



Linda S. Adams  
Secretary for  
Environmental Protection

# State Water Resources Control Board

## Executive Office

Charles R. Hoppin, Chairman  
1001 I Street • Sacramento, California 95814 • (916) 341-5603  
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Arnold Schwarzenegger  
Governor

DEC 24 2010

James R. Greenwood  
c/o Amanda Duchardt  
Southern California Edison  
2244 Walnut Grove Avenue, #3A  
Rosemead, CA 91770

Dear Mr. Greenwood:

CLEAN WATER ACT (CWA) SECTION 401 WATER QUALITY CERTIFICATION FOR SOUTHERN CALIFORNIA EDISON TEHACHAPI RENEWABLE TRANSMISSION LINE PROJECT, SEGMENTS 7 AND 8, LOS ANGELES AND SAN BERNADINO COUNTIES, CALIFORNIA (FILE NO. SB10002IN)

Southern California Edison Company (SCE) has requested that the State Water Resources Control Board (State Water Board) issue a CWA Section 401 Water Quality Certification (Certification) for the Tehachapi Renewable Transmission Project (TRTP), Segments 7 and 8. An application for Certification was received on February 2, 2010. The application was complete on April 1, 2010. State Water Board staff reviewed the information submitted by SCE describing project activities and proposed water quality protection measures. Consultations regarding this project were also conducted with the Los Angeles and Santa Ana Regional Water Quality Boards.

Pursuant to Title 23, section 3838 of the California Code of Regulations, I hereby make the Certification determination described in the Enclosure for these projects. Attachments A through D of the Enclosure are also part of this Certification.

If you require further assistance, please contact Bob Solecki, the staff person most knowledgeable on the subject, at (916) 341-5483 ([rsolecki@waterboards.ca.gov](mailto:rsolecki@waterboards.ca.gov)). You may also contact Bill Orme, Chief of the 401 Certification and Wetlands Protection Unit, at (916) 341-5464 ([borme@waterboards.ca.gov](mailto:borme@waterboards.ca.gov)).

Sincerely,

*Victoria G. Whitney*

for

Thomas Howard  
Executive Director

cc: (See next page)

*California Environmental Protection Agency*

DEC 24 2010

Enclosures: Water Quality Certification Order  
Attachment A: Signatory Requirement  
Attachment B: Project Information Sheet  
Attachment C: Project List  
Attachment D: Project Maps

cc (Continuing page)

cc: Mr. Dave Castanon, Chief  
Regulatory Branch  
Los Angeles District  
Ventura Field Office  
U.S. Army Corps of Engineers  
Department of the Army  
2151 Alessandro Drive, Suite 110  
Ventura, CA 93001

Mr. Jason A. Brush, Chief  
Chief, Wetlands Regulatory Office (WTR-8)  
U.S. Environmental Protection Agency, Region 9  
75 Hawthorne Street  
San Francisco, CA 94105

Ms. Erinn Wilson  
California Department of Fish and Game  
Staff Environmental Scientist  
South Coast Region  
18627 Brookhurst Street # 559  
Fountain Valley, Ca 92708-6748

Mr. Samuel Unger, Interim Executive Officer  
Los Angeles Regional Water Quality Control Board  
320 West Fourth Street, Suite 200  
Los Angeles, CA 90013

Mr. Gerard J. Thibeault, Executive Officer  
Santa Ana Regional Water Quality Control Board  
3737 Main Street, Suite 500  
Riverside, CA 92501

*California Environmental Protection Agency*

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ACTION ON REQUEST FOR CLEAN WATER ACT SECTION 401  
WATER QUALITY CERTIFICATION FOR SOUTHERN CALIFORNIA EDISON  
TEHACHAPI RENEWABLE TRANSMISSION LINE PROJECT SEGMENTS 7 AND 8,  
LOS ANGELES AND SAN BERNADINO COUNTIES, CALIFORNIA  
FILE NO. SB10002IN

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**PROJECT:** Southern California Edison (SCE) – Tehachapi Renewable  
Transmission Project (TRTP) Segments 7 and 8

**APPLICANT:** Mr. James R. Greenwood  
c/o Amanda Duchardt  
Southern California Edison  
2244 Walnut Grove Avenue, #3A  
Rosemead, CA 91770

This Certification responds to your request on behalf of SCE for water quality certification for the subject project. Your application was received on February 2, 2010, and was determined to be complete on April 1, 2010.

### ACTION

- |   |   |
|---|---|
| <input type="checkbox"/> Order for Standard Certification                           | <input type="checkbox"/> Order for Denial of Certification                |
| <input checked="" type="checkbox"/> Order for Technically Conditioned Certification | <input type="checkbox"/> Order for Waiver of Waste Discharge Requirements |

### AUTHORIZATION:

This Certification conditionally certifies the TRTP Segments 7 & 8 Project (Project). The Project involves construction of new and upgraded transmission infrastructure along the Project alignment, which incorporates approximately 49 miles of 500kV transmission line and seven miles of 220kV transmission line. The Project alignment extends southwest from the southern boundary of the Angeles National Forest, near the intersection of Interstate 605 and Interstate 210, to the El Monte area. From the El Monte area, the Project alignment extends eastward through Chino and ends in Ontario. Construction work areas for transmission line structures, modifications to existing roads, and construction of new roads will result in the fill of waters of the U.S. and the State. More details about the project and project impacts are described in *Attachment B – Project Information* of this certification.

**STANDARD CONDITIONS:**

1. This Certification action is subject to modification or revocation upon administrative or judicial review, including review and amendment pursuant to section 13330 of the California Water Code (CWC) and Article 6 (commencing with section 3867) of Chapter 28, Title 23 of the California Code of Regulations (CCR 23).
2. This Certification action is not intended and shall not be construed to apply to any activity involving a hydroelectric facility requiring a Federal Energy Regulatory Commission (FERC) license or an amendment to a FERC license, unless the pertinent certification application was filed pursuant to subsection 3855(b) of Chapter 28, CCR 23, and the application specifically identified that a FERC license or amendment to a FERC license for a hydroelectric facility was being sought.
3. This Certification is conditioned upon total payment of any fee required under Chapter 28, CCR 23 and owed by the applicant.

**ADDITIONAL CONDITIONS:**

1. Best Management Practices (BMPs)
  - a. Appropriate BMPs shall be implemented throughout project activities to help minimize sediment disturbance and suspension within surface waters as described in this Certification, and also in the Final Environmental Impact Report (Final EIR) (December 2009) and the Final Environmental Impact Statement (Final EIS) (September 2010) for the SCE TRTP. All BMP materials shall be onsite prior to construction activity and ready for use. All ground disturbance activities shall employ appropriate washout and erosion control BMPs.
  - b. Substances resulting from project-related activities that could be harmful to aquatic life, including but not limited to: petroleum lubricants and fuels, cured and uncured cements, epoxies, paints and other protective coating materials, Portland cement concrete or asphalt concrete, and washings and cuttings thereof, shall not be discharged to soils or waters of the State.
  - c. Vehicles shall not be driven or equipment operated in waters of the State on the project site, except as necessary to complete the proposed project.
  - d. Motorized equipment shall not be maintained or parked within or near any stream crossing, channel, or water body margin in such a manner that petroleum products or other pollutants from the equipment may enter these areas under any flow conditions. Fueling, lubrication, maintenance, storage, and staging of vehicles and equipment shall be outside of waters of the State, and shall not result in a discharge to any waters of the State.

- e. A daily log shall be maintained to note the presence and absence of waste releases from vehicles and equipment within or adjacent to waters of the State. Copies of the daily log must be available on site. Daily visual inspections for waste releases of all vehicles and equipment parked or operating within or adjacent to waters of the State must be conducted before the vehicles or equipment begin conducting work for the day. Spillage and leaks must be reported in the daily log during any point that they occur during the day. Presence of any spillage from leaks must be reported in the daily log and contaminated soils must be immediately removed from the site and disposed of at an approved area or facility. State Water Resources Control Board (State Water Board) staff may request this information at any time. Any waste releases of 5 gallons or greater must be reported to State Water Board and Regional Water Board staff within 24 hours with an explanation of how the problem was resolved.
  - f. All work areas shall be effectively isolated from stream flows using suitable control measures before commencement of any in-water work. The diverted stream flow shall not be contaminated by construction activities. Structures for isolating the in-water work area and/or diverting the stream flow (e.g., coffer dam, geo-textile silt curtain) shall not be removed until all disturbed areas are cleaned and stabilized.
  - g. In the event of rain, the disturbed in-water work area shall be temporarily stabilized before stream flow exceeds the capacity of the diversion structure. The disturbed streambed shall be stabilized so that the disturbed areas will not come in contact with the stream flow.
  - h. For projects requiring re-vegetation of disturbed areas, viable seed of native species collected within the same watershed, or the greater watershed, shall be used.
  - i. When a project is completed, any trash, excess material or other debris shall be removed from the work area and disposed of properly.
2. SCE must obtain coverage under the new NPDES General Permit for Storm Water Discharges Associated with Construction Activities, which became effective on July 1, 2010.
  3. SCE shall implement the Applicant-Proposed Measures (APM) and Mitigation Measures described in the EIR/EIS for the SCE TRTP.
  4. Designs and details for all water body crossings shall be submitted to State Water Board staff for review and approval at least 30 days prior to installation of crossings. Water body crossings shall not be installed until State Water Board and Regional Water Quality Control Board (Regional Water Board) staff has approved the crossing designs.

5. If ground water dewatering is required for the project, SCE shall consult with the appropriate Regional Water Board to determine if additional permits are required.
6. SCE shall submit to State and Regional Water Board staff, a copy of the final Habitat Mitigation and Monitoring Plan that has been approved by the California Department of Fish and Game (CDFG) and U.S. Army Corps of Engineers (Corps). SCE shall submit copies of the final plan to State and Regional Water Board staff within 14 calendar days after the plan has been approved by CDFG and the Corps.

7. Violations

- a. SCE or its contractor and subcontractors shall verbally report any non-compliance to the 401 Program Manager of the appropriate Regional Water Board where the project is located within 24 hours from the time when SCE or its contractor and subcontractors become aware of the circumstances.
- b. SCE or its contractor and subcontractors shall report all violations of any terms or conditions of this Certification in writing to the State Water Board and appropriate Regional Water Board within seven (7) consecutive days from the time SCE becomes aware of the violation. The written report shall contain:
  - i. A description of the violation and its cause;
  - ii. The period of the violation event, including dates and times, and if the violation has not been corrected, the anticipated time the violation is expected to continue; and;
  - iii. Steps taken or planned to reduce, eliminate, and prevent recurrence of the violation.
- c. In the event of any violation or threatened violation of the conditions of this Certification, the violation shall be subject to any remedies, penalties, processes, or sanctions as provided for under State law. For purposes of the Clean Water Act (CWA) section 401(d), the applicability of any State law authorizing remedies, penalties, processes, or sanctions for the violation or threatened violation constitutes a limitation necessary to assure compliance with the water quality standards and other pertinent requirements incorporated into this Certification Order.
- d. In response to a suspected violation of any condition of this Certification Order, the State Water Board may require the holder of any permit or license subject to this Certification to furnish, under penalty of perjury, any technical or monitoring reports the State Water Board deems appropriate, provided that the burden, including the cost of the reports, shall be in reasonable relationship to the need for the reports and the benefits to be obtained from the reports.

- e. In response to any violation of the conditions of this Certification Order, the State Water Board may add to or modify the conditions of this Certification as appropriate to ensure compliance.

**ADMINISTRATIVE CONDITIONS:**

1. The State Water Board reserves the right to suspend, cancel, or modify and reissue this Certification, after providing notice to SCE and/or responsible contractor/sub-contractor, if the State Water Board determines that the project fails to comply with any of the terms or conditions of this Certification.
2. A copy of this Certification, the application, and supporting documentation must be available at the project site during construction for review by site personnel and agencies. A copy of this Certification must also be provided to the contractor and all subcontractors who will work at the project site. All personnel performing work on the proposed project shall be familiar with the content of this Certification and its posted location on the project site.
3. SCE shall grant State Water Board and Regional Water Board staff, or an authorized representative, upon presentation of credentials and other documents as may be required by law, permission to enter the project site at reasonable times, to ensure compliance with the terms and conditions of this Certification and/or to determine the impacts the project may have on waters of the State.

**STATE WATER BOARD CONTACT PERSON:**

If you have any questions, please contact State Water Board Environmental Scientist Bob Solecki at (916) 341-5483, via e-mail at [rsolecki@waterboards.ca.gov](mailto:rsolecki@waterboards.ca.gov), or by mail at:

State Water Resources Control Board  
401 Certification & Wetland Program  
P.O. Box 100, Sacramento, CA 95812-2000 (by mail)  
1001 I Street, 15<sup>th</sup> Floor, Sacramento, CA 95814 (by hand delivery)

**WATER QUALITY CERTIFICATION:**

I hereby issue an order certifying that as long as all of the conditions listed in this Certification action are met, any discharge from the referenced project will comply with the applicable provisions of Clean Water Act sections 301 (Effluent Limitations), 302 (Water Quality Related Effluent Limitations), 303 (Water Quality Standards and Implementation Plans), 306 (National Standards of Performance), and 307 (Toxic and Pretreatment Effluent Standards). This discharge is also regulated pursuant to State Water Board Water Quality Order No. 2003-0017-DWQ which authorizes this

Certification to serve as Waste Discharge Requirements pursuant to the Porter-Cologne Water Quality Control Act (Wat. Code, § 13000 et seq.).

Except insofar as may be modified by any preceding conditions, all Certification actions are contingent on (a) the discharge being limited and all proposed mitigation being completed in strict compliance with the Project Information Sheet (Attachment B) and the tables in Attachment C, and (b) compliance with all applicable requirements of the Regional Water Board's Water Quality Control Plan and the Final EIR/EIS for the SCE TRTP.

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Thomas Howard  
Executive Director  
State Water Resources Control Board

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Date

Attachments (4):

- A. Signatory Page
- B. Project Information Sheet
- C. Project Tables
- D. Project Location Map



## SIGNATORY REQUIREMENTS

*All Documents Submitted In Compliance With This Order  
Shall Meet The Following Signatory Requirements:*

1. All applications, reports, or information submitted to the State Water Resources Control Board (State Water Board) must be signed and certified as follows:
  - (a) For a corporation, by a responsible corporate officer of at least the level of vice- president.
  - (b) For a partnership or sole proprietorship, by a general partner or proprietor, respectively.
  - (c) For a municipality, or a state, federal, or other public agency, by either a principal executive officer or ranking elected official.
2. A duly authorized representative of a person designated in Items 1.a through 1.c above may sign documents if:
  - (a) The authorization is made in writing by a person described in Items 1.a through 1.c above.
  - (b) The authorization specifies either an individual or position having responsibility for the overall operation of the regulated activity.
  - (c) The written authorization is submitted to the State Water Board Executive Director.
3. Any person signing a document under this section shall make the following certification:

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

## PROJECT INFORMATION SHEET

Applicant: James R. Greenwood  
Southern California Edison  
2244 Walnut Grove Avenue, #3A  
Rosemead, CA 91770  
Contact: Amanda Duchardt

Project Name: Tehachapi Renewable Transmission Project (TRTP):  
Segments 7 and 8

Project Location: Various (see Attachments C and D)

Type of Project: Transmission Line

Project Description: Southern California Edison Company's (SCE) Tehachapi Renewable Transmission Project (TRTP): Segments 7 and 8, is a project component, or "Work Package", of the proposed TRTP. The TRTP is comprised of Segments 4-11. The overall TRTP project includes the construction of new and upgraded transmission infrastructure along approximately 173 miles of new and existing rights of way (ROW) in southern Kern County, portions of Los Angeles County, including the Angeles National Forest; and the southwestern portion of San Bernadino County, California. SCE's stated objectives for the TRTP project are to provide the electrical facilities necessary to integrate new levels of wind generation in excess of 700 megawatts (MW) and up to approximately 4,500 MW in the Tehachapi Wind Resource Area. The TRTP project will enable SCE and other California utilities to comply with the California Renewables Portfolio Standard (RPS) goals in an expedited manner.

The TRTP Segments 7 and 8 (Project) alignment incorporates approximately 49 miles of 500kV transmission line and seven miles of 220kV transmission line. The alignment includes the installation of 313 new transmission structures and 72 tubular steel riser poles; and the removal of 313 towers. The Project alignment extends from the southern boundary of the Angeles National Forest, continues forward to the Rio Hondo Substation, then continues to the southwest across the San Gabriel Valley to the Mesa Substation (Segment 7). From the Mesa Substation, the Project alignment extends eastward to the Chino Substation,

and then continues eastward before ending at the Mira Loma Substation (Segment 8). Existing substations will be upgraded to accommodate new transmission lines and systems (Segment 9). To support the installation of the transmission lines, the following preparation will be required: creation of wire setup sites (for pulling, splicing, and stringing wire), creation of construction work areas around each tower structure, construction of new access roads, and modification of existing access roads where they cross jurisdictional features (referred to as drainage modifications). Wire setup sites require an average area of 300 feet by 100 feet to stretch the transmission line and connect it to towers. Segments 7 and 8 would include approximately 49 wire setup sites. Existing access roads may need to be graded or may require vegetation trimming to accommodate construction vehicles.

Proposed activities involve work within waters of the U.S. and waters of the State. Projected permanent and temporary effects to waters of the U.S. and waters of the State are summarized in Tables 1, 2, 3, and 4 of Attachment C.

**CEQA:**

The California Public Utilities Commission, acting as lead agency under CEQA, and the U.S. Forest Service (Forest Service), acting as the lead agency under NEPA, approved the Final Environmental Impact Report (Final EIR) for the SCE TRTP on December 17, 2009. A Draft Supplemental Environmental Impact Statement (EIS) was released in April 2010 to address the Station Fire, which affected TRTP Segments 6 and 11. The Final EIS for the SCE TRTP was issued in September 2010. No TRTP related work will occur on Army Corps lands until the Record of Decision has been issued. State Water Resources Control Board (State Water Board) staff have reviewed and considered the environmental documents and the proposed mitigation measures. The State Water Board has determined that the Project will not result in any significant adverse water quality impacts.

**Federal Agency Permit(s):** The Los Angeles District of the Army Corps of Engineers (Corps) is processing an application for TRTP Segments 7 & 8 for authorization of Nationwide Permit 12 under a Preliminary Jurisdictional Determination (U.S. Army Corps File Number SPL-2009-00588-PHT).

U.S. Fish and Wildlife Service (USFWS) Biological Opinion (FWS-10B0117-10F0215) issued July 31, 2010.

State Agency Permit(s):	DFG 1600 agreement and 2081 Incidental Take Permit, and NPDES General Permit for Storm Water Discharges Associated with Construction Activities issued by the State Water Board.
Receiving Waters/ Hydrologic Units:	See Tables 1, 2, and 3 of Attachment C
Impacted Waters:	<u>Permanent Impacts</u> Streambed: 0.07 acre, 250 linear feet  <u>Temporary Impacts</u> Streambed: 0.95 acre, 4022 linear feet
Non-Compensatory Mitigation:	A combination of avoidance and minimization measures is proposed to offset potential effects of project construction to wetlands and waters of the U.S. All feasible and practical measures will be undertaken to avoid and/or minimize impacts to waters during construction. The Project will be conducted based on mitigation measures in the 2009 FEIR and 2010 FEIS for TRTP, application materials submitted for the certification, and conditions of this certification.
Compensatory Mitigation:	Compensatory mitigation for impacts to biological resources and waters of the U.S and the State are outlined in the SCE TRTP Component Habitat and Draft Mitigation Monitoring Plan (HMMP) Segments 7 and 8. The HMMP requires approval from USFWS, CDFG, the Corps, and the State Water Board. Requirements for each type of water feature that is proposed to be permanently or temporarily impacted are presented in Table 4 of Attachment C. The following information provides a summary of the HMMP, including mitigation for impacts to waters of the U.S.  All permanent impacts and most temporary impacts to waters of the U.S and the State will be mitigated at the Upper Lemon Creek Restoration Site in the City of Walnut. No compensatory mitigation is proposed for maintenance grading impacts on 0.02 acre of unvegetated streambed resulting from maintenance grading or vegetation trimming on existing access roads to accommodate construction vehicles.

A total of 1.25 acre of compensatory mitigation will be acquired through restoration activities at the Upper Lemon Creek Restoration Site for permanent and temporary impacts. Compensatory mitigation for all permanent impacts to waters of the U.S and the State will be obtained at the Upper Lemon Creek Restoration Site. Temporary impacts to waters will be compensated for through restoration of native habitats on-site and at the Upper Lemon Creek Restoration Site at a 1:1 ratio. Mitigation ratios will vary between a 1:1 and a 5:1 ratio, depending on the habitat type impacted and whether the impact is located on Corps-owned land (see Table 4 of Attachment C for more information). The Corps-owned lands within the Project area are Whittier Narrows and the Santa Fe Dam.

The Lemon Creek Restoration Site will require the development of an encroachment permit and funding of the restoration onsite. After the five-year implementation and monitoring program, management of the property will be transferred from SCE to the City of Walnut, and managed in perpetuity by the City of Walnut with a conservation easement to the San Gabriel Mountain Regional Conservancy or any CDFG-approved 3rd party manager. The parcel that contains the Lemon Creek Restoration Site is owned by the City of Walnut and is designated as open space. The Lemon Creek Restoration Site occurs in the same watershed as the Project. Functions and services that were taken into account when the Restoration Site was chosen include: aquatic habitat diversity, habitat connectivity, relationships to hydrologic sources, land use trends, ecological benefits, and compatibility with adjacent land uses. These functions and services are described in the Army Corps and the U.S. Environmental Protection Agency Compensatory Mitigation for Losses of Aquatic Resources; Final Rule ((40 CFR 230.93 (b) (1)).

In the Biological Opinion issued for the TRTP, USFWS determined that the level of anticipated take for the TRTP is not likely to result in jeopardy to the federally endangered arroyo toad, the federally threatened California red-legged frog, and the federally threatened desert tortoise. The Biological Opinion contains take thresholds for these species, reasonable and prudent measures, terms and conditions, and conservation recommendations to minimize

or avoid adverse effects from project activities on listed species or critical habitat. These species are not expected to occur within Segments 7 and 8. Potential effects to numerous federally-listed species are addressed in the Biological Opinion for the TRTP; however, most federally-listed species addressed in the Biological Opinion are not expected to be affected by the TRTP.

Species addressed in the Biological Opinion that could be affected in TRTP Segments 7 and 8 are the State and federally-endangered least Bell's vireo and southwestern willow flycatcher, and the federally-threatened coastal California gnatcatcher. USFWS determined that the Project would result in disturbance and some permanent loss of habitat for these species. Protection measures will be implemented to avoid and minimize impacts to species habitat. Compensatory mitigation will also be implemented for permanent impacts to species habitat.

In the Incidental Take Permit issued for TRTP, CDFG determined that the Project is expected to result in the incidental take of individuals of Covered Species, including Swainson's hawk, willow flycatcher, desert tortoise, Mohave ground squirrel, and least Bell's vireo. Incidental take of Covered Species individuals could occur in the form of mortality ("kill") from various ground disturbing and construction activities, catch and capture of Covered Species from relocation authorized by the ITP, and 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. The ITP contains conditions of approval, general provisions, monitoring, notification and reporting provisions, minimization measures, and compensatory mitigation requirements to minimize or avoid adverse effects from Project activities on Covered Species.

Based on a review of mitigation organization options, the Lemon Creek Restoration Site meets the requirements and contains suitable breeding vegetation for least Bell's vireo (i.e., patches of southern willow scrub and mule fat scrub vegetation) with more than 7.82 acres available for mitigation. Habitat for least Bell's vireo is also suitable habitat for the southwestern willow flycatcher. Therefore, compensatory mitigation for least Bell's vireo will also satisfy mitigation requirements for willow flycatcher.

The Corps-owned Whittier Narrows Flood Control Basin area will also be used to mitigate for impacts to listed species that are protected by the U.S. Fish and Wildlife Service and California Department of Fish and Game.

Public Notice:

In satisfaction of the public notice requirements of Section 3858, Title 23, of the California Code of Regulations, which governs the State's Certification Program, a Public Notice of Application for Water Quality Certification for the subject Project was posted on the State Water Board website on April 20, 2010.

Fees:

On February 17, 2010, a check from the SCE in the amount of \$27,692.80 was received by the State Water Board in payment of required fees associated with this permit application.

**Attachment C: Tables 1 – 5.** Impacts to waters of the U.S. based on vegetation type (supplemental 401 application information in November 1, 2010 letter from ICF to the State Water Resources Control Board).

**Note:** Table 5 contains mitigation requirements for the Project.

**Table 1: Major construction - Towers/Line undergrounding/Road Widening**

Project Description	Feature ID	Species	Vegetation Type	Impacts on Vegetation				Mitigation/ Watershed
				Temporary		Permanent		
				Acres	Linear Feet	Acres	Linear Feet	
Towers								
NEW IMPACT – This feature will be temporarily and permanently impacted at Structure 4. Although the tower footings will not be places in the drainage, SCE maintains a 50-foot buffer around each tower for vegetation removal and access during operations.	7-3-S-2	Migratory Birds	Coastal Sage Scrub	0.003	129	0.001	25	Non-Federal/ Los Angeles San Gabriel Watershed
NEW IMPACT – This feature will be temporarily and permanently impacted at Structure 4. Although the tower footings will not be places in the drainage, SCE maintains a 50-foot buffer around each tower for vegetation removal and access during operations.	7-3-S-7	Migratory Birds	Coastal Sage Scrub	0.001	31	0.001	55	Non-Federal/ Los Angeles San Gabriel Watershed
P7-1 – UPDATED IMPACT AREA This feature would be temporarily and permanently impacted by the construction of Structure 15 M30-T1. The existing tower pad would be extended 30 feet northeast into jurisdictional waters to accommodate the new structure location. The pad would consist of clean fill material and rock similar to the existing tower pad. The existing tower would be removed.	7-8-S-3	Migratory Birds	Riversidean Alluvial Fan Sage Scrub	0.18	150	0.008	50	Federal/ Los Angeles San Gabriel Watershed
			Disturbed/Developed	0.32		0.009		
NEW IMPACT – This feature will be temporarily and permanently impacted by the removal and replacement of Structure 21. Although the tower footings will not be places in the drainage, SCE maintains a 50-foot buffer around each tower for vegetation removal and access during operations.	7-10-S-2	None	Mule Fat Scrub	0.01	100	0	0	Federal/ Los Angeles San Gabriel Watershed
			Disturbed/Developed	0.01		0.001		
NEW IMPACT – This feature will be temporarily impacted at a pulling site. Following construction, the drainage will be restored to pre-project contours and revegetated.	8-11-S-3	Coastal California Gnatcatcher	Coastal sage scrub	0.01	107	0	0	Non-Federal/ Los Angeles San Gabriel Watershed
NEW IMPACT – This feature will be temporarily impacted at a pulling site. Following construction, the drainage will be restored to pre-project contours and revegetated.	8-11-S-4	Coastal California Gnatcatcher	Coastal sage scrub	0.001	139	0	0	Non-Federal/ Los Angeles San Gabriel Watershed
			Ruderal Grassland	0.01		0	0	
NEW IMPACT – This feature will be temporarily impacted at a guard structure.	8-20A-S-2	Migratory Birds	Coast live oak woodland	0.003	58	0	0	Non-Federal/ Los Angeles San Gabriel Watershed
			Disturbed/Developed	0.001		0	0	
NEW IMPACT – This feature will be temporarily impacted at a guard structure.	8-38-S-1	Least Bell's Vireo and Migratory Birds	Southern Arroyo Willow Riparian Forest	0.003	50	0	0	Non-Federal/ Los Angeles San Gabriel Watershed
P8-11 - UPDATED IMPACT AREA – This feature would be temporarily impacted during construction of Structure 80. Minor vegetation removal would be required but the new structure would not be located in jurisdictional waters.	8-39-W-2	Least Bell's Vireo and Migratory Birds	Mulefat Scrub	0.07	50	0	0	Non-Federal/ Los Angeles San Gabriel Watershed
NEW IMPACT – This feature will be temporarily and permanently	8-56-S-1	None.	Disturbed/Developed	0.003	200	0	0	Non-Federal/Santa Ana Watershed



Project Description	Feature ID	Species	Vegetation Type	Impacts on Vegetation				Mitigation/ Watershed
				Temporary		Permanent		
			Acres	Linear Feet	Acres	Linear Feet		
impacted at Structure 131. Although the tower footings will not be places in the drainage, SCE maintains a 50-foot buffer around each tower for vegetation removal and access during operations.			Ruderal grassland	0.135		0.02	0	
Road Widening								
NEW IMPACT – The existing access road at this drainage crossing turns at an angle less than 50 degrees. Large construction equipment cannot navigate this turn radius. The existing access road will be widened 30 feet on the upstream side creating a 30x20 foot turning radius that will safely allow construction equipment to pass.	7-93-S-2	Least Bell’s Vireo	Southern Willow Scrub	0.003	18	0.006	30	Non-Federal/ Los Angeles San Gabriel Watershed
P8-6 – UPDATED IMPACT AREA This feature intersects an existing access road. Maintenance grading may be required to widen the road from approximately 12 feet in some areas to 18 feet to accommodate large construction equipment. Tree trimming and removal of riparian vegetation would be required.	8-14-S-2	Migratory Birds	Disturbed/Developed	0.002	18	0	0	Non-Federal/ Los Angeles San Gabriel Watershed
	8-14-S-2		Southern Sycamore Alder Riparian Woodland	0.0004		0	0	
	8-14-S-3		Coast Live Oak Woodland	0.0001	18	0	0	
	8-14-S-4		Coast Live Oak Woodland	0.0001	18	0	0	
	8-14-S-8		Coast Live Oak Woodland	0.0002	18	0	0	
	8-14-S-9		Mulefat Scrub	0.001	18	0	0	
Underground work								
NEW IMPACT – This feature will be temporarily impacted by the installation of an underground 66kV vault and maintenance grading.	7-35-S-1	Least Bell’s Vireo, Coastal California Gnatcatcher	Disturbed/Developed	0.001	18	0	0	Non-Federal/ Los Angeles San Gabriel Watershed
P8-13 This feature would be temporarily impacted during trenching activities related to the under-grounding of an existing 66kV line. Trenching and backfill by a backhoe or excavator would be required. Native soil material would be side-caste and used to backfill the trench following the placement of underground conduit.	8-50-S-1	Burrowing Owl and Migratory Birds	Ruderal Grassland	0.09	954	0.001	0	Non-Federal/ Santa Ana Watershed
	8-50-S-2		Ruderal Grassland	0.06	1630	0.001	0	
NEW IMPACT – This feature will be temporarily impacted by the installation of an underground 66kV vault.	8-50-S-3	Potential Burrowing Owl	Disturbed/Developed	0.012	100	0	0	Non-Federal/ Santa Ana Watershed
TOTALS				0.93	3,824	0.04	160	

Table 2: New Roads

Project Description	Feature ID	Species	Vegetation Type	Impacts on Vegetation				Mitigation/ Watershed
				Temporary		Permanent		
				Acres		Acres		
<b>NEW IMPACT</b> – This feature will be permanently impacted by the construction of a new access road to a wreck out site and temporary pulling site located between Structures 1 and 3. The new road will be contoured to direct flows across the natural (dirt) road surface maintaining the natural flow line to the greatest extent feasible.	7-2-S-3	Migratory Birds	Mixed Chaparral	0	0	0.0007	18	Non-Federal/ Los Angeles San Gabriel Watershed
<b>NEW IMPACT</b> – This feature will be permanently impacted by the construction of a new access road to Structure 4. The new road will be contoured to direct flows across the natural (dirt) road surface maintaining the natural flow line to the greatest extent feasible.	7-3A-S-5	Migratory Birds	Coastal Sage Scrub	0	0	0.0004	18	Non-Federal/ Los Angeles San Gabriel Watershed
<b>NEW IMPACT</b> – This feature will be permanently impacted by the construction of a new access road to Structure 4. The new road will be contoured to direct flows across the natural (dirt) road surface maintaining the natural flow line to the greatest extent feasible.	7-3-S-6	Migratory Birds	Coastal Sage Scrub	0	0	0.002	18	Non-Federal/ Los Angeles San Gabriel Watershed
<b>NEW IMPACT</b> – This feature will be permanently impacted by the construction of a new access road to Structure 4. The new road will be contoured to direct flows across the natural (dirt) road surface maintaining the natural flow line to the greatest extent feasible.	7-3-S-8	Migratory Birds	Coastal Sage Scrub	0	0	0.015	18	Non-Federal/ Los Angeles San Gabriel Watershed
P8-14 New access road over unvegetated roadside ditch. Crossing will be at-grade.	8-50-S-4	Potential Burrowing Owl and Migratory Birds	Unvegetated	0	0	0.004	18	Non-Federal/ Santa Ana Watershed
TOTALS				0	0	0.02	90	

**Table 3: Existing Roads** - These features intersect an existing access road. Maintenance grading may be required.

Project Description	Feature ID	Species	Vegetation Type	Impacts on Vegetation				Mitigation
				Temporary		Permanent		
				Acres	Linear Feet	Acres	Linear Feet	
<b>NEW IMPACT</b> – The road is currently passable and no evidence of flow across the road is present. Maintenance grading may be required throughout the project as winter rain events may erode the existing access road.	7-2-S-12	None	Unvegetated	0.001	18	0	0	None
<b>NEW IMPACT</b> – The road is currently passable and no evidence of flow across the road is present. Maintenance grading may be required throughout the project as winter rain events may erode the existing access road.	7-2-S-13	None	Unvegetated	0.001	18	0	0	None
<b>NEW IMPACT</b> – The existing access road between Structure M41-T1 and Structure 64 is currently 12 foot wide and passable. Vegetation trimming may be required to allow the SCE-standard 14 foot wide access. Maintenance grading may be required throughout the project as winter rain events may erode the existing access road.	7-35-S-3	Least Bell’s Vireo, Migratory Birds	Unvegetated/ Disturbed wetland	0.007	18	0	0	None
<b>NEW IMPACT</b> – The existing access road between Structure M41-T1 and Structure 64 is currently 12 foot wide and passable. Vegetation trimming may be required to allow the SCE-standard 14 foot wide access. Maintenance grading may be required throughout the project as winter rain events may erode the existing access road.	7-35-W-1	Least Bell’s Vireo, Migratory Birds	Unvegetated	0.006	18	0	0	None
P7-3 Maintenance grading	7-37-S-1	Migratory Birds	Unvegetated	0.001	18	0	0	None
P7-6 – <b>UPDATED IMPACT AREA</b> Maintenance grading	7-39-S-2	Migratory Birds	Unvegetated	0.003	18	0	0	None
<b>NEW IMPACT</b> – The road is currently passable and no evidence of flow across the road is present. Maintenance grading may be required throughout the project as winter rain events may erode the existing access road.	7-93-S-1	None	Unvegetated	0.0004	18	0	0	None
P8-7 Maintenance grading	8-17-S-5	Coastal California Gnatcatcher, Coastal California Gnatcatcher Critical Habitat	Unvegetated	0.0002	18	0	0	None
<b>NEW IMPACT</b> – The road is currently passable. Maintenance grading may be required throughout the project as winter rain events may erode the existing access road.	8-19A-S-1	Coastal California Gnatcatcher	Unvegetated	0.002	18	0	0	None
<b>NEW IMPACT</b> – The road is currently passable. Maintenance grading may be required throughout the project as winter rain events may erode the existing access road.	8-19A-S-2	Coastal California Gnatcatcher	Unvegetated	0.001	18	0	0	None
P8-8 Maintenance grading	8-19-S-2	Migratory Birds, Coastal California Gnatcatcher Critical Habitat	Unvegetated	0.001	18	0	0	None
TOTALS				0.02	198	0	0	

**Table 4: Total Impacts to Waters of the U.S. and the State, and Mitigation Requirements for Segments 7 & 8**

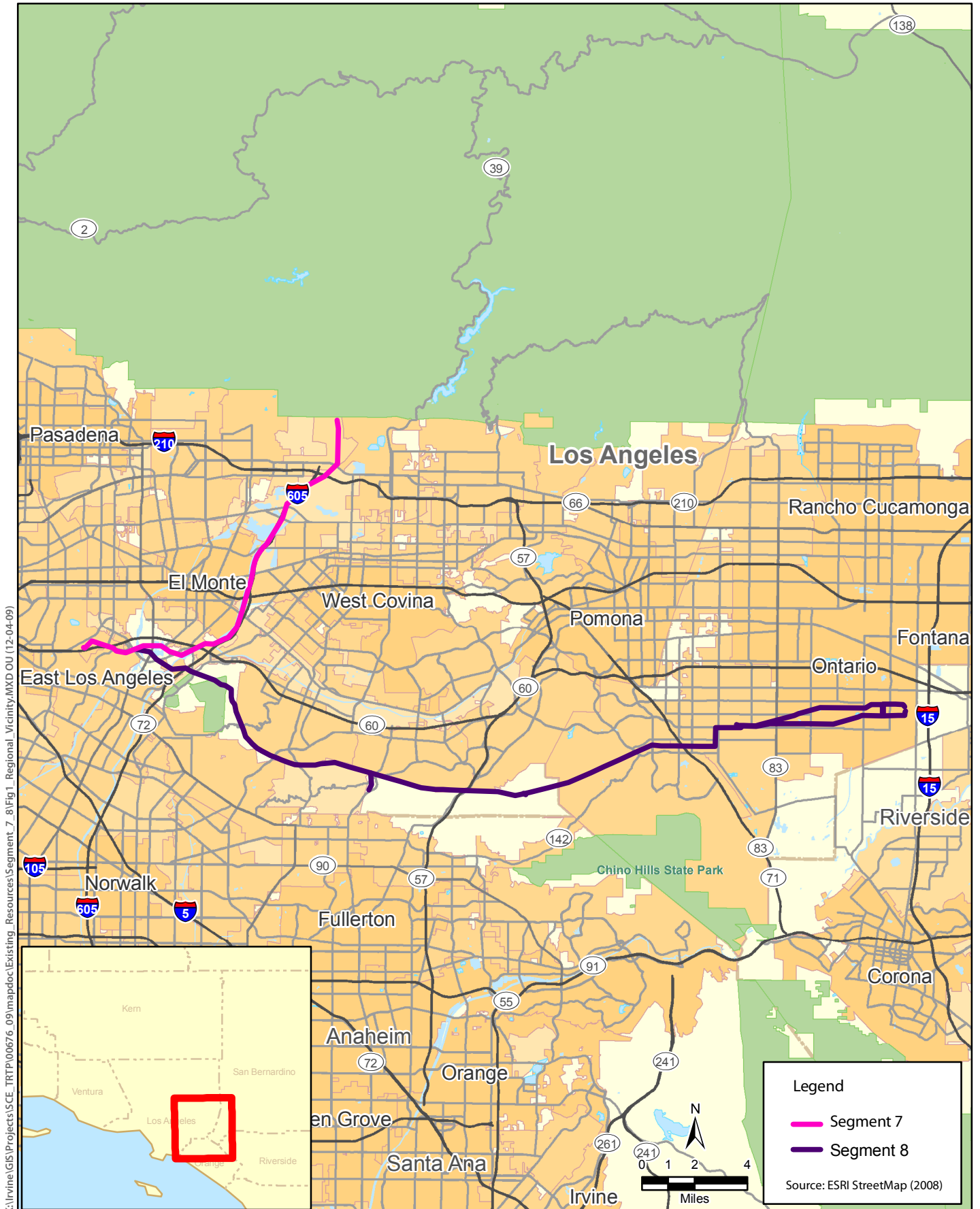
Impacts per Habitat Type	Streambed Impacts on Army Corps-Owned Lands		Streambed Impacts on Lands Not Owned by the Army Corps		Mitigation Ratios on Army Corps - Owned Lands		Mitigation Ratios on Lands Not Owned by the Army Corps		Total Temp Mitigation (acres)	Total Perm. Mitigation (acres)	Total Mitigation (acres) <sup>1</sup>
	Temp.	Perm.	Temp.	Perm.	Temp.	Perm.	Temp.	Perm.			
<b>Non-riparian</b>											
Coastal Sage Scrub	--	--	0.015	0.019	2:1	5:1	1:1	1.5:1	0.015	0.03	0.045
Coast Live Oak Woodland	--	--	0.003	--	1:1	5:1	1:1	1.5:1	0.003	0	0.003
Disturbed/Developed ("Barren/Developed")	0.33	0.011	0.018	0	1:1 <sup>3</sup>	1:1 <sup>3</sup>	1:1 <sup>3</sup>	1:1 <sup>3</sup>	0.35	0.01	0.36
Mixed Chaparral	--	--	--	0.0007	1:1	3:1	1:1	1:1	0	0.0007	0.0007
Ruderal Grassland	--	--	0.295	0.022	1:1 <sup>3</sup>	1:1 <sup>3</sup>	1:1 <sup>3</sup>	1:1 <sup>3</sup>	0.30	0.02	0.32
Unvegetated ("Barren/Developed")	--	0.004	--	--	1:1 <sup>3</sup>	1:1 <sup>3</sup>	1:1 <sup>3</sup>	1:1 <sup>3</sup>	0	0.004	0.004
<i>Subtotal</i>	<i>0.33</i>	<i>0.01</i>	<i>0.33</i>	<i>0.05</i>					<i>0.66</i>	<i>0.07</i>	<i>0.739</i>
<b>Riparian</b>											
Mulefat scrub	0.01	--	0.07	--	2:1	5:1	1:1	3:1	0.09	0	0.09
Riversidean Alluvial Fan Sage Scrub	0.18	0.008	--	--	2:1	5:1	1:1	3:1	0.36	0.04	0.40
Southern Arroyo Willow Riparian Forest	--	--	0.003	--	2:1	5:1	1:1	3:1	0.003	0	0.003
Southern Sycamore Alder Riparian Woodland	--	--	0.0004	--	2:1	5:1	1:1	3:1	0.0004	0	0.0004
Southern Willow Scrub	--	--	0.003	0.006	2:1	5:1	1:1	3:1	0.003	0.02	0.02
<i>Subtotal</i>	<i>0.19</i>	<i>0.01</i>	<i>0.08</i>	<i>0.01</i>					<i>0.46</i>	<i>0.06</i>	<i>0.5134</i>
<b>TOTAL</b>	<b>0.52<sup>2</sup></b>	<b>0.02</b>	<b>0.41</b>	<b>0.05</b>					<b>1.12</b>	<b>0.13</b>	<b>1.25<sup>1</sup></b>
No mitigation is proposed for 0.02 acre of temporary impacts as a result of maintenance grading on existing access roads.											
<b>Summary of Total Impacts</b>											
<b>Segment</b>	Temporary Impacts (acres)		Temporary Impacts (linear feet)		Permanent Impacts (acres)		Permanent Impacts (linear feet)		TOTAL Impacts acres (linear feet)		
<b>Segment 7</b>	0.54		572		0.04		232		0.58 (804)		
<b>Segment 8</b>	0.41		3,450		0.03		18		0.44 (3,468)		
<b>TOTAL</b>	0.95		4,022		0.07		250		1.02 (4,572)		

[1] ALL impacts to waters of the US and the State will be mitigated at the Upper Lemon Creek Mitigation Site (1.25 acres required).

[2] This total excludes 0.02 acre of temporary impacts to unvegetated road crossings as these areas will not be mitigated.

[3] Non-native habitats will be reseeded with a native seed mix. Barren areas will be mitigated at a 1:1 ratio if they are determined to support sensitive wildlife (i.e. burrowing owls, etc).

# Attachment D - Project Location Map



**Figure 1 - Project Location Map  
Segments 7 and 8**

**Tehachapi Renewable Transmission Project**