covered Species; (5) beginning and ending dates of Covered Activities; (6) an assessment of the effectiveness of this ITP's Conditions of Approval in minimizing and fully mitigating Project impacts of the taking on Covered Species; (7) recommendations on how mitigation measures might be changed to more effectively minimize take and mitigate the impacts of future projects on the Covered Species; and (8) any other pertinent information.	ITP Condition # 7.7	Post-construction and after completion of mitigation	Permittee	

**\*\*\* Please Note: While use of this form is not mandatory, CDFW strongly recommends completing this form as it will ensure the receipt of adequate information and expedite CDFW review of biologist's qualifications. \*\*\***

**Name of Biologist & Contact Information**

**Education:** (include year graduated)

**Training/Workshops:** (be prepared to provide copies of certificates upon request; these should be related to the Covered Species (or similar species) in the Incidental Take Permit)

**Certifications:** (please provide any copies of a CDFW Scientific Collecting Permit, MOU, or USFWS 10(a)(1)(A)) permit; these should be related to the Covered Species (or similar species) in the Incidental Take Permit)

**Species Name #1: (Example: California Tiger Salamander)**

Project Name #1 (list the information below for all projects (separately) where biologist worked with this species; projects may be listed more than once under each separate species and please only include projects on the resume that demonstrate experience with the Covered Species (or similar species) in the ITP)

Location:

Project date completed: To and from date (month and year)

Incidental Take Permit (ITP) # (and Other Agency Permits):

Lead biologist Information: Name and contact information (phone number and email address)

Reference: Name and contact information, if different from above (phone number and email address)

Work description:

Estimated Survey Hours:

Estimated Monitoring Hours:

Individuals Observed: # of adults and # of juveniles

Individuals Handled: # of adults and # of juveniles

Burrows excavated:

Project Name #2

Location:

Project date completed: To and from date

Incidental Take Permit # (and Other Agency Permits):

Lead biologist Information: Name and contact information (phone number and email address)

Reference: Name and contact information, if different from above (phone number and email address)

Work description:

Estimated Survey Hours:

Estimated Monitoring Hours:

Individuals Observed: # of adults and # of juveniles

Individuals Handled: # of adults and # of juveniles

Burrows excavated:

Project Name #3 ...

**Species Name #2: (Example: Similar or related species to CTS)**

Project Name #1 (list the information below for all projects (separately) where the biologist worked with this species)

Location:

Project date completed: To and from date

Incidental Take Permit # (and Other Agency Permits):

Lead biologist Information: Name and contact information (phone number and email address)

Reference: Name and contact information, if different from above (phone number and email address)

Work description:

Estimated Survey Hours:

Estimated Monitoring Hours:

Individuals Observed: # of adults and # of juveniles

Individuals Handled: # of adults and # of juveniles

Burrows excavated:

Project Name #2

Location:

Project date completed: To and from date

Incidental Take Permit # (and Other Agency Permits):

Lead biologist Information: Name and contact information (phone number and email address)

Reference: Name and contact information, if different from above (phone number and email address)

Work description:

Estimated Survey Hours:

Estimated Monitoring Hours:

Individuals Observed: # of adults and # of juveniles

Individuals Handled: # of adults and # of juveniles

Burrows excavated:

Project Name #3 ...

Include any other relevant information to the Covered Species or implementation of Conditions of Approval in the ITP

## The Declining Amphibian Task Force Fieldwork Code of Practice

A code of practice, prepared by the Declining Amphibian Task Force (DAPTF) to provide guidelines for use by anyone conducting field work at amphibian breeding sites or in other aquatic habitats. Observations of diseased and parasite-infected amphibians are now being frequently reported from sites all over the world. This has given rise to concerns that releasing amphibians following a period of captivity, during which time they can pick up unapparent infections of novel disease agents, may cause an increased risk of mortality in wild populations. Amphibian pathogens and parasites can also be carried in a variety of ways between habitats on the hands, footwear, or equipment of fieldworkers, which can spread them to novel localities containing species which have had little or no prior contact with such pathogens or parasites. Such occurrences may be implicated in some instances where amphibian populations have declined. Therefore, it is vitally important for those involved in amphibian research (and other wetland/pond studies including those on fish, invertebrates and plants) to take steps to minimize the spread of disease and parasites between study sites.

1. Remove mud, snails, algae, and other debris from nets, traps, boots, vehicle tires and all other surfaces. Rinse cleaned items with sterilized (e.g. boiled or treated) water before leaving each study site.
2. Boots, nets, traps, etc., should then be scrubbed with 70% ethanol solution (or sodium hypochlorite 3 to 6%) and rinsed clean with sterilized water between study sites. Avoid cleaning equipment in the immediate vicinity of a pond or wetland.
3. In remote locations, clean all equipment as described above upon return to the lab or "base camp". Elsewhere, when washing machine facilities are available, remove nets from poles and wash with bleach on a "delicates" cycle, contained in a protective mesh laundry bag.
4. When working at sites with known or suspected disease problems, or when sampling populations of rare or isolates species, wear disposable gloves and change them between handling each animal. Dedicate sets of nets, boots, traps, and other equipment to each site being visited. Clean and store them separately and the end of each field day.
5. When amphibians are collected, ensure the separation of animals from different sites and take great care to avoid indirect contact between them (e.g. via handling, reuse of containers) or with other captive animals. Isolation from un-sterilized plants or soils which have been taken from other sites is also essential. Always use disinfected/disposable husbandry equipment.
6. Examine collected amphibians for the presence of diseases and parasites soon after capture. Prior to their release or the release of any progeny, amphibians should be quarantined for a period and thoroughly screened for the presence of any potential disease agents.
7. Used cleaning materials (liquids, etc.) should be disposed of safely and if necessary taken back to the lab for proper disposal. Used disposable gloves should be retained for safe disposal in sealed bags.