

FOR DEPARTMENT USE ONLY

Date Received	Amount Received	Amount Due	Date Complete	Notification No.
	\$	\$		



STATE OF CALIFORNIA
DEPARTMENT OF FISH AND GAME
NOTIFICATION OF LAKE OR STREAMBED ALTERATION



Complete EACH field, unless otherwise indicated, following the enclosed instructions and submit ALL required enclosures. Attach additional pages, if necessary.

1. APPLICANT PROPOSING PROJECT

Name	Bill Luce, Interim General Manager			
Business/Agency	Friant Water Authority			
Street Address	854 North Harvard Avenue			
City, State, Zip	Lindsay, CA 93247-1715			
Telephone	(559) 562-6305	Fax	(559) 562-3496	
Email	wluce@friantwater.org			

2. CONTACT PERSON *(Complete only if different from applicant)*

Name	Bill Luce, Interim General Manager			
Street Address	854 North Harvard Avenue			
City, State, Zip	Lindsay, CA 93247-1715			
Telephone	(559) 562-6305	Fax	(559) 562-3496	
Email	wluce@friantwater.org			

3. PROPERTY OWNER *(Complete only if different from applicant)*

Name	U.S. Bureau of Reclamation South-Central California Area Office			
Street Address	1234 N. Street			
City, State, Zip	Fresno, CA 93721-1813			
Telephone	(559) 487-5116	Fax	(559) 487-5397	
Email	--			

4. PROJECT NAME AND AGREEMENT TERM

A. Project Name		Friant-Kern Canal Section 1600 for 2016-2026		
B. Agreement Term Requested		<input type="checkbox"/> Regular (5 years or less) <input checked="" type="checkbox"/> Long-term (greater than 5 years)		
C. Project Term		D. Seasonal Work Period		E. Number of Work Days
Beginning (year)	Ending (year)	Start Date (month/day)	End Date (month/day)	
2016	2028	01/01	12/31	
				4,380.00

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5. AGREEMENT TYPE

Check the applicable box. If box B, C, D, or E is checked, complete the specified attachment.	
A.	<input type="checkbox"/> Standard (Most construction projects, excluding the categories listed below)
B.	<input type="checkbox"/> Gravel/Sand/Rock Extraction (Attachment A) Mine I.D. Number: _____
C.	<input type="checkbox"/> Timber Harvesting (Attachment B) THP Number: _____
D.	<input type="checkbox"/> Water Diversion/Extraction/Impoundment (Attachment C) SWRCB Number: _____
E.	<input checked="" type="checkbox"/> Routine Maintenance (Attachment D)
F.	<input type="checkbox"/> DFG Fisheries Restoration Grant Program (FRGP) FRGP Contract Number: _____
G.	<input type="checkbox"/> Master
H.	<input type="checkbox"/> Master Timber Harvesting

6. FEES

Please see the current fee schedule to determine the appropriate notification fee. Itemize each project's estimated cost and corresponding fee. **Note: The Department may not process this notification until the correct fee has been received.**

	A. Project	B. Project Cost	C. Project Fee
1	Maintenance and restoration		\$245.50
2			
3			
4			
5			
		D. Base Fee (if applicable)	\$2,947.50
		E. TOTAL FEE ENCLOSED	\$3,193.00

7. PRIOR NOTIFICATION OR ORDER

A. Has a notification previously been submitted to, or a Lake or Streambed Alteration Agreement previously been issued by, the Department for the project described in this notification?	
<input checked="" type="checkbox"/> Yes (Provide the information below) <input type="checkbox"/> No	
Applicant: <u>Friant Water Authority</u> Notification Number: <u>#4-197-98</u> Date: <u>08/13/97</u>	
B. Is this notification being submitted in response to an order, notice, or other directive ("order") by a court or administrative agency (including the Department)?	
<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Enclose a copy of the order, notice, or other directive. If the directive is not in writing, identify the person who directed the applicant to submit this notification and the agency he or she represents, and describe the circumstances relating to the order.)	
<input type="checkbox"/> Continued on additional page(s)	

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8. PROJECT LOCATION

A. Address or description of project location. <i>(Include a map that marks the location of the project with a reference to the nearest city or town, and provide driving directions from a major road or highway)</i>					
The maintenance and restoration will occur on the Friant-Kern Canal and its associated facilities, which starts at Millerton Lake, Fresno County and extends through Tulare County to the Kern River, Bakersfield, Kern County, California. Assessor's Parcel Numbers (APN) are not applicable since the canal is located on federal land. The canal crosses numerous townships and ranges, as well as named and un-named drainages. A list of all township and ranges, as well as a location map are included herein (See supplemental Information).					
<input type="checkbox"/> Continued on additional page(s)					
B. River, stream, or lake affected by the project.		See 8B in Supplemental Information and Appendix A (Data Book)			
C. What water body is the river, stream, or lake tributary to?		See 8C in Supplemental Information			
D. Is the river or stream segment affected by the project listed in the state or federal Wild and Scenic Rivers Acts?			<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Unknown
E. County	Fresno, Tulare, and Kern				
F. USGS 7.5 Minute Quad Map Name	G. Township	H. Range	I. Section	J. ¼ Section	
Numerous- see attached documentation 8F.	--	--	--	--	
<input checked="" type="checkbox"/> Continued on additional page(s)					
K. Meridian (check one)	<input type="checkbox"/> Humboldt <input checked="" type="checkbox"/> Mt. Diablo <input type="checkbox"/> San Bernardino				
L. Assessor's Parcel Number(s)					
The project is on federal lands owned by the United States Bureau of Reclamation. The section, township and range are provided on the data sheets for each site in Appendix A.					
<input type="checkbox"/> Continued on additional page(s)					
M. Coordinates (If available, provide at least latitude/longitude or UTM coordinates and check appropriate boxes)					
Latitude/Longitude	Latitude:		Longitude:		
	<input type="checkbox"/> Degrees/Minutes/Seconds		<input checked="" type="checkbox"/> Decimal Degrees		<input type="checkbox"/> Decimal Minutes
UTM	Easting: --	Northing: --		<input type="checkbox"/> Zone 10 <input type="checkbox"/> Zone 11	
Datum used for Latitude/Longitude or UTM		<input type="checkbox"/> NAD 27		<input checked="" type="checkbox"/> NAD 83 or WGS 84	

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9. PROJECT CATEGORY AND WORK TYPE (Check each box that applies)

PROJECT CATEGORY	NEW CONSTRUCTION	REPLACE EXISTING STRUCTURE	REPAIR/MAINTAIN EXISTING STRUCTURE
Bank stabilization – bioengineering/recontouring	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Bank stabilization – rip-rap/retaining wall/gabion	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Boat dock/pier	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Boat ramp	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bridge	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Channel clearing/vegetation management	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Culvert	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Debris basin	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Dam	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Diversion structure – weir or pump intake	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Filling of wetland, river, stream, or lake	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Geotechnical survey	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Habitat enhancement – revegetation/mitigation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Levee	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Low water crossing	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Road/trail	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sediment removal – pond, stream, or marina	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Storm drain outfall structure	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Temporary stream crossing	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Utility crossing : Horizontal Directional Drilling	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Jack/bore	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Open trench	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify):	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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10. PROJECT DESCRIPTION

A. Describe the project in detail. Photographs of the project location and immediate surrounding area should be included.

- Include any structures (e.g., rip-rap, culverts, or channel clearing) that will be placed, built, or completed in or near the stream, river, or lake.
- Specify the type and volume of materials that will be used.
- If water will be diverted or drafted, specify the purpose or use.

Enclose diagrams, drawings, plans, and/or maps that provide all of the following: site specific construction details; the dimensions of each structure and/or extent of each activity in the bed, channel, bank or floodplain; an overview of the entire project area (i.e., "bird's-eye view") showing the location of each structure and/or activity, significant area features, and where the equipment/machinery will enter and exit the project area.

The Friant Water Authority (FWA) seeks the necessary permit to cover ongoing work to maintain and restore the canal bank, toe drains, wasteways, channels, equalizing reservoir and other areas along the Friant-Kern Canal affected by operations and maintenance. The maintenance activities consist of the following: debris or obstruction removal; silt, sand, or sediment removal; maintenance of channel capacity; vegetation control; mechanical vegetation control; aquatic vegetation control; chemical vegetation control; repair of existing erosion control work; and minor erosion control work and site restoration. These maintenance activities will occur on the improved channels, unimproved channels, leveed channels, drain ditches, toe drain, the equalizing reservoirs or lakes, wasteways, parshall flumes and other work areas specified annually.

Maintenance and restoration activities shall be conducted at a time and manner so that the proposed activities minimize adverse impacts and provide for the protection and continuance of the fish and wildlife.

The maintenance and restoration work is to occur at the locations identified in Appendix A, which includes a map, plain view of location on map and a data sheet with the site specific environmental information, location and photographs.

Continued on additional page(s)

B. Specify the equipment and machinery that will be used to complete the project.

Clamshell, excavator, concrete trucks, backhoe, frontend loader, maintenance, chain saws and grade-all.

Equipment shall not be parked or staged within the channel. Staging and/or parking shall occur on the uplands outside of the primary flood plain whenever possible. The FWA will follow its "Field Construction and Spill Contingency Plan." If water is present, any equipment in the channel will be cleaned of petroleum residues prior to entering the water.

Continued on additional page(s)

C. Will water be present during the proposed work period (specified in box 4.D) in the stream, river, or lake (specified in box 8.B).

Yes No (Skip to box 11)

D. Will the proposed project require work in the wetted portion of the channel?

Yes (Enclose a plan to divert water around work site)
 No

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11. PROJECT IMPACTS

A. Describe impacts to the bed, channel, and bank of the river, stream, or lake, and the associated riparian habitat. Specify the dimensions of the modifications in length (linear feet) and area (square feet or acres) and the type and volume of material (cubic yards) that will be moved, displaced, or otherwise disturbed, if applicable.

Due to differences in ROW width along the canal, these calculations will need to be done annually for each site where maintenance and restoration activities are planned.

Continued on additional page(s)

B. Will the project affect any vegetation? Yes (Complete the tables below) No

Vegetation Type	Temporary Impact	Permanent Impact
Brush, cattails, and other emerged aquatic vegetation.	Linear feet: <u>Varied</u> Total area: <u>Varied</u>	Linear feet: <u>Varied</u> Total area: <u>Varied</u>
Removal of trees in drainages.	Linear feet: <u>Varied</u> Total area: <u>Varied</u>	Linear feet: <u>Varied</u> Total area: <u>Varied</u>

Tree Species	Number of Trees to be Removed	Trunk Diameter (range)
Various	Variable, but as few as necessary.	Varied

Continued on additional page(s)

C. Are any special status animal or plant species, or habitat that could support such species, known to be present on or near the project site?

Yes (List each species and/or describe the habitat below) No Unknown

See USFWS (2005; 2001; 1991) and the Central Valley Project O&M Plan (2003). Biological surveys are conducted prior to work ensure take avoidance measures and mitigation measures are employed.

Continued on additional page(s)

D. Identify the source(s) of information that supports a "yes" or "no" answer above in Box 11.C.

Biological surveys conducted by a qualified biologist between 2005 and 2010.

Continued on additional page(s)

E. Has a biological study been completed for the project site?

Yes (Enclose the biological study) No

Note: A biological assessment or study may be required to evaluate potential project impacts on biological resources.

F. Has a hydrological study been completed for the project or project site?

Yes (Enclose the hydrological study) No

Note: A hydrological study or other information on site hydraulics (e.g., flows, channel characteristics, and/or flood recurrence intervals) may be required to evaluate potential project impacts on hydrology.

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12. MEASURES TO PROTECT FISH, WILDLIFE, AND PLANT RESOURCES

A. Describe the techniques that will be used to prevent sediment from entering watercourses during and after construction.

Channel maintenance to prevent damage to the Friant-Kern Canal and adjacent channels is necessary on a regular basis and may involve the repair and maintenance of both man-made and natural channels that are crossed by the Friant-Kern Canal, or man-made toe drains, wasteways or the equalizing reservoir that parallel the canal. Physical and/or vegetative bank stabilization will be applied as appropriate.

Continued on additional page(s)

B. Describe project avoidance and/or minimization measures to protect fish, wildlife, and plant resources.

See USFWS (2005; 2001; 1991) and the Central Valley Project O&M Plan (2003). Biological surveys are conducted prior to work to ensure take avoidance measures and mitigation measures are employed, in accordance with Operation and Maintenance Biological Opinion and previous Section 1600 notices.

Continued on additional page(s)

C. Describe any project mitigation and/or compensation measures to protect fish, wildlife, and plant resources.

To ensure the implementation of the mitigation and take avoidance measures, prior to the initiation of the projects, an employee environmental awareness training session will be conducted. Preconstruction surveys will be conducted by a qualified biologist prior to implementation of the projects. Areas to be protected will be flagged off to alert equipment operators of areas to avoid. This would include any plant habitat or locations of plant and wildlife species of concern. All personnel and equipment shall be directed to remain on existing roadways or trails whenever possible.

Continued on additional page(s)

13. PERMITS

List any local, state, and federal permits required for the project and check the corresponding box(es). Enclose a copy of each permit that has been issued.

- | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------------------|
| A. <u>O&M Biological Opinions 2005, 2004, 2001, and 1991 (Appendices D - F)</u> | <input type="checkbox"/> Applied | <input checked="" type="checkbox"/> Issued |
| B. <u>Existing Section 1600 (Appendix H)</u> | <input type="checkbox"/> Applied | <input checked="" type="checkbox"/> Issued |
| C. <u>National Pollutant Discharge Elimination System Permit 2013 (Appendix I)</u> | <input type="checkbox"/> Applied | <input checked="" type="checkbox"/> Issued |
| D. Unknown whether <input type="checkbox"/> local, <input type="checkbox"/> state, or <input type="checkbox"/> federal permit is needed for the project. (Check each box that applies) | | |

Continued on additional page(s)

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14. ENVIRONMENTAL REVIEW

A. Has a draft or final document been prepared for the project pursuant to the California Environmental Quality Act (CEQA), National Environmental Protection Act (NEPA), California Endangered Species Act (CESA) and/or federal Endangered Species Act (ESA)?			
<input checked="" type="checkbox"/> Yes (Check the box for each CEQA, NEPA, CESA, and ESA document that has been prepared and enclose a copy of each) <input type="checkbox"/> No (Check the box for each CEQA, NEPA, CESA, and ESA document listed below that will be or is being prepared)			
<input type="checkbox"/> Notice of Exemption <input checked="" type="checkbox"/> Initial Study <input type="checkbox"/> Negative Declaration <input type="checkbox"/> THP/ NTMP	<input checked="" type="checkbox"/> Mitigated Negative Declaration <input type="checkbox"/> Environmental Impact Report <input type="checkbox"/> Notice of Determination (Enclose) <input checked="" type="checkbox"/> Mitigation, Monitoring, Reporting Plan	<input type="checkbox"/> NEPA document (type): _____ <input type="checkbox"/> CESA document (type): _____ <input checked="" type="checkbox"/> ESA document (type): <u>Biological Opinion</u>	
B. State Clearinghouse Number (if applicable)			
C. Has a CEQA lead agency been determined?		<input checked="" type="checkbox"/> Yes (Complete boxes D, E, and F) <input type="checkbox"/> No (Skip to box 14.G)	
D. CEQA Lead Agency	Friant Water Authority		
E. Contact Person	Bill Luce, Interim General Manager	F. Telephone Number	(559) 562-6305
G. If the project described in this notification is part of a larger project or plan, briefly describe that larger project or plan.			
N/A			
<input type="checkbox"/> Continued on additional page(s)			
H. Has an environmental filing fee (Fish and Game Code section 711.4) been paid?			
<input checked="" type="checkbox"/> Yes (Enclose proof of payment) <input type="checkbox"/> No (Briefly explain below the reason a filing fee has not been paid)			
<p>The Applicant is currently in the process of finalizing the CEQA documentation for this project, and will submit it to the Department of Fish and Wildlife when it is available.</p> <p><i>Note: If a filing fee is required, the Department may not finalize a Lake or Streambed Alteration Agreement until the filing fee is paid.</i></p>			

15. SITE INSPECTION

Check one box only.	
<input type="checkbox"/> In the event the Department determines that a site inspection is necessary, I hereby authorize a Department representative to enter the property where the project described in this notification will take place at any reasonable time, and hereby certify that I am authorized to grant the Department such entry.	
<input checked="" type="checkbox"/> I request the Department to first contact (insert name) <u>Eric Wilson</u> at (insert telephone number) <u>(559) 562-6305</u> to schedule a date and time to enter the property where the project described in this notification will take place. I understand that this may delay the Department's determination as to whether a Lake or Streambed Alteration Agreement is required and/or the Department's issuance of a draft agreement pursuant to this notification.	

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16. DIGITAL FORMAT

Is any of the information included as part of the notification available in digital format (i.e., CD, DVD, etc.)?

Yes (Please enclose the information via digital media with the completed notification form)

No

17. SIGNATURE

I hereby certify that to the best of my knowledge the information in this notification is true and correct and that I am authorized to sign this notification as, or on behalf of, the applicant. I understand that if any information in this notification is found to be untrue or incorrect, the Department may suspend processing this notification or suspend or revoke any draft or final Lake or Streambed Alteration Agreement issued pursuant to this notification. I understand also that if any information in this notification is found to be untrue or incorrect and the project described in this notification has already begun, I and/or the applicant may be subject to civil or criminal prosecution. I understand that this notification applies only to the project(s) described herein and that I and/or the applicant may be subject to civil or criminal prosecution for undertaking any project not described herein unless the Department has been separately notified of that project in accordance with Fish and Game Code section 1602 or 1611.

Bill Luce

Signature of Applicant or Applicant's Authorized Representative

10/21/16

Date

Bill Luce, Interim General Manager

Print Name

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SECTION 8B. Rivers, streams, or lakes to be affected by the project.

Lists

Natural Channels

Leveed Natural Channels

Sequential Milepost List of Channels, Siphon Crossings, and Toe-drains

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8B. Natural Channels to be affected by the project.

	<u>Milepost</u>	
	<u>Location on Friant-Kern Canal</u>	<u>County</u>
Kaweah River	71.29	Tulare
Kings River	28.31/28.53	Tulare
Little Dry Creek	5.50	Fresno
St. John's River	69.49	Tulare
Tule River	95.67	Tulare

Leveed Natural Channels (named) to be affected by the project.

	<u>Milepost</u>	
<u>Drainage</u>	<u>Location on Friant-Kern Canal</u>	<u>County</u>
Cottonwood Creek	66.50	Tulare
Deer Creek	102.69	Tulare
Dog Creek	14.57	Fresno
Dog Creek	15.49	Fresno
Ford Creek (Hills Valley Drain)	40.85	Fresno
Lewis Creek	85.56	Tulare
Mud Creek	22.28	Fresno
Mud Creek	22.96	Fresno
Navalencia Creek	36.10	Fresno
Porter Slough	94.85	Tulare
Poso Creek	130.03	Kern
Sand Creek	46.04	Tulare
Sand Creek	104.11	Tulare
Surprise Creek	40.20	Tulare
White River	112.90	Tulare
Wooten Creek	42.42	Fresno
Yokohl Creek	73.74	Tulare

Sequential Milepost List of Channels, Siphon Crossings, and Toe-drains to be affected by the project.

<u>Drainage</u>	<u>Milepost Number</u>	<u>County</u>
	1.37	Fresno
	1.82	Fresno
	2.87	Fresno
	3.02	Fresno
	3.49	Fresno
Little Dry Creek Wasteway	5.44	Fresno
Little Dry Creek	5.50	Fresno
	6.40	Fresno
Ambrosio Tract	7.40	Fresno
	7.93	Fresno
	8.32	Fresno
	9.07	Fresno
	9.65	Fresno
	11.10	Fresno
	11.54	Fresno
	11.80	Fresno
	12.38	Fresno
	13.87	Fresno
Big Dry Creek	14.57	Fresno
Dog Creek	15.49	Fresno
	16.50	Fresno
	17.11	Fresno
Rock Spring	17.65	Fresno
	18.47	Fresno
	18.91	Fresno
Fancher Creek/Hog Creek	19.91	Fresno
Mud Creek	22.96	Fresno
Kings River Wasteway	28.44	Fresno
Kings River	28.31/28.53	Fresno
White Tank Spring	30.34	Fresno
	30.94	Fresno
	33.89	Fresno
	35.16/35.58	Fresno
Wahtoke Creek	35.58/35.63	Fresno
Navalencia Creek	36.10	Fresno
	36.78/36.95	Fresno
	36.95/38.40	Fresno
	38.40/38.74	Fresno
	38.78	Fresno
	38.88	Fresno
	39.00	Fresno

<u>Drainage</u>	<u>Milepost Number</u>	<u>County</u>
Surprise Creek	40.20	Fresno
Ford Creek (Hills Valley Drain)	40.85	Fresno
	41.11/41.14	Fresno
	41.75/42.90	Fresno
	42.42	Fresno
Wooten Creek	43.38	Fresno
	43.64	Fresno
	44.18/44.59	Fresno
	44.74	Tulare
	45.10	Tulare
Sand Creek	45.89	Tulare
	48.60	Tulare
Negro Creek	48.69	Tulare
	49.56	Tulare
	49.75	Tulare
	50.72	Tulare
	51.01	Tulare
	51.62	Tulare
	52.46	Tulare
	53.81	Tulare
	54.04	Tulare
	54.31	Tulare
	57.96	Tulare
	58.62	Tulare
	58.81	Tulare
	59.86	Tulare
	60.50	Tulare
60.96	Tulare	
Cottonwood Creek	61.38	Tulare
	66.48	Tulare
	66.60	Tulare
St. John's River Wasteway	69.42	Tulare
St. John's River	69.49	Tulare
Kaweah River Wasteway	71.29	Tulare
	71.29	Tulare
	71.37/72.25	Tulare
	72.85/73.40	Tulare
	73.40	Tulare
Yokohl	73.74	Tulare
	73.99	Tulare
	74.26	Tulare
	78.08/78.97	Tulare
	79.85	Tulare
	84.45/85.12	Tulare

<u>Drainage</u>	<u>Milepost Number</u>	<u>County</u>
Lewis Creek	85.34/85.56	Tulare
	89.21	Tulare
	89.70/89.97	Tulare
	90.01	Tulare
	91.36/92.13	Tulare
	92.53	Tulare
Porter Slough	94.85	Tulare
Tule River Wasteway	95.66	Tulare
Tule River	95.67	Tulare
	99.37/99.68	Tulare
	101.13/101.66	Tulare
Deer Creek Wasteway	102.69	Tulare
Deer Creek	102.67/102.69	Tulare
	104.11	Tulare
	104.98/105.64	Tulare
	108.07	Tulare
	108.90	Tulare
White River Wasteway	112.90	Tulare
White River	112.90	Tulare
Lake Woollomes	119.48/121.51	Kern
Poso Creek Wasteway	130.03	Kern
Poso Creek	130.03	Kern

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SECTION 8C. What water body is the river, stream, or lake tributary to?

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- 8C. The drainages herein listed are ephemeral tributaries and/or are either the Tulare Lake Basin, San Joaquin River, Tule River, Kaweah, Kings and St. Johns, or Lake Woollomes.

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SECTION 8F. USGS 7.5 Minute Quad Map Name.

List of Quadrangle Map Name, Quarter Section, Section, Township, Range and County of Each
Site

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8F. Section, Township and Range of Each Site

<u>Quad Map Name</u>	<u>¼ Section</u>	<u>Section</u>	<u>Township</u>	<u>Range</u>	<u>County</u>
Friant	NW ¼,	Section 17	T11S,	R21E, M.D.B.&M	Fresno
Friant	NE ¼,	Section 17	T11S,	R21E, M.D.B.&M	Fresno
Friant	NW ¼,	Section 21	T11S,	R21E, M.D.B.&M	Fresno
Friant	SW ¼,	Section 21	T11S,	R21E, M.D.B.&M	Fresno
Friant	NE ¼,	Section 28	T11S,	R21E, M.D.B.&M	Fresno
Friant	NW ¼,	Section 34	T11S,	R21E, M.D.B.&M	Fresno
Friant	SW ¼,	Section 21	T11S,	R21E, M.D.B.&M	Fresno
Friant	NW ¼,	Section 4	T12S,	R21E, M.D.B.&M	Fresno
Friant	SW ¼,	Section 3	T12S,	R21E, M.D.B.&M	Fresno
Friant	SE ¼,	Section 3	T12S,	R21E, M.D.B.&M	Fresno
Friant	NE ¼,	Sections 10/11	T12S,	R21E, M.D.B.&M	Fresno
Friant	SW ¼,	Section 11	T12S,	R21E, M.D.B.&M	Fresno
Friant	SW ¼,	Section 3	T12S,	R21E, M.D.B.&M	Fresno
Academy	SW ¼,	Section 12	T12S,	R21E, M.D.B.&M.	Fresno
Academy	SW ¼,	Section 7	T12S,	R22E, M.D.B.&M.	Fresno
Academy	NE ¼,	Section 18	T12S,	R22E, M.D.B.&M.	Fresno
Academy	SW ¼,	Section 18	T12S,	R22E, M.D.B.&M.	Fresno
Academy	NW ¼,	Sections 19/20	T12S,	R22E, M.D.B.&M	Fresno
Round Mountain	SW ¼,	Section 20	T12S,	R22E, M.D.B.&M	Fresno
Round Mountain	NE ¼,	Section 29	T12S,	R22E, M.D.B.&M	Fresno
Round Mountain	SE ¼,	Section 28	T12S,	R22E, M.D.B.&M	Fresno
Round Mountain	NW ¼,	Section 34	T12S,	R22E, M.D.B.&M.	Fresno
Round Mountain	NE ¼,	Section 34	T12S,	R22E, M.D.B.&M.	Fresno
Round Mountain	SW ¼,	Section 35	T12S,	R22E, M.D.B.&M.	Fresno
Round Mountain	NE ¼,	Section 2	T13S,	R22E, M.D.B.&M.	Fresno
Round Mountain	SW ¼,	Section 1	T13S,	R22E, M.D.B.&M.	Fresno
Piedra	SW ¼,	Section 11	T13S,	R23E, M.D.B.&M.	Fresno
Piedra	SW ¼,	Section 26	T13S,	R22E, M.D.B.&M.	Fresno
Piedra	SE ¼,	Section 13	T14S,	R23E, M.D.B.&M.	Fresno
Wahtoke	NE ¼,	Section 2	T14S,	R23E, M.D.B.&M.	Fresno
Wahtoke	SE ¼,	Section 13	T14S,	R23E, M.D.B.&M.	Fresno
Wahtoke	SW ¼,	Section 17	T14S,	R24E, M.D.B.&M.	Fresno
Wahtoke	SW ¼,	Section 17	T14S,	R24E, M.D.B.&M.	Fresno
Wahtoke	NE ¼,	Section 20	T14S,	R24E, M.D.B.&M.	Fresno
Wahtoke	SE ¼,	Section 20	T14S,	R24E, M.D.B.&M.	Fresno
Orange Cove North	SW ¼,	Section 21	T14S,	R24E, M.D.B.&M.	Tulare
Orange Cove North	NW ¼,	Section 28	T14S,	R24E, M.D.B.&M.	Fresno
Orange Cove North	SW ¼,	Section 28	T14S,	R24E, M.D.B.&M.	Tulare
Orange Cove North	SE ¼,	Section 28	T14S,	R24E, M.D.B.&M.	Fresno
Orange Cove North	SE ¼,	Section 27	T14S,	R24E, M.D.B.&M.	Fresno
Orange Cove North	NW ¼,	Section 34	T14S,	R24E, M.D.B.&M.	Fresno

<u>Quad Map Name</u>	<u>¼ Section</u>	<u>Section</u>	<u>Township</u>	<u>Range</u>	<u>County</u>
Orange Cove North	NW ¼,	Section 13	T14S,	R23E, M.D.B.&M.	Fresno
Orange Cove North	SW ¼,	Section 35	T14S,	R23E, M.D.B.&M.	Tulare
Orange Cove North	NW ¼,	Section 13	T14S,	R23E, M.D.B.&M.	Fresno
Orange Cove North	NE ¼,	Section 2	T15S,	R24E, M.D.B.&M.	Fresno
Orange Cove North	SE ¼,	Section 1	T15S,	R24E, M.D.B.&M.	Fresno
Orange Cove North	SW ¼,	Section 1/12	T15S,	R24E, M.D.B.&M.	Tulare
Orange Cove South	SE ¼,	Section 13	T15S,	R24E, M.D.B.&M.	Fresno
Orange Cove South	NW ¼,	Section 19	T15S,	R25E, M.D.B.&M.	Fresno
Orange Cove South	SW ¼,	Section 19	T15S,	R25E, M.D.B.&M.	Tulare
Orange Cove South	NW ¼,	Section 30	T15S,	R25E, M.D.B.&M.	Fresno
Orange Cove South	NW ¼,	Section 29	T15S,	R25E, M.D.B.&M.	Fresno
Orange Cove South	SE ¼,	Section 33	T16S,	R25E, M.D.B.&M.	Tulare
Orange Cove South	SE ¼,	Section 33	T16S,	R25E, M.D.B.&M.	Tulare
Stokes Mountain	NW ¼,	Section 3	T16S,	R25E, M.D.B.&M.	Tulare
Stokes Mountain	SE ¼,	Section 3	T15S,	R25E, M.D.B.&M.	Tulare
Stokes Mountain	SE ¼,	Section 3	T16S,	R25E, M.D.B.&M.	Tulare
Stokes Mountain	SW ¼,	Section 11	T16S,	R25E, M.D.B.&M.	Tulare
Stokes Mountain	SE ¼,	Section 11	T16S,	R25E, M.D.B.&M.	Tulare
Stokes Mountain	SE ¼,	Section 14	T16S,	R25E, M.D.B.&M.	Tulare
Stokes Mountain	SE ¼,	Section 22	T16S,	R25E, M.D.B.&M.	Tulare
Stokes Mountain	NE ¼,	Section 22	T16S,	R25E, M.D.B.&M.	Tulare
Stokes Mountain	SW ¼,	Section 30	T16S,	R26E, M.D.B.&M.	Tulare
Stokes Mountain	SE ¼,	Section 30	T16S,	R26E, M.D.B.&M.	Tulare
Ivanhoe	NW ¼,	Section 32	T16S,	R26E, M.D.B.&M.	Tulare
Ivanhoe	NW ¼,	Section 32	T16S,	R26E, M.D.B.&M.	Tulare
Ivanhoe	SE ¼,	Section 32	T16S,	R26E, M.D.B.&M.	Tulare
Ivanhoe	NE ¼,	Section 4	T17S,	R26E, M.D.B.&M.	Tulare
Ivanhoe	SE ¼,	Section 4	T17S,	R26E, M.D.B.&M.	Tulare
Ivanhoe	NE ¼,	Section 27	T17S,	R26E, M.D.B.&M.	Tulare
Ivanhoe	NW ¼,	Section 1	T18S,	R26E, M.D.B.&M.	Tulare
Rocky Hill	SE ¼,	Section 12	T18S,	R26E, M.D.B.&M.	Tulare
Rocky Hill	SE ¼,	Section 13	T18S,	R26E, M.D.B.&M.	Tulare
Rocky Hill	SE ¼,	Section 13	T18S,	R26E, M.D.B.&M.	Tulare
Rocky Hill	NE ¼,	Section 24	T18S,	R26E, M.D.B.&M.	Tulare
Rocky Hill	SW ¼,	Section 24	T18S,	R26E, M.D.B.&M.	Tulare
Rocky Hill	SE ¼,	Section 23	T18S,	R26E, M.D.B.&M.	Tulare
Rocky Hill	SW ¼,	Section 12	T19S,	R26E, M.D.B.&M.	Tulare
Rocky Hill	SW ¼,	Section 18	T19S,	R27E, M.D.B.&M.	Tulare
Lindsay	SW ¼,	Section 9	T20S,	R27E, M.D.B.&M.	Tulare
Lindsay	NW ¼,	Section 33	T20S,	R27E, M.D.B.&M.	Tulare
Lindsay	NE ¼,	Section 33	T20S,	R27E, M.D.B.&M.	Tulare
Lindsay	SE ¼,	Section 33	T20S,	R27E, M.D.B.&M.	Tulare
Porterville	SE ¼,	Section 4	T21S,	R27E, M.D.B.&M.	Tulare
Porterville	SE ¼,	Section 9	T21S,	R27E, M.D.B.&M.	Tulare

<u>Quad Map Name</u>	<u>¼ Section</u>	<u>Section</u>	<u>Township</u>	<u>Range</u>	<u>County</u>
Porterville	SW ¼,	Section 20	T21S,	R27E, M.D.B.&M.	Tulare
Porterville	NW ¼,	Section 29	T21S,	R27E, M.D.B.&M.	Tulare
Porterville	NW ¼,	Section 18	T22S,	R27E, M.D.B.&M.	Tulare
Ducor	SE ¼,	Section 19	T22S,	R27E, M.D.B.&M.	Tulare
Ducor	NW ¼,	Section 31	T22S,	R27E, M.D.B.&M.	Tulare
Ducor	NE ¼,	Section 1	T23S,	R26E, M.D.B.&M.	Tulare
Ducor	SW ¼,	Section 12	T23S,	R26E, M.D.B.&M.	Tulare
Suasalito School	SE ¼,	Section 22	T23S,	R26E, M.D.B.&M.	Tulare
Suasalito School	NE ¼,	Section 27	T23S,	R26E, M.D.B.&M.	Tulare
Delano East	NE ¼,	Section 16	T23S,	R26E, M.D.B.&M.	Tulare
Famoso	SW ¼,	Section 36	T23S,	R26E, M.D.B.&M.	Kern

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8M GPS Points for the beginning of the Friant-Kern Canal at the Millerton Lake.

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8M. GPS Points for the beginning and end of the Friant-Kern Canal.

The Friant-Kern Canal begins at Millerton Lake at:

GPS Points Latitude: 36.99157 Longitude: -119.7031796
Quadrangle: Friant
County: Fresno.

The Friant Kern Canal ends at approximately Brimhall Road and Coffee Road at:

GPS Points Latitude: 35.3655 Longitude: -119.0827
Quadrangle: Gosford
County: Kern

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Section 11

11B. Vegetation type to be affected.

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11B. Number of trees to be removed – All within channels.

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11C. Previous Biological Study.

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11C. Previously submitted for original MOU.

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11D. Biological Preconstruction Surveys Performed Between January 2005 and February 2010.
List of Surveyors and their Qualifications.

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11D. Biological Preconstruction surveys performed between January 2005 and February 2010.

Surveyor(s)	Dates of Surveys	Location or Milepost Number
ES	1/14/2005	99.37-108.44
JN, MHW, TR	4/12/2006	Kimberlina Road on West and East banks
MHW, RP	7/11/2007	Rank Island
AC MHW	3/3/2008	40.85
MHW	3/3/2008	40.20
MHW	3/3/2008	42.42
AC, MHW	3/3/2008	44.74
MHW	3/3/2008	45.80
AC, MHW	3/3/2008	38.88
AC, MHW	3/3/2008	45.89
MHW	3/4/2008	49.75
MHW	3/4/2008	51.01
MHW	3/4/2008	52.46
MHW	3/4/2008	33.88 – 52.46
SC, MHW	7/23/2008	151.23 – 151.81
MHW	1/26/2009	150.38
AC, MHW	3/3/2009	48.69
MHW, RP	3/27/2009	95.67
RP, JC	5/6/2009	5.50
RP	5/6/2009	3.02
RP, AG	6/5/2009	30.34
RP, AG	6/5/2009	54.04
RP	6/30/2009	11.10
RP, AG	7/7/2009	35.58
RP, AG	7/17/2009	58.62
RP, AG	7/17/2009	59.86
MHW	7/28/2009	Shafter Creek
MHW	7/28/2009	119.48 – 121.51 Lake Woollomes
MHW	7/28/2009	112.90 White River
MHW	7/28/2009	Poso Creek
RP	8/2/2009	89.21
RP	8/7/2009	71.29
RP	8/7/2009	89.21
AG, RP, MHW	8/31/2009	130.3
AG, RP, MHW	9/1/2009	130.3
AG, RP, MHW	9/2/2009	130.3
AG, RP, MHW	9/3/2009	130.3
AG, RP, MHW	9/4/2009	130.3
AG, RP, MHW	9/5/2009	130.3
AG, RP, MHW	9/6/2009	130.3

AG, RP, MHW	9/7/2009	130.3
AG, RP, MHW	9/8/2009	130.3
AG, RP, MHW	9/9/2009	130.3
AG, RP, MHW	9/10/2009	130.3
AG, RP, MHW	9/11/2009	130.3
AC, RP	3/4/2010	92.13
AC, RP	2/9/2010	94.92
AC, RP	2/9/2010	98.62
AC, RP	2/9/2010	96.87
AC, RP	1/20/2010	54.04
AC, RP	1/20/2010	30.34
AC, RP	1/20/2010	58.62
AC, RP	1/20/2010	59.86

List of surveyors and their qualifications.

NAME OF SURVEYORS	JOB TITLE(S)	QUALIFICATIONS
Jeff Cornell (JC)	Cultural Resource Specialist/Technical Writer	B.A. Anthropology, CSU Bakersfield, CA
Angel Correa (AC)	Biologist II	B.S. Biology, CSU Bakersfield, CA Level II BNLL Researcher
Sarah Crenshaw (SC)	Biology Technician	Wildlife conservation major, Bakersfield College, Bakersfield, CA
Adam Grimes (AG)	Biologist I	B.S. Biology, CSU Bakersfield, CA A.S. Science San Joaquin Delta College CA Level II BNLL Surveyor
Jennifer Noone (JN)	Wildlife Consultant	B.A. Environmental Studies and Native American Studies; University California, Santa Cruz, CA. Level II BNLL Researcher
Rick L. Perry (RP)	Biologist III	B.S. Biology, CSU Bakersfield, CA Level II BNLL Researcher Certificate Wildlife Tracking
Teresa Ray (TR)	Field Biologist	California State Polytechnic University, San Luis Obispo. 09/2002 to 06/2005 Soil Science/Land Resource-Average GPA 3.2 CEQA Training 2007.
Eric Schaad (ES)	Biologist 1	BS Biology, CSU Bakersfield, CA Point Loma Nazarene University, San Diego, CA Level I BNLL Surveyor
Marcia H. Wolfe (MHW)	Senior Wildlife Biologist/Certified Senior Ecologist, ESA	BS Biology, University of Puget Sound; MS Botany/plant ecology, Washington State University; Post grad classes at Colorado State University and Stanford University Level II BNLL Surveyor

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11E. Biological Studies completed for this project site.

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11E. For biological studies conducted for this project site, please refer to milepost data sheets, which contain results of a site reconnaissance. In addition, several more recent preconstruction surveys along the canal are included in Appendix C. A copy of the Operations and Maintenance Guidelines for the Protection of Listed species of the South Central California Office (SCCAO) Central Valley Project, July 14, 2003, is included as Appendix B of the Friant Water Users Authority Section 1600 Memorandum of Understanding, as well as the Biological Opinions (Appendices D – G) and Operations and Maintenance (O&M) Plan (Appendix H).