APPROVED JURISDICTIONAL DETERMINATION FORM **U.S. Army Corps of Engineers**

This form should be completed by following the instructions provided in Section IV of the JD Form Instructional Guidebook.

SE.	CTION I.	BACKGROUND	INFORMATION
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A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): April 12, 2010

DISTRICT OFFICE FILENAME AND NUMBED. Sopromonto District Waterman Percel File No. SPK 2000 00173

В.	DISTRICT OFFICE, FILE NAME, AND NUMBER: Sacramento District, Waterman Parcel, File No. SPK-2009-001/5
C.	PROJECT LOCATION AND BACKGROUND INFORMATION: State: California County/parish/borough: Amador City: Ione Center coordinates of site (lat/long in degree decimal format): Lat. 38.3607° N, Long. 120.9301 ° W. Universal Transverse Mercator: Zone 10 Name of nearest waterbody: Sutter Creek Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Cosumnes River Name of watershed or Hydrologic Unit Code (HUC): Lower Cosumnes-Lower Mokelumne; 18040005 Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request. Check if other sites (e.g., offsite mitigation sites, disposal sites, etc) are associated with this action and are recorded on a different JD form.
D.	REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY): Office (Desk) Determination. Date: Field Determination. Date(s): February 24, 2009
	CTION II: SUMMARY OF FINDINGS RHA SECTION 10 DETERMINATION OF JURISDICTION.
	re Are no "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the ew area. [Required] Waters subject to the ebb and flow of the tide. Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce. Explain:
В.	CWA SECTION 404 DETERMINATION OF JURISDICTION.
The	re Are "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required]
	1. Waters of the U.S. a. Indicate presence of waters of U.S. in review area (check all that apply): TNWs, including territorial seas Wetlands adjacent to TNWs Relatively permanent waters ² (RPWs) that flow directly or indirectly into TNWs Non-RPWs that flow directly or indirectly into TNWs Wetlands directly abutting RPWs that flow directly or indirectly into TNWs Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs Impoundments of jurisdictional waters Isolated (interstate or intrastate) waters, including isolated wetlands
	b. Identify (estimate) size of waters of the U.S. in the review area: Non-wetland waters: 1,823 linear feet: width (ft) and/or 0.177 acres. Wetlands: 1.387 acres.
	c. Limits (boundaries) of jurisdiction based on: 1987 Delineation Manual Elevation of established OHWM (if known):
	2. Non-regulated waters/wetlands (check if applicable): Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional Explain:

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¹ Boxes checked below shall be supported by completing the appropriate sections in Section III below.

² For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

³ Supporting documentation is presented in Section III.F.

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

1.	TN	W

Identify TNW:

Summarize rationale supporting determination:

2. Wetland adjacent to TNW

Summarize rationale supporting conclusion that wetland is "adjacent":

B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under *Rapanos* have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are "relatively permanent waters" (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody⁴ is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

1. Characteristics of non-TNWs that flow directly or indirectly into TNW

(i) General Area Conditions:

Watershed size: 515 acres

Drainage area: 52 acres

Average annual rainfall: 23 inches Average annual snowfall: 0 inches

(ii) Physical Characteristics:

(a) Relationship with TNW:

Tributary flows directly into TNW.

Tributary flows through 4 tributaries before entering TNW.

Project waters are **30 (or more)** river miles from TNW.

Project waters are 1 (or less) river miles from RPW.

Project waters are 25-30 aerial (straight) miles from TNW.

Project waters are 1 (or less) aerial (straight) miles from RPW.

Project waters cross or serve as state boundaries. Explain:

Identify flow route to TNW⁵: Non-RPW flows to Sutter Creek (RPW), which flows to Dry Creek (RPW), which flows to Cosumnes River (TNW).

⁴ Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

⁵ Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

	Tributary stream order, if known: 2.	
(b)	General Tributary Characteristics (check all that apply) Tributary is:	
	Tributary properties with respect to top of bank (estime Average width: 2 feet Average depth: 2 feet Average side slopes: 2:1.	nate):
	Primary tributary substrate composition (check all that Silts Sands Cobbles Gravel Bedrock Vegetation. Type/% Other. Explain: .	apply): Concrete Muck cover: 50% ruderal forbs/non-native annual grasses
shelving; rude	Tributary condition/stability [e.g., highly eroding, slougeral grasses and forbs on banks of S2 and S9. Presence of run/riffle/pool complexes. Explain: Run/ri Tributary geometry: Meandering Tributary gradient (approximate average slope): <1 %	ghing banks]. Explain: Moderately stable banks: evidence of sour, ffle/pool complexes are absent.
(c)	Flow: Tributary provides for: Seasonal flow Estimate average number of flow events in review area Describe flow regime: Flow regime is periodic fol	/year: 11-20 lowing rain events and stormwater runoff and fluctuations in the
groundwater t		
lands and dire	Surface flow is: Discrete and confined. Characteristic ect precipitation.	s: Surface flow comes from storm water run-off from adjacent
	Subsurface flow: Unknown . Explain findings:	
	Tributary has (check all that apply): Bed and banks OHWM ⁶ (check all indicators that apply): clear, natural line impressed on the bank changes in the character of soil shelving vegetation matted down, bent, or absent leaf litter disturbed or washed away sediment deposition water staining other (list): Discontinuous OHWM. ⁷ Explain:	the presence of litter and debris destruction of terrestrial vegetation the presence of wrack line sediment sorting scour multiple observed or predicted flow events abrupt change in plant community .
		e lateral extent of CWA jurisdiction (check all that apply): Mean High Water Mark indicated by: survey to available datum; physical markings; vegetation lines/changes in vegetation types.
(iii) Che	emical Characteristics:	

⁶A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.

⁷Ibid.

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.). Explain: Water is clear. A culvert separates S2 and S4 under Highway 124. The surrounding area is comprised of rangeland.

Identify specific pollutants, if known: Livestock waste, oil (road), etc. Land use in the Waterman Parcel watershed is predominately rural (rangeland) but also includes areas of urban development (residential developments, businesses, public facilities). Water in the tributaries is typically clear. The water could contain low levels of fertilizer constituents or suspended sediments and petroleum hydrocarbons from surrounding road and automobile traffic. These pollutant sources are considered "non-point" sources and constitute a less than significant impact to Sutter Creek (RPW) which flows indirectly to the Cosumnes River (TNW).

(iv)	Biological Characteristics. Channel supports (check all that apply):
	Riparian corridor. Characteristics (type, average width): Wetland fringe. Characteristics: North of Highway 124, tributary S2 is surrounded by seasonal wetland and seasonal
marsh. In	addition, water seeps from a stockpond (S1) surrounded by freshwater marsh into S2.
	 ☐ Habitat for: ☐ Federally Listed species. Explain findings:
	☐ Federally Listed species. Explain findings: ☐ Fish/spawn areas. Explain findings: hydrology flow into Consumes River that has Fish/spawning area.
	Other environmentally-sensitive species. Explain findings: Please see attachment A: wildlife species observed during
consultant's fie	
feeds into S2. I	Aquatic/wildlife diversity. Explain findings: Clam shrimp, snails and amphipods are present in the stockpond which Please see attachment A: wildlife species observed during consultant's field survey.
2. Char	racteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW
	Physical Characteristics:
	(a) General Wetland Characteristics: Properties:
	Wetland size: 1.38 acres
	Wetland type. Explain: Seasonal wetland (0.724 acre), seasonal marsh (0.256 acre), freshwater marsh (0.407 acre).
	Wetland quality. Explain: high. Project wetlands cross or serve as state boundaries. Explain:
	Troject wettailus cross of serve as state boundaries. Explain.
	(b) General Flow Relationship with Non-TNW:
	Flow is: Ephemeral flow . Explain:
	Surface flow is: Overland sheetflow
1 211 2 1	Characteristics: Seasonal and freshwater marshes are hydrologically fed primarily by groundwater discharge from
miliside se	ep action in the form of sheetflow.
	Subsurface flow: Yes. Explain findings: Groundwater fluctuations (seasonal wetlands) and seasonally high water table
(seasonal	marsh and freshwater marsh).
	Dye (or other) test performed: .
	(c) Wetland Adjacency Determination with Non-TNW:
	☐ Directly abutting
	 ✓ Not directly abutting ✓ Discrete wetland hydrologic connection. Explain: surface flow to non-TNW.
	☐ Ecological connection. Explain:
	☐ Separated by berm/barrier. Explain: .
	(d) Proximity (Relationship) to TNW
	Project wetlands are 30 (or more) river miles from TNW.
	Project waters are 25-30 aerial (straight) miles from TNW.
	Flow is from: No Flow. Estimate approximate location of wetland as within the 500-year or greater floodplain.
	Estimate approximate rocation of wedant as within the 200 year of greater moodplain.
	Chemical Characteristics:
	Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: Water is generally clear with no oil film on the surface. No water quality issues (erosion,
	pollutants, etc.) appear to be present though there is potential for low levels of pollants due to surrounding land use
	(discussed below). The property is within the Lower Cosumnes-Lower Mokelumne watershed.
	Identify specific pollutants, if known: There is potential for the tributaries to contain low levels of fertilizer constituents or sediments and petroleum hydrocarbons from surrounding grazing activities and automobile traffic.
suspended	sedificits and performing from surrounding grazing activities and automobile traffic.
	Biological Characteristics. Wetland supports (check all that apply):
	Riparian buffer. Characteristics (type, average width): Vegetation type/percent cover. Explain:
	Habitat for:
	Federally Listed species. Explain findings: .
	☐ Fish/spawn areas. Explain findings:hydrology flow into Consumes River that has Fish/spawning area. ☐ Other environmentally-sensitive species. Explain findings:Please see attachment A: wildlife species observed during
consultant's fie	
	Aquatic/wildlife diversity. Explain findings:Clam shrimp, snails and amphipods are present in the stockpond which
feeds into S2. I	Please see attachment A: wildlife species observed during consultant's field survey.

3. Characteristics of all wetlands adjacent to the tributary (if any)

All wetland(s) being considered in the cumulative analysis: 20-25 Approximately (2.982) acres in total are being considered in the cumulative analysis.

For each wetland, specify the following:

Directly abuts? (Y/N)	Size (in acres)	Directly abuts? (Y/N)	Size (in acres)
W5N	0.002	W6 N	0.006
W7 N	0.005	W8 N	0.012
W11 N	0.002	W12 N	0.066
W13 N	0.004	W13 N	0.004
W14 N	0.013	W15 N	0.006
W16 N	0.007	W17N	0.007
W19N	0.002	W20N	0.005
W3 N	0.248	W4 N	0.473
W16N	0.003	W18N	0.003
W21N	0.002	W22N	0.004
W23N	0.003	W24N	0.002
W25N	0.003	W2N	0.256

Summarize overall biological, chemical and physical functions being performed: See above.

C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Draw connections between the features documented and the effects on the TNW, as identified in the *Rapanos* Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

- 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D:
- 2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D: All non-RPW and its wetlands on this property flows to Sutter Creek (RPW), which flows to Dry Creek (RPW), which flows to Cosumnes River (TNW).
- 3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:
- **D.** DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL THAT APPLY):
 - 1. TNWs and Adjacent Wetlands. Check all that apply and provide size estimates in review area:

	☐ TNWs: linear feet width (ft), Or, acres. ☐ Wetlands adjacent to TNWs: acres.
2.	 RPWs that flow directly or indirectly into TNWs. ☑ Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial: Observation by applicant's consultant in May, July and August 2007 and April 2009 indicate flowing water within Sutter Creek occurs year round. ☑ Tributaries of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally:
	Provide estimates for jurisdictional waters in the review area (check all that apply): Tributary waters: 999 linear feet 9.5 width (ft). Other non-wetland waters: acres. Identify type(s) of waters: .
3.	Non-RPWs ⁸ that flow directly or indirectly into TNWs. Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.
	Provide estimates for jurisdictional waters within the review area (check all that apply): Tributary waters: linear feet width (ft). Other non-wetland waters: acres. Identify type(s) of waters: .
4.	Wetlands directly abutting an RPW that flow directly or indirectly into TNWs. Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands. Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:
	Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:
	Provide acreage estimates for jurisdictional wetlands in the review area: acres.
5.	Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs. Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisidictional. Data supporting this conclusion is provided at Section III.C.
	Provide acreage estimates for jurisdictional wetlands in the review area: 1.39 acres.
6.	Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs. Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.
	Provide estimates for jurisdictional wetlands in the review area: acres.
7.	As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional. Demonstrate that impoundment was created from "waters of the U.S.," or Demonstrate that water meets the criteria for one of the categories presented above (1-6), or Demonstrate that water is isolated with a nexus to commerce (see E below).

 $^{^8} See$ Footnote # 3. 9 To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.

Е.	ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS (CHECK ALL THAT APPLY): 10 which are or could be used by interstate or foreign travelers for recreational or other purposes. from which fish or shellfish are or could be taken and sold in interstate or foreign commerce. which are or could be used for industrial purposes by industries in interstate commerce. Interstate isolated waters. Explain: Other factors. Explain:
	Identify water body and summarize rationale supporting determination:
	Provide estimates for jurisdictional waters in the review area (check all that apply):
	Tributary waters: linear feet width (ft). Other non-wetland waters: acres.
	Identify type(s) of waters: Wetlands: acres.
F.	NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY): If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements. Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce. Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based solely on the "Migratory Bird Rule" (MBR). Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain: Other: (explain, if not covered above):
	Provide acreage estimates for non-jurisdictional waters in the review area, where the <u>sole</u> potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply): Non-wetland waters (i.e., rivers, streams): linear feet width (ft). Lakes/ponds: acres.
	Other non-wetland waters: acres. List type of aquatic resource: Wetlands: 8.42 acres.
	Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (check all that apply): Non-wetland waters (i.e., rivers, streams): linear feet, width (ft). Lakes/ponds: acres.
	Other non-wetland waters: acres. List type of aquatic resource: Wetlands: acres.
SE(CTION IV: DATA SOURCES.
A. 3	SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked and requested, appropriately reference sources below): Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant:Appendix A. Map of potential section 404 jurisdiction, Waterman Parcel, Amador, CA, April 2009. Data sheets prepared/submitted by or on behalf of the applicant/consultant. Office concurs with data sheets/delineation report. Office does not concur with data sheets/delineation report. Data sheets prepared by the Corps: Corps navigable waters' study: U.S. Geological Survey Hydrologic Atlas: USGS NHD data. USGS 8 and 12 digit HUC maps. U.S. Geological Survey map(s). Cite scale & quad name: Ione 7.5 Minute USGS Quadrangle. USDA Natural Resources Conservation Service Soil Survey. Citation: Soil Survey of Amador County. National wetlands inventory map(s). Cite name: Ione 7.5 Minute USGS Quadrangle.

 $^{^{10}}$ Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA $\it Memorandum~Regarding~CWA~Act~Jurisdiction~Following~Rapanos.$

	State/Local wetland inventory map(s): .
\boxtimes	FEMA/FIRM maps: Q3 Data.
	100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)
	Photographs: Aerial (Name & Date): Google Earth: January 24, 2006; Delineation Basemap June 22. 2002.
	or ☐ Other (Name & Date): .
\boxtimes	Previous determination(s). File no. and date of response letter: .
	Applicable/supporting case law: .
	Applicable/supporting scientific literature: .
	Other information (please specify): .

B. ADDITIONAL COMMENTS TO SUPPORT JD: Non-RPW flows to Sutter Creek (RPW), which flows to Dry Creek (RPW), which flows to Cosumnes River (TNW).