

REC 5 RECONNAISSANCE STREAM CORRIDOR RECREATION ASSESSMENT

1.0 EXECUTIVE SUMMARY

A stream corridor study was conducted to identify and characterize existing and potential recreational opportunities in stream corridors. Stream corridor data for the study was obtained through agency consultation, review of existing literature, and through the implementation of a recreational use survey conducted during the summer of 2002 which collected stream corridor use data and experiential data from visitors recreating in the study area stream corridors.

The summer recreation use survey obtained data from 2,019 respondents of which 655 respondents (32.4%) provided stream corridor use information. Survey results indicate the following:

- The three most frequently mentioned activities were hiking/walking (423 responses), followed closely by fishing (386 responses) and swimming/wading/water play (371 responses). There were very few responses for resource consumptive activities such as gold panning (9 responses) or rock collecting (36 responses).
- The most popular stream corridors to recreate in are the South Fork San Joaquin River (SFSJR) near Jackass Meadows and near Mono Hot Springs, and along Mono Creek below Lake Edison.
- The experiential factors associated with the stream corridor recreation were rated by respondents from neutral to moderately acceptable.
- More than 53% of survey respondents (350) responded “no” to a question about whether stream levels affected enjoyment of their recreation activity.
- Trail access and vehicle access to the stream corridors both received a moderately acceptable rating by survey respondents.

2.0 STUDY OBJECTIVE(S)

Identify and characterize potential recreational opportunities in stream corridors and factors (i.e., instream flow and access) influencing these opportunities.

3.0 STUDY IMPLEMENTATION

3.1 STUDY ELEMENTS COMPLETED

- Identified existing and potential recreational activities associated with Project vicinity stream corridors.

- Identified and characterized access to Project vicinity waters (i.e., modified access from road closures).
- Determined physical and flow-related conditions required to support identified recreational activities.

3.2 OUTSTANDING STUDY ELEMENTS

- Identify factors limiting stream corridor recreation opportunities related to Project operation and maintenance activities.

4.0 STUDY METHODOLOGY

Existing and potential recreational activities along study area stream corridors were identified and the associated experiential data was obtained by reviewing existing literature, through consultation with the United States Forest Service (USDA-FS), California Department of Fish & Game (CDFG) and local user groups, and from the results of a summer recreation use survey conducted in 2002.

Guidebooks on camping and fishing were consulted and several websites were reviewed that described fishing, backpacking, and hiking in the study area. USDA-FS and CDFG personnel were consulted regarding the types and levels of recreation activity observed along the stream corridors (Whelan pers. comm.; Means pers. comm.).

Recreation use data information on dispersed recreation activities within stream corridors was also obtained through implementation of a self-census survey and an active (roving) census user survey. The surveys were conducted to collect data on the experiential value associated with the stream corridor recreation, including safety concerns, as well as physical data on the access points to stream corridors, types of uses, timing (seasonality) of use, and destination locations within stream corridors (Figures REC 5-1a through d). Active surveys were conducted along the following stream corridors: (1) South Fork San Joaquin River below Florence Lake; (2) South Fork San Joaquin River near Mono Hot Springs; (3) Mono Creek between Vermilion Valley Dam and Mono Creek Diversion; (4) the Portal Power Plant tailrace; (5) Stevenson Creek below Shaver Lake Dam; and (6) San Joaquin River below Mammoth Pool Powerhouse. These surveys were performed in coordination with recreation study plans REC 8, Angling Opportunities and Experience Assessment and REC 10 and REC 17 Recreation (and Dispersed Recreation) Opportunities and Needs Assessment. Complete results of the recreation use surveys can be reviewed in the REC 8 and REC 10 and REC 17 technical study reports contained in the 2002 Technical Study Report Package (SCE 2003).

The survey questionnaire asked respondents to: (1) identify the activities they engaged in while recreating in the stream corridor; (2) list the stream corridors they recreated in; (3) rate their satisfaction with recreational factors in the stream corridor; and (4) note if their satisfaction was affected by other activities taking place in the stream corridor.

Respondents were asked to rate their satisfaction on recreation factors such as vehicle and trail access, availability of developed recreation facilities, drinking water availability, trash disposal, restroom availability and cleanliness, number of people encountered, and adequacy of interpretive information on the area. Satisfaction or adequacy of recreation factors were rated on a five-point scale format that ranged from highly unacceptable (-2); moderately unacceptable (-1); neutral (0); moderately acceptable (1); and highly acceptable (2). A copy of the recreation use survey instrument/questionnaire is provided in Appendix A.

Analysis of the survey results was completed by compiling the data from completed survey forms and performing a quality assurance/quality control (QA/QC) review of the survey forms. Survey question results were grouped by response and tallied for statistical comparison. To determine the average response of recreation factors, the five point response format was converted to a scale ranging from 1 to 5 where a value of 1 equates to a highly unacceptable rating and a value of 5 equates to a rating of highly acceptable. Stream corridor recreation data obtained during the study was input into a GIS database.

5.0 RESULTS

Data on stream corridor use was provided by 655 respondents who completed the stream corridor section of the summer recreation use survey questionnaire. The following summarizes the results of the respondent data.

As displayed in Table REC 5-1, the five most popular stream corridor recreation activities based on the number of survey responses were: hiking/walking (423); fishing (386); swimming/wading/water play (371); viewing wildlife scenery, etc. (350); and general relaxing (329). There were very few responses for resource consumptive recreation activities such as gold panning (9) or rock collecting (36). Less than 10% (55) of the respondents checked the "other" category and provided a written response. Among the written responses, recreation activities were: cycling, mountain biking, mini bike riding, photography, and hot springs bathing (in the Mono Hot Springs area).

Many visitors to the stream corridors participated in multiple recreation activities as indicated in Table REC 5-2. The survey results indicate that most stream corridor visitors participated in a number of activities ranging from one activity (86 respondents, 13.1%) to six activities (87 respondents, 13.1%). Four different recreation activities in the stream corridor received the greatest number of respondents at 107 or 16.3%.

Table REC 5-3 summarizes, by rank, the stream corridors in which people recreated. The stream corridors that received the greatest number of responses were along the SFSJR and included the three following reaches: (1) near Mono Hot Springs (167); (2) below Florence Lake (111); and (3) above Florence Lake (75). The second most popular area was along Mono Creek which included three sections: (1) Mono Creek above Lake Edison (81 responses); (2) Mono Creek between Lake Edison and Mono Diversion Dam (84 responses), and Mono Creek between the Mono Diversion and the South Fork San Joaquin River (41). Three other stream corridors that received a

moderate number of responses were: Big Creek upstream of Huntington Lake (81), Bear Creek above the Bear Diversion (54), and Portal Tailrace (53). Respondents also provided 75 write in responses of stream corridors in which they recreated. The greatest number of write-in response locations were identified as Dinkey Creek (7), Huntington Lake (6), and four at each of the following locations: Cold Creek, Deer Creek, Line Creek, Rancheria (Creek), and Shaver Lake. In addition, there were 75 write in responses on stream corridor locations and these locations are identified in footnote No. 2 in Table REC 5-3.

Table REC 5-4 summarizes the number of responses indicating that visitors recreated in multiple stream corridor locations within the study area. Most survey respondents 292 (55.7%) indicated that they recreated only in one stream corridor location. While 128 responses (24.4%) indicated they recreated in two stream corridor locations. Table REC 5-5 summarizes the survey respondents' satisfaction/rating of experiential factors associated with the stream corridor recreation. The median for all of the factors evaluated ranged between 3.5 and 4.4, above neutral to moderately acceptable, respectively. No factors score a median value lower than neutral. Trail access and vehicle access to the stream corridors received the highest median ratings of 4.4 and 4.3, both moderately acceptable ratings.

Tables REC 5-6 and REC 5-7 summarize the stream corridor locations and activities in which 58 survey respondents, (9% of the 655 total respondents) indicated that their activity in the stream corridor was affected by water level. Fishing is the activity that received the greatest number of responses (27), followed by camping (5), swimming/wading/water play (3), non-motorized boating (3), picnicking (2), horseback riding (1), and backpacking (1). Sixteen respondents indicated that their recreation in the stream corridor was affected but did not identify an activity and 18 respondents indicated an affect to their activity in the stream corridor but did not specify a location. The four reaches and associated activity types that were most often identified by respondents as having their recreation activity affected were (with number of responses):

- Mono Creek (14 responses) with nine fishing, four camping, and one horseback riding.;
- San Joaquin River (5 responses) with four fishing, and one water play/swimming;
- Florence Lake (5 responses) with three fishing, one camping, and one water play/swimming; and
- Big Creek (3 responses) for fishing.

Survey responses were further analyzed with respect to respondents indicating someone in their party had a physical impairment that could affect their use of outdoor recreation facilities. Table REC 5-8 summarizes, by rank, the stream corridors in which respondents indicating someone in their party had a physical impairment recreated. The stream corridor that received the greatest number of responses was the SFSJR near Mono Hot Springs (11). All other stream corridors had four responses or less. Table

REC 5-8 also presents the number of respondents indicating that facilities were unacceptable. Of the total 46 responses, there were 6 responses that indicated the facilities were unacceptable. When given, the reasons for the unacceptable response were restroom accessibility and lack of faucets/hand washing facilities.

Table REC 5-9 summarizes the survey respondents' indicating someone in their party had physical impairment that could affect their use of outdoor recreation facilities satisfaction/rating of experiential factors associated with the stream corridor recreation. The median for all of the factors evaluated ranged between 2.9 and 4.0; neutral to moderately acceptable, respectively. No factors score a median value lower than neutral (2.9). Safety received the highest median rating of 4.0. Restroom availability, vehicle access, and trail access to the stream corridor received a mean value of 3.8; moderately acceptable ratings.

Stream corridor recreation opportunities were further investigated by a review of literature and consultation with agency personnel. A review of guidebooks by Stienstra (2000), the USDA-FS, Sierra national Forest Land and Resource Management Plan (USDA-FS 1991) and the Sierra Nevada Forest Plan Amendment (USDA-FS 2001) did not reveal any other activities beyond what is mentioned above or in Table REC 5-1. Consultation with the USDA-FS (Whelan pers. comm. 2003) did not reveal any areas of high recreation use, or specific recreation use numbers for developed (or dispersed) recreation along study area stream corridors beyond that identified in the study. No additional information on activities or use levels beyond that obtained in the study was obtained from consultation with CDFG (Means pers. comm., 2003).

6.0 REFERENCES

Means, Julie. 2003. USDA-FS. Personal communication by telephone with Asavari Devadiga, ENTRIX, Inc. August 20, 2003.

Southern California Edison. 2003. 2002 Draft Technical Study Report Package for the Big Creek Hydroelectric System Alternative Licensing Process. October 2003.

Stienstra, Tom. 2000. California Recreational Lakes and Rivers. Avalon Travel Publishing: Emeryville, CA. 559 pp.

USDA-FS. 1991. Sierra National Forest Land and Resource Management Plan. USDA Forest Service, Pacific Southwest Region.

USDA-FS. 2001. Sierra Nevada Forest Plan Amendment. USDA Forest Service, Pacific Southwest Region.

Whelan, Cindy. 2003. CDFG. Personal communication by telephone with Tim Blewett, ENTRIX, Inc. August 25, 2003.

TABLES

Table REC 5-1. Recreation Activities Engaged in Along Stream Corridors in the Big Creek Study Area.

Activity	Number of Responses	Percent of Responses
Hiking/walking	423	16.2%
Fishing	386	14.8%
Swimming/wading/water play	371	14.2%
Viewing wildlife, scenery, etc.	350	13.4%
General-relaxing	329	12.6%
Camping in developed areas	291	11.2%
Picnicking	188	7.2%
Undeveloped camping	128	4.9%
Horseback riding	41	1.6%
Rock Collecting	36	1.4%
Plant gathering (berries, mushrooms, grasses, etc.)	29	1.1%
Hunting	16	0.6%
Gold panning	9	0.3%
Whitewater boating	8	0.3%

Note: This question allowed for multiple responses. The total number of responses was 2,605 (n=2,605) on the 655 surveys questionnaires that contained responses to this question.

Table REC 5-2. Number of Stream Corridor Survey Responses Indicating that Visitors Participated in Multiple Recreation Activities.

Number of Recreation Activities in which Visitors Participated	Number of Survey Responses	Percentage¹
1	86	13.1
2	104	15.9
3	90	13.7
4	107	16.3
5	95	14.5
6	87	13.1
7	64	9.8
8	18	2.7
9	4	<1
Total	655	

¹Responses do not sum to 100% due to rounding.

Table REC 5-3. Stream/River Corridor Areas Visited in the Big Creek Area.

Area	Number of Responses¹
South Fork San Joaquin River near Mono Hot Springs	167
South Fork San Joaquin River below Florence Lake	111
Big Creek upstream of Huntington Lake	85
Mono Creek between Lake Edison and Mono Diversion Dam	84
Mono Creek above Lake Edison	81
South Fork San Joaquin River above Florence Lake	75
Bear Creek above Bear Diversion	54
Portal Tailrace	53
Mono Creek between Mono Diversion Dam and South Fork San Joaquin River	41
Big Creek between Huntington Lake and the town of Big Creek	31
Bear Creek below Bear Diversion	28
South Fork San Joaquin River above Mammoth Pool	23
Big Creek between the town of Big Creek and the San Joaquin River	18
South Fork San Joaquin River near Mono/Rattlesnake crossings	17
Stevenson Creek below Shaver Lake	17
Tributary to the San Joaquin River (all responses)	16
Tributary to the South Fork San Joaquin River (all responses)	12
North Fork Stevenson Creek	9
South Fork San Joaquin River below Mammoth Pool	7
South Fork San Joaquin River above Redinger	4
South Fork San Joaquin River below Redinger	1
Other stream corridor locations (all responses) ²	75

¹ Percentages are not reported since the stream/river corridor area question permitted multiple responses. Therefore, percentages do not sum to 100%.

² The 75 other stream corridor location identified as write in responses include the following locations: 8 Creek, Balsam Creek, Boggy Creek, Bolsillo Creek Chiquito Creek, Hooper Creek, Kaiser Creek, Rancheria Creek, Rattlesnake Creek, Rock Creek, Tamarack Creek, Devil's Bathtub, Dinkey Lakes, Doris Lake, Florence Lake, Huntington Lake, Nellie Lake, Portal Forebay, Shaver Lake, Twin Lakes

Table REC 5-4. Number of Survey Responses Indicating that Visitors Recreated in Multiple Stream Corridors.

Number of Stream Corridors Locations In which Visitors Recreated	Number of Responses	Percentage ¹
1	292	55.7
2	128	24.4
3	49	9.3
4	26	5.0
5	12	2.3
6	8	1.5
7	8	1.5
8	1	<1
9	0	0
Total	524	

¹Responses do not sum to 100% due to rounding.

Table REC 5-5. Satisfaction with Recreation Factors in the Stream Corridor.

Recreation Factor	Number of Responses ¹	Mean (Standard Deviation) ²
Trail access to stream corridor	480	4.4 (0.8)
Vehicular access	495	4.3 (0.9)
Safety	426	4.2 (0.9)
Availability of developed camp/picnic sites	385	4.1 (1.0)
Restroom availability	404	4.0 (1.1)
Number of people encountered	456	3.9 (1.1)
Restroom cleanliness	394	3.9 (1.1)
Trash disposal	398	3.8 (1.3)
Adequacy of visit/trip/recreation information	332	3.8 (0.9)
Adequacy of interpretive displays, and exhibits	318	3.6 (1.0)
Drinking water availability	392	3.5 (1.2)

¹This column refers to the number of respondents that gave an acceptability rating.

²Satisfaction was measured on an acceptability scale, where -2=highly unacceptable, and 2=highly acceptable. To determine the average response of recreation factors, the five point response format was converted to a scale ranging from 1 to 5 where a value of one equates to a highly unacceptable rating and a value of 5 equates to a rating of highly acceptable.

Table REC 5-6. Activities in which Survey Respondents Indicated that their Recreation Activity was Affected by Water Levels.

Activity	Number of responses¹
Fishing	46
Fishing	46
Swimming/wading/water play	37
Hiking/walking	37
General – relaxing	36
Viewing wildlife, scenery, etc	34
Camping in developed sites	30
Undeveloped camping	18
Picnicking	16
Horseback riding	6
Rock collecting	6
Whitewater boating	5
Hunting	4
Plant gathering (berries, mushrooms, grasses, etc.)	4
Gold panning	2
Other	2

¹Based out of a total of 58 “yes” respondents to activity affected by water level. The total number of responses do not sum to 58 since the question permitted multiple responses.

Table REC 5-7. Locations where Respondents Indicated that their Recreation Activity was Affected by Water Levels.

Locations	Number of responses¹
Mono Creek between Lake Edison and Mono Diversion Dam.	19
South Fork San Joaquin River near Mono Hot Springs.	18
South Fork San Joaquin River above Florence Lake.	15
South Fork San Joaquin River below Florence Lake.	15
Mono Creek above Lake Edison.	15
Bear Creek above Bear Diversion.	14
Big Creek upstream of Huntington Lake.	12
Mono Creek between Mono Diversion Dam and South Fork San Joaquin River.	7
San Joaquin River above Mammoth Pool.	6
San Joaquin River above Redinger Lake.	3
Portal Tailrace (Rancheria Creek at Huntington Lake).	3
Tributary to the South Fork San Joaquin River: Name	3
Bear Creek below Bear Diversion.	2
North Fork Stevenson Creek.	2
Stevenson Creek below Shaver Lake.	2
Big Creek between the town of Big Creek and the San Joaquin River.	2
Tributary to the San Joaquin River: Name	2
South Fork San Joaquin River near Mono/Rattlesnake Crossings.	1
San Joaquin River below Redinger Lake.	1
Big Creek between Huntington Lake and the town of Big Creek.	1
San Joaquin River below Mammoth Pool.	0
Other locations	12

¹Based out of a total of 58 "yes" respondents to activity affected by water level. The total responses do not sum to 58 since the question allowed for multiple responses.

Table REC 5-8. Respondents Indicating Someone in their Party had a Physical Impairment that Could Affect the Use of Outdoor Recreation Facilities.

Locations	Number of responses ¹	Number of responses indicating facilities were unacceptable
South Fork San Joaquin River near Mono Hot Springs.	11	3
Mono Creek above Lake Edison.	4	0
Big Creek upstream of Huntington Lake.	4	0
Tributary to the San Joaquin River:	4	0
South Fork San Joaquin River near Mono/Rattlesnake Crossings.	3	1
Mono Creek between Mono Diversion Dam and South Fork San Joaquin River.	3	0
Bear Creek above Bear Diversion.	3	1
South Fork San Joaquin River above Florence Lake.	2	0
South Fork San Joaquin River below Florence Lake.	2	0
Mono Creek between Lake Edison and Mono Diversion Dam.	2	0
Stevenson Creek below Shaver Lake.	2	0
Big Creek between Huntington Lake and the town of Big Creek.	1	0
Big Creek between the town of Big Creek and the San Joaquin Portal Tailrace (Rancheria Creek at Huntington Lake).	1	0
San Joaquin River above Mammoth Pool	1	0
Bear Creek below Bear Diversion.	1	1
Other locations	1	0
San Joaquin River below Mammoth Pool.	0	0
San Joaquin River above Redinger Lake.	0	0
San Joaquin River below Redinger Lake.	0	0
North Fork Stevenson Creek.	0	0
Tributary to the South Fork San Joaquin River: Name	0	0

¹175 total respondents indicated someone in their party had a physical impairment. Out of a total of 175 "yes" respondents, 24 respondents had recreated in the identified stream corridors. The total responses do not sum to 24 since the questions allowed for multiple responses.

Table REC 5-9. Respondents Indicating Someone in their Party had a Physical Impairment that Could Affect the Use of Outdoor Recreation Facilities - Satisfaction with Recreation Factors in the Stream Corridor.

Recreation Factor	Number of Responses¹	Mean (Standard Deviation)²
Safety	21	4.0(1.1)
Restroom availability	19	3.8 (0.9)
Vehicular access	22	3.8 (1.1)
Trail access to stream corridor	23	3.8 (1.2)
Number of people encountered	22	3.6 (1.2)
Availability of developed camp/picnic sites	19	3.5 (1.4)
Restroom cleanliness	19	3.4 (1.2)
Adequacy of visit/trip/recreation information	20	3.3 (1.0)
Adequacy of interpretive displays, and exhibits	19	3.3 (1.1)
Drinking water availability	21	3.2 (1.3)
Trash disposal	20	2.9 (2.1)

¹This column refers to the number of respondents that gave an acceptability rating.

²Satisfaction was measured on an acceptability scale, where -2=highly unacceptable, and 2=highly acceptable. To determine the average response of recreation factors, the five point response format was converted to a scale ranging from 1 to 5 where a value of one equates to a highly unacceptable rating and a value of 5 equates to a rating of highly acceptable.

FIGURES

Placeholder for Figures

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APPENDIX A
RECREATION USE SURVEY INSTRUMENT/QUESTIONNAIRE

STREAM CORRIDOR USE

Please complete questions 15-18 if recreating within or adjacent to the stream corridor during this visit.

15. Check the boxes corresponding with the activity(ies) you engaged in on this trip while recreating in the stream corridor.

- | | |
|--|---|
| <input type="checkbox"/> Camping in developed sites | <input type="checkbox"/> Gold panning |
| <input type="checkbox"/> Undeveloped camping | <input type="checkbox"/> Whitewater boating |
| <input type="checkbox"/> Picnicking | <input type="checkbox"/> General – relaxing |
| <input type="checkbox"/> Viewing wildlife, scenery, etc. | <input type="checkbox"/> Hiking/walking |
| <input type="checkbox"/> Fishing | <input type="checkbox"/> Horseback riding |
| <input type="checkbox"/> Swimming/wading/water play | <input type="checkbox"/> Rock collecting |
| <input type="checkbox"/> Hunting | <input type="checkbox"/> Other: _____ |
| <input type="checkbox"/> Plant gathering (berries, mushrooms, grasses, etc.) | |

16. Check the boxes corresponding with the stream(s)/river(s) where you recreated in the stream corridor during this trip.

- | | |
|---|--|
| <input type="checkbox"/> South Fork San Joaquin River above Florence Lake | <input type="checkbox"/> Bear Creek above Bear Diversion |
| <input type="checkbox"/> South Fork San Joaquin River below Florence Lake | <input type="checkbox"/> Bear Creek below Bear Diversion |
| <input type="checkbox"/> South Fork San Joaquin River near Mono Hot Springs | <input type="checkbox"/> North Fork Stevenson Creek |
| <input type="checkbox"/> South Fork San Joaquin River near Mono/Rattlesnake Crossings | <input type="checkbox"/> Stevenson Creek below Shaver Lake |
| <input type="checkbox"/> San Joaquin River above Mammoth Pool | <input type="checkbox"/> Big Creek upstream of Huntington Lake |
| <input type="checkbox"/> San Joaquin River below Mammoth Pool | <input type="checkbox"/> Big Creek between Huntington Lake and the town of Big Creek |
| <input type="checkbox"/> San Joaquin River above Redinger Lake | <input type="checkbox"/> Big Creek between the town of Big Creek and the San Joaquin River |
| <input type="checkbox"/> San Joaquin River below Redinger Lake | <input type="checkbox"/> Portal Tailrace (Rancheria Creek at Huntington Lake) |
| <input type="checkbox"/> Mono Creek above Lake Edison | <input type="checkbox"/> Tributary to the South Fork San Joaquin River, Name: _____ |
| <input type="checkbox"/> Mono Creek between Lake Edison and Mono Diversion Dam | <input type="checkbox"/> Tributary to the San Joaquin River, Name: _____ |
| <input type="checkbox"/> Mono Creek between Mono Diversion Dam and South Fork San Joaquin River | <input type="checkbox"/> Other, Name: _____ |

17. Please rate your satisfaction with the following recreation factors in the stream corridor.

Factor	Acceptable		Neutral	Unacceptable		
	Highly	Moderately		Moderately	Highly	
Vehicular access	2	1	0	-1	-2	NA
Trail access to stream corridor	2	1	0	-1	-2	NA
Drinking water availability	2	1	0	-1	-2	NA
Availability of developed camp/picnic sites	2	1	0	-1	-2	NA
Trash disposal	2	1	0	-1	-2	NA
Restroom availability	2	1	0	-1	-2	NA
Restroom cleanliness	2	1	0	-1	-2	NA
Number of people encountered	2	1	0	-1	-2	NA
Safety	2	1	0	-1	-2	NA
Adequacy of interpretive/educational displays, and exhibits	2	1	0	-1	-2	NA
Adequacy of visit/trip/recreation information	2	1	0	-1	-2	NA
Other: _____	2	1	0	-1	-2	NA

If unacceptable, please explain: _____

18. Was your enjoyment of your recreation activity affected by other activities taking place in the stream corridor? Yes No
or by water level? Yes No

Lake/stream name: _____ Your activity: _____

If yes, explain: _____

Please complete questions 19-23 if boating during this trip.

BOATING

19. What type of boat did you use?

- Ski boat Fishing boat Pontoon boat Sail boat
 Personal watercraft Non-power boats (i.e., canoe, kayak, row boat, raft, etc.)
 Other _____

20. If you launched your boat, name of launch facility: _____

21. Do you rent/own a boat slip? Yes No

If yes location: _____

22. Rate the adequacy of the boat facilities with respect to the categories listed.

	Acceptable		Neutral	Unacceptable		
	Highly	Moderately		Moderately	Highly	
Boat ramp access	2	1	0	-1	-2	NA
Condition of boat ramp	2	1	0	-1	-2	NA
Condition of dock	2	1	0	-1	-2	NA
Availability of boat slip/moorings	2	1	0	-1	-2	NA
Condition of marina facilities	2	1	0	-1	-2	NA
Parking availability	2	1	0	-1	-2	NA
Parking area condition	2	1	0	-1	-2	NA
Number of people/ boats encountered at ramp	2	1	0	-1	-2	NA
Restroom availability	2	1	0	-1	-2	NA
Restroom cleanliness	2	1	0	-1	-2	NA
Availability of commercial facilities (gas, stores, rentals, etc.)	2	1	0	-1	-2	NA
Safety	2	1	0	-1	-2	NA
Nearby picnic areas	2	1	0	-1	-2	NA
Trash disposal	2	1	0	-1	-2	NA
Disability access	2	1	0	-1	-2	NA

If unacceptable, please explain: _____

23. If lake or river boating, was your enjoyment of your recreation activity affected by other activities taking place on the lake or river? Yes No
or the lake/river water level? Yes No

Lake/stream name: _____

Your activity: _____

If yes, explain: _____

Comments/Suggestions: _____

SCE would like to thank you for your cooperation and time in completing this survey questionnaire.

Completed survey forms may be returned to the surveyor, the survey drop box on the survey kiosk, or completed forms may also be faxed or mailed to:

Ms. Carla Anthony
 Relicensing Coordinator
 Southern California Edison
 Northern Hydro Region Office
 P.O. Box 100
 Big Creek, CA 93605
 Fax: (559) 893-3626

Summer Recreation Use Survey

Southern California Edison and the Big Creek Collaborative are conducting this summer recreation use survey as part of the relicensing of the Big Creek Hydroelectric System. Your responses to this survey will assist us in determining recreation use and opportunities in the Big Creek area. The results of the survey will help maintain future recreation opportunities in the Big Creek area.

Survey Instructions:

This survey is divided into sections, which ask questions about your background, general recreation use, camping, picnicking, trail use, stream corridor use and boating. Everyone should complete the Background and General Recreation Use sections. You should also complete any additional sections that correspond with activities you participated in during your visit.

If you fished during this trip please complete the separate Angling Survey form.



BACKGROUND

All respondents please complete questions 1-5

Date: _____

How Many in Group: (Adults): _____ Children (under 16): _____

Number of Vehicles in Your Group? _____

Type(s) of vehicles: Car Pickup/SUV Motorcycle Motor home/RV

OHV/Green Sticker Travel trailer Boat/Utility/Horse trailer Other: _____

Residence, yours and other group members:

City/Town: _____ State: _____ Zip: _____

City/Town: _____ State: _____ Zip: _____

City/Town: _____ State: _____ Zip: _____

1. How did you find out about the recreation opportunities in the area?

- | | |
|--|---|
| <input type="checkbox"/> Live locally | <input type="checkbox"/> Information at campground |
| <input type="checkbox"/> Advice from family or a friend | <input type="checkbox"/> Travel brochure |
| <input type="checkbox"/> Newspaper or magazine | <input type="checkbox"/> Resort or local business |
| <input type="checkbox"/> USFS brochure/map | <input type="checkbox"/> Exploring on my own |
| <input type="checkbox"/> Visitor center | <input type="checkbox"/> Radio/TV |
| <input type="checkbox"/> Chamber of Commerce or Visitor's Bureau | <input type="checkbox"/> Organized outing |
| <input type="checkbox"/> Guidebook | <input type="checkbox"/> Sportsman's expo |
| <input type="checkbox"/> Interest group or hobby affiliations | <input type="checkbox"/> Internet, Name of website: _____ |
| | <input type="checkbox"/> Other: _____ |

2. How many years have you recreated in the area?

- 1 2 3 to 5 6 to 10 10+

3. How many trips per year do you take to the area from April through November?

- 1 2 3 to 5 6 to 10 10+

4. How much money will you spend locally in the mountain communities during your current visit to this area?

- \$0 to \$50 \$51 to \$100 \$101 to \$200 \$201 to \$500 more than \$500

5. Does anyone in your party have a physical impairment that might hinder their use of outdoor recreation facilities or opportunities during this visit?

- Yes No

Were the services and facilities in the areas you visited on this trip adequate for that physical impairment? Yes No

If inadequate, please explain: _____



SOUTHERN CALIFORNIA

EDISON

An Edison International SM Company

All respondents please complete questions 6-9.

6. Did your visit to the area involve a local overnight stay? Yes No

GENERAL RECREATION USE

If yes, where did you stay?

- Rental home/hotel/condo/cabin/lodge
- Camp Edison
- USFS campground, Name: _____
- Camping in undeveloped areas of the National Forest
- Camping in designated Wilderness Areas
- Other: _____

7. Check the boxes corresponding with the area(s) you visited on this trip, and indicate the time you spent in each area you visited. (Please refer to the map on the information kiosk for area locations.)

	< 0.5 day 0.5-1 day 2 days > 2 days			
	< 0.5 day	0.5-1 day	2 days	> 2 days
<input type="checkbox"/> Area 1-Redinger Reservoir	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Area 2-San Joaquin River Canyon	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Area 3-Mammoth Pool Reservoir	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Area 4-Shaver Lake	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Area 5-Big Creek/Camp Sierra	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Area 6-Tamarack Ridge/Red Lake/Coyote Lake	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Area 7-Huntington Lake	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Area 8-Kaiser Wilderness Area	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Area 9-Stump Springs Rd./Mt. Tom	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Area 10-Kaiser Ridge	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Area 11-Dinkey Lakes Wilderness Area	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Area 12-Portal Forebay	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Area 13-Ansel Adams Wilderness Area	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Area 14-John Muir Wilderness Area	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Area 15-High Sierra Station/Mono Hot Springs/ Ward Lake	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Area 16-Lake Edison/Bear Diversion Dam	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Area 17-Florence Lake	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

8. For the recreation activities you engaged in on this trip: a) check the corresponding boxes; and b) please rate your satisfaction by circling a value in the range provided.

Facility	Acceptable			Unacceptable	
	Highly	Moderately	Neutral	Moderately	Highly
<input type="checkbox"/> Camping in developed sites	2	1	0	-1	-2
<input type="checkbox"/> Undeveloped camping	2	1	0	-1	-2
<input type="checkbox"/> Wilderness day use	2	1	0	-1	-2
<input type="checkbox"/> Wilderness overnight use	2	1	0	-1	-2
<input type="checkbox"/> Resorts, cabins, rental accommodations	2	1	0	-1	-2
<input type="checkbox"/> Picnicking (single or group sites)	2	1	0	-1	-2
<input type="checkbox"/> Viewing wildlife, scenery photography etc.	2	1	0	-1	-2
<input type="checkbox"/> Visiting interpretive/educational center	2	1	0	-1	-2
<input type="checkbox"/> Visiting historic/cultural sites	2	1	0	-1	-2
<input type="checkbox"/> Stream fishing	2	1	0	-1	-2
<input type="checkbox"/> Lake fishing	2	1	0	-1	-2
<input type="checkbox"/> Hunting	2	1	0	-1	-2
<input type="checkbox"/> Plant gathering (berries, mushrooms, grasses, etc.)	2	1	0	-1	-2
<input type="checkbox"/> Woodcutting	2	1	0	-1	-2
<input type="checkbox"/> Off-highway vehicle travel	2	1	0	-1	-2
<input type="checkbox"/> Driving for pleasure on roads	2	1	0	-1	-2
<input type="checkbox"/> Motorized water activities (boat, personal watercraft, etc.)	2	1	0	-1	-2
<input type="checkbox"/> Nonmotorized flatwater boating	2	1	0	-1	-2
<input type="checkbox"/> Sailing	2	1	0	-1	-2
<input type="checkbox"/> Whitewater boating	2	1	0	-1	-2
<input type="checkbox"/> Hiking/walking	2	1	0	-1	-2
<input type="checkbox"/> Horseback riding	2	1	0	-1	-2
<input type="checkbox"/> Bicycling/mountain biking	2	1	0	-1	-2
<input type="checkbox"/> Swimming/wading/water play	2	1	0	-1	-2
<input type="checkbox"/> Sports/games/field activities	2	1	0	-1	-2
<input type="checkbox"/> General – relaxing	2	1	0	-1	-2
<input type="checkbox"/> Other: _____	2	1	0	-1	-2
<input type="checkbox"/> Other: _____	2	1	0	-1	-2

If unacceptable, please explain: _____

9. List the two top activities that were the focus of your visit.

1.) _____ 2.) _____

10. If lake or river recreating, was your enjoyment of your recreation activity affected by other activities taking place on the lake or river? Yes No
or the lake/river water level? Yes No

Lake/stream name: _____ Your activity: _____

If yes, explain: _____

11. How important are the following factors when **choosing** a recreation area? Check the box that best represents your (your household) opinions regarding the importance of the listed factors.

Factors	Not		Neutral	Very		NA
	Important	Somewhat Important		Important	Important	
Variety of recreation opportunities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cost of facility access fees	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Not crowded	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
River, stream, lake, or trail access	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Availability of commercial facilities (gas, stores, rentals, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Availability of accommodations (cabins, resorts, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Developed restroom/shower/drinking water	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Developed camp/picnic sites	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
RV hook-ups	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Clean/well maintained facilities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Interpretive/Educational opportunities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cultural/Historical opportunities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Onsite manager (camp host)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Scenery/Aesthetics	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

12. Did you camp during this trip? Yes No

CAMPING

If yes, name of campground: _____

What was your mode of camping?

- Recreational vehicle Trailer/Tent trailer Tent Other: _____

Please rate your satisfaction with the quality of the facilities at the campground.

Facility	Acceptable			Unacceptable		
	Highly	Moderately	Neutral	Moderately	Highly	
Campsite availability	2	1	0	-1	-2	NA
Campsite condition	2	1	0	-1	-2	NA
Cost of campground access fee	2	1	0	-1	-2	NA
Adequacy of shower facilities	2	1	0	-1	-2	NA
Road condition in campground	2	1	0	-1	-2	NA
Drinking water availability	2	1	0	-1	-2	NA
Fire ring/BBQ condition	2	1	0	-1	-2	NA
Table condition	2	1	0	-1	-2	NA
Trash disposal	2	1	0	-1	-2	NA
Parking availability	2	1	0	-1	-2	NA
Parking area condition	2	1	0	-1	-2	NA
Restroom availability	2	1	0	-1	-2	NA
Restroom cleanliness	2	1	0	-1	-2	NA
Number of people encountered	2	1	0	-1	-2	NA
Safety	2	1	0	-1	-2	NA
Adequacy of interpretive/ educational displays, and exhibits	2	1	0	-1	-2	NA
Adequacy of visit/trip/recreation information	2	1	0	-1	-2	NA
Access to facilities	2	1	0	-1	-2	NA
Other: _____	2	1	0	-1	-2	NA

If unacceptable, please explain: _____

13. Did you use a picnic area during this trip? Yes No

PICNICKING

If yes, name of picnic area: _____

Please rate your satisfaction with the quality of the facilities at the picnic area.

Facility	Acceptable			Unacceptable		
	Highly	Moderately	Neutral	Moderately	Highly	
Picnic site availability	2	1	0	-1	-2	NA
Picnic site condition	2	1	0	-1	-2	NA
Drinking water availability	2	1	0	-1	-2	NA
Fire ring/BBQ condition	2	1	0	-1	-2	NA
Table condition	2	1	0	-1	-2	NA
Trash disposal	2	1	0	-1	-2	NA
Parking availability	2	1	0	-1	-2	NA
Parking area condition	2	1	0	-1	-2	NA
Restrooms availability	2	1	0	-1	-2	NA
Restrooms cleanliness	2	1	0	-1	-2	NA
Number of people encountered	2	1	0	-1	-2	NA
Adequacy of interpretive/educational displays and exhibits	2	1	0	-1	-2	NA
Adequacy of visit/trip/recreation information	2	1	0	-1	-2	NA
Access to facilities	2	1	0	-1	-2	NA
Other: _____	2	1	0	-1	-2	NA

If unacceptable, please explain: _____

14. Did you use trails in the region during this trip? Yes No

TRAILS

If yes, please name the trailhead(s) you used and your activity (hiking, mountain biking, horseback riding, etc.), then rate your satisfaction with the quality of the facilities at each trailhead.

Name of Trailhead: _____ Activity: _____

Facility	Acceptable			Unacceptable		
	Highly	Moderately	Neutral	Moderately	Highly	
Parking availability	2	1	0	-1	-2	NA
Parking area condition	2	1	0	-1	-2	NA
Restroom availability	2	1	0	-1	-2	NA
Restroom cleanliness	2	1	0	-1	-2	NA
Number of people encountered at trailhead	2	1	0	-1	-2	NA
Adequacy of interpretive/ educational displays, and exhibits at trailhead	2	1	0	-1	-2	NA
Adequacy of visit/trip/ recreation information	2	1	0	-1	-2	NA
Condition of trail	2	1	0	-1	-2	NA
Access to facilities	2	1	0	-1	-2	NA
Other: _____	2	1	0	-1	-2	NA

Name of Trailhead: _____ Activity: _____

Facility	Acceptable			Unacceptable		
	Highly	Moderately	Neutral	Moderately	Highly	
Parking availability	2	1	0	-1	-2	NA
Parking area condition	2	1	0	-1	-2	NA
Restroom availability	2	1	0	-1	-2	NA
Restroom cleanliness	2	1	0	-1	-2	NA
Number of people encountered at trailhead	2	1	0	-1	-2	NA
Adequacy of interpretive/ educational displays, and exhibits at trailhead	2	1	0	-1	-2	NA
Adequacy of visit/trip/ recreation information	2	1	0	-1	-2	NA
Condition of trail	2	1	0	-1	-2	NA
Access to facilities	2	1	0	-1	-2	NA
Other: _____	2	1	0	-1	-2	NA

If unacceptable, please explain: _____