# **Attachment B**

Kern River No. 1 Hydroelectric Project FERC Project No. 1930

**Revised Study Plan** 

# SOUTHERN CALIFORNIA EDISON COMPANY

# Kern River No. 1 Hydroelectric Project FERC Project No. 1930

# **Revised Study Plan**





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### TABLE OF CONTENTS

	F	Page
1.0	Introduction	1
1.1	Background	1
2.0	Comments Received on the Proposed Study Plan	2
3.0	Revised Study Plan	2
3.1	Content and Organization of Technical Study Plans	3
3.2	Other Technical Study Plan Components	4
3.3	Relevant Resource Agency Jurisdiction/Management Goals	4
3.4	Consistency with Generally Accepted Practice in Scientific Community	4
3.5	Consideration of Level of Effort and Cost	4
3.6	Comment on the Revised Study Plan	5
3.7	Study Plan Implementation And Reporting	5
4.0	Initial and Updated Study Reports and Meetings	5

#### LIST OF TABLES

Table 1.	Stakeholder Study Requests and Associated SCE Responses	6
Table 2.	Survey Methods for Special-Status Wildlife Species Known to Occu or Potentially Occur in the Vicinity of the Kern River No. Hydroelectric Project	1
Table 3.	Relevant Resource Agency Jurisdiction/Management Goals	23
Table 4.	Level of Effort and Cost for Completing the RSP	25
Table 5.	FERC's Study Plan Development Schedule	26
Table 6.	Technical Study Plan Implementation Schedule	27
	LIST C	OF MAPS

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#### **APPENDICES**

Appendix B-1 Technical Study Plans

# 1.0 INTRODUCTION

Southern California Edison Company (SCE) is the owner and operator of the Kern River No. 1 Hydroelectric Project (Project), Federal Energy Regulatory Commission (FERC) Project No. 1930. SCE operates the Project under a 30-year license that was issued by FERC on June 16, 1998 (78 FERC ¶ 61,109). The current license will expire on May 31, 2028. SCE seeks to renew its license to continue operation and maintenance of the Project. SCE is using FERC's Integrated Licensing Process (ILP) to prepare its relicensing application, as specified in 18 Code of Federal Regulations (CFR) Part 5.

Pursuant to CFR § 5.13(a), SCE is filing this Revised Study Plan (RSP) with FERC within 30 days following the deadline for comments received on the Proposed Study Plan (PSP). This RSP addresses comments provided on the PSP by:

- FERC
- National Park Service
- American Whitewater
- Leah Carter

## 1.1 BACKGROUND

On May 5, 2023, SCE filed a Notice of Intent (NOI) and Pre-Application Document (PAD) with FERC to seek a new license for the existing 26.3-megawatt (MW) Project. The PAD provided FERC, federal and state agencies, and other interested parties with background information related to Project facilities, operation, and maintenance activities; summarized existing, relevant, and reasonably available information; defined pertinent Project issues; and identified potential study needs. The PAD also included 13 Draft Technical Study Plans that SCE determined were needed to address issues for which existing information may not be adequate. The overall objective of the studies is to develop sufficient information to identify potential Project effects and to develop new license conditions that reasonably balance multiple resource interests.

On June 29, 2023, FERC issued a Notice of Commencement of Pre-Filing Process and Scoping Document 1 (SD1) for the Project relicensing. FERC also requested that any individual or entity interested in providing comments on the PAD and SD1 and/or submitting formal study requests do so by September 5, 2023. During the comment period, FERC conducted a site visit on August 1, 2023, and a public scoping meetings on August 2, 2023. On October 17, 2023, FERC filed Scoping Document 2 (SD2) for the Project.

On August 23, 2023, SCE filed with FERC Updated Draft Technical Study Plans. The Updated Draft Technical Study Plans incorporated stakeholder comments received during 13 Technical Working Group meetings held between June 28 and August 30, 2023. The Updated Draft Technical Study Plans superseded the Draft Technical Study Plans included in the PAD.

On October 17, 2023, SCE filed a PSP with FERC that included 13 Technical Study Plans for the Project's relicensing. The deadline to file comments on the PSP was

January 16, 2024. During the comment period, SCE conducted a virtual study plan meeting on November 14, 2023 with stakeholders to: (1) clarify SCE's PSP; (2) discuss information gathering or study requests from stakeholders; and (3) attempt to resolve any outstanding issues with respect to SCE's PSP. To address State Water Resources Control Board comments received at the Study Plan Meeting, Technical Study Plan AQ 2 – Water Quality/Water Temperature has been revised to include methylmercury fish tissue sampling.

This document identifies study requests received on the PSP and SCE's response (Section 2); presents SCE's RSP, including defining the process for study implementation and reporting (Section 3); and describes the Initial and Updated Study Reports and meeting schedule (Section 4).

The RSP and other Project relicensing documents can be obtained from FERC's website at <u>https://www.ferc.gov/ferc-online/elibrary</u> or SCE's Kern River No. 1 Hydroelectric Project relicensing website at <u>www.sce.com/kr1</u>.

# 2.0 COMMENTS RECEIVED ON THE PROPOSED STUDY PLAN

The following entities filed written comments on the PSP:

- FERC Staff
- National Park Service
- American Whitewater
- Leah Carter

Attachment A provides a copy of the comment letters filed on the PSP.

Based on comments on the PSP, SCE addressed specific study plan comments either as a modification to the previously filed PSP, or by providing a rationale as to why a comment or new study request was not adopted (Table 1). The RSP includes revisions to the following five Technical Study Plans based on comments received:

- AQ 2 Water Quality/Water Temperature
- REC 2 Recreation Facility Use Assessment
- REC 3 Whitewater Boating
- TERR 1 Botanical Resource
- TERR 2 Wildlife Resources

All other Technical Study Plans remain unchanged from the PSP filed with FERC On October 17, 2023.

# 3.0 REVISED STUDY PLAN

The RSP for the Project relicensing includes the following Technical Study Plans listed by resource area and included in Appendix B-1 of this document.

### Aquatic Resources

- AQ 1 Hydrology
- AQ 2 Water Quality/Water Temperature
- AQ 3 Fish Population

#### Cultural and Tribal Resources

- CUL 1 Built Environment
- CUL 2 Archaeology
- TRI 1 Tribal

#### Land Resources

- LAND 1 Road and Trail Condition Assessment
- LAND 2 Erosion and Sedimentation

#### **Recreation Resources**

- REC 1 Recreation Facility Condition Assessment
- REC 2 Recreation Facility Use Assessment
- REC 3 Whitewater Boating

### **Terrestrial Resources**

- TERR 1 Botanical
- TERR 2 Wildlife

#### 3.1 CONTENT AND ORGANIZATION OF TECHNICAL STUDY PLANS

The following presents the general content and organization of the Technical Study Plans contained in Appendix B-1:

- Potential Resource Issues This section identifies the environmental or cultural resource issues that are specifically addressed in the Technical Study Plans.
- Project Nexus This section describes potential direct and indirect effects of Project operation and maintenance activities on environmental and cultural resources.
- Relevant Information This section describes available information that was reviewed to determine resource study needs.
- Potential Information Gaps This section identified information gaps that the study will fill.
- Study Objectives This section describes the specific study objectives or goals of the study.

- Extent of Study Area This section describes the specific area to be studied and clearly identifies the limits of the study area based on the potential Project Nexus.
- Study Approach This section provides a detailed description of the study elements and methodologies proposed to meet each study objective.
- Reporting This section identifies how the study methods and results will be documented and distributed to stakeholders.
- Schedule This section presents a detailed schedule for implementation of each study including data collection and stakeholder consultation; data analysis and technical memo preparation; draft technical memo distribution; stakeholder review and comment period, comment resolution, and final technical memo distribution.

## 3.2 OTHER TECHNICAL STUDY PLAN COMPONENTS

The following sections describes three additional study plan components that apply to all of the Technical Study Plans. These components are not addressed individually within each Technical Study Plan.

## 3.3 RELEVANT RESOURCE AGENCY JURISDICTION/MANAGEMENT GOALS

Table 3 identifies relevant resource agency jurisdiction/management goals related to the operation and maintenance of the Project. This list reflects the general content and range of management goals that may be under consideration for the Project relicensing. For each goal, the corresponding study plan(s) are identified that would result in the collection of sufficient information to adequately address resource agency management goals.

### 3.4 CONSISTENCY WITH GENERALLY ACCEPTED PRACTICE IN SCIENTIFIC COMMUNITY

The study methodologies (including data collection and analysis techniques, field schedules, and study durations) identified in the RSP are consistent with generally accepted practice in the scientific community. The RSP was collaboratively developed with technical experts representing the licensee, federal and state resource agencies, Native American tribes, non-government organizations and the public. Many of these technical experts have experience in multiple relicensing proceedings in California. The scope of each Technical Study Plan provided in Appendix B is consistent with common approaches used for other relicensing proceedings in California and the nation and, where appropriate, reference specific protocols and survey methodologies.

### 3.5 CONSIDERATION OF LEVEL OF EFFORT AND COST

The overall objective of the Technical Study Plans contained in Appendix B is to develop sufficient information to identify potential Project effects and to develop new license conditions that reasonably balance multiple resource interests. The approach of each Technical Study Plan was evaluated first to verify that the desired information was focused on potential effects associated with the Project (i.e., Project Nexus), second to confirm that the information collected would substantially influence decisions on new license conditions (i.e., clear linkage between information obtained and decision process), and third to substantiate that the study approaches and resulting level of efforts were

consistent with generally acceptable practices in the scientific community. The Technical Study Plans included in Appendix B meet these evaluation criteria. Table 4 presents the estimated level of effort and cost for completion of each Technical Study Plan.

The overall study plan development schedule is included in Table 5.

# 3.6 COMMENT ON THE REVISED STUDY PLAN

In accordance with FERC's Process Plan and Schedule contained in Appendix A of SD2, any individual or entity interested in submitting comments on the RSP must do so by February 29, 2024. FERC encourages electronic filing using FERC's eFiling at <u>https://ferconline.ferc.gov/FERC Online.aspx</u>. Commenters can submit comments using the eComment system at <u>https://ferconline.ferc.gov/QuickComment.aspx</u>.

Within 30 days of filing this RSP, FERC will issue its Study Plan Determination (March 15, 2024).

# 3.7 STUDY PLAN IMPLEMENTATION AND REPORTING

SCE has a well-defined process for the manner and extent that information obtained during implementation of each Technical Study Plan will be provided to stakeholders. Each Technical Study Plan contains a detailed schedule for data collection and analysis, development and distribution of draft technical memos, and stakeholder review and comment. Table 6 provides an overview of these activities for each Technical Study Plan. In general, a 90-day comment period is provided for stakeholder review of each draft technical memo. An additional 60- to 90-day period has also been allocated in the schedule to resolve stakeholder comments on the draft technical memos and to develop and distribute the final technical memos.

In addition to formal distribution of draft and final technical memos, SCE will present an overview of the content and key findings of each technical memo to stakeholders during regularly scheduled technical meetings. The timing of these meetings will be e-mailed to stakeholders in advance and posted on SCE's relicensing website at <u>www.sce.com/kr1</u>.

# 4.0 INITIAL AND UPDATED STUDY REPORTS AND MEETINGS

During study implementation, SCE will file an Initial Study Report and the Updated Study Report (on March 17, 2025 and March 16, 2026, respectively) with FERC describing the overall progress in implementing the Technical Study Plans, including data collected to date, any deviations in technical approaches or schedules, and a proposed schedule for completing the remaining study plan components. The Initial and Updated Study Reports will also include a description of any proposed modifications to the approved studies or new studies proposed by SCE.

Within 15 days after filing the Initial Study Report and Updated Study Report, SCE will hold a meeting with stakeholders to discuss the study results and SCE's or other participant's proposals, if any, to modify the Technical Study Plans Within 15 days after each of these meetings, SCE will file a meeting summary, including any modification to ongoing studies or new studies proposed by SCE and the rationale for not adopting any stakeholder requests, if applicable. The timing of these activities will be e-mailed to stakeholders in advance and posted on SCE's relicensing website at <u>www.sce.com/kr1</u>.

# TABLES

#### Table 1. Stakeholder Study Requests and Associated SCE Responses

Request	SCE Response
Federal Energy Regulatory Commission Request Filed: January 5, 2024	
<b>REC 2 – Recreation Facility Use Assessment</b> Under the section Study Approach, the proposed study plan describes methods to estimate and characterize use at day use facilities and undeveloped areas that are different from methods proposed to estimate and characterize use on project trails. Specifically, vehicle counts and opportunistic inperson surveys are proposed at each day-use facility and undeveloped area, while consultation and survey-boxes are proposed for project trails. Please explain the methodological rational for selecting these different approaches, including:	<b>Response FERC-1:</b> The geography of the bypass reach is characterized by so dominating the available area between the river and the canyon walls. As such, the where the Project trails of focus intersect SR 178 (the 'trailheads'). None of the Protect are accessed via Project roads (e.g., the Democrat Gage Trail, Dougherty Creek T Project and/or Forest Service gates. There is no passing lane along SR 178 and m opportunity to pull to the shoulder are emergency pull-outs; not designated part occupation. Refer to "Photos" at the end of the REC 2 TSP, Photos 11-20 for photopoints to the Project trails.
why project trails would not receive vehicle counts or in-person survey efforts, and	Due to these circumstances, vehicle counts at pull-outs along SR 178 in the relative expected to yield data that could be used to accurately characterize use of Project where parking is available would not readily distinguish between visitor vehicles that (presumably the majority of vehicles), from vehicles of visitors that parked to use along the shoulder of the highway near the Upper Richar Day Use Area would large day use area (according to the Forest Service, the area is often used to capacity on use fee charged to park within the developed recreation area. These same areas are using the Stark Creek Road to access the Dougherty Creek or Stark Creek However, based on lack of signage at the roadside and limited recreation destinate either of the trails, it is reasonable to assume that most occupied parking spaces in Day Use Areas are those of visitors accessing the river.
	Therefore, while vehicle counts are a reasonable methodology to estimate the methodology is not appropriate to estimate use of Project trails. Rather, and base capture information about trail use through self-survey boxes installed along the Proto stakeholder input, SCE has modified the REC 2 TSP to supplement and confirm proposed self-survey boxes along the Project trails through the use of trail cameras, REC 2 Study Approach. In addition QR code will be included as part of the signage Using the QR code, trail users will be able to complete the survey form online (if th or take a picture of the QR code and complete the survey form following their trip. T the same as the questions in the self-survey form provided at each trail. As noted Recreation Technical Working Group (TWG) to finalize the questions in the survey
	Finally, the REC 2 TSP has been modified to include the placement of a physical, four developed recreation sites to supplement the information proposed to be gather in-person surveys.
How consultation with parties who frequent the project trails would result in accurate use estimates and characterization. In the absence of a clear understanding of methodological considerations, we cannot determine if the study will accurately capture the necessary recreational use data.	<b>Response FERC-2:</b> As discussed in the REC 2 TSP under Study Approach, the of Project trails (identified over the course of three meetings with the Recreation T along each of the Project trails. The intention of the self-survey boxes is to establis seasonality, and type of use that Project trails receive (e.g., the date, time of use and of travel [walking, biking or horseback riding], and destination/purpose of activity. If finalize the questions in the survey form.
	No in-person consultation with trail users is proposed because existing information efforts to station occasional survey technicians to intercept users would likely result collection methods designed to gather information from the intermittent user are lib based on stakeholder comments filed with FERC, SCE has modified the REC 2 TS

<sup>&</sup>lt;sup>1</sup> Forest Service (United States Forest Service). 2022. Sequoia National Forest - Kern River Ranger District (usda.gov). Accessed: November 2022. Available online: https://www.fs.usda.gov/recarea/sequoia/recarea/?recid=79571

steep and rugged topography, with SR 178 there are limited opportunities at the locations Project trails are formally signed, and those that Trail and Stark Creek Trail) are behind locked most locations along the highway that offer an parking spots and not intended for long-term otos of the potential parking areas near access

ative vicinity of Project trailheads would not be ect trails. In addition, vehicle counts at locations hat may have parked to access or view the river e the trails. For example, parking opportunities gely be presumed to be overflow parking for the on weekends<sup>1</sup>), or to avoid paying the \$12 dayas may be occupied by vehicles of visitors who ek Trails (both uphill and away from the river). nations available from the Stark Creek Road or in the vicinity of the Upper and Lower Richbar

the intensity of day use along the river, that sed on stakeholder input, SCE is proposing to Project trails of focus. Additionally, in response firm the accuracy of data collected through the s, pending Forest Service approval. See revised ge installed on the front of the self-survey boxes. they have cell phone reception at the location) The questions in the online survey form will be ed in the REC 2 TSP, SCE will consult with the ey form.

al, tamper proof, self-survey box at each of the ered during the vehicle counts and opportunistic

e proposed methodology for characterizing use TWG), is to install tamper-proof survey boxes olish information about the frequency, intensity, nd number of people in the visitor party, method . SCE will consult with the Recreation TWG to

on indicates that trail use is limited such that the ult in little or no data collection. As such, remote likely to yield more data. As noted above, and SP to supplement and confirm the accuracy of

Request	SCE Response
	data collected through the physical self-survey boxes, the use of trail cameras, and providing QR codes. SCE has engaged in consultation with the Sequoia National Forest regarding the use of trail cameras and physical self-survey boxes. Additional approvals and outreach with the regional Forest Service office will be required to prior to installation survey boxes and cameras.
TERR 1 – Botanical Resources	<b>Response FERC-3:</b> To clarify, the study areas described in the TERR 1 TSP are as follows:
Under the section, Extent of Study Area, the proposed study area for riparian vegetation alliances, special aquatic features, special-status plants, and non-native invasive plants is the [area within the]	• "For vegetation alliances, the study area is 1 mile around Project facilities (see Table TERR 1-1)."
C project boundary (excluding underground project features); 10 feet on either side of project ess trails; and the bypassed reach.	• "For <b>riparian vegetation alliances and special aquatic features</b> , the study area is the FERC Project boundary (excluding underground Project features); 10 feet on either side of Project access trails located outside the FERC Project boundary; and the bypass reach."
	• "For <b>special-status plants and NNIP studies</b> , the study area is the FERC Project boundary (excluding underground Project features) and 10 feet on either side of Project access trails located outside the FERC Project boundary."
Please clarify if the proposed study area includes lands located above underground project features and specify within what distance on either side of the bypassed reach would the study document these botanical resources.	<b>Response FERC-4:</b> The study area for vegetation alliances is sufficiently broad that it includes the lands overlying underground features; therefore, vegetation alliances will be mapped in areas overlying underground facilities.
	The TERR 1 TSP Extent of Study Area has been modified to clarify that the study areas for 1) riparian vegetation alliances and special aquatic features and 2) special-status plants and NNIP studies exclude underground Project features <i>and</i> lands overlying the underground Project features. The study areas overlying underground Project features (e.g., underground tunnels) are excluded because SCE does not conduct project operations and maintenance activities in these areas.
Additionally, please explain the methodological rationale for selecting the proposed 10-foot buffer around access trails as well as any proposed buffer distance selected for the bypassed reach.	<b>Response FERC-5:</b> A 10-foot buffer around Project access trails located outside of the FERC Project boundary was selected to encompass the maximum area where SCE implements routine maintenance activities (e.g., vegetation trimming and trail maintenance) plus a protective buffer.
	The bypass reach is located within a defined bed and bank, and SCE will map the full extent of riparian habitats along the reach. Information on riparian habitat along the bypass reach will be used to analyze the relationship between river flows and the location and extent of riparian habitat. SCE does not conduct routine maintenance activities (e.g., vegetation trimming) along the bypass reach; therefore, maintenance activities would not affect resources in these areas.
Lastly, the proposed study plan states "for surveys at or around project facilities that are located outside of the FERC project boundary and on private property". Please describe which project facilities are currently located outside of the project boundary.	<b>Response FERC-6:</b> Refer to Map 1 a–g for information on facilities that currently lie outside the FERC Project boundary. This includes five trails, two adits, a river gage, a stilling well, and a gaging cableway. SCE intends to modify the Project boundary to incorporate these facilities in the License Application as part of the relicensing proceeding.
The <i>Study Approach</i> section states in order to characterize the relationship between the riparian vegetation and flow conditions in the bypassed reach, that "up to 10 cross-sections" would be established "at representative locations along the bypassed reach". However, the plan does not explain for what environmental conditions (e.g., flows, vegetation types, etc.) the cross sections would be representative. The plan also does not explain if 10 is the total number of potential cross sections, or if 10 or fewer would be assessed for each type of representative environmental condition to be selected. Therefore, please describe any proposed methods and rationale for the selection of representative cross sections along the bypassed reach, including the number of cross sections.	Response FERC-7: The TERR 1 TSP Study Approach has been updated to provide additional methodology for selection of cross-sections. SCE plans to select no more than 10 total cross sections.

Request	SCE Response
The proposed study states that focused surveys for special-status plants and non-native, invasive plant species would be conducted by implementing field survey techniques including zigzag patterns, random meandering, and linear transects in the study area. However, the plan does not describe the level of effort that focused surveys would be conducted within the study area. Therefore, please provide more information on the following: the number, length/area, and type of surveys/transects (e.g., linear, zigzag) to be implemented, including the basis for the selected survey type; the number of surveyors; the minimum amount of time allocated per survey transect/area; where survey areas or transects would be located, including the basis for selecting their location (e.g., equally distributed across the study area and/or in representative vegetation alliances, specific habitat types, etc. mapped in the habitat assessment phase).	<b>Response FERC-8:</b> Botanical surveys will be conducted consistent with the <i>Proto</i> <i>Special Status Native Plant Populations and Sensitive Natural Communities</i> (CDFW botanical field surveys using systematic field techniques in all habitats of the project of effort required per given area and habitat is dependent upon the vegetation and i which determines the distance at which plants can be identified. Conduct botanical area to ensure thorough coverage, documenting all plant taxa observed." The text of the TERR 1 TSP Study Approach, Special-Status Plants, has been u Consistent with the CDFW protocol, study methods do not include vegetation sampli will cover 100 percent of the study area on foot, excluding areas that cannot be safe has not been granted by the property owner. These areas will be "surveyed" with bin possible. In terms of level of effort, SCE has allocated approximately 420 labor hours for the te to document special-status plants and NNIPs. As described in the CDFW prot structurally complex habitat types (e.g., riparian habitat occurring where trails cross te
	grassland habitats that support less diversity and are structurally less complex.
<b>TERR 2 – Wildlife Resources</b> If the proposed habitat assessment study phase indicates suitable habitat is present for a federally listed or special-status species, please clarify if additional data collection would be conducted, such as ground-truthing identified habitat and/or focused surveys. Also, describe any pre-defined conditions/criteria that would trigger additional data collection.	<b>Response FERC-9:</b> SCE will conduct focused surveys for special-status salar relictual slender salamander, and yellow-blotched salamander) and special-status spotted bat, western mastiff bat, western red bat, and fringed myotis).
	Refer to Table 2 of this document, Survey Methods for Special-Status Wildlife Spe the Vicinity of the Kern River No. 1 Hydroelectric Project, for a list of other federall occur or potentially occurring in the study area and clarification on additional data the TERR 1 TSP Study Approach, Special-Status Plants, and TERR 2 TSP Study A modified to include additional data collection described in Table 2.
	U.S. Fish and Wildlife Service attended the Terrestrial TWG meetings to review potentially occurring in the study area and proposed Terrestrial TSPs. As part of obtained on species and their habitat in the study area. The agency comments w provided to FERC in the Proposed Study Plans.
For staff to understand if sufficient existing information is available, please specify which federally listed species potentially occurring in the project area you do not propose to conduct focused, species-specific surveys and describe the basis for why you determined such surveys are not necessary, including any specific documentation of consultation with FWS.	<b>Response FERC-10:</b> Refer to Response FERC-9.
Describe the level of effort for the proposed reconnaissance surveys including: the number, length, and type of survey transects (e.g., linear, zigzag); number of surveyors; the minimum amount of time allocated per survey transect; where transects would be located, including the basis for selecting their location (e.g., equally distributed across the study area and/or in representative vegetation	<b>Response FERC-11:</b> A team of two botanists will conduct the wildlife reconnaissa on foot and will not use survey transects. For areas that cannot be safely accessed granted by the property owner, the botanists will "survey" using binoculars, to the de
ances/wildlife habitat mapped in the habitat assessment phase).	The TERR 2 TSP Study Approach has been clarified to state that reconnaissance s supporting special-status species to provide time to identify and document species-2 of this document, Survey Methods for Special-Status Wildlife Species Known to O Kern River No. 1 Hydroelectric Project.
	In terms of level of effort, SCE has allocated approximately 120 hours for a team of the alliances/wildlife habitats (as part of the TERR 1 vegetation alliances study) and 140 complete wildlife reconnaissance surveys. Incidental observation of wildlife species botanical surveys as well as other surveys conducted to support other resource are

tocols for Surveying and Evaluating Impacts to FW 2018), which requires biologists to "conduct ct area to ensure thorough coverage. The level d its overall diversity and structural complexity, cal field surveys by traversing the entire project

updated to clarify proposed survey methods. pling methods. Instead, a team of two botanists afely accessed or for which permission to enter inoculars and all plants recorded, to the degree

e team of two botanists to complete the surveys otocol, surveyors would spend more time in s tributary streams), and less time in rocky, arid

amanders (Kern canyon slender salamander, us bats (pallid bat, Townsend's big-eared bat,

pecies Known to Occur or Potentially Occur in ally listed and special-status species known to that would be collected for each species. The Approach, Special-Status Wildlife, have been

iew existing information on wildlife resources of these meetings, additional information was were addressed in the draft Terrestrial TSPs

sance survey by covering the entire study area d or for which permission to enter has not been degree possible.

survey efforts will focus on habitats potentially s-specific habitat features, as detailed in Table Occur or Potentially Occur in the Vicinity of the

two biologists for ground-truthing of vegetation 40 labor hours for the team of two biologists to cies will also be collected during the TERR 1 reas (Aquatic, Cultural, Land, and Recreation).

Request	SCE Response
Provide the time of day and conditions (e.g., weather) when surveys would and would not be conducted.	<b>Response FERC-12:</b> The TERR 2 TSP Study Approach, Special-Status Wildlif reconnaissance surveys would be conducted in the period between sunrise and s weather conditions that affect detectability (i.e., snow, sleet, or rain; high winds; extra
Describe any specific methods that would be used for the proposed identification of bird nests within the study area (e.g., determination of nest status, nest searching methods, etc.).	<b>Response FERC-13:</b> Refer to Table 2 of this document for a description of specific study area. The TERR 2 TSP Study Approach, Special-Status Wildlife, has also been methods.
The proposed study would document the configuration of project powerline poles and evaluate their consistency with Avian Power Line Interaction Committee (APLIC) guidelines. APLIC guidelines are very comprehensive in scope and include recommendations for numerous types of electrified structures and configurations with consideration to their geographic location, surrounding topography, and adjacent vegetation. The proposed study does not specify what APLIC guidelines would be reviewed and documented. Therefore, please describe the specific APLIC guidelines (e.g., phase-to-phase spacing, insulators, siting of lines, etc.) the study would document on project powerlines as well as other electrified project structures.	<ul> <li>Response FERC-14: The TERR 2 TSP currently states that Project powerlines in the with APLIC guidelines. There are only two Project powerlines in the study area (the and the Powerhouse to Forebay Communication / Powerline). Based on additional co project facility, the switchyard located at the Kern River No. 1 Powerhouse, has been evaluated to determine whether energized structures are present that may pose a p Evaluation of Project Powerline Pole Configurations).</li> <li>The TERR 2 TSP Study Approach, Evaluation of Project Powerline Pole Configurations (APLIC 2006).</li> </ul>
The proposed study plan states that past avian electrocutions and mortalities on project powerlines would be documented based on SCE and resource agency consultation. No further information is provided. Please describe what sources of information would be reviewed, including whether standardized monitoring or incidental observations of avian electrocutions and mortalities along the powerlines have been implemented to identify potential hazards to birds.	<b>Response FERC-15:</b> The TERR 2 TSP Study Approach, Evaluation of Project Powe to include a list of sources to be reviewed and agencies to consult for information on There are only two relatively short powerlines associated with the Kern No. 1 Project part of routine operations and maintenance and reports incidents consistent with SC
The <i>Extent of Study Area</i> section states that the proposed study area for wildlife reconnaissance surveys would be the FERC project boundary (excluding underground project features) and 10 feet on either side of project access trails. Please clarify the proposed extent of the study area as we also request under item 2 above under <i>TERR 1 – Botanical Resources Study</i> .	<b>Response FERC-16:</b> Refer to Map 1 a–g for information on Project facilities that lie A 10-foot buffer around Project access trails located outside the FERC Project maximum area where SCE implements routine maintenance activities (e.g., vegeta protective buffer.
U.S. Department of the Interior, National Park Service Request Filed: January 9, 2024	
<b>Proposed Study Plan, Table 2. Stakeholder Study Requests and Associated SCE Responses</b> The Draft REC 2 Technical Study Report4 proposed to collect trail use data on Project trails using two data collection methods: self-survey forms using QR codes and trail cameras. The NPS recommended that study include an option for trail users to complete paper self-survey forms and submit them in drop boxes. In response (Response NPS-4), the Applicant stated that they revised the study to use the paper self-survey forms and drop boxes in place of the QR codes and trail cameras. The NPS intended that all three options (drop boxes with paper forms, QR codes, and trail cameras) should be used to collect a more comprehensive set of data. The trail cameras would collect quantitative data (i.e., number of trail users) and user type (e.g., hikers, mountain bikers, equestrian, etc.) and the surveys would gather data on demographics and qualitative information (e.g., recreation user preferences, perceived future needs, etc.).	
The Applicant should consult with the Sequoia National Forest on the use of trail cameras on lands that they administer. While there was recent concern over the use of trail cameras in developed recreation sites (i.e., campgrounds) on Sequoia National Forest lands along the North Fork Kern River used for the Kern River No. 3 Project (P-2290), such concerns may not apply to trails and undeveloped recreation sites. However, if Sequoia National Forest expresses concerns with trail camera use, an option would be to use infra-red trail counters. These devices are not connected to a camera and only count hikers	<b>Response NPS-2:</b> Refer to Responses FERC-1 and FERC-2. SCE has consulted the use of trail cameras and self-survey boxes. Additional approvals and outreach w required prior to installation of trail cameras and self-survey boxes. SCE staff familian noted that they proved problematic as a method to count trail users because they animal movement and, therefore, make an accurate trail use count difficult.

dlife, has been updated to state that wildlife d sunset and would not be conducted during xtreme heat, etc.).

fic methods for identification of bird nests in the been modified to include a description of these

the study area will be evaluated for consistency he Intake Gatehouse to Flume No. 1 Powerline consultation with SCE field staff, one additional een added to the TERR 2 TSP, and will also be a potential risk for avian electrocution (Page 9,

gurations, has been modified to include more ractices for Avian Protection on Power Lines"

werline Pole Configurations, has been modified on past avian electrocutions in the study area.

ect. SCE conducts incidental monitoring as SCE's corporate Avian Protection Plan.

lie outside the FERC Project boundary.

ct boundary was selected to encompass the etation trimming and trail maintenance) plus a

ted with the Sequoia National Forest regarding with the Regional Forest Service office will be iliar with the use of infra-red trail counters have by pick-up all movement along trails, including

Request	SCE Response
who pass by them. They are used on USFS lands as part of the National Visitor Use Monitoring (NVUM) program, including on Sequoia National Forest lands. Since trail counters would not collect data on user types, they need be supplemented with calibration counts. These would consist of study technicians staying at each of the trail sites for a selected time during a randomly selected number of days per month over the study period. The technician would record the number and type of trail users observed and direction of travel (i.e., if they are starting their hike/ride or finishing it). The data gathered would be used to characterize the number of users captured by the trail counters.	<ul> <li>SCE is not proposing stationing in-person survey technicians along any of the Project that trail use is limited and efforts to station occasional survey technicians to intercep As such, remote collection methods designed to gather information from the intermit.</li> <li>The following information about the Project trails supplements the PAD and F stakeholders more specific information about the trails of interest.</li> <li>Project trails are trails established by SCE to conduct routine operations a trails identified in the REC 2 TSP, five trails extend east from SR 178 uphill (a water diverted from the Democrat Dam Intake to the KR1 Powerhouse. In r in significant exposure and difficult trail conditions. These trails are all less Stark Creek Trail at 1.15 miles). Three trails intersect directly with SR 178 Creek Trail, and the Lucas Creek Trail. Dougherty Creek and Stark Creek existing Project Access Road that intersects directly with SR 178. The Proje among access routes and are not official or publicly referenced names.</li> <li>The Democrat Gage Trail is the only Project trail that extends toward the rin by walking or biking down Democrat Dam Road, an existing paved Project rvia a large pull-out (with space for 10 or more cars). The pullout is adjace canyon from the public road that leads to the Democrat Raft Take-out Boatin 1 mile in length and terminates at the Democrat Rage Trailhead. This fr (approximately 500- feet) and extends downstream 0.5-miles to a Project gristing and most locations along the highway that offer an opportunitity to pull termineds'). None of the trails are formally signed, and those that are acc Gage Trail, Dougherty Creek Trail and Stark Creek Trail) are behind locke 178 and most locations along the highway that offer an opportunity to pull terminegency pull-outs; not designed as parking spots and not intended for loor Democrat Gage Trail, none of the trails offer access to a destination of rec the 'Powerhouse Trail," a Forest Service trail. The spatial loca</li></ul>
REC 2 – Recreation Facility Use Assessment	Response NPS-3: Comment noted.
Project Nexus In addition to the USFS day use areas (i.e., developed sites) located adjacent to the Democrat Dam	
impoundment at the bypass reach, recreation use at undeveloped sites along SR 178 also have a nexus to the Project. This includes sites providing access for river-related recreation (e.g., whitewater boating, fishing, hiking, picnicking, swimming, etc.) and hiking opportunities offered by Project trails that connect with USFS trails and unmarked trails. All such recreation activities have a nexus to Project operations: river flows are influenced by the Project, which affect river-related recreation and Project trails provide access for hikers to connect to USFS trails and provide opportunities for extended hikes.	

ect trails because existing information indicates ept users will result in little or no data collection. mittent user are likely to yield more data.

REC 2 TSP with the intention of providing

and maintenance of SCE facilities. Of the six (away from the river) to the Project that carries many locations, the steep topography results ss than 1-mile in length (with the exception of 78 including the Steel Flume Trail<sup>2</sup>, Cow Flat ek Trails originate from Stark Creek Road, an ject trail names are used by SCE to distinguish

river. Visitors access the Democrat Gage Trail road behind a locked gate, which is accessible icent to SR 178 approximately 0.75-mile down ing Site. Democrat Dam Road is approximately trail provides direct access to the Kern River gage location.

SR 178 dominating the narrow space between ties where Project trails intersect SR 178 (the ccessed via Project roads (i.e.., the Democrat ked gates. There is no passing lane along SR I to the shoulder are utilized for passing and/or ong-term occupation. With the exception of the ecreational interest other than, in some cases, werhouse Trail is based on GIS layers provided and conversations with SCE staff that frequent ostly informal and not necessarily a contiguous sists of game trails – a trail that lacks vegetation 2-1a- REC2-1d for the relative location of the

<sup>&</sup>lt;sup>2</sup> In December 2023 field staff identified that the Steel Flume Trail has been decommissioned and that GIS layers identifying the trail are based on remanent data. Final determination as to the existence and accessibility of the trail will precede implementation of the study.

Request	SCE Response
Study Approach Characterize Recreation Use at Developed Recreation Facilities and at Undeveloped Recreation Areas Along the Bypass Reach	<b>Response NPS-4:</b> The REC 2 TSP Study Approach has been modified to includ methodology that will be used to conduct opportunistic in-person surveys at both de locations identified as potential river access locations.
The NPS requests that the proposed study of recreation use along the bypass reach be modified to ensure that all user groups are surveyed systematically, and sample sizes are statistically significant. The PSP states that "opportunistic in-person surveys" would be delivered by the surveyor completing the vehicle counts, which would be conducted during two of three randomly selected four-hour shifts. The PSP does not provide details on the survey delivery methods, such as the duration the surveyor will be at each study site or methods used to contact recreationists. The study approach merely states that "survey technicians will be instructed to opportunistically intercept recreation users in parking lots or other safe-to-access locations during the vehicle counts." The PSP should provide additional information on how the "opportunistic" in-person surveys will be conducted: Will the intercept surveys be conducted when the surveyors are driving both directions (upstream and	
downstream) during each four-hour shift? How long will the surveyors stay at each of the developed and undeveloped recreation sites to conduct the intercept surveys?	<b>Response NPS-6:</b> Refer to Responses NPS-4 and REC 2 TSP.
Will the surveyor approach recreationists when they are near their vehicles, or will they seek out recreationists to survey?	<b>Response NPS-7:</b> Refer to Responses NPS-4 and REC 2 TSP.
How will the opportunistic survey method ensure that an appropriate number of random surveys are collected for the results to be statistically significant?	<b>Response NPS-8:</b> The objective of the REC 2 TSP as it relates to developed public locations along the bypass reach is to characterize use. The methodology proper weekday, weekend, and holiday use given the information available from the Fores Mountain Recreation) and then document the number of times capacity was met or sufficient data is not available to characterize use, then SCE would conduct on-group surveys. The survey methodology proposes surveys during the times when recreating season that the Forest Service has indicated is most popular for visitors (April through to conduct surveys on weekends, and weekdays each month, as well as during each methods to meet the objectives of the REC 2 TSP.
<b>Developed Recreation Sites</b> The vehicle counts and in-person intercept surveys are appropriate methods to use at the four developed recreation sites in the study area. These sites have available designated parking, are often filled to capacity, and can provide surveyors a safe area to work. To ensure an adequate number of recreationists are randomly selected to complete the survey (i.e., a statistically significant sample size), the surveying technique should be systematic (i.e., not opportunistic). This would be achieved by setting a specific amount of time surveyors spend at each of the four developed recreation sites and determining a general location where they intercept recreationists (e.g., stay near the parking lot exit and only survey those who have completed their recreation activity). In addition to conducting vehicle counts and in-person intercept surveys, also conduct spot counts and record the number of recreationists and types of recreation activities.	
<b>Undeveloped Recreation Sites</b> Vehicle counts and in-person intercept surveys would not likely gather sufficient data on recreation users (e.g., whitewater boaters and day users) at undeveloped sites along the bypass reach. This is due to the following reasons:	<b>Response NPS-10:</b> The objective of the REC 2 TSP as it relates to developed put recreation locations along the bypass reach is to characterize use. As noted in the F are relatively limited along the lower Kern River owing to the steep and rugged topo proximity of the highway. The Forest Service discourages swimming or wading in the cold water temperatures, and underwater hazards. <sup>3</sup> Heading east from Bakersfield enter the canyon about lives lost on the Kern River since 1968. The sign indicates t

<sup>&</sup>lt;sup>3</sup> Forest Service (United States Forest Service). 2022. Sequoia National Forest - Kern River Ranger District (usda.gov). Accessed: November 2022. Available online: https://www.fs.usda.gov/recarea/sequoia/recarea/?recid=79571

ude additional detail describing the systematic developed recreation sites and at undeveloped
lic recreation facilities and dispersed recreation
poposed to characterize use is to first estimate rest Service and/or their concessionaire (Rocky or exceeded based on use of parking spaces. If bund vehicle counts and opportunistic in-person ation day-use facilities are open and during the rough September). The methodology proposes each of the holiday periods. These are sufficient
ude additional detail describing the systematic developed recreation sites and at undeveloped
bublic recreation facilities and dispersed
e PAD, recreation facilities and improvements pography, swift flowing water, and the the bypass reach due to powerful currents, Id on SR 178 a sign warns travelers as they
s there have been 325 lives lost on the river as

Request	SCE Response
There are insufficient parking areas and/or unsafe conditions for the surveyor to pull over to conduct the surveys.	of June 2023. Despite the limited space, steep topography, and swiftness of the water river is a recreational attraction in the vicinity and visitors come to engage in streams swimming and wading.
	Vehicle counts at undeveloped locations with potential river access would yield intensity of use along the reach outside of the developed recreation sites. SCE has where there is parking adjacent to the highway sufficient to accommodate between the REC 2 TSP for images of the parking areas near locations with potential river identified as potential river access points for inclusion in the study will be determined SCE does not anticipate that these locations will provide a safe place to conduct of survey shift due to the lack of parking; however, if sufficient parking along the roadsid visitors parked there, the REC 2 TSP directs the technicians to conduct the survey. Sp to include additional detail describing the systematic methodology that will be used to both developed recreation sites and at undeveloped locations identified as potential
Recreationists would not likely be near their vehicles when the surveyor is conducting spot counts but would be dispersed away from their vehicles. This is especially true for whitewater boaters who quickly depart from their vehicles to carry their equipment to the river, and then put-in on the river. It is thus likely that whitewater boaters would be adequately represented.	<b>Response NPS-11:</b> REC-2 study objectives are focused on characterizing recre undeveloped river access points and along Project trails. Please refer to the Study which has been revised to provide information to better understand whitewater boating Kern River.
The vehicle counts alone would not provide data on types of users (kayakers, anglers, picnickers, swimmers, etc.) or provide any demographic or qualitative data. The NPS recommends the following study modifications to collect recreation use and experience data at the undeveloped recreation sites in the Project bypass reach: In addition to in-person intercept surveys, use self-administered surveys in tamper-proof boxes.	<b>Response NPS-12:</b> The objective of the REC 2 TSP as it relates to developed public locations along the bypass reach is to characterize use. Vehicle counts would yield intensity of use along the reach outside of the developed recreation sites, and opportusites (when safe) would generate additional information about user activities and exvalue that would be gained by adding self-survey boxes or cameras to these pull-or self-survey boxes or cameras at these locations: 1) both self-survey boxes and came
Determine locations for these boxes in consultation with Sequoia National Forest and American Whitewater.	to the high visibility and proximity to the highway, and 2) using these areas for river a due to frequent dangerous river conditions and therefore installation of signage (suc problematic. Finally, because of the steep and rugged topography of the canyon and recreating between the highway and the river, collecting more detailed data on necessarily create or support future need for development or improvements of these
Consult with Sequoia National Forest regarding the feasibility of using trail cameras at the undeveloped recreation sites. If determined feasible, set up trail cameras at main access points.	<b>Response NPS-13:</b> Refer to Response NPS-12.
If trail cameras are determined unfeasible, set up infrared trail counters at the undeveloped recreation access points. Supplement trail counters with calibration/spot counts.	Response NPS-14: Refer to Response NPS-12.
Randomly choose time and days for intercept surveys and spot/calibration counts that cover weekdays, weekends, and holidays.	<b>Response NPS-15:</b> The REC 2 TSP Study Approach has been modified to include methodology that will be used to conduct opportunistic in-person surveys at both device locations identified as potential river access locations.
<b>Study Duration</b> The NPS recommends data collection efforts be conducted year long, with the exception of the two day- use areas that are closed November - March. Although recreation occurs along the bypass reach all year, the PSP proposes to conduct the vehicle counts and in-person intercept surveys from April- September 2024. Two of the developed recreation sites (Democrat Raft Take-out Boating Site and Upper Richbar Day Use Area) are open year-long and should be surveyed year-long. The other two developed recreation sites (Lower Richbar Day Use Area and Live Oak Day Use Area) are open April – October and should be surveyed during this open period.	<b>Response NPS-16:</b> The REC 2 TSP Study Approach has been modified to include to recreation sites using physical tamper-proof survey boxes installed at an obvious survey boxes will be designed to collect information about user activities and user er angling and to aesthetic experience. SCE will consult with the Recreation TWG to find survey boxes will be installed at each of the locations for a 12-month period beginnin days later (in the spring of 2025). The survey forms will be collected by SCE staff needed) throughout the survey period and the self-survey boxes serviced as needed

vater along the bypass reach this stretch of mside activities including picnicking, fishing,

Id important information about frequency and has identified five potential river access points on two and 10 vehicles. Refer to Photos 1-10 in ver access. The actual undeveloped locations ined in consultation with the Recreation TWG. In the transmission of the transmission of the transmission side shoulder is available to pull off and survey Specifically, the REC 2 TSP has been modified d to conduct opportunistic in-person surveys at ial river access locations.

creation use at developed recreation sites, at udy Approach in REC-3 - Whitewater Boating ating trends and future demand within the Lower

lic recreation facilities and dispersed recreation eld important information about frequency and ortunistic in-person surveys conducted at these experience. There is limited additional data of ll-outs. Further, there are reasons not to install meras are subject to vandalism or damage due er access is discouraged by the Forest Service such as self-survey boxes) encouraging use is and the associated limited space for parking or on the use of these parking areas would not ese areas.

ude additional detail describing the systematic developed recreation sites and at undeveloped

le the collection of information at the developed us location. Short self-survey forms within the er experience, including questions pertaining to o finalize the questions in the survey form. The ning on or around April 1, 2024 and ending 365 aff and/or consultants every two weeks (or as ded to ensure functionality.

Request	SCE Response
	In addition, the REC 2 TSP has been modified to take advantage of additional opport October and March. Specifically, survey technicians travelling along SR 178 to serve the developed recreation areas and along the Project trails of focus (approximately vehicles observed during that activity. During this time period, vehicles will be count travelling west to east (upstream) on SR 178.
Recreation use data should occur year-long at the undeveloped recreation sites. Although the Project's PAD identifies that total recreation use declines considerably during the "low-use season," some activities such as fishing increase:	<b>Response NPS-17:</b> Refer to Response NPS-16.
Fishing along the lower Kern is open all year; however, fishing does not typically begin until October when water temperatures cool. Fishing continues to be good until April, prior to increased flows from runoff. (p. 3.11-7)	
The proposed study period of April – September would exclude the main fishing season. The PAD describes fishing as a the "primary recreation activity for visitors," with the majority of visitors identifying fishing as their recreation activity in the bypass reach. The PAD further states that "angling access is scattered throughout the bypass reach where highway turnouts are available." Extending the study period year-long would ensure that the best fishing periods (October – April) would be included and this primary recreation activity would be adequately represented in the study, along with other recreation activity that occurs during the "low-use season."	
Characterize Recreation Use at Selected Project Trails	<b>Response NPS-18:</b> SCE has modified the REC 2 TSP to supplement and confirm physical self survey boxes via the use of trail cameras, pending Ecrest Service and
The NPS recommends that the proposed trail study provide recreationists the option to fill out self- survey forms using QR codes and setting up trail cameras in addition to the paper self-survey forms and drop boxes. Providing an option for trail users to respond to the surveys on their mobile device would likely increase the total number of surveys completed. The surveys, either completed and inserted in the drop box or filled out online, would gather data on demographics and qualitative information (e.g., recreation user preferences, perceived future needs). The survey instrument should also include questions aimed at gathering data on perceived future trail needs and demands within the Project area and surrounding communities. The trail cameras are necessary to collect quantitative data (i.e., number of trail users) and user type (e.g., hikers, mountain bikers, equestrian, etc.). First consult with the Sequoia National Forest on the feasibility of using trail cameras to document number and type of trail users. If Sequoia National Forest requests that trail cameras not be used, use infra-red trail counters to record total trail use. Since trail counters would not collect data on user types, supplement them with calibration counts. This involves study technicians staying at each trail site for a selected time during a randomly selected number of days per month over the study period and recording the number and type of trail users observed and direction of travel (i.e., if they are starting their hike/ride or finishing it). The data gathered would be used to characterize the number of users captured by the trail counters.	physical self-survey boxes via the use of trail cameras, pending Forest Service app stationing in-person survey technicians along any of the Project trails because exis enough that efforts to station occasional survey technicians to intercept users may remote collection methods designed to gather information from the intermittent use Response NPS-2.
Estimate Future Recreation Use and Demand The NPS recommends that the study examine demand for and future potential use of developed	<b>Response NPS-19:</b> The objective of the REC 2 TSP is to characterize existing use objective in mind. SCE will consult with the Recreation TWG to finalize the questions
recreation trails in the Project area. There currently is a community-led effort to make hiking the Kern River Canyon more accessible by developing the Kern Gateway Trail on the south side of the canyon. This proposed trail system would incorporate the use of some Project trails, connecting them to USFS trails and creating a 15-mile trail from the mouth of the Kern River Canyon to Democrat Dam. The proposed Kern Gateway Trail would meet what the community-led group has identified as existing demand for developed trails in the Bakersfield area. The NPS Rivers, Trails, and Conservation Assistance (RTCA) program is assisting the community group with the trail concept.	
The study approach described in the PSP should be modified to gather data on the need and demand for improved trails in the Project area, especially since Project trails have the potential to help meet this demand. To do so, conduct focus group discussions with Kern Gateway Trail members, local hiking groups, and other interested stakeholders to gather existing knowledge on trail demand. Also use input from the focus group to determine means to gather data on "potential trail users" (i.e., those who would	<b>Response NPS-20:</b> The objective of the REC 2 TSP is to characterize existing use objective in mind. SCE will consult with the Recreation TWG to finalize the questions in the REC 2 TSP, to obtain estimates of overall trail use, characterize type of us hiking, other), and gather information pertaining to parking, safety, and access, \$

pportunities to conduct vehicle counts between ervice the physical self-survey boxes located at ately every two weeks or as needed) will count counted once, while the survey technicians are
firm the accuracy of data collected through the approval, and QR codes. SCE is not proposing existing information indicates trail use is limited ay result in little or no data collection. As such, user are likely to yield more data. Also refer to
use. The survey form will be designed with that ions in the survey form.
use. The survey form will be designed with that ons in the survey form. In addition, as described
user (e.g., mountain biking, horseback riding, s, SCE will interview Sequoia National Forest

Request	SCE Response
hike on existing Project and connecting trails if they knew about the trails or if modifications were made to enhance access). With input from these focus groups, develop a survey to be sent to local hiking groups and other existing or potential trail users that examines the need and demand for developed trails in the Project area. In order to further understand potential use, the survey should ask trail users who have not hiked on the trails within the Project area to provide reasons why they have not done so.	recreation planners, and SCE personnel and consultants that frequent the Project interested stakeholders identified by the Recreation TWG such as active Kern Gate
American Whitewater Request Filed: January 16, 2024	
REC 2 – Recreation Facility Use Assessment	<b>Response AWW-1:</b> Refer to Responses FERC-1, FERC-2 and NPS-4.
SCE's modifications to the Study Plan in the PSP trade some qualitative survey methodologies for quantitative analysis. We suggest both direct sampling (i.e. through trail counters and game cameras) as well as survey options for qualitative and prospective future use perspectives rather than using specifically one methodology for PAD-identified Project Trails and another for dispersed use sites. FERC's request for additional information on the PSP supports this approach and it is consistent with National Parks Service and Kern Gateway Trail user perspectives as well.	
SCE will need to coordinate and obtain permission for any sampling methodologies conducted on USFS lands including any direct sampling, image collection, or camera siting. This permission should be specifically gained during the Study Planning phase of the relicensing rather than an afterthought which might occur during Study Conduct.	<b>Response AWW-2:</b> Refer to Responses FERC-1, FERC-2 and NPS-4. SCE ha National Forest regarding the use of trail cameras and physical self-survey boxes Regional Forest Service office will be required to prior to installation of either.
<b>REC 3 – Whitewater Boating</b> The REC-3 study continues to utilize language related to "the whitewater boating community" when referencing actionable items in nominating participants for focus groups, identifying physical sampling locations, and other issues. We believe that this ambiguity in participation is problematic and suggest SCE either specify a process for nomination conducted and coordinated by SCE staff or contractors, or specifically identify the Technical Working-Group members that will be consulted and contacted for each step. This might involve specifying e.g. a window and process for community members to nominate participants, a specific list of individuals and interested entities that will be contacted, or similar.	<b>Response AWW-3:</b> The REC 3 TSP Study Approach has been modified to add mo individuals from the whitewater boating community with the skill level, experience, feedback as to the range of preferred flows, flow information needs, and whitewater
We also suggest that representatives of interested recreation stakeholder groups, like American Whitewater, be specifically included in study inclusion criteria, rather than requiring stakeholder representatives meet the "knowledge of the section" or "direct knowledge" criteria. Access, policy and recreation community representation experience are all relevant factors in studying the project's whitewater boating access and flows regime and those perspectives should be included in focus groups despite the technical and challenging nature of the dewatered section and its current access points.	<b>Response AWW-4:</b> Refer to Response AWW-3. As detailed in the REC 3 TSP, the Recreation TWG will be consulted throughout th TSP, including to confirm undeveloped locations along SR 178 where there are pote on the proposed self-survey forms, to provide feedback on the proposed intercept su proposed changes to the REC 3 TSP Study Approach during implementation.
We appreciate SCE's reversal on their previous indication that on-water study be precluded as an option for the prospective Level 3 study component of REC-3. The Single Flow Studies cited in SCE's PSP as conducted by American Whitewater (citations AW 2017, 2021) were not studies conducted during a FERC relicensing process and, while interesting and relevant to their specific project and design goals, should not be used as a justification for eliminating in-person or physical assessment possibilities in relicensing whitewater recreation studies. While there is a broad community understanding and history of boating within the project-affected reach, the study's Level 1 and 2 outcomes should not be presupposed and direct on-water boating might be one useful tool in a Level 3 Intensive Study.	<b>Response AWW-5:</b> As described in the REC 3 TSP, a Level 3 On-water Boating from the Level 1 Desktop Review and Level 2 Limited Reconnaissance are insuffic variety of watercraft types. The Level 3 On-water Boating Assessment, if underta directly from whitewater boaters for a variety of watercraft for the bypass reach us potentially, a controlled flow study. Consultation with the resource agencies and whi need for, and potential to, conduct a single flow study or controlled flow study. T accuracy of identifying flow preferences for a variety of watercraft types.
Currently the PSP indicates that Intensive Study should be On-Water while the Whittaker et al paper actually indicates several options for Intensive Study including: multiple flow reconnaissance; flow comparison surveys; controlled flow studies and/or supply and demand assessments. Information gathered in the Level 2 Limited Reconnaissance portion of the study should help to guide what type of intensive study to conduct.	
The currently-described controlled flow study timeline of 2 to 3 days lead time for boater participants is not adequate. Flows from Isabella are more predictable than that and analysis of	<b>Response AWW-6:</b> The REC 3 TSP Study Approach has been modified to cla identified to participate in the Level 3 Study (including the single-flow study), if warr

ct area. In addition, SCE will consult with other ateway Trail members.
has engaged in consultation with the Sequoia es. Additional approvals and outreach with the
more specificity regarding how SCE will identify e, and knowledge necessary to provide quality ter use patterns.
the process of setting up and implementing the otential river access points, to provide feedback survey forms, and for notice of any substantive
ig Assessment will be conducted only if results fficient to characterize flow preferences over a rtaken, will collect flow preference information using a single flow study for individual trips or, hitewater boating community will determine the The purpose of the studies is to improve the
clarify the process by which boaters would be arranted. The modifications specify that boaters

Request	SCE Response	
the hydrologic data, conversations with the Water Master, and other Level 1 & 2 study investigation steps should provide opportunity to give a much greater lead time for a controlled flow study. Two to three days advance notice for a controlled flow study greatly limits the type of paddlers that could participate and will hamper data collection.	provided as much advanced notice as is possible regarding when either the	
Leah Carter Request Filed: January 16, 2024		
A local community group of volunteers promotes the development of the Kern River Canyon trails. This group proposed the creation of a network of trails on the south side of the Kern Canyon, starting at the mouth of the Kern River Canyon and extending 15 miles to Democrat Dam. A network of trails was already made for the hydroelectric power plant, but these trails are not all interconnected, even though they could be. The trails are not posted as public trails, even though they are on USFS land. To promote these trails as public, improved access to parking, trailhead signage, and bathrooms would need to be added. Some portions of the KGT start on trails in the Project Study Area. These Project trails continue onto Sequoia National Forest Service land. The existing sections of the Project trails should be connected to newly formed trails to create a 15-mile continuous hiking trail above the Kern River, thus providing access to the dramatic beauty of the steep Kern River Canyon walls while viewing the beautiful Kern	Response Carter-1: Comment noted.	
River below the trail. <b>REC 2 – Recreation Facility Use Assessment</b> The study should include users of nearby existing trails in the Kern River Canyon, such as the Kern River Trail, Mill Creek Trail, and Remington Trail.	<b>Response Carter-2:</b> The objective of the REC 2 TSP with respect to trails is to che that provide access to the lower Kern River or to an existing Forest Service trail in the Project trails during the 12-month survey period will have the opportunity to comp self-survey form located in the self-survey boxes or via the QR code included as pa	
The focus groups should include local hiking groups and the Kern Gateway Trail Committee members.	<b>Response Carter-3:</b> SCE will consult with other interested stakeholders identified Gateway Trail members.	
The study should define in detail how opportunistic in-person surveys will be conducted.	Response Carter-4: Refer to Response NPS-4.	
Expand the Project to include the impact of the Project on undeveloped recreation sites along SR 178 and on Project trails.	<b>Response Carter-5:</b> The objective of the REC 2 TSP as it relates to developed pullocations along the bypass reach, and Project trails is to characterize use. Implementation that will be used at a later part of the relicensing process to study Project impacts.	
<u>Study Approach</u> Characterize Recreation Use at Developed Recreation Facilities and at Undeveloped Recreation Areas Along the Bypass Reach	<b>Response Carter-6:</b> The objective of the REC 2 TSP as it relates to develope recreation locations along the bypass reach is to characterize use.	
<u>Undeveloped Recreation Sites</u> The main Project trail that is utilized is located across the highway from the Lower Richbar Picnic Area in an unmarked parking area by a cattle gate. In order to capture the most hiker input, the undeveloped site across from the Lower Richbar Picnic Area should be included.	<b>Response Carter-7:</b> Refer to Response FERC-1.	
<b>Study Duration</b> The proposed study time is April-September 2024. The prime time to hike in the Canyon is when the weather is cool; therefore, the study duration should be modified to be conducted for the entire year.	<b>Response Carter-8:</b> SCE is proposing to capture information about trail use through trails for a 12-month period. Additionally, in response to stakeholder input, SCE has supplement and confirm the accuracy of data collected through the proposed ph cameras, pending Forest Service approval, and QR codes. These would also be example, April 2024-April 2025).	
<b>Estimate Future Recreation Use</b> The Project trails are not marked, well-defined, or accessible; therefore, the Project trails are not well- known or widely used. If the trails were marked and accessible, more hikers would utilize the Project trails. Given this, determining future use potential is essential to capture in the study. Questions on the survey and focus groups should include potential future use. The survey and focus group questions	<b>Response Carter-9:</b> The objective of the REC 2 TSP is to characterize existing us objective in mind. SCE will consult with the Recreation TWG to finalize the question	

evel 3 Study is determined to be necessary and gle flow or the controlled flow study would take articipating in either the single flow or controlled ely conduct the Level 3 Study.
characterize recreation use along Project trails in the vicinity of the Project. Hikers who utilize mplete the survey form using either the physical part of the self-survey box signage.
ed by the Recreation TWG such as active Kern
public recreation facilities, dispersed recreation mentation of the TSP will generate information s.
oped public recreation facilities and dispersed
ugh self-survey boxes installed along the Project as modified the REC 2 TSP Study Approach to physical self-survey boxes via the use of trail be installed for a 12-month survey period (for
use. The survey form will be designed with that ons in the survey form.

Request	SCE Response
should be distributed to local hiking groups for input. Users of nearby established hiking trails should be	
included in the surveys and focus groups to help determine future use.	

## Kern River No.1 Hydroelectric Project (FERC Project No. 1930)

# Table 2. Survey Methods for Special-Status Wildlife Species Known to Occur or Potentially Occur in the Vicinity of the Kern River No. 1 Hydroelectric Project

Scientific/Common Name	Federal Status	Forest Service Status	State Status	Habitat	
Terrestrial Invertebrates		•			
<i>Danaus plexippus</i> monarch butterfly	FC			Overwintering population in coastal California. In late-February or March, monarchs will disperse from wintering areas to interior California. Quality habitat includes milkweed ( <i>Asclepias</i> spp.) which occur in short and tall grass prairies, livestock pastures, agricultural margins, roadsides, wetland and riparian areas, sandy areas, gardens, open forests, and woodlands.	<ul> <li>Monarch butterfly does not ov during the breeding cycle wou host plant, milkweed (Asclepi</li> <li>Habitat for Monarch butterfly conjunction with special-statu</li> <li>The Study Approach for TER that botanists will record the f monarch butterfly (Asclepias</li> <li>GPS location</li> <li>Approximate size of p</li> <li>Estimated number of</li> <li>In addition, any observations reconnaissance surveys, or ir documented consistent with r</li> </ul>
Amphibians					
<i>Batrachoseps simatus</i> Kern Canyon slender salamander	FPT	FSCC	СТ	Found in north-facing slopes in narrow canyons shaded by foothill woodland and riparian areas along creeks. Found under rocks, fallen limbs and leaf litter. Endemic to the Kern River Canyon from 1,500 to 4,000 feet in elevation.	Focused surveys will be conducte TSP for detailed study methods.
				This species is known to occur in the study area.	
<i>Batrachoseps relictus</i> relictual slender salamander	FPE	FSCC	CSC	Found in seepages and springs in rocky areas with scanty tree cover, in a matrix of foothill woodland or riparian areas in creek bottoms. Rarely found far from surface water. Found at elevations ranging from 1,500 to 6,500 feet. This species is known to occur in the study area.	
Ensatina eschscholtzii croceator		FSCC	WL	Found in tributaries of lower elevation canyons. Found close to streams	
yellow-blotched salamander				and under rocks and logs and become active after precipitation events between January to April. Generally found around seeps and drainages and under the canopy of trees (Germano 2006).	
				This species is known to occur in the study area.	

#### Study Methods

overwinter in the study area. Presence of this species ould be assumed through presence of populations of its epias species) (USFWS 2020).

ly (i.e., milkweed populations) would be mapped in atus plant surveys (TERR 1 TSP).

RR-1 TSP and TERR 2 TSP have been modified to state e following data for each population of the host plant for as species) identified in the study area:

of population (in acres/square feet)

of individuals

ns of monarch butterflies observed during wildlife r incidentally observed during other studies, would be h methods described in the TERR 2 TSP.

cted for special-status salamanders. Refer to the TERR 2

Scientific/Common Name	Federal Status	Forest Service Status	State Status	Habitat		
Spea hammondii western spadefoot	FPT		CSC	Prefers open areas with sandy or gravelly soils, in a variety of habitats such as mixed woodlands, grasslands, coastal sage scrub, chaparral, sandy washes, lowlands, river floodplains, alluvial fans, playas, alkali flats, and mountains. Requires ephemeral rainpools without non-native predators for breeding. Up to 4,500 feet in the southern Sierra foothills.	•	Habitat for the northern clade in close proximity to aquatic h gravel washes, or seasonal s Individuals spend a majority of burrows, emerging only to bre surface activity is nocturnal. ( Grassland habitat for western alliance studies conducted as Specific habitat elements wor surveys, focusing on grasslar habitats for breeding. The TE that the following data will be spadefoot (e.g., ephemeral po observed during wildlife recor special-status salamanders:
Reptiles	_		<u> </u>		ļ	. ,
<i>Aniella</i> spp. California legless lizard	_	_	CSC	Found in loose soil in sparsely vegetated areas, commonly in sandy washes, oak woodland, mixed conifer forest, and stream terraces.	•	The five terrestrial reptiles po variety of habitats. During wild features such as loose soils,
<i>Arizona elegans occidentalis</i> California glossy snake	_	-	CSC	Found in arid scrubby areas, rocky washes, grasslands, and chaparral in southern Sierra Nevada foothills and coast ranges. Ranges from the eastern San Francisco Bay area south to Baja California.	•	for cover would be noted. Surveyors will look for the pre Joaquin coachwip, and cost h
<i>Masticophis flagellum ruddocki</i> San Joaquin coachwhip	_	_	CSC	Found in open, dry, treeless areas with little or no cover, including valley grasslands and saltbush scrub. Hides in rodent burrows, shaded vegetation, and under surface objects.	•	Species such as the legless I conditions and/or are nocturn focused surveys for special-s
<i>Phrynosoma blainvillii</i> coast horned lizard		_	CSC	Found in open areas of sandy soil in valleys, foothills, and semiarid mountains. Prefers areas of low vegetation within grasslands, forests, woodlands, and chaparral. Commonly found along sandy washes and dirt roads. The elevational range extends up to 4,000 feet in the Sierra Nevada foothills and up to 6,000 feet in the mountains of southern California.	•	biologists will employ routine rocks, and other substrate for
				This species is known to occur in the study area.		

#### **Study Methods**

de of western spadefoot includes open grassland habitat habitats such as temporary vernal or rain pools, sand or streams (free of predators) for breeding (USFWS 2023). of their life cycle in a torpor state in underground preed following seasonal rains in winter and spring. Most . (USFWS 2023).

rn spadefoot would be mapped in conjunction vegetation as part of the TERR 1 TSP.

ould be evaluated during wildlife reconnaissance and habitats potentially supporting adjacent aquatic ERR 2 TSP Study Approach has been clarified to state be recorded for any suitable breeding habitat for western pools or seasonal streams that are free of predators) connaissance surveys or during the habitat evaluation for

or stream

e upland grassland habitats

es is rarely above-ground and is nocturnal when active, observed during wildlife reconnaissance surveys. tential for individuals to be present above-ground and lling from breeding habitats) during focused surveys for which are conducted at night following seasonal rains. identally observed during these surveys (or any other d consistent with methods described in the TERR 2 TSP.

potentially occurring in the study area inhabit a wide vildlife reconnaissance surveys, small-scale habitat s, small burrows, and areas with downed woody debris

resence of individuals of California glossy snake, San t horned lizard during wildlife reconnaissance surveys.

lizard and Sierra night lizard that prefer moister rnal may be observable during implementation of -status salamanders.

aissance surveys and special-status salamander surveys, e methodologies such as searching under downed wood, for the presence of these species.

ng wildlife reconnaissance or during the habitat evaluation lers will be recorded, consistent with methods described

Scientific/Common Name	Federal Status	Forest Service Status	State Status	Habitat	
<i>Xantusia vigilis</i> Sierra night lizard	_		CSC	Found in the Greenhorn mountains in the southwest Sierra Nevada. It is found in association with yucca, foothill pine, chamise, pinyon pine, and juniper. Can be found under yucca logs and other cover. Occurs at elevations of 990 to 6,800 feet. Activity may begin in early April at low elevations and last until early fall, while emergence may be retarded until late springs at higher elevations.	
Birds					
<i>Aquila chrysaetos</i> golden eagle	BCC Eagle Act	_	CFP (nesting and wintering), WL	Grasslands and early successional stages of forest and shrub habitats for foraging at elevations up to 11,500 feet. Secluded cliffs with overhanging ledges or large trees in open areas with unobstructed view for nesting.	<ul> <li>General habitat for cliff-nesting falcon, American peregrine fal vegetation alliance studies cor</li> <li>More detailed mapping of cliff</li> </ul>
<i>Falco mexicanus</i> prairie falcon	—	-	WL	Nests on high cliff faces and requires open terrain for foraging. Occurs in annual grasslands, alpine meadows, but primarily associated with perennial grasslands, savannahs, rangeland, agricultural fields, and desert scrub. Not found in upper elevations of Sierra Nevada.	<ul> <li>would be completed during wil</li> <li>The TERR 2 TSP Study Approved reconnaissance survey, cliff har will be inspected (using binoculous)</li> </ul>
<i>Falco peregrinum anatum</i> American peregrine falcon			CFP	Very uncommon breeding resident and uncommon as a migrant. Breeds in woodlands, forests, coastal habitats, and riparian areas near wetlands, lakes, rivers, or other water on high cliffs, banks, dunes, or mounds. Active nesting sites are known along the coast, in the Sierra Nevada, and in the mountains of northern California. Migrants occur along the coast and the western Sierra Nevada in spring and fall.	<ul> <li>Nest searches would be condustry systematically scan large trees of stick nest material, whitewaraptors.</li> <li>The following additional data volume or GPS location/map material</li> </ul>
<i>Gymnogyps californianus</i> California condor	FE		CE, CFP	Endangered, permanent resident of the semi-arid, rugged mountain ranges surrounding the southern San Joaquin Valley, including the Coast Ranges from Santa Clara County south to Los Angeles County, the Transverse Ranges, Tehachapi Mountains, and southern Sierra Nevada. Forages over wide areas of open rangelands, roosts on cliffs and in large trees and snags. Found mostly below 9,000 feet. Nests in caves, crevices, or sandstone ledges, typically at elevations below 6,500 feet.	<ul> <li>Photograph</li> <li>Description of nest</li> <li>Status of nest – active</li> <li>Number of adults pres</li> <li>Number of eggs/youn</li> <li>In addition, any observations or reconnaissance surveys or incomplete</li> </ul>
<i>Accipiter gentilis atricapillus</i> northern goshawk		FSCC	CSC	This species is known to occur in the study area.Middle to high elevation, mature, dense conifer forests for foraging and nesting. Casual in foothills during winter, northern deserts in pinyon- juniper woodland, and low elevation riparian habitats.	<ul> <li>documented consistent with m</li> <li>Northern goshawk, Vaux's sw coniferous forest habitat. In ac rivers for foraging. Forested has a second seco</li></ul>
<i>Chaetura vauxi</i> Vaux's swift	-	-	CSC	Fairly common in the coast ranges north of Sonoma County, in the Sierra Nevada, and Cascade range. Nests in redwood and Douglas-fir habitats in large hollow trees and snags. Forages in open areas and over water.	<ul> <li>eagles) will be mapped and gr conducted as part of the TERI</li> <li>More detailed mapping of con may support these species, w</li> </ul>
<i>Haliaeetus leucocephalus</i> bald eagle	Eagle Act	FSCC	CE, CFP	Year-round resident in ice-free regions of California. Foraging areas include regulated and unregulated rivers, reservoirs, lakes, estuaries, and coastal marine ecosystems. Majority of bald eagles in California breed near reservoirs and nests are usually located within 1 mile of foraging habitat. Nests are typically placed in the branches of large conifer trees within dense stands of trees (Jackman and Jenkins 2004).	<ul> <li>surveys. Such elements would large trees or snags with cavit potentially supporting prey spe</li> <li>The TERR 2 TSP Study Approres reconnaissance survey, wood these species will be inspected</li> </ul>

#### **Study Methods**

ting eagles and raptors such as golden eagle, prairie falcon, and California condor will be mapped in the conducted as part of the TERR 1 TSP.

liff habitats that may support nests for these species wildlife reconnaissance surveys.

proach has been clarified to state that, during the wildlife f habitat in and immediately surrounding the study area oculars) for the presence of nests.

nducted by using binoculars and/or spotting scopes to ees and suitable crevices on cliffs for large aggregations wash, and/or prey remains that indicate the presence of

a will be recorded for each nest observed: markup

tive or inactive

resent

ung, if visible

is of non-breeding individuals observed during wildlife incidentally observed during other studies would be n methods described in the TERR 2 TSP.

swift, bald eagle, and California spotted owl all utilize addition, bald eagles require large lakes, reservoirs, and habitats (and potential aquatic foraging habitat for bald ground-truthed in conjunction vegetation alliance studies ERR 1 TSP.

oniferous forest habitat, including habitat elements that would be mapped during wildlife reconnaissance ould include (but are not limited to) dense canopy cover, wities; and large amounts of downed woody debris species (rodents) for goshawks and owls.

proach has been clarified to state that, during the wildlife oded habitats that support potential nesting habitat for cted for the presence of nests. Nest searches would be

Scientific/Common Name	Federal Status	Forest Service Status	State Status	Habitat		
Strix occidentalis occidentalis California spotted owl	BCC	FSCC	CSC	Dense, old growth, multi-layered mixed conifer, redwood, Douglas-fir, and oak woodland habitats in the western slope of the Sierra Nevada, from sea level to elevations of approximately 7,600 feet.	•	conducted using binoculars a trees for aggregations of stick indicate the presence of rapto The following additional data o GPS location/map ma o Photograph o Description of nest o Status of nest – activ o Number of adults pre o Number of eggs/your In addition, any non-breeding surveys or incidentally observed species foraging in the study
Ammodramus savannarum grasshopper sparrow	_	_	CSC	Grassland habitats with dense escape cover and tall herbaceous plants for perches.	•	Grasshopper sparrow, northe habitats. Grassland habitats p ground-truthed in conjunction
<i>Circus cyaneus</i> northern harrier	BCC	_	CSC	A common winter visitor in southern California, but an increasingly rare breeding species in the region. Nests on the ground in marshes or grassy meadows. Feed on ground-dwelling mammals and other prey. They are migratory birds that spend winters in California.	•	TERR 1 TSP. During the wildlife reconnaiss inspected for the presence of Nest searches for grassland b
<i>Lanius ludovicianus</i> loggerhead shrike			CSC	Prefers open habitats with scattered shrubs, trees, posts, fences, utility lines, or other perches in the lowlands and foothills throughout California.	•	habitats and searching for evid adults carrying nesting materia birds to the nest location with The following additional data w o GPS location/map ma o Photograph o Description of nest o Status of nest – active o Number of adults pres o Number of eggs/your In addition, any non-breeding surveys or incidentally observ consistent with methods desc
<i>Agelaius tricolor</i> tricolored blackbird	BCC	_	CSC	Breeding habitat includes dense riparian vegetation with nearby accessible water and suitable foraging space for insect prey within a few kilometers of the nesting colony. Often forms large breeding colonies. Wintering habitat includes grasslands and agricultural fields with low- growing vegetation.	•	Tricolored blackbird, southwe martin, and yellow warbler all supporting these species will vegetation alliance studies, ar bypass reach, conducted as p
<i>Empidonax traillii extimus</i> southwestern willow flycatcher	FE	_	CFP	Found only in southern California, this species breeds in dense riparian tree and shrubs associated with rivers, swamps, wetlands, lakes, and other large water bodies at elevations ranging from 2,000 to 8,500 feet. Riparian habitat must be at least 0.25 acre in size and 30 feet wide to support nesting.	•	During wildlife reconnaissance would be inspected for the pre Nest searches for riparian bird habitats and looking for evider

# **Study Methods** and/or spotting scopes to systematically scan large ck nest material, whitewash, and/or prey remains that otors or swifts. a will be recorded for each nest observed: markup tive or inactive resent ung, if visible ng individuals observed during wildlife reconnaissance erved during other studies would be documented scribed in the TERR 2 TSP. Any observations of these y area will be recorded. nern harrier, and loggerhead shrike all utilize grassland potentially supporting these species will be mapped and on vegetation alliance studies conducted as part of the ssance survey, grasslands in the study area will be of these species and their nests. birds would be conducted by meandering in grassland evidence of reproductive behaviors (i.e., singing males; erials, food, or fecal sacs; etc.) and tracking the adult th binoculars. a will be recorded for each nest observed: markup tive or inactive resent ung, if visible ng individuals observed during wildlife reconnaissance erved during other studies would be documented scribed in the TERR 2 TSP. vestern willow flycatcher, yellow-breasted chat, purple all utilize riparian habitats. Riparian habitats potentially ill be mapped and ground-truthed in conjunction and during mapping of riparian habitats along the part of the TERR 1 TSP. nce surveys, riparian habitats present in the study area presence of these species and their nests. pirds would be conducted by meandering in riparian dence of reproductive behaviors (i.e., singing males;

Scientific/Common Name	Federal Status	Forest Service Status	State Status	Habitat		
<i>Icteria virens</i> yellow-breasted chat	_		CSC	An uncommon summer resident and migrant in Coastal California and the foothills of the Sierra Nevada. Breeds in valley foothill riparian and desert riparian habitats. Requires riparian thickets of willow and brushy tangles near watercourses for cover. Found at elevations up to 4,800 ft in valley foothill riparian habitats and up to 6,500 ft in the eastern Sierra Nevada.	•	adults carrying nesting mater birds to the nest location with The following additional data GPS location/map m Photograph Description of nest Status of nest – activ Number of adults pro Number of eggs/you In addition, any observations reconnaissance surveys or in documented consistent with
<i>Progne subis</i> purple martin	_	_	CSC	An uncommon, local summer resident in wooded low-to-mid elevation habitats. Found in valley foothill, montane hardwood, montane hardwood- conifer, and riparian habitats. Nests in tall, old trees near an open body of water, and occasionally in residential areas.		
<i>Setophaga petechica</i> yellow warbler	_		CSC	Breeds in riparian woodlands from coastal and desert lowlands at elevations up to 8,000 feet in the Sierra Nevada. Also breeds in montane chaparral, open ponderosa pine, and mixed conifer habitats with substantial amounts of brush.		
Mammals		•	-			
<i>Antrozous pallidus</i> pallid bat	_	FSCC	CSC	Grasslands, shrublands, woodlands, and forests from sea level to 10,000 feet in elevation. Typically, day-roosts in caves, crevices, or mines. Night roosts are in more open areas. Requires open habitat for foraging. Pallid bat hibernates in winter. The maternity season is April – July.	•	Focused surveys will be cond TSP for detailed study metho
<i>Corynorhinus townsendii</i> Townsend's big-eared bat	_	FSCC	CSC	Found in all but alpine and subalpine habitats; most abundant in mesic habitats up to 6,000 feet in elevation. Requires caves, mines, tunnels, buildings, or other man-made structures for roosting. Hibernates October through April. Locally migratory only. Extremely sensitive to disturbance and may abandon a roost if disturbed. The Inyo National Forest is known to provide hibernacula, but likely does not support maternity roosts because of its high elevation (USDA-FS 2018b). Their maternity season is May – August.		
				This species is known to occur in the study area.		
<i>Euderma maculatum</i> spotted bat	—	_	CSC	A widespread, but rare species throughout the western United States. Found in habitats that range from deserts to yellow pine forest. Roosts in caves, rocky crevices and snags and requires open water.		
<i>Eumops perotis californicus</i> western mastiff bat	_	_	CSC	Found in variety of habitats including desert scrub, chaparral, oak woodland, ponderosa pine, meadows and mixed conifer forests up to 4,600 feet in elevation. Distribution is likely limited by availability of significant rock features offering suitable roosting habitat.		
				This species is known to occur in the study area.		
<i>Lasiurus blossevillii</i> western red bat			CSC	Roosts in forests and woodlands from seal level up through mixed mesic conifer forests in coastal ranges and the Sierra Nevada. Forages in a variety of habitats including croplands, grasslands, shrublands, and open woodlands and forests. Prefers solitary roosts in trees and occasionally shrubs.		

#### Study Methods

terials, food, or fecal sacs; etc.) and following the adult ith binoculars.

ta will be recorded for each nest observed: markup

tive or inactive

present

oung, if visible

ons of non-breeding individuals observed during wildlife or incidentally observed during other studies would be ith methods described in the TERR 2 TSP.

onducted for special-status bats. Refer to the TERR 2 hods.

Scientific/Common Name	Federal Status	Forest Service Status	State Status	Habitat	
<i>Myotis thysanodes</i> fringed myotis		FSCC	CSC	Optimal habitats are pinyon-juniper, valley foothill hardwood, and hardwood-conifer, generally at elevations of 4,000 to 7,000 feet msl. Roosts in caves, mines, buildings, and crevices. Separate day and night roosts may be used. Uses open habitats, early successional stages, streams, lakes, and ponds as foraging areas. Migratory species, making relatively short, local movements to suitable hibernacula.	
				This species is known to occur in the study area.	
<i>Bassariscus astutus</i> ringtail	_		CFP	Found in most forest and shrub habitats in close association with rocky and/or riparian areas, usually not more than 0.6 miles from water. Dens in hollow trees, snags, or other cavities.	<ul> <li>Riparian habitats potentially s vegetation alliance studies, ar bypass reach, conducted as p</li> <li>It is unlikely that these species reconnaissance surveys. Rat presence of habitat.</li> </ul>
				<ul> <li>In the case that any individual or incidentally observed during documented consistent with n</li> </ul>	
<i>Onychomys torridus tularensis</i> Tulare grasshopper mouse			CSC	Habitats include compact soils with a sparse growth of perennial grasses; blue oak savannas; desert scrub associations composed of grasses and shrubs; valley sink and saltbush scrub communities on the valley floor; and valley grassland. The historic range of the Tulare grasshopper mouse extended along the foothills and floor of the southern San Joaquin Valley from western Merced and eastern San Benito counties, east to Madera County, and south to the foothills of the Tehachapi and San Emigdio mountains. It also occurs on the Carrizo Plain in eastern San Luis Obispo County, Cuyama Valley, Caliente Creek Wash in southern Kern County, Weldon and Kelso Valley in northeastern Kern County, the Tulare Basin, and the Panoche Valley. Elevation range is between 279 to 2,650 feet.	<ul> <li>Tulare grasshopper mouse, A grassland and shrubland habi</li> <li>Grassland and shrubland habi mapped and ground-truthed in part of the TERR 1 TSP.</li> <li>During the wildlife reconnaissa study area will be inspected for may provide habitat for or indi</li> <li>Smaller burrows (which may provide habitat for or indi photographed. The following a start of the f</li></ul>
<i>Taxidea taxus</i> American badger		_	CSC	<ul><li>This species is considered a furbearing mammal under the California Fish and Wildlife Code.</li><li>Occurs throughout most of the state in areas with dry, friable soils. It is most abundant in drier open stages of most shrub, forest, and herbaceous habitats up to 12,000 feet in elevation.</li></ul>	<ul> <li>observed that may provide ha</li> <li>OPS location/map ma</li> <li>Photograph</li> <li>Approximate dimensi</li> <li>Substrate conditions</li> </ul>
<i>Vulpes macrotis mutica</i> San Joaquin kit fox	FE	_	СТ	Grasslands and shrubland areas in the San Joaquin Valley with friable soils for building underground dens. Denning begins around September, mating occurs from December to March, and pups are born February through April. No critical habitat rules have been published for this species.	<ul> <li>Substrate conditions</li> <li>Animal sign in vicinity</li> <li>In addition, any non-breeding surveys or incidentally observ consistent with methods desc</li> </ul>

#### **Study Methods**

/ supporting ringtail will be mapped and ground-truthed in and during mapping of riparian habitats along the s part of the TERR 1 TSP.

cies would be directly observed during wildlife Rather, their presence would be assumed based on the

uals are observed during wildlife reconnaissance surveys ring other studies, such observations would be n methods described in the TERR 2 TSP.

, American badger, and San Joaquin kit fox utilize open abitats.

abitats potentially supporting these species will be d in conjunction vegetation alliance studies conducted as

ssance survey, grassland and shrubland habitats in the I for the presence of suitable substrates and burrows that indicate the presence of these species.

y provide habitat rodents such as the Tulare grasshopper al lizards and amphibians) will be documented and g additional data will be recorded for each large burrow habitat for American badgers or kit foxes.

markup

nsions of burrow

nity of burrow (e.g., scat)

ng individuals observed during wildlife reconnaissance erved during other studies would be documented scribed in the TERR 2 TSP.

Table 3.	Relevant Resource Agency Jurisdiction/Management Goals
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Agency	Resource Agency Jurisdiction/Management Goals	AQ-1 Hydrology	AQ 2 - Water Quality/Water Temperature	AQ 3 - Fish Population	CUL 1 – Built Environment	CUL 2 – Archaeological Resources	TRI 1 – Tribal Resources	LAND 1 – Road and Trail Condition Assessment	LAND 2 – Erosion and Sedimentation	REC 1 - Recreation Facility Condition Assessment	REC 2 - Recreation Facility Use Assessment	REC 3 - Whitewater Boating	TER-1 Botanical Resources	TERR-2 Wildlife Resources
California Department of Fish and Wildlife	In the State of California, fish and wildlife resources are held in trust for the people of the state, and the California Department of Fish and Wildlife (CDFW) has statutory responsibility for managing and protecting all fish, wildlife, and habitat to support these species in the public interest (Cal. Fish and Game Code § 711.7). The CDFW has jurisdiction over the conservation, protection, and management of fish, wildlife, native plants, and habitat necessary for biologically sustainable populations of those species (Cal. Fish and Game Code § 1802).	х	x	x					x				х	x
California Office of Historic Preservation	The California Office of Historic Preservation (OHP) is charged with ensuring that projects and programs carried out or sponsored by federal and state agencies comply with federal and state historic preservation laws and that projects are planned in ways that avoid or minimize adverse effects to heritage resources. Federal and federally-sponsored programs and projects are reviewed pursuant to Sections 106 and 110 of the National Historic Preservation Act (NHPA). Section 106 of the NHPA, as amended, requires federal agencies to consider the effects of proposed federal undertakings on historic properties. The NHPA's implementing regulations found in 36 CFR Part 800, require federal agencies (and their designees, permitees, licensees, or grantees) to initiate consultation with the State Historic Preservation Officer (SHPO) as part of the Section 106 review process.				х	x	x							
National Park Service	The National Park Service (NPS) has authority to consult with FERC and applicants concerning a Project's effects on outdoor recreation resources under the Federal Power Act (18 CFR 4.38(a), 5.41 (f)(4)-(6), and 16.8(a)); the Outdoor Recreation Act (Public Law [PL] 88-29); the National Park Service Organic Act (39 Stat. 535); and the Wild and Scenic Rivers Act (PL 90-542). It is the policy of the NPS to represent the national interest regarding recreation, and to assure that hydroelectric projects subject to relicensing recognize the full potential for meeting present and future public outdoor recreation demands, while maintaining and enhancing a quality environmental setting for those projects. Investigating opportunities to improve the recreation needs.									x	x	x		

Agency	Resource Agency Jurisdiction/Management Goals	AQ-1 Hydrology	AQ 2 - Water Quality/Water Temperature	AQ 3 - Fish Population	CUL 1 – Built Environment	CUL 2 – Archaeological Resources	TRI 1 – Tribal Resources	LAND 1 – Road and Trail Condition Assessment	LAND 2 – Erosion and Sedimentation	REC 1 - Recreation Facility Condition Assessment	REC 2 - Recreation Facility Use Assessment	REC 3 - Whitewater Boating	TER-1 Botanical Resources	TERR-2 Wildlife Resources
	Before FERC can issue a new license, the Licensee must obtain water quality certification from the State Water Board pursuant to Section 401(a)(1) of the federal Clean Water Act (CWA) (33													
	U.S.C. § 1341 (a)(1)). Section 401 of the CWA requires any applicant for a federal license or permit, which may result in any discharge to navigable waters, to obtain water quality certification from the State Water Board that the discharge will comply with the applicable provisions of section 301, 302, 303, 306, and 307 of the CWA.													
State Water Resources Control Board	Under Section 303 of the CWA and under the Porter-Cologne Water Quality Control Act, the Central Valley Regional Water Quality Control Board adopted, and the State Water Board and United States Environmental Protection Agency (USEPA) approved, the Water Quality Control Plan for the Tulare Lake Basin (Basin Plan). The Basin Plan designated beneficial uses of waters to be protected along with the water quality objectives necessary to protect those uses. The Basin Plan identified the following beneficial uses for the Kaweah River, upstream of Lake Kaweah: municipal and domestic supply; power, contact recreation; non-contact recreation; warm freshwater habitat; cold freshwater habitat, wildlife habitat; rare, threatened, or endangered species; spawning, reproduction, and/or early development; and freshwater replenishment. These beneficial uses also apply to the tributaries of the Kaweah River.	х	х	х			х		X			x		
U.S. Fish and Wildlife Service	The U.S. Fish and Wildlife Service (USFWS) has adopted an ecosystem approach to fish and wildlife resource conservation. This approach requires protecting or restoring the function, structure, and species composition of an ecosystem while providing for its sustainable socioeconomic uses. The USFWS's overall goal is to restore and protect fish and wildlife resources. Included in the ecosystem approach is conservation of ecosystems that support species listed under the Endangered Species Act (ESA).	Х	x	Х					x			x	х	x

CWA = Clean Water Act ESA = Endangered Species Act FERC = Federal Energy Regulatory Commission NHPA = National Historic Preservation Act NPS = National Park Service OHP = Office of Historic Preservation

PL = Public Law

SHPO = State Historic Preservation Officer

USEPA = U.S. Environmental Protection Agency USFWS = U.S. Fish and Wildlife Service

Technical Study Plan	Total Estimated Cost	Total Level of Effort (Labor Hours)
Aquatic Resources		•
AQ 1 - Hydrology	\$144,000	755
AQ 2 - Water Quality/Water Temperature	\$503,000	2,749
AQ 3 - Fish Population	\$224,000	1,186
Total	\$871,000	4,690
Cultural and Tribal Resources		
CUL 1 – Built Environment	\$47,000	315
CUL 2 – Archaeological Resources	\$112,000	870
TRI 1 – Tribal Resources	\$147,000	1,073
Total	\$306,000	2,258
Land Resources		
LAND 1 – Road and Trail Condition Assessment	\$63,000	344
LAND 2 – Erosion and Sedimentation	\$73,000	399
Total	\$136,000	743
Recreation Resources		
REC 1 – Recreation Facility Condition Assessment	\$44,000	359
REC 2 - Recreation Facility Use Assessment	\$260,000	1,975
REC 3 – Whitewater Boating	\$136,000	711
Total	\$440,000	3,045
Terrestrial Resources		
TERR-1 Botanical Resources	\$239,000	1,279
TERR-2 Wildlife Resources	\$290,000	1,739
Total	\$529,000	3,018
Project Total	\$2,282,000	13,754

# Table 4. Level of Effort and Cost for Completing the RSP

Responsible Entity	Milestone	Date	FERC Regulation
SCE	File Proposed Study Plan	10/17/2023	5.11(a)
All Stakeholders	Study Plan Meeting	11/16/2023	5.11(c)
All Stakeholders	File Comments on SCE's Proposed Study Plan Due	1/16/2024	5.12
SCE	File Revised Study Plan	2/14/2024	5.13(a)
All Stakeholders	File Comments on SCE's Revised Study Plan	2/29/2024	5.13(b)
FERC	Issue Study Plan Determination	3/15/2024	5.13(c)
Mandatory Conditioning Agencies	File Any Study Disputes	4/4/2024	5.14(a)
Dispute Panel	Select Third Dispute Resolution Panel Member	4/19/2024	5.14(d)
Dispute Panel	Convene Dispute Resolution Panel	4/24/2024	5.14(d)(3)
SCE	File Comments on Study Disputes	4/29/2024	5.14(i)
Dispute Panel	Dispute Resolution Panel Technical Conference	5/6/2024	5.14(j)
Dispute Panel	Issue Dispute Resolution Panel Findings	5/24/2024	5.14(k)
FERC	Issue Director's Study Dispute Determination	6/13/2024	5.14(I)

 Table 5.
 FERC's Study Plan Development Schedule

# Table 6. Technical Study Plan Implementation Schedule

Technical Study Plan					20	024										202	25									20	26			
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AQ 1- Hydrology	1 - 1		1 2		<u> </u>	<u> </u>	<u> </u>	- 1				·			- 1		-		- 1 -		<u> </u>	<u> </u>		1 -		<u> </u>	<u> </u>			
Collaborate with stakeholders on the approach for refining the hydrology,																														
as appropriate, and developing Project Operations Model																														
Refine the Project hydrology and associated operations model																														
Complete the hydrologic alteration analysis																														
Prepare Draft Technical Memo																														
Distribute Draft Technical Memo to stakeholders																														
Stakeholder review and comment period																														
Resolve Comments/Prepare Final Technical Memo																														
Distribute Final Technical Memo in Draft License Application																														
AQ 2 – Water Quality/Water Temperature					-	-		,					1 1		I I									<b>I</b> I	-			LI		t t
Install water temperature probes and conduct spring water quality in-situ											1	1																		
and grab sampling																														
Maintain water temperature probes																														
Conduct bacteria sampling at four day-use recreation areas																														
Conduct summer/fall water quality in-situ and grab sampling																														
Analyze Data/Prepare Draft Technical Memos (Year 1 and Year 2 results)																														
Distribute Draft Technical Memos to stakeholders (Year 1 and Year 2)																														
Stakeholder review and comment periods (Year 1 and Year 2)																														
Resolve Comments/Prepare Final Technical Memos (Year 1 and Year 2)																														
Distribute Final Memos (Year 1 – Draft License Application and Year 2 – Final License Application)																														
AQ 3 – Fish Population	-	I I		_	-				-	_			1 1						I	_			-	<u>I I</u>		-	-	Į		to the second se
Select fish population sampling sites in collaboration with interested	1										1	1	1 1									I								
resource agencies																														
Conduct quantitative/qualitative fish sampling																														
Analyze Data/Prepare Draft Technical Memo																														
Distribute Draft Technical Memo to stakeholders																														
Stakeholder review and comment period																														
Resolve Comments/Prepare Final Technical Memo																														
Distribute Final Technical Memo in Draft License Application																														
CUL 1 – Built Environment	-			_	-	4				_										_	1			<u> </u>		-				t - t
Archival Research																														
Fieldwork																														
Analyze Data/Prepare Draft Memo																														
Distribute Draft Memo																														
Stakeholder Review																													-	
Resolve Comments/Prepare Final Memo																													-	
Develop Draft HPMP																														
Distribute Final Memo												1																		
CUL 2 – Archaeology	1				-	1						J	<u> </u>					-		_				<u> </u>		-				to the second se
Archival Research	T											1	1 1				Т			T	T	<b>—</b>				T				
Fieldwork				-																										
Analyze Data/Prepare Draft Memo												<u> </u>											-						+	+
Distribute Draft Memo	+	╞──┤		+							-	-	+		$\vdash$		$\rightarrow$	-+								+				+
Stakeholder Review		$\vdash$		+			<u> </u>	-+	_						$\vdash$			_											+-	+
Resolve Comments/Prepare Final Memo		┤─┤		+			+	$\rightarrow$	+		-						$\rightarrow$	-+		-	+			$\left  \right $		-			+-	+
Develop Draft HPMP		$\left  \right $		_			-						┼─┤											+ + -					+-	+
Distribute Final Memo				_		-		$\rightarrow$	-+			<u> </u>												$\left  \right $					+	+
	1					1					<b>_</b>	I						_								1				┶━┷
TRI 1 – Tribal Archival Research								Т				1	1					-					1						_	TT
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Technical Study Plan				2024									2025	5								2026				
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Engage Tribal groups																									ΓŤ	I
Tribal Interviews																		-								
Analyze Data/Prepare Draft Memo																										
Distribute Draft Memo																										. <u></u>
Stakeholder Review									_																$\vdash$	
Resolve Comments/Prepare Final Memo																									$\vdash$	
Develop Draft HPMP																									$\vdash$	
Distribute Final Memo																									$\vdash$	
LAND 1 – Road and Trail Condition Assessment				1 1							_	1 1			_					<u>I I</u>					$\vdash$	
Conduct desktop reconnaissance and field surveys								- T										T								
Analyze Data/Prepare Draft Memo																										
Distribute Draft Memo																										
Stakeholder Review									_									-							$\vdash$	
Resolve Comments/Prepare Final Memo																									$\vdash$	
Distribute Final Memo																									┝──┤	
LAND 2 – Erosion and Sedimentation																		-								
Initiate desktop review and field surveys								1						1				1								
Analyze Data/Prepare Draft Memo																									$\vdash$	
Distribute Draft Memo											-														$\vdash$	
Stakeholder Review									_																┝──┤	
Resolve Comments/Prepare Final Memo			_															-							$\vdash$	
Distribute Final Memo			_								-														$\vdash$	
REC 1 – Recreation Facility Condition Assessment			_	<u> </u>		<u> </u>					_								<u> </u>							
Develop facility inventory and condition assessment forms in consultation						<u>г г</u>		- T		- T	T	ТТ						T T		ГТ	<u> </u>	- T				
with the SQF																										ı
Conduct the facility inventory and condition assessment																										
Analyze Data/Prepare Draft Memo																		-								
Distribute Draft Memo																		-								
Stakeholder Review																										
Resolve Comments/Prepare Final Memo																										
Distribute Final Memo																										
REC 2 – Recreation Facility Use Assessment			-			1 I				_	-										-				$\vdash$	
Consult with the Recreation TWG to (1) identify locations along the																		г								
bypass reach accessible from SR 178 used for dispersed recreation,																										I
and (2) to finalize questions in the intercept survey forms.																										Ļ
Acquire and review key information sources to characterize recreation																										ı
use in the Project vicinity (i.e., Forest Service recreation planners,																										ı
concessionaire, stakeholders identified by the Recreation TWG, and existing data files and reports).																										I
Install temporary tamper-proof survey boxes and trail cameras, pending																		-							$\vdash$	
Forest Service approval, at obvious location along each of the trails of																										ı
focus (maintain and service for 12 months).																										ı
Conduct vehicle counts and opportunistic in-person intercept surveys.																		1								
Analyze data and prepare draft technical memo.																		1								
Distribute draft technical memo to stakeholders				1 1														1								
Stakeholders review and provide comments on draft technical memo																		1								
(90 days).																										<u>.                                    </u>
Incorporate results from the self-survey boxes into revised draft technical																										
memo.																		1							$\square$	<u> </u>
Distribute revised draft technical memo to stakeholders																		1								µ
Stakeholders review and provide comments on revised draft technical																		1								1
memo (60 days).			_		_					-+	_	+						1	$\left  - \right $	$ \vdash  $					$\square$	
Resolve comments and prepare final technical memo			_		_	$\vdash$					_	+						<u> </u>	$\left  \right $	$ \vdash  $					$\vdash$	
Distribute Final Memo in Draft License Application																										

## Kern River No.1 Hydroelectric Project (FERC Project No. 1930)

Technical Study Plan					202	24							2	025								2026				]
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REC 3 – Whitewater Boating			_												· · · · ·		•									
Conduct Level 1 Desktop Study																										
Complete Level 2 Limited Reconnaissance																										
Analyze data and prepare draft technical memo (Level 1 and Level 2)																										
Distribute draft technical memo to stakeholders.																										
Stakeholders review and provide comments on draft technical memo																										
(90 days)																										
Determine, in consultation with resource agencies and whitewater																										
community, whether a Level 3 On-water Boating Assessment is needed	+									_														$\rightarrow$		$\downarrow$
Resolve comments and prepare draft final technical memo (Level 1 and Level 2)																										
If necessary, conduct Level 3 On-water Boating Assessment (Whitewater	+-+									_														$\rightarrow$		+
Focus Group and single flow or controlled flow study)																										
Place temporary tamper-proof self-survey boxes at whitewater boater																								-	-	+
put-in and take-out locations along the bypass reach for single flow study																										
Incorporate results from the Level 3 Assessment into final technical																										
memo																										
Distribute Final Memo in the Draft License Application for stakeholder																										
review																										
TERR 1 – Botanical Resources				-		_	- T			<b>—</b>	<u>г г</u>	-	T T	<b>1</b>		<u> </u>		r –	r r	T T						
Conduct Ground-Truthing of Vegetation Alliances	$\vdash$																			+						<u> </u>
Conduct Botanical Surveys	$\vdash$																							$\rightarrow$		+
Characterize Riparian Vegetation in the Bypass Reach	+																							$\rightarrow$		$\downarrow$
Analyze Data/Prepare Draft Memo	$\vdash$			_																				$ \rightarrow $		$\downarrow \_$
Distribute Draft Memo	$\vdash$																									
Stakeholder Review				_																						
Resolve Comments/Prepare Final Memo																										
Distribute Final Memo																										
TERR 2 – Wildlife Resources			1	-				-		-		-		-					<u>г г</u>	<del></del>						
Conduct Wildlife Reconnaissance Surveys																										
Conduct Special-Status Bat Reproductive Surveys																										
Conduct Special-Status Bat Seasonal Use Surveys	$\square$																									
Conduct Special-Status Salamander Habitat Assessment																										
Conduct Special-Status Salamander VES following rain events																										
Analyze Data/Prepare Draft Memo																										
Distribute Draft Memo																										
Stakeholder Review																										
Resolve Comments/Prepare Final Memo																										
Distribute Final Memo																										

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