Chapter 5
CHANGES AND CORRECTIONS TO THE EIR

All revisions to the DSEIR are provided in this chapter. Deleted text is shown in ~~strikethrough~~, and text that has been inserted is shown in underline. Note that the draft proposed regulations in the DSEIR were already presented in underline/~~strikethrough~~ to show changes from the existing regulations. To distinguish changes to the regulations in the FSEIR from the DSEIR, the changes to the regulations in this chapter are shown in double underline/~~double strikethrough~~.

Chapter 2 Project Description

2.2.4 Draft Proposed Regulations

TITLE 14. NATURAL RESOURCES

Division 1. Fish and Game Commission-Department of Fish and Game

Subdivision 1. Fish, Amphibians and Reptiles

Chapter 8. Miscellaneous

Section 228 and 228.5. Suction Dredging.

PROPOSED AMENDMENTS TO REGULATIONS

§ 228. Suction Dredging.

The Department has adopted this Section and Section 228.5 pursuant to Fish and Game Code Section 5653.9, and to make specific and otherwise implement Fish and Game Code Section 5653, specifically. Pursuant to that authority, the Department finds that suction dredging subject to and consistent with the requirements of Sections 228 and 228.5 will not be deleterious to fish.

~~For purposes of these regulations, suction dredging (also called vacuum dredging) is defined as the use of a suction system to remove~~

~~and return material at the bottom of a stream, river, or lake for the extraction of minerals. Suction dredges may only be used pursuant to the following provisions:~~

(a) Definitions.

(1) Suction dredging. For purposes of Section 228 and 228.5, the use of vacuum or suction dredge equipment (i.e. suction dredging) is defined as the use of a motorized suction system to vacuum material from the bottom of a river, stream or lake and to return all or some portion of that material to the same river, stream or lake for the extraction of minerals. A person is suction dredging as defined when all of the following components are operating together:

(A) A ~~vacuum~~ hose ~~operating through the Venturi effect~~ which vacuums sediment from ~~the~~ a river, stream or lake; and

(B) A motorized pump; and

(C) A sluice box.

(2) Motorized. For purposes of these regulations, "motorized" means a mechanical device powered by electricity or an internal combustion engine.

~~(a)~~ (b) Permit requirement. Every person who operates the intake nozzle of any suction dredge shall have a suction dredge permit in his/her immediate possession. Any amended permit shall also be in his/her immediate possession. Suction dredge permits ~~sold in 2011 or 2012 shall be valid through December 31, 2012. Beginning on January 1, 2013, suction dredge permits~~ shall be valid from the first day of the year for one calendar year or if issued after the first day of the year, for the remainder of that year. The ~~department~~ Department will charge a fee for each suction dredge permit pursuant to Section 5653, subdivision (c), ~~,~~ of the Fish and Game Code. Permits may be obtained at

any Department license sales office. ~~Regional office or at the License and Revenue Branch office.~~

Any person with a qualifying disability under the Americans with Disabilities Act, who presents a Disabled Person DMV registration or other State, or Federal approved documentation of disability, and who requires assistance in operating a suction dredge may also apply for an assistant suction dredge permit. Any assistant suction dredge permit issued by the ~~department~~ Department to such disabled person shall be in the disabled applicant's name and shall be issued at no charge. The disabled permittee must be present at the dredge site while the assistant is operating the suction dredge. The assistant shall have the assistant suction dredge permit in his/her immediate possession while assisting the disabled permittee in suction dredging activities. Any assistant may be prosecuted for a violation of the laws or regulations pertaining to suction dredging. The disabled permittee may be prosecuted for a violation of the laws or regulations pertaining to suction dredging committed by his/her assistant.

~~(b) Special Suction Dredge Permits.~~

~~(1) Submission of Written Plan. Any person may apply for a special suction dredge permit to operate a suction dredge with a nozzle larger than prescribed in subsections 228(c)(1), 228.5(c) or 228.5(d) by submitting a written plan detailing the proposed operation. If the department determines that no deleterious effect to fish may occur, the special permit shall be issued with conditions prescribed by the department to protect fish resources. A special permit will be issued or denied within 30 days upon receipt of a complete written plan detailing the proposed operation unless the time is intended by mutual agreement. If the special permit is denied, the justification for denial will be provided.~~

~~(2) Appeal of Denial. The denial of a special suction dredge permit may be appealed in writing to the director or his/her designee (hereinafter referred to as director). If the director determines that no deleterious impacts to fish may occur, the director shall authorize the issuance of the permit. The director shall respond to an appeal within 45 days from receipt of notice of request to appeal.~~

(c) Permit application. Suction dredge permit applications shall be made available at any Department license sales office using the Department's Automated License Data system. No suction dredge permit shall be issued by the Department unless an application has been completed by the permit applicant. At a minimum, a completed application shall contain all of the following information:

(1) Identification and contact information for the permit applicant based on any of the following:

(A) Any license document or identification number previously issued via the Department's Automated License Data System,

(B) A valid driver's license or identification card issued to him or her by the Department of Motor Vehicles or by the entity issuing driver's licenses from the licensee's state of domicile,

(C) U.S. Birth Certificate,

(D) U.S. Certificate or Report of Birth Abroad,

(E) Immigration and Naturalization Service American Indian Card,

(F) Birth Certificate or passport issued from a US Territory,

(G) U.S. Passport,

(H) U.S. Military Identification Cards (Active or reserve duty, dependent, retired member, discharged from service,

medical/religious personnel), or

(I) Certificate of Naturalization or Citizenship.

~~(2) A list of up to six locations where the permit applicant plans to suction dredge. Location information shall include either:~~

~~(A) County, river or stream or lake name, township, range, section, quarter section, base, and meridian; or~~

~~(B) Approximate centerpoint of the location using latitude and longitude.~~

~~For each location the California Active Mining Claim number, if applicable, and approximate dates of proposed dredging shall be listed.~~

~~(3) A list of all suction dredge equipment that will be used under the permit, including nozzle size, constrictor ring size (if needed), engine manufacturer and model number, and horsepower.~~

(d) Permit Amendment. Applicants may amend suction dredge permits at a Department license sales office, at no additional cost, by submitting an amendment form providing the Department with their permit number and modifications or additions to the information specified in the original application.

(e) Permits Requiring an On-site Inspection. Where an on-site inspection is required, a permit, or amended permit, is not valid until the permittee has contacted the appropriate Department Regional Office to arrange an inspection, the inspection has been completed and the Department has provided written approval of the proposed suction dredging.

(f) Permits Requiring Notification Pursuant to Section 1602 of the Fish and Game Code. Where a notification is required pursuant to these

regulations, a permit, or amended permit, is not valid until the permittee has in their possession documentation of compliance with Fish and Game Code Section 1602, subdivision (a), for the proposed suction dredging, including a copy of their notification to the Department; any response to the notification by the Department pursuant to Fish and Game Code Section 1602, subdivision(a)(4)(A)(i); and a Lake or Streambed Alteration Agreement if required.

(g) Number of Permits. The Department shall issue a maximum of ~~4,000~~ 1,500 permits annually, on a first-come, first-serve basis. ~~Any permits issued in 2011 will apply toward the limitation of 4,000 permits for 2012.~~

(h) Suction Dredge Reporting. Each permittee shall possess, maintain and submit to the Department a completed annual Report Card for each year that a suction dredge permit is held. The Report Card shall be received by the Department no later than the following January 15. The Department shall furnish the Report Card to all permittees when a permit is sold. Failure to timely submit the Report Card as required may result in revocation, suspension or non-issuance of any subsequent suction dredge permit issued to the permittee by the Department. At a minimum, the Report Card will require the permittee to provide the following information to the Department:

(1) The location of each site where the permittee operated the nozzle of a suction dredge. Pertinent information includes river, stream or lake name, county, nearest town or city, latitude and longitude or topographic map name with township, range, section and quarter section;

(2) The dates of operation for suction dredging at each location;

(3) The beginning and end times for operation each day, and

(4) The nozzle size and horsepower for each suction dredge operated at each location.

The permittee shall have the Report Card in his/her possession when suction dredging; the Report Card shall be up to date with required information during suction dredging, including information regarding prior and current suction dredging activity; and the permittee shall provide the Report Card to any Department representative for inspection upon request.

~~(c)~~ ~~(h)~~(i) Permit Revocation or Suspension. Any suction dredge permit, or amended ~~assistant~~ suction dredge permit~~, or special suction dredge permit~~ may be revoked or suspended by the ~~regional manager~~ assistant chief of enforcement ~~or his/her designee (hereinafter referred to as regional manager)~~ for any violation of the laws or regulations pertaining to suction dredging. The ~~regional manager~~ assistant chief of enforcement may, in his/her discretion, revoke or suspend the permit or amended permit ~~or permit renewal or permanently revoke the renewal of a permit~~ based on past citations or convictions of such laws or regulations. Once a permit or amended permit has been revoked, no new suction dredge permit may be obtained by that person in the current year or for the calendar year subsequent to the revocation. An assistant chief of enforcement's ~~regional manager's~~ decision to revoke or suspend a permit or amended permit ~~or permit renewal~~ may be appealed to the director. Any revocation or suspension of a permit or amended permit ~~or permit renewal~~ shall be in accordance with the following provisions:

(1) Hearing When Permittee Convicted of Violation. In the case where the permittee has already been convicted of a violation of Section 5653 or 5653.3 of the Fish and Game Code or any regulation pertaining thereto permitted by said code, the ~~regional manager~~ assistant chief of enforcement shall schedule a hearing to consider the revocation or suspension of his/her permit~~ or permit renewal~~:

(A) Notification. The ~~regional manager~~ assistant chief of enforcement shall notify the permittee, by certified

letter, of the intent to consider the revocation or suspension of his/her permit or amended permit ~~or permit renewal~~ at the hearing. The certified letter shall include the following information:

1. Name of permittee and last known address.
2. Date, time and place of scheduled hearing,
3. Reason for impending action, including a statement as to date and fact of conviction(s).
4. A copy of Section 228, Title 14, California Code of Regulations.
5. A statement that the permittee has the right to appear and to be represented by legal counsel.

(B) Recording. The proceedings of the hearing shall be recorded by an electronic tape recording system.

(C) Reading of Documents. At the hearing, the ~~regional manager~~ assistant chief of enforcement shall read the conviction documents. The ~~department~~ Department shall provide the ~~regional manager~~ assistant chief of enforcement with the background information regarding the violation(s) and conviction(s) and shall submit into the record a copy of the document(s) which include(s) the facts of the conviction(s) of a violation of the regulation(s) or statute.

(D) Statement by Permittee. The permittee shall make his/her statement regarding the violation(s) and conviction(s), and may argue that extenuating circumstances were such as to not warrant the loss of his/her permit or amended permit. ~~or permit renewal.~~

(E) Questioning. The permittee or the ~~department~~ Department personnel may be questioned by the ~~regional manager~~ assistant chief of enforcement.

(F) Findings. At the conclusion of the hearing, the ~~regional manager~~ assistant chief of enforcement shall make

a decision which contains findings or reasons for the proposed action.

(G) Notification by Certified Mail. After the hearing, the ~~regional manager~~ assistant chief of enforcement shall provide the permittee, by certified mail, a copy of the final decision.

(H) Appeal. The permittee may request an appeal in writing to the director within 30 days of the date of receipt of the ~~regional manager's~~ assistant chief of enforcement's decision. The director shall respond to an appeal in writing within 45 days from receipt of notice of request to appeal.

(I) Judicial Review. The permittee may request judicial review by filing a petition for writ of mandate in accordance with provisions of the Code of Civil Procedure within 30 days from the date of the decision. The record of the proceedings shall be prepared by the ~~department~~ Department and delivered to the petitioner within 30 days after receipt of petitioner's request and upon payment of the fee specified in Section 69950 of the Government Code.

(2) Hearing When Permittee Cited but Not Convicted. In the case where the permittee has not been convicted of a violation of Section 5653 of the Fish and Game Code or any regulation pertaining to suction dredging permitted by said code, but has been cited by the ~~department~~ Department, the ~~regional manager~~ assistant chief of enforcement shall schedule a hearing to consider the revocation or suspension of his/her permit or amended permit. ~~or permit renewal:~~

(A) Notification. The ~~regional manager~~ assistant chief of enforcement shall notify the permittee, by certified letter, of the ~~regional manager's~~ intent to consider the

revocation or suspension of his/her permit or amended permit ~~or permit renewal~~ at the hearing. The certified letter shall include the following information:

1. Name of permittee and last known address.
2. Date, time and place of scheduled hearing.
3. Reason for impending ~~regional manager's~~ assistant chief of enforcement's action, including a concise statement of the acts or nonactions of the permittee which constitutes a violation of Section 5653 or 5653.3, of the Fish and Game Code or regulations made pursuant thereto.
4. A copy of Section 228, Title 14, California Code of Regulations.
5. A statement that the permittee has the right to appear and to be represented by legal counsel.

(B) Recording. The proceedings of the hearing shall be recorded by an electronic type recording system.

(C) Presentation of Evidence. The permittee and the ~~department~~ Department have the right to present evidence at the scheduled hearing as follows:

1. Oral evidence shall be taken on oath or affirmation.
2. Each party may call and examine witnesses, cross-examine opposing witnesses on any relevant matter, may rebut evidence against him/her, and may orally argue the matter.
3. The hearing need not be conducted according to the technical rules relating to evidence and witnesses. Any relevant evidence shall be admitted if it is the sort of evidence on which responsible persons would rely in the conduct of serious affairs.

4. The permittee or the ~~department~~ Department may be questioned by the ~~regional manager~~ assistant chief of enforcement.

(D) Findings. At the conclusion of the hearing, the ~~regional manager~~ assistant chief of enforcement shall make a decision based on the evidence presented at the hearing and shall issue written findings containing reasons for the decision and the evidence relied upon.

(E) Notification by Certified Mail. After the hearing the ~~regional manager~~ assistant chief of enforcement shall provide the permittee, by certified mail, a copy of the final decision.

(F) Appeal. The permittee may request an appeal in writing to the director within 30 days of the date of receipt of the ~~regional manager's~~ assistant chief of enforcement's decision. The director shall respond to an appeal in writing within 45 days from receipt of notice of request to appeal.

(G) Judicial Review. The permittee may request judicial review by filing a petition of writ of mandate in accordance with provisions of the Code of Civil Procedure within 30 days from the date of the director's decision. The record of the administrative proceedings shall be prepared by the ~~department~~ Department and delivered to the petitioner within 30 days after receipt of petitioner's request and upon payment of the fee specified in Section 69950 of the Government Code.

~~(d)~~ (~~i~~ j) ~~Special Approval for~~ Use of Suction Dredges in Lakes and Reservoirs. No suction dredging is permitted within the current water level in any lake or reservoir unless: ~~without written approval from the lake operating agency, the Regional Water Quality Control Board, and an on-site inspection and approval by the Department.~~

(1) The Department has conducted an on-site inspection and approved the proposed suction dredging operation in writing;
(2) The permittee has a valid suction dredge permit; and
(3) The permittee has in their possession documentation of compliance with Fish and Game Code Section 1602, subdivision (a), for the proposed suction dredging operation, including a copy of the permittee's notification to the Department; any response by the Department pursuant to Fish and Game Code Section 1602, subdivision (a)(4)(A)(i), and, in the event a Lake or Streambed Alteration Agreement is required authorization from the Department for the proposed suction dredging operations at the location specified in the permit application pursuant to subdivision (c).

For purposes of this subdivision, suction dredging in any tributary river or stream in the exposed bed of any partially empty lake or reservoir shall be governed by the requirements in Section 228.5 for that tributary river or stream.

~~(c)~~ (~~j~~k) Equipment Requirements.

(1) Nozzle Restriction. No suction dredge having an intake nozzle with an inside diameter larger than ~~six~~ four inches may be used unless:

~~(A) Otherwise provided under special regulations of Section 228.5, Title 14, California Code of Regulations~~
(A) The Department has conducted an on-site inspection and approved a larger nozzle size in writing; the maximum inside diameter of the intake nozzle is no larger than six inches, or eight inches where allowable under ~~Section 228,~~ subdivision (~~j~~k)(1)(E); and
(B) The permittee has a valid suction dredge permit; and
(C) The permittee has in their possession documentation of compliance with Fish and Game Code S~~s~~ection 1602,

subdivision(a), for the proposed suction dredging operation, including a copy of his/her notification to the Department; any response to the notification by the Department pursuant to Fish and Game Code Section 1602, subdivision(a)(4)(A)(i); and specific authorization from the Department for a vacuum nozzle greater than ~~4"~~ four inches in diameter if a Lake or Streambed Alteration Agreement is required; or

(D) Except as provided by subdivision (k)(1)(A), a~~A~~ constricting ring with an inside diameter not larger than ~~six~~ four inches has been attached to the intake nozzle. This constricting ring must be of solid, one-piece construction with no openings other than the intake and openings not greater than one inch between the constricting ring and nozzle. It must be welded or otherwise permanently attached over the end of the intake nozzle. No quick-release devices are permitted.

(E)Suction dredge intake nozzles up to eight inches in diameter may be permitted at the Department's discretion in accordance with ~~Section 228~~ subdivision(~~j~~k)(1)(A), only on the following rivers:

(1) American (Placer, ~~Nevada~~ and El Dorado C~~c~~ounties);

(2) Cosumnes (Sacramento, Amador and El Dorado C~~c~~ounties);

(3) Feather (Butte, Plumas and Yuba C~~c~~ounties);

(4) Klamath (Del Norte, Humboldt and Siskiyou C~~c~~ounties);

(5) Merced (Mariposa and Merced C~~c~~ounties);

(6) Mokelumne (Amador, Calaveras and San Joaquin C~~c~~ounties);

(7)New (Trinity County);

(~~7~~8) Scott (Siskiyou County);

(~~8~~9) Trinity (Trinity and Humboldt C~~c~~ounties); and

(~~9~~10) Yuba (Sierra, Nevada and Yuba C~~c~~ounties).

(2) Hose Restriction. The inside diameter of the intake hose may not be more than ~~four~~ two inches larger than the permitted intake nozzle size or constricting ring, whichever is smaller.

(3) Pump Intake Screening. The intake for the suction dredge pump shall be covered with screening mesh. Screen mesh openings shall not exceed 3/32 inch (2.38 mm) for woven wire or perforated plate screens, or 0.0689 inch (1.75 mm) for profile wire screens, with a minimum 27% open area.

~~(4) Only the nozzle size(s), constrictor ring(s) and engine model numbers identified in the permit may be used.~~

~~(5) The suction dredge permit number must be affixed to all permitted dredges at all times, in a manner such that it is clearly visible from the streambank or shoreline. The number must be displayed in lettering at least three inches in height and maintained in such a condition as to be clearly visible and legible.~~

(4) Suction dredges must include a containment system under the motor and fuel tanks. The containment system must be sufficient in size to completely accommodate the full volume of all fuel, lubricants and chemicals without overtopping or leaking.

~~(f)~~ (~~k~~l) Restrictions on Methods of Operation.

~~(1) Winching is permitted under the following provisions:~~

(1) Motorized winching or the use of other motorized equipment to move boulders, logs, or other objects is prohibited, unless:

(A) The Department has conducted an on-site inspection and approved the proposed suction dredging operations in writing; and

(B) The permittee has a valid suction dredge permit; and

(C) The permittee has in their possession documentation of compliance with Fish and Game Code S~~s~~ection 1602, subdivision (a), for the proposed suction dredging operations, including a copy of their notification to the

Department; any response to the notification by the Department pursuant to Fish and Game Code Section 1602, subdivision(a)(4)(A)(i); and specific authorization from the Department for motorized winching if a Lake or Streambed Alteration Agreement is required.

(2) Winching, whether motorized or hand powered, shall ~~must~~ be conducted under the following provisions:

(A) Boulders and other material may only be moved within the ~~existing~~ current water ~~line~~ level. No boulders or other material shall be moved outside the current water ~~line~~ level.

(B) Winching of any material embedded on banks of streams or rivers is prohibited.

(C) Winching of any material into a location which deflects water into the bank is prohibited.

(D) ~~No power-winch activated shovels, buckets or rakes may be used to excavate materials in the stream course~~. Nets and other devices may be used to collect cobbles and boulders by hand for removal from dredge holes providing the materials are not removed from within the current water level. ~~line.~~

(E) No woody streamside vegetation shall be removed or damaged. Trees of sufficient size and condition may be used as winch and pulley anchor points provided that precautions are taken to ensure that trunk surfaces are protected from cutting or abrasions and the tree is not uprooted.

~~(2) No person may suction dredge into the bank of any stream, lake or river.~~

(3) No person ~~may~~ shall operate the nozzle of a suction dredge and remove material within three feet of the lateral edge of the current water level, including at the edge of instream gravel bars or under any overhanging banks.

~~(3)~~(4) No person shall remove or damage ~~woody riparian~~ streamside vegetation during suction dredge operations.

~~(4)~~(5) No person shall cut, move or destabilize instream ~~any anchored, exposed~~ woody debris such as root wads, stumps or logs.

~~(5)~~(6) No person shall divert the flow of a river or stream ~~a stream or river~~ into the bank.

~~(6) No person shall dam or otherwise obstruct a stream, river or lake in such a manner that fish passage is impeded.~~

(7) For the purpose of suction dredge mining subject to this section, no person shall construct a dam or weir, concentrate flow in a way that reduces the total wetted area of a river or stream, or obstruct fish passage; unless:

(A) The Department has conducted an on-site inspection and approved the proposed suction dredging operations in writing; and

(B) The permittee has a valid suction dredge permit; and

(C) The permittee has in their possession, documentation of compliance with Fish and Game Code S~~s~~ection 1602, subdivision (a), for the proposed suction dredging operations, including a copy of their notification to the Department; any response by the Department to the notification pursuant to Fish and Game Code Section 1602, subdivision (a)(4)(A)(i); and specific authorization for the proposed activity if a Lake or Streambed Alteration Agreement is required.

~~(7)~~(8) No person shall import any earthen material into a stream, river or lake.

(9) All fueling and servicing of dredging equipment must be done in a manner such that petroleum products and other substances are not leaked, spilled or placed where they may pass into the waters of the state.

(10) No fuel, lubricants or chemicals may be stored within 100 feet of the current water level. Where this is not feasible, a

containment system must be in place beneath the fuel, lubricants or chemicals. The containment system must be sufficient in size to completely accommodate the full volume of all fuel, lubricants and chemicals without overtopping or leaking.

(11) Stream substrate, including gravel, cobble, boulders and other material may only be moved within the current water level.

(12) No person shall displace any material embedded on banks of rivers or streams.

(13) No person shall disturb any mussel bed~~s~~. A mussel bed is defined as an area of any size where the density of mussels is ~~40~~ 10 or more/square yard. Suction dredging activities, including deposition of tailings, shall not occur within 30 yards upstream of a mussel bed, nor within 10 yards laterally or downstream.

(14) Reasonable care shall be used to avoid dredging silt and clay materials that would result in a significant increase in turbidity.

(15) The permittee shall level all tailing piles, returning the site to the pre-mining grade to the greatest extent possible, prior to finishing use of the excavation site for the suction dredging season, or working another excavation site.

(16) No person shall disturb any redds, actively spawning fish, amphibian egg masses or tadpoles. If encountered while operating a suction dredge, the permittee must cease operations and relocate dredging activities.

(17) The willful entrainment of finfish, mollusks or amphibians is prohibited.

(18) No person shall use wheeled or tracked equipment instream as part of suction dredging.

(19) All suction dredge equipment shall be cleaned of mud, oil, grease, debris, and plant and animal material before use in a river, stream or lake.

(20) Before relocating a suction dredge to another waterbody, water shall be drained from all equipment for at least two weeks

or the suction dredge and associated equipment must be decontaminated. Decontamination must include pressure washing with water > 120 degrees Fahrenheit and/or chemical decontamination of all surfaces using bleach, vinegar, ammonia or potassium permanganate solution.

(21) No person shall operate a suction dredge within 500' of another operating suction dredge. For purposes of these regulations, "operating" shall mean that the motor on the suction dredge is creating a vacuum through the vacuum hose and nozzle.

~~Operating outside these Restrictions on Methods of Operation may require compliance with Fish and Game Code sections 1600-1607, which governs lake and streambed alterations.~~

(~~l~~m) State Wildlife Areas and Ecological Reserves. Consistent with Title 14, Sections 550, subdivision (b)(10), and 630, subdivision (a)(1), of the California Code of Regulations, suction dredging is prohibited in State Wildlife Areas and Ecological Reserves.

(~~gm~~n) Compliance with Other Laws. Nothing in any permit or amended permit issued pursuant to these regulations authorizes the permittee to trespass on any land or property, or relieves the permittee of the responsibility to comply ~~of complying~~ with applicable federal, State, or local laws or ordinances.

(~~hn~~o) Emergency Closure. The Department may initiate emergency regulatory action pursuant to Government Code Section 11346.1 to close any water to suction dredging.

~~(o) Location of Suction Dredge Operations. No person shall suction dredge in locations other than those identified in the permit application pursuant to subdivision (c).~~

~~(p)~~ (~~o~~p) Timing of Activity. Active suction dredging operations may only be conducted between ~~one half hour after sunrise to sunset.~~ 10:00 a.m. and 4:00 p.m.

§ 228.5. Suction Dredge Use Classifications and Special Regulations.

(a) Suction Dredge Use Classifications. For purposes of these regulations, the following classes of suction dredge use restrictions apply in California's lakes, reservoirs, streams and rivers as specified:

(1) Class A: No dredging permitted at anytime.

(2) Class B: Open to dredging from July 1 through August 31.

(3) Class C: Open to dredging from June 1 ~~the fourth Saturday in May~~ through September 30 ~~October 15~~.

(4) Class D: Open to dredging from July 1 through January 31 ~~September 15~~.

(5) Class E: Open to dredging from September 1 ~~July 1~~ through January 31 ~~September 30~~.

(6) Class F: Open to dredging from July 1 ~~December 1~~ through September 30 ~~June 30~~.

(7) Class G: Open to dredging from September 1 ~~the fourth Saturday in May~~ through September 30.

(8) Class H: Open to dredging throughout the year.

(b) Suction Dredge Special Regulations. The Suction Dredge Use Classifications set forth in subdivision (a) ~~(Section (a), above)~~ apply for each of the rivers or streams in each of the counties listed below. Lakes and reservoirs statewide are Class H.

(1) Alameda

Water	**Description**	**Class**
Multiple Waters	All rivers and streams in the County, unless otherwise noted below	H
Multiple Waters	All rivers and streams from Alameda Creek south to the Alameda-Santa Clara County line, unless otherwise noted	C

	below	
Multiple Waters	All rivers and streams east of I-680 and south of I-580, and above 1,000 ~~ft~~ feet elevation, unless otherwise noted below	D
Alameda Creek	Mainstem and all tributaries ~~below 300 ft. elevation~~	A
~~Alameda Creek~~	~~Mainstem and all tributaries above 300 ft. elevation~~	~~F~~
Arroyo Viejo	Mainstem and all tributaries	A
Codornices Creek	Mainstem	A
Peralta Creek	Mainstem	A
San Leandro Creek	Mainstem from San Francisco Bay upstream to Lake Chabot	A
San Lorenzo Creek	Mainstem and all tributaries	A
Sausal Creek	Mainstem and all tributaries	A
Ward Creek	Mainstem	A

(2) Alpine

Water	**Description**	**Class**
Multiple Waters	All rivers and streams in the County, unless otherwise noted below	H
Arnot Creek	Mainstem and all tributaries	A
Caples Lake ~~(T~~tributaries~~)~~	All waters draining to Caples Lake	A
Carson River, East Fork	Mainstem and all tributaries from California-Nevada State Line to Carson Falls, unless otherwise noted	G
Carson River, East Fork	Mainstem and all tributaries upstream from Carson Falls	A
Carson River, West Fork	Mainstem and all tributaries, unless otherwise noted below	G
Disaster Creek	Mainstem and all tributaries	A
Heenan Lake ~~(T~~tributaries~~)~~	All waters draining to Heenan Lake	A
Mokelumne River, North Fork	Mainstem and all tributaries	A
Murray Canyon Creek	Mainstem and all tributaries	A
Pleasant Valley Creek	Mainstem and all tributaries	A
Poison Flat Creek	Mainstem and all tributaries	A
Silver Creek	Mainstem and all tributaries upstream from Pennsylvania Creek	A

Silver Fork American River	Mainstem and all tributaries	A
Silver King Creek	Mainstem and all tributaries upstream from Snodgrass Creek	A
Silver Lake ~~(T~~tributaries~~)~~	All waters draining to Silver Lake	A
Stanislaus River, North Fork	Mainstem and all tributaries upstream from Union Reservoir	A
Truckee River, Upper	Mainstem and all tributaries	A

(3) Amador

Water	**Description**	**Class**
Multiple Waters	All rivers and streams in the County, unless otherwise noted below	H
Multiple Streams	All rivers and streams in the County west of Highway 49, unless otherwise noted below	C
Cole Creek	Mainstem and all tributaries upstream from North Fork Mokelumne River	A
Cosumnes River, South Fork	Mainstem and all tributaries	~~C~~D
Mokelumne River	Mainstem from Pardee Dam upstream to Highway 49	D
Mokelumne River, North Fork	Mainstem and all tributaries from Tiger Creek to Salt Springs Reservoir, except Cole Creek	E
Mokelumne River, North Fork	Mainstem and all tributaries from Salt Springs Reservoir upstream to Amador-Alpine County Line	A
Silver Fork American River	Mainstem and all tributaries	A
Silver Lake ~~(T~~tributaries~~)~~	All waters draining to Silver Lake	A
Tragedy Creek	Mainstem and all tributaries	A

(4) Butte

Water	**Description**	**Class**
Multiple Waters	All rivers and streams in the County, unless otherwise noted below	C
Butte Creek	Mainstem and all tributaries from County Line upstream to Centerville Head Dam, unless otherwise noted	A

Butte Creek	Mainstem and all tributaries from Centerville Head Dam upstream to De Sabla Powerhouse, unless otherwise noted	E
Butte Creek	Mainstem and all tributaries from De Sabla Powerhouse upstream to Bolt Creek, unless otherwise noted	F
Butte Creek	Mainstem and all tributaries upstream of Bolt Creek, unless otherwise noted	A
Fall River	Mainstem	A
Feather River	Mainstem to Lake Oroville	A
Feather River, Middle Fork ~~(Mainstem)~~	Mainstem and all tributaries upstream of Lake Oroville, unless otherwise noted	D
~~Feather River, Middle Fork (Tributaries)~~	~~All tributaries to Middle Fork Feather River upstream of Lake Oroville, unless otherwise noted~~	~~E~~
Feather River, North Fork ~~(Mainstem)~~	Mainstem and all tributaries upstream of Lake Oroville, unless otherwise noted	D
~~Feather River, North Fork (Tributaries)~~	~~All tributaries to North Fork Feather River upstream of Lake Oroville, unless otherwise noted~~	~~E~~
Feather River, South Fork ~~(Mainstem)~~	Mainstem and all tributaries upstream of Lake Oroville,unless otherwise noted	D
~~Feather River, South Fork (Tributaries)~~	~~All tributaries to South Fork Feather River upstream of Lake Oroville, unless otherwise noted~~	~~E~~
Mill Creek	Mainstem and tributaries	A
Pinkard Creek	Mainstem upstream of Lost Creek Reservoir	A
Sacramento River	Mainstem	F

(5) Calaveras

Water	**Description**	**Class**
Multiple Waters	All rivers and streams in the County, unless otherwise noted below	H
Multiple Waters	All rivers and streams in the County west of Highway 49, unless otherwise noted below	C
Calaveras River, North Fork	Mainstem and all tributaries, except Jesus Maria Creek	D
Calaveras River, South Fork	Mainstem and all tributaries	D

Forest Creek	Mainstem and all tributaries	E
Jesus Maria Creek	Mainstem and all tributaries	E
Mokelumne River	Mainstem from Pardee Dam upstream to Highway 49	D
Mokelumne River, Middle Fork	Mainstem and all tributaries, except Forest Creek	D
Mokelumne River, North Fork	Mainstem and all tributaries from Tiger Creek upstream to Salt Springs Reservoir	E
Mokelumne River, North Fork	Mainstem and all tributaries upstream from Salt Springs Reservoir	A
Mokelumne River, South Fork	Mainstem and all tributaries	D
Stanislaus River, North Fork	Mainstem and all tributaries	D

(6) Colusa

Water	**Description**	**Class**
Multiple Waters	All rivers and streams in the County west of I-5, unless otherwise noted below	D
Multiple Waters	All rivers and streams in the County east of I-5, unless otherwise noted below	F
Butte Creek	Mainstem	A

(7) Contra Costa

Water	**Description**	**Class**
Multiple Waters	All rivers and streams west of I-680, unless otherwise noted below	H
Multiple Waters	All rivers and streams east of I-680, unless otherwise noted below	F
Alhambra Creek	Mainstem and all tributaries	A
Garrity Creek	Mainstem and all tributaries	A
Mount Diablo Creek	Mainstem and all tributaries	A
Pacheco Creek	Mainstem and all tributaries	A
Pinole Creek	Mainstem and all tributaries	A
Refugio Creek	Mainstem and all tributaries	A
Rodeo Creek	Mainstem and all tributaries	A
San Pablo Creek	Mainstem and all tributaries	A
Walnut Creek	Mainstem and all tributaries	A
Wildcat Creek	Mainstem and all tributaries	A

(8) Del Norte

Water	**Description**	**Class**
Multiple Waters	All rivers and streams in the County, unless otherwise noted below	F
Blue Creek	Mainstem and all tributaries	A
Bummer Lake Creek	Mainstem	A
Clarks Creek	Mainstem	A
Copper Creek	Mainstem	A
Coon Creek	Mainstem	A
Craigs Creek	Mainstem	A
Dominie Creek	Mainstem	A
Eightmile Creek	Mainstem	A
Griffin Creek	Mainstem	A
Hurdygurdy Creek	Mainstem	A
Jaqua Creek	Mainstem	A
Jones Creek	Mainstem	A
Klamath River	Mainstem	~~D~~F
Knopti Creek	Mainstem	A
Mill Creek	Mainstem and its tributaries	A
Monkey Creek	Mainstem	A
Morrison Creek	Mainstem	A
Myrtle Creek	Mainstem	A
Patrick Creek	Mainstem	A
Peacock Creek	Mainstem	A
Quartz Creek	Mainstem	A
Rock Creek	Mainstem	A
Rowdy Creek	Mainstem	A
Rowdy Creek, South Fork	Mainstem	A
Savoy Creek	Mainstem	A
Shelly Creek	Mainstem	A
Smith River, Middle Fork	Mainstem ~~and all tributaries~~ from Smith River upstream to ~~Knopti Creek~~ Middle Fork Falls	~~B~~A
Smith River, North Fork	Mainstem ~~and all tributaries~~	~~B~~A
Smith River, South Fork	Mainstem ~~and all tributaries~~ from Smith River upstream to Quartz Creek	~~B~~A
Siskiyou Fork	Mainstem	A
Sultan Creek	Mainstem	A
Special Closures for Thermal Refugia in Klamath River Watershed A 200-foot radius* at the confluence of each of the following waters with the Klamath River is Class A:		

Water
Hunter Creek
McGarvey Creek
Salt Creek
*Pursuant to Fish and Game Code 5653(d) ~~I~~it is unlawful to possess a vacuum or suction dredge in areas, or in or within 100 yards of waters, that are closed to the use of vacuum or suction dredges. Therefore, the effective closure at thermal refugia locations is a 500-foot radius from the center-line of the confluence of the tributary stream with the mainstem river.

(9) El Dorado

Water	**Description**	**Class**
Multiple Waters	All rivers and streams in the County, unless otherwise noted below	H
American River, Middle Fork ~~(Mainstem)~~	Mainstem and all tributaries from North Fork American River upstream to Oxbow Dam, unless otherwise noted	D
~~American River, Middle Fork (Tributaries)~~	~~All tributaries from North Fork American River upstream to Oxbow Dam, unless otherwise noted~~	~~E~~
American River, North Fork	Mainstem and all tributaries from Folsom Lake upstream to confluence with the Middle Fork American River, unless otherwise noted	C
American River, South Fork	Mainstem and all tributaries from Folsom Lake upstream to Slab Creek Reservoir, unless otherwise noted	C
American River, South Fork	Mainstem and all tributaries from Slab Creek Reservoir upstream to Kyburz ~~Highway 50 Bridge at Riverton~~, unless otherwise noted	~~E~~D
American River, South Fork	Mainstem and all tributaries upstream from Highway 50 Bridge at Riverton, unless otherwise noted	C
Camp Creek	Mainstem and all tributaries from North Fork Cosumnes River upstream to Dennis Canyon	~~E~~D
Camp Creek	Mainstem and all tributaries upstream of Dennis Canyon	A
Cosumnes River, Middle Fork	Mainstem and all tributaries	~~E~~D
Cosumnes River, North Fork	Mainstem and all tributaries except Camp Creek	D
Cosumnes River, South Fork	Mainstem and all tributaries	C

Glen Alpine Creek	Mainstem and all tributaries ~~from~~ upstream of Fallen Leaf Lake	A
Ice House Reservoir ~~(Tributaries)~~	All waters draining to Ice House Reservoir	A
Indian Creek	Mainstem and all tributaries	D
Lake Tahoe ~~(Tributaries)~~	All waters draining to Lake Tahoe, unless otherwise noted	G
Middle Creek	Mainstem from Silver Fork American River	A
Pyramid Creek	Mainstem and all tributaries	A
Rock Creek	Mainstem and all tributaries	A
Rubicon River	Mainstem and all tributaries upstream of Oxbow Dam to Parsley Bar Crossing ~~from the Placer-El Dorado County Line~~	~~A~~D
Rubicon River	Mainstem and all tributaries upstream from the Desolation Wilderness Boundary	A
Taylor Creek	Mainstem from Lake Tahoe to Fallen Leaf Lake	A
Trout Creek	Mainstem and all tributaries upstream from Saxon Creek	A
Truckee River, Upper	Mainstem and all tributaries from Lake Tahoe upstream to El Dorado-Alpine County Line	A
Webber Creek	Mainstem and all tributaries	A

(10) Fresno

Water	**Description**	**Class**
Multiple Waters	All rivers and streams in the County above 4,000 feet elevation	A
Multiple Waters	All rivers and streams east of I-5 between 1,000 to 4,000 feet, unless otherwise noted below	F
Multiple Waters	All rivers and streams east of I-5 less than 1,000 feet elevation, unless otherwise noted below	H
Multiple Waters	All rivers and streams in the County west of I-5	D
San Joaquin River	Mainstem upstream to Friant Dam	C
San Joaquin River	Mainstem between Redinger and Kerckhoff Reservoirs	~~C~~A
Jose Creek	Mainstem up to 4,000 feet elevation	A

(11) Glenn

Water	Description	Class
Multiple Waters	All rivers and streams in the County west of I-5, unless otherwise noted below	F
Multiple Waters	All rivers and streams in the County east of I-5, unless otherwise noted below	C
Butte Creek	Mainstem	A
Sacramento River	Mainstem	F

(12) Humboldt

Water	Description	Class
Multiple Waters	All rivers and streams in the County, unless otherwise noted below	F
Blue Creek	Mainstem and all tributaries	A
Boise Creek	Mainstem	A
Camp Creek	Mainstem	A
Beaver Creek	Mainstem	A
Eel River	Mainstem and all tributaries	A
Red Cap Creek	Mainstem and all tributaries	A
Special Closures for Thermal Refugia in Klamath River Watershed		
A 200-foot radius* at the confluence of each of the following waters with the Klamath River is Class A:		
Water	**Water (continued)**	
Aikens Creek	Pearch Creek	
Blue Creek	Pecwan Creek	
Bluff Creek	Pine Creek	
Boise Creek	Red Cap Creek	
Camp Creek	Roach Creek	
Cappell Creek	Roselano Creek	
Cheenitch Creek	~~Roselano Creek~~	
Coon Creek	Slate Creek	
Crawford Creek	Trinity River	
Donahue Flat Creek	Tully Creek	
Hopkins Creek	Ullathorne Creek	
Ikes Creek	Whitmore Creek	
~~Ikes Creek~~	Wilson Creek	
Miners Creek		

*Pursuant to Fish and Game Code 5653(d) ~~I~~it is unlawful to possess a vacuum or suction dredge in areas, or in or within 100 yards of waters, that are closed to the use of vacuum or suction dredges. Therefore, the effective closure at thermal refugia locations is a 500-foot radius from the center-line of the confluence of the tributary stream with the mainstem river.

(13) Imperial

Water	**Description**	**Class**
Multiple Waters	All rivers and streams in the County, unless otherwise noted below	H
Multiple Waters~~bodies~~	All shoreline pools and irrigation drains within one mile of the Salton Sea	A
Colorado River	Mainstem	A
San Felipe Creek	Mainstem and all tributaries	A

(14) Inyo

Water	**Description**	**Class**
Multiple Waters	All rivers and streams in the County, unless otherwise noted below	H
Amargosa River	Mainstem upstream of Death Valley Road (CA 127)	A
Antelope Spring Creek	Mainstem	A
Baker Creek	Mainstem and all tributaries upstream of Inyo National Forest Boundary	A
Big Pine Creek	Mainstem and all tributaries upstream of Inyo National Forest Boundary	A
Birch Creek (~~D~~drains to Deep Springs Valley)	Mainstem and associated springs within Inyo National Forest Boundary	A
Birch Creek (Bishop Creek tributary)	Mainstem and all tributaries upstream of Inyo National Forest Boundary	A
Bishop Creek	Mainstem and all tributaries upstream of Inyo National Forest Boundary	A
Bishop Creek Canal	All canal	E
Bishop Creek, North Fork (east of Bishop)	Mainstem from Owens River upstream to Highway 6	E
Cabin Creek	Mainstem	A
China Ranch Wash	Mainstem	A

Cottonwood Creek (~~D~~drains to Owens Lake)	Mainstem and all tributaries upstream of Little Cottonwood Creek	A
Cottonwood Creek (~~E~~east of Highway 168)	Mainstem	A
Diaz Creek	Mainstem and all tributaries upstream of John Muir Wilderness Boundary	A
Division Creek	Mainstem and all tributaries upstream of Inyo National Forest Boundary	A
Fish Slough	Mainstem, all tributaries, pools and springs	A
Goodale Creek	Mainstem and all tributaries upstream of Inyo National Forest Boundary	A
Haiwee Creek	Mainstem and all tributaries upstream of Inyo National Forest Boundary	A
Hogback Creek	Mainstem and all tributaries upstream of Inyo National Forest Boundary	A
Horton Creek	Mainstem from Owens River upstream to Highway 395	E
Horton Creek	Mainstem and all tributaries upstream of Inyo National Forest Boundary	A
Independence Creek	Mainstem and all tributaries upstream of Inyo National Forest Boundary	A
Leidy Creek	Mainstem	A
Lone Pine Creek	Mainstem and all tributaries upstream of Whitney Portal Campground	A
McGee Creek	Mainstem and all tributaries upstream of Inyo National Forest Boundary	A
McNally Canal	1000 ~~ft~~feet above and below Silver Canyon Road	E
Mule Springs	Upper and Lower Ponds, and spring channels	A
Oak Creek	Mainstem and all tributaries upstream of Inyo National Forest Boundary	A
Owens River	Mainstem above 3,500 ~~ft~~ feet elevation upstream to Inyo-Mono Counity Line	E
Pine Creek	Mainstem downstream of Inyo National Forest Boundary	E
Pine Creek	Mainstem and all tributaries upstream of Inyo National Forest Boundary	A
Rawson Creek	Mainstem and all tributaries upstream of Inyo National Forest Boundary	A
Red Mountain Creek	Mainstem and all tributaries upstream of Inyo National Forest Boundary	A
Rock Creek	Mainstem and all tributaries upstream of Inyo National Forest Boundary	A

Rock Creek, Lower	Mainstem and all tributaries between Owens River and Inyo-Mono County Line	E
Sawmill Creek	Mainstem and all tributaries upstream of Inyo National Forest Boundary	A
Shannon Canyon Creek	Mainstem and all tributaries upstream of Inyo National Forest Boundary	A
Summit Creek	Mainstem and all tributaries upstream of Inyo National Forest Boundary	A
Taboose Creek	Mainstem and all tributaries upstream of Inyo National Forest Boundary	A
Thibaut Creek	Mainstem and all tributaries upstream from ~~above~~ Inyo National Forest Boundary	A
Tinemaha Creek	Mainstem and all tributaries upstream of Inyo National Forest Boundary	A
Tuttle Creek	Mainstem and all tributaries in John Muir Wilderness	A
Warm Springs	Upper Pond, Lower Pond, Outflow Ditch and North Ditch	A

(15) Kern

Water	**Description**	**Class**
Multiple Waters	All rivers and streams in the County, unless otherwise noted below	H
Multiple Waters	All rivers and streams~~, and lakes~~ in the County east of Hwy 99, ~~and~~ north of Hwy 58, and west of Hwy 14, unless otherwise noted below	F
Multiple Waters	All rivers and streams in the County east of Hwy 99, north of Hwy 58, south of Hwy 178, and west of Hwy 14, above 4,000 feet elevation	A
Multiple Waters	All rivers and streams in the County east of Hwy 99 and north of Hwy 178 above 4,000 feet elevation	A
Kern River, South Fork (~~T~~tributaries)	All tributaries to the South Fork Kern River upstream of Lake Isabella and north of Hwy 178	A

(16) Kings

Water	**Description**	**Class**
Multiple Waters	All rivers and streams in the County, unless otherwise noted below	H
Garza Creek	Mainstem and all tributaries	D
Avenal Creek	Mainstem and all tributaries	D

Baby King Creek	Mainstem and all tributaries	D
Big Tar Creek	Mainstem and all tributaries	D

(17) Lake

Water	**Description**	**Class**
Multiple Waters	All rivers and streams in the County, unless otherwise noted below	D
Bucknell Creek	Mainstem	F
Butts Creek	Mainstem and all tributaries	F
Cache Creek	Mainstem and all tributaries	F
Clear Lake ~~(T~~tributaries~~)~~	All waters draining to Clear Lake	E
Eel River	Mainstem and all tributaries upstream from the Lake-Mendocino County Line to Lake Pillsbury	F

(18) Lassen

Water	**Description**	**Class**
Multiple Waters	All rivers and streams in the County, unless otherwise noted below	H
Ash Creek	Mainstem	A
Beaver Creek	Mainstem and all tributaries	C
Cedar Creek	Mainstem and all tributaries	E
Cottonwood Creek	Mainstem	A
Hamilton Branch	Mainstem from Lassen-Plumas County Line upstream to Highway 147	D
Horse Creek	Mainstem and all tributaries from Pit River upstream to Little Valley	C
Pine Creek	Mainstem and all tributaries	A
Pit River	Mainstem and all tributaries from Horse Creek upstream to Lassen-Modoc County Line	C
Pit River, South Fork	Mainstem and all tributaries	E
Secret Creek	Mainstem and all tributaries	~~E~~D
Smoke Creek	Mainstem	D
~~Susan River~~	~~Mainstem and all tributaries~~	~~E~~
Willow Creek	Mainstem and all tributaries	E

(19) Los Angeles

Water	**Description**	**Class**

Multiple Waters	All rivers and streams~~, lakes~~ in the County, unless otherwise noted below	H
Multiple Waters	All rivers~~,~~ and streams~~, lakes~~ in the Los Angeles River watershed, unless otherwise noted below ~~All rivers, streams, lakes in San Gabriel Mountains south of SR-2, unless otherwise noted below~~	E
Multiple Waters	All rivers~~,~~ and streams~~, lakes~~ in San Gabriel Mountains south of SR-2, unless otherwise noted below ~~All rivers, streams, lakes in the Los Angeles River watershed, unless otherwise noted below~~	E
Multiple Waters	All rivers~~,~~ and streams~~, lakes~~ in the San Gabriel River watershed, unless otherwise noted below	E
Alder Creek	Mainstem from Big Tujunga Creek upstream to Mule Fork	A
Aliso Canyon	Mainstem within Angeles National Forest	A
Arrastre Canyon	Mainstem	A
Arroyo Sequit	Mainstem and all tributaries	A
Bear Canyon Creek	Mainstem and all tributaries	A
Bear Gulch	Mainstem	A
Big Mermaids Creek	Mainstem	A
Big Rock Creek, South Fork	Mainstem and all tributaries upstream of Big Rock Creek	A
Big Tujunga Creek	Mainstem and all tributaries from Hansen Flood Control Basin upstream to Big Tujunga Reservoir	E
Big Tujunga Creek	Mainstem from Big Tujunga Reservoir upstream to Alder Creek	A
Boquet Creek	Mainstem from Santa Clara River upstream to Boquet Reservoir	A
Castaic Creek	Mainstem from Santa Clara River upstream to I-5 crossing	A
Castaic Creek	Mainstem from Castaic Lake upstream to Bear Canyon	A
Cattle Canyon Creek	Mainstem	A
Cow Canyon Creek	Mainstem	A
Devil's Canyon	Mainstem	A
Fish Creek	Mainstem from Castaic Creek upstream to Cienega Spring	A
Fish Canyon Creek	Mainstem	A

Little Rock Creek	Mainstem and all tributaries, from Little Rock Reservoir	A
Malibu Creek	Mainstem and all tributaries, unless otherwise noted	E
Malibu Creek	Mainstem from Pacific Ocean upstream to Rindge Dam	A
Mill Creek	Mainstem from Big Tujunga Creek upstream to Monte Cristo Creek	A
Pacoima Canyon Creek	Mainstem upstream from Pacoima Reservoir ~~above dam~~	E
Piru Creek	Mainstem from Pyramid Reservoir upstream to Lockwood Creek	A
Piru Creek	Mainstem from Lake Piru upstream to Fish Creek	A
San Dimas Canyon Creek	Mainstem upstream to the San Dimas Reservoir dam	E
San Francisquito Canyon	Mainstem	A
San Gabriel River, East Fork	Mainstem and all tributaries from San Gabriel Reservoir upstream to Cattle Canyon Creek	E
San Gabriel River, East Fork	Mainstem and all tributaries upstream of Cattle Canyon Creek	A
San Gabriel River, West Fork	Mainstem upstream from San Gabriel Reservoir	A
Santa Clara River	Mainstem upstream of Los Angeles-Ventura County line	A
Topanga Creek	Mainstem from Pacific Ocean to Topanga Canyon Blvd crossing near Cuesta Cala ~~Rd~~Road	A
Vincent Gulch	Mainstem and tributaries	A

(20) Madera

Water	**Description**	**Class**
Multiple Waters	All rivers~~,~~ and streams~~, lakes~~ in the County above 4,000 feet elevation	A
Multiple Waters	All rivers and~~,~~ streams~~, lakes~~ in the County from 1,000 to 4,000 feet elevation, unless otherwise noted below	F
Multiple Waters	All rivers and~~,~~ streams~~, lakes~~ in the County below 1,000 feet elevation, unless otherwise noted below	H

San Joaquin River	Mainstem	C
San Joaquin River	Mainstem between Redinger and Kerckhoff Reservoirs	A

(21) Marin

Water	**Description**	**Class**
Multiple Waters	All rivers and streams in the County, unless otherwise noted below	D
Corte Madera Creek	Mainstem and all tributaries	A
Coyote Creek	All mainstem from San Pablo Bay upstream to Flamingo ~~Rd~~Road crossing	A
Creamery Bay Creek	Mainstem	A
Easkoot Creek	Mainstem	A
East Schooner Creek	Mainstem	A
Estero Americano	Mainstem and all tributaries	A
Estero San Antonio	Mainstem	A
~~Gallinas Creek~~	~~Mainstem and all tributaries~~	~~D~~
Home Ranch Creek	Mainstem	A
Laguna Creek	Mainstem	A
Lagunitas Creek	Mainstem and all tributaries	A
McKinnon Gulch	Mainstem	A
Miller Creek	Mainstem	A
Millerton Gulch	Mainstem and all tributaries	A
Morse Gulch	Mainstem	A
Muddy Hollow Creek	Mainstem	A
Novato Creek	Mainstem and all tributaries	A
Petaluma River	Mainstem and all tributaries	A
Pine Gulch Creek	Mainstem and all tributaries	A
Redwood Creek	Mainstem and all tributaries	A
San Clemente Creek	Mainstem	D
San Rafael Creek	Mainstem	D
Stemple Creek	Mainstem and all tributaries	A
Stinson Gulch	Mainstem	A
Walker Creek	Mainstem and all tributaries	A
Wilkins	Mainstem	A

(22) Mariposa

Water	**Description**	**Class**
Multiple Waters	All rivers and streams in the County above 5,000 feet elevation	A

Multiple Waters	All rivers and streams in the County from 2,000 to 5,000 feet elevation	D
Multiple Waters	All rivers and streams in the County below 2,000 feet elevation	F

(23) Mendocino

Water	**Description**	**Class**
Multiple Waters	All rivers and streams in the County, unless otherwise noted below	F
Albion River	Mainstem and all tributaries	A
Big River	Mainstem and all tributaries	A
Big Salmon Creek	Mainstem and all tributaries	A
Caspar Creek	Mainstem and all tributaries	A
Cottaneva Creek	Mainstem and all tributaries	A
Dehaven Creek	Mainstem and all tributaries	A
Doyle Creek	Mainstem from Pacific Ocean	A
Elk Creek	Mainstem and all tributaries	A
Eel River	Mainstem and all tributaries	A
Garcia River	Mainstem and all tributaries	A
Gualala River	Mainstem and all tributaries	A
Hardy Creek	Mainstem and all tributaries	A
Hare Creek	Mainstem and all tributaries	A
Howard Creek	Mainstem and all tributaries	A
Juan Creek	Mainstem and all tributaries	A
Little River	Mainstem and all tributaries	A
Little Salmon Creek	Mainstem and all tributaries	A
Navarro River	Mainstem and all tributaries	A
Noyo River	Mainstem and all tributaries	A
Pudding Creek	Mainstem and all tributaries	A
Russian Gulch	Mainstem and all tributaries	A
Russian River	Mainstem and all tributaries, excluding East Fork Russian River above Coyote Dam	A
Ten Mile River	Mainstem and all tributaries from Pacific Ocean	A
Usal Creek	Mainstem and all tributaries from Pacific Ocean	A
Wages Creek	Mainstem and all tributaries from Pacific Ocean	A

(24) Merced

Water	**Description**	**Class**

Multiple Waters	All rivers and streams in the County, unless otherwise noted below	H
Multiple Waters	All rivers and streams in the County west of I-5, unless otherwise noted below	D
Multiple Waters	All rivers and streams in the County east of Highway 99, unless otherwise noted below	C
Merced River	Mainstem	C
San Joaquin River	Mainstem and all tributaries	C

(25) Modoc

Stream	**Description**	**Class**
Multiple Waters	All rivers and streams in the County, unless otherwise noted below	H
Ash Creek	Mainstem and all tributaries	A
Boles Creek	Mainstem	A
Willow Creek	Mainstem	A
Lost River ~~(M~~mainstem~~)~~	Mainstem from Clear Lake Reservoir upstream to California-Oregon State Line	A
Lost River ~~(T~~tributaries~~)~~	All tributaries	D
Pit River	Mainstem and all tributaries, unless otherwise noted	F
Turner Creek	Mainstem and all tributaries	A
Willow Creek	Mainstem from Goose Lake	A
Lassen Creek	Mainstem from Goose Lake	A
Davis Creek	Mainstem from Goose Lake	A
Pine Creek	Mainstem from Goose Lake	A
Cottonwood Creek	Mainstem from Goose Lake	A

(26) Mono

Water	**Description**	**Class**
Multiple Waters	All rivers and streams in the County, unless otherwise noted below	H
Unnamed Creeks	Mainstem of unnamed creeks between Dechambeau Creek and Beartrack Creek	A
Unnamed Creeks (Owens River/Lake Crowley ~~D~~drainage)	Mainstem and tributaries of all ~~U~~unnamed ~~C~~creeks within Inyo National Forest, from Willfred Creek west to Deadman Creek	A

Unnamed Creeks (Owens River/Lake Crowley ~~D~~drainage)	Mainstem and tributaries of all ~~U~~unnamed ~~C~~creeks within Inyo National Forest, from Dry Creek south to Little Hot Creek	A
Unnamed Creek (~~D~~drains to Mono Lake)	Mainstem and all tributaries of ~~U~~unnamed ~~C~~creek west of Dry Creek	A
Unnamed Creeks	Mainstem and all tributaries, ~~U~~unnamed ~~C~~creeks east of Lower Rock Creek, from Witcher Creek south to Mono-Inyo County Line	A
Adobe Creek	Mainstem and all tributaries upstream from Inyo National Forest Boundary	A
Birch Creek	Mainstem and all tributaries	A
Buckeye Creek	Mainstem and all tributaries upstream of Buckeye Hot Spring	A
Buckeye Creek	Mainstem and all tributaries downstream of Buckeye Hot Spring	G
ByDay Creek	Mainstem	A
Convict Creek	Mainstem and all tributaries upstream of Inyo National Forest Boundary	A
Cowcamp Creek	Mainstem and all tributaries	A
Crooked Creek	Mainstem and all tributaries upstream of Lake Crowley	A
Dechambeau Creek	Mainstem and all tributaries upstream of Highway 395	A
Desert Creek (~~D~~drains to Fourmile Hill Creek - Nevada)	Mainstem and all tributaries	G
Dexter Creek	Mainstem and all tributaries south of Highway 120	A
Driveway Creek	Mainstem and all tributaries upstream of Highway 395	A
Dry Creek	Mainstem and all tributaries upstream of Inyo National Forest Boundary	A
Dunderberg Creek	Mainstem and tributaries	A
East Walker River	Mainstem and tributaries, unless otherwise noted	G
Fish Slough	Mainstem, all tributaries, pools and springs	A
Green Creek	Mainstem and tributaries above Dynamo Pond	A

Grouse Creek	Mainstem and tributaries above Highway 395	A
Hilton Creek	Mainstem and tributaries upstream from Inyo National Forest Boundary	A
Hot Creek (Little Walker River tributary north of Bridgeport)	Mainstem and tributaries above Little Walker River	G
Hot Creek (Owens River tributary)	Mainstem and tributaries downstream of Forest Service Road 3S07	E
Hot Creek (Owens River tributary)	Mainstem and tributaries upstream of downstream of Forest Service Road 3S07	A
Junction Creek	Mainstem and tributaries	A
Labrosse Creek	Mainstem and tributaries	A
Laurel Creek	Mainstem and tributaries	A
Leidy Creek	Mainstem and tributaries	A
Lee Vining Creek	Mainstem and tributaries upstream of Highway 395	A
Little Hot Creek	Mainstem from Owens River upstream to Inyo National Forest Boundary	E
Little Hot Creek	Mainstem and tributaries upstream to Inyo National Forest Boundary	A
Little Walker River	Mainstem and tributaries upstream of Willow Flat	A
Mammoth Creek	Mainstem and tributaries upstream of Hot Creek	A
McGee Creek	Mainstem and all tributaries upstream of Inyo National Forest Boundary	A
McLaughlin Creek	Mainstem and all tributaries upstream of Inyo National Forest Boundary	A
Mill Creek (~~D~~drains to West Walker River)	Mainstem and all tributaries	A
Mill Creek (~~D~~drains to Mono Lake)	Mainstem and all tributaries upstream of Highway 395	A
Molybdnite Creek	Mainstem and all tributaries upstream of Dry Creek	A
Murphy Creek	Mainstem	A
North Canyon Creek	Mainstem and all tributaries	A
O'Harrel Canyon Creek	Mainstem and all tributaries	A
Owens River	Mainstem from Inyo-Mono County Line to Dry Creek confluence	E
Owens River	Mainstem and all tributaries upstream of Dry Creek	A
Poison Creek	Mainstem and all tributaries	A

River Spring Lakes	All ponds in Sections 19, 24 and 30, T01N, R31E	A
Robinson Creek	Mainstem and all tributaries upstream of Twin Lakes	A
Robinson Creek	Mainstem and all tributaries downstream of Twin Lakes	G
Rock Creek	Mainstem and all tributaries upstream of Highway 395	A
Rush Creek	Mainstem and all tributaries upstream of Highway 395	A
Sawmill Creek	Mainstem and all tributaries within Inyo National Forest	A
Silver Creek	Mainstem	A
Slinkard Creek	Mainstem and all tributaries	A
Virginia Creek	Mainstem and all tributaries above Toiyabe National Forest Boundary	A
Walker Creek	Mainstem and all tributaries upstream of Highway 395	A
West Walker River and ~~T~~tributaries	All Mainstem and tributaries, unless otherwise noted	G
West Walker River ~~(T~~tributaries~~)~~	All tributaries above 7,000 feet, unless otherwise noted	A
Wilfred Creek	Mainstem and all tributaries upstream of Inyo National Forest Boundary	A
Wolf Creek	Mainstem	A

(27) Monterey

Water	**Description**	**Class**
Multiple Waters	All rivers and streams west of Hwy 101	A
Multiple waters	All rivers and streams east of Hwy 101, unless otherwise noted below	D
Salinas River	Mainstem and all tributaries on the west side of the Salinas River	A

(28) Napa

Water	**Description**	**Class**
Multiple Waters	All rivers and streams in the County, unless otherwise noted below	D
Napa River	Mainstem and all tributaries	A

(29) Nevada

Water	**Description**	**Class**

Multiple Waters	All rivers and streams in the County, unless otherwise noted below	H
Bear River	Mainstem and all tributaries from Camp Far West upstream to Lake Combie	C
Deer Creek	Mainstem and all tributaries from Nevada-Yuba County Line upstream to Lake Wildwood	A
Dry Creek	Mainstem and all tributaries	C
East Fork Creek	Mainstem and all tributaries	A
Faucherie Lake ~~(T~~tributaries~~)~~	All waters draining to Faucherie Lake	A
Fordyce Lake ~~(T~~tributaries~~)~~	All waters draining to Fordyce Lake	A
Independence Lake ~~(T~~tributaries~~)~~	All waters draining to Independence Lake	A
Macklin Creek	Mainstem and all tributaries	A
Rattlesnake Creek	Mainstem and all tributaries	A
Truckee River	Mainstem	G
Truckee River ~~(T~~tributaries~~)~~	All tributaries, unless otherwise noted	G
Yuba River	Mainstem downstream of Englebright Reservoir	A
Yuba River	Mainstem and all tributaries from Englebright Reservoir upstream to the North Fork Yuba River and Middle Fork Yuba River confluence ~~South Yuba River~~	C
Yuba River, Middle	Mainstem and all tributaries from Nevada-Yuba County Line upstream to Milton Reservoir, unless otherwise noted	~~E~~D
Yuba River, South Fork ~~(Mainstem)~~	Mainstem and all tributaries from Yuba River upstream to Lake Spaulding	D
~~Yuba River, South Fork (Tributaries)~~	~~All tributaries from Yuba River upstream to Lake Spaulding~~	~~E~~

(30) Orange

Water	**Description**	**Class**
Multiple Waters	All rivers and streams in the County, unless otherwise noted below	E
Cristianitos Creek	Mainstem and all tributaries upstream of San Diego County line	A
San Juan Creek	Mainstem and all tributaries	A
Santiago Creek	Mainstem and all tributaries upstream of Irvine Lake	A
Talega Creek	Mainstem	A

(31) Placer

Water	**Description**	**Class**
Multiple Waters	All rivers and streams in the County, unless otherwise noted below	H
Multiple Waters	All streams in County further west than the intersection of I-80 and Placer Hills Road, unless otherwise noted below	C
American River, Middle Fork ~~(Mainstem)~~	Mainstem and all tributaries from North Fork American River upstream to Anderson Dam ~~upstream of Oxbow Dam~~	~~D~~F
~~American River, Middle Fork (Tributaries)~~	~~All tributaries upstream of Oxbow Dam~~	~~E~~
American River, North Fork	Mainstem and all tributaries from Folsom Lake upstream to Lake Clementine Dam	C
American River, North Fork	Mainstem and all tributaries from Lake Clementine Dam to Big Valley Canyon	~~C~~D
Lake Tahoe ~~(T~~tributaries~~)~~	All waters draining to Lake Tahoe	G
Pole Creek	Mainstem and all tributaries	A
Rubicon River	Mainstem and all tributaries upstream of Oxbow Dam to Parsley Bar crossing ~~the Placer-El Dorado County Line~~	~~E~~D
Truckee River	Mainstem and all tributaries	G

(32) Plumas

Water	**Description**	**Class**
Multiple Waters	All rivers and streams in the County, unless otherwise noted	H
Antelope Lake ~~(T~~tributaries~~)~~	All waters draining to Antelope Lake	A
Big Ravine	Mainstem and all tributaries	A
Boulder Creek (Little North Fork of Middle Fork Feather River tributary)	Mainstem and all tributaries	A
Cooks Creek	Mainstem and all tributaries	A
Dark Ravine	Mainstem and all tributaries	A
Fall River	Mainstem and all tributaries	A
Feather River, Middle Fork	Mainstem and all tributaries, unless otherwise noted	D

~~(Mainstem)~~		
~~Feather River, Middle Fork (Tributaries)~~	~~All tributaries, unless otherwise noted~~	~~E~~
Feather River, North Fork ~~(Mainstem)~~	Mainstem and all tributaries from Plumas-Butte County Line to East Branch of North Fork Feather River, unless otherwise noted	D
~~Feather River, North Fork (Tributaries)~~	~~All tributaries, unless otherwise noted~~	~~E~~
Feather River, South Fork	Mainstem and all tributaries, unless otherwise noted	D
~~Feather River, South Fork~~	~~All tributaries, unless otherwise noted~~	~~E~~
Frazier Creek	Mainstem and all tributaries	A
Gray Eagle Creek	Mainstem and all tributaries	A
Grizzly Creek	Mainstem and all tributaries	A
Last Chance Creek	Mainstem and all tributaries	A
Lights Creek, West Branch	Mainstem and all tributaries	A
Mill Creek	Mainstem and all tributaries upstream from the Bucks Lake Wilderness Boundary	A
Rock Creek, South Fork	Mainstem and all tributaries	A
Rowland Creek	Mainstem and all tributaries	A
Silver Creek	Mainstem and all tributaries	A
Slate Creek	Mainstem and all tributaries from the Yuba-Plumas County line upstream to Rabbit Creek	~~A~~D
Slate Creek	Mainstem and all tributaries upstream from Rabbit Creek (including Rabbit Creek)	A
Sulphur Creek	Mainstem and all tributaries	A
Warner Creek	Mainstem and all tributaries	A
Wolf Creek	Mainstem and all tributaries	A

(33) Riverside

Water	**Description**	**Class**
Multiple Waters	All rivers and streams in the County, unless otherwise noted below	H
Multiple Waters	All rivers and streams in the Aliso-San Onofre watershed, unless otherwise	E

	noted below	
Multiple Waters	All rivers and streams in the Santa Ana River watershed, unless otherwise noted	E
Multiple Waters	All rivers and streams in the Santa Margarita River watershed, unless otherwise noted	E
Multiple Waters	All shoreline pools and irrigation drains within one mile of the Salton Sea	A
Andreas Creek	Mainstem above 4,000 feet elevation	A
Arroyo Seco Creek	Mainstem upstream of Vail Lake	A
Bautista Creek	Mainstem, upstream from Fairview Ave crossing	A
Colorado River	Mainstem	A
Indian Creek	Mainstem upstream of Lake Fulmor	A
Rialto Drain	Mainstem	E
Salt Creek	Mainstem and all tributaries	A
San Jacinto River	Mainstem from Sand Canyon upstream to Soboba Indian Reservation boundary	A
San Jacinto River, North Fork	Mainstem and all tributaries above 4,000 ~~ft~~ feet elevation	A
San Juan Creek	Mainstem and all tributaries	A
San Mateo Creek	Mainstem and all tributaries	A
Santa Ana River	Mainstem upstream of N Lakeview Ave. crossing	E
Santa Ana River	Mainstem upstream of Prado Flood Control Basin	E
Tahquitz Creek	Mainstem upstream from Willow Creek	A
Temecula Creek	Mainstem upstream from Vail Lake	A
Whitewater River	Mainstem upstream from Colorado River Aqueduct	A
Willow Creek	Mainstem	A
Wilson Creek	Mainstem from Vail Lake upstream to Cahuilla Creek	A

(34) Sacramento

Water	**Description**	**Class**
Multiple Waters	All rivers and streams in the County, unless otherwise noted below	C
Sacramento River	Mainstem	F
American River	Mainstem from Sacramento River upstream to Nimbus Dam	A

(35) San Benito

Water	**Description**	**Class**
Multiple Waters	All rivers and streams in the County, unless otherwise noted below	D
Pacheco Creek	Mainstem and all tributaries	A
Pajaro River	Mainstem	A

(36) San Bernardino

Water	**Description**	**Class**
Multiple Waters	All rivers and streams in the County, unless otherwise noted below	H
Multiple Waters	All rivers and streams in the Santa Ana River watershed, unless otherwise noted below	E
Amargosa River	Mainstem from SR-127 crossing upstream to Old Spanish Trail crossing in Tecopa (Inyo Co)	A
Amargosa River	Mainstem from San Bernadino-Inyo County line upstream to Saratoga Springs	A
Barton Creek, East Fork	Mainstem	A
Cajon Wash	Mainstem and all tributaries ~~upstream from San Bernadino National forest boundary~~	~~E~~A
City Creek	Mainstem and all tributaries upstream from Highland Ave crossing	A
Colorado River	Mainstem	A
Day Canyon	Mainstem and all tributaries	A
Deep Creek	Mainstem from West Fork Mojave upstream to Holcomb Creek	A
Grass Valley Creek	Mainstem	A
Horsethief Creek	Mainstem	A
Juniper Springs	All	A
Kinley Creek	Mainstem	A
Little Horsethief Creek	Mainstem	A
Lytle Creek	Mainstem upstream to Miller Narrows	~~E~~A
Mojave River	Mainstem from Rock Springs ~~Rd~~Road crossing to Mojave River Forks Dam	A
Mojave River, West Fork	Mainstem and all tributaries, upstream from Silverwood Lake	A

Mojave River, West Fork	Mainstem from Mojave River Forks Dam to SR-173 crossing	A
~~Plunge Creek~~	~~Mainstem and tributaries~~	~~E~~
Shay Creek and Vicinity	Mainstem upstream from Baldwin Lake. Vicinity includes Shay Pond, Sugarloaf Pond, Wiebe Pond, Motorcycle Pond, and Baldwin Lake~~.~~	A
~~Whitewater River, North Fork~~	~~Mainstem~~	~~A~~

(37) San Diego

Water	**Description**	**Class**
Multiple Waters	All rivers and streams in the County, unless otherwise noted below	H
Multiple Waters	All coastal drainages and their tributaries from San Mateo Creek south to the Santa Margarita River	E
Agua Caliente Creek	Mainstem	A
Arroyo Seco Creek	Mainstem	A
Boden Canyon	Mainstem	A
Borrego Palm Canyon	Mainstem	A
Campo Creek	Mainstem upstream of Campo Lake	A
Canebrake Wash	Mainstem	A
Christianitos Creek	Mainstem from Gabino Creek to Camp Pendleton Boundary	A
Cottonwood Creek	Mainstem from Morena Reservoir upstream to I-8 crossing at Buckman Springs	A
Cottonwood Creek	Mainstem from U.S.-Mexico border upstream to Barret Lake	A
De Luz Creek	Mainstem from Camp De Luz ~~Rd~~Road crossing upstream to Camp Pendleton Boundary	A
Gabino Creek	Mainstem and all tributaries	A
Guejito Creek	Mainstem	A
Horsethief Canyon	Mainstem	A
Keys Creek	Mainstem	A
Kitchen Creek	Mainstem	A
La Posta Creek	Mainstem upstream of Morena Reservoir	A
Morena Creek	Mainstem and all tributaries	A
Palla Creek	Mainstem	A

Peterson Canyon	Mainstem and all tributaries	A
Pine Valley Creek	Mainstem and all tributaries upstream of Barret Reservoir	A
San Diego River	Mainstem from SR-67 crossing upstream to El Capitan Lake	A
San Diego River	Mainstem from El Capitan Lake to Temescal Creek (includes Cedar Creek)	A
San Dieguito River	Mainstem and all tributaries upstream of I-15 crossing	A
San Felipe Creek	Mainstem from downstream end of Sentenac Canyon upstream to SR-78 crossing	A
San Luis Rey River	Mainstem and all tributaries	A
~~San Luis Rey River~~	~~Mainstem upstream of Lake Henshaw~~	~~A~~
~~San Luis Rey River, West Fork~~	~~Mainstem from Lake Henshaw upstream to Barker Valley~~	~~A~~
~~San Mateo Creek~~	~~Mainstem upstream of Camp Pendleton boundary~~	~~A~~
San Vicente Creek	Mainstem from San Vicente Reservoir upstream to Vista Vicente ~~Rd~~Road crossing	A
Santa Margarita River	Mainstem upstream of De Luz ~~Rd~~Road crossing	A
Santa Ysabel Creek	Mainstem from Santa Maria Creek upstream to Temescal Creek	A
Santa Ysabel Creek	Mainstem upstream from Lake Sutherland	A
Sweetwater River	Mainstem from Sycuan Resort upstream to Loveland Reservoir	A
Sweetwater River	Mainstem upstream from Loveland Reservoir	A
Talega Creek	Mainstem	A
Taylor Creek	Mainstem and all tributaries	A
Temecula Creek	Mainstem	A
Temescal Creek	Mainstem	A
Tijuana River	Mainstem	A
Viejas Creek	Mainstem from Sweetwater River upstream to Viejas Indian Reservation	A

(38) San Francisco

Water	**Description**	**Class**
Multiple Waters	All rivers and streams in the County, unless otherwise noted below	H

(39) San Joaquin

Water	**Description**	**Class**
Multiple Waters	All rivers and streams in the County, unless otherwise noted below	C
Multiple Waters	All waters south of I-580	D
San Joaquin River	Mainstem	F
Mokelumne River	Mainstem from Burella Road upstream to Camache Dam	A

(40) San Luis Obispo

Water	**Description**	**Class**
Multiple Waters	All rivers and streams west of Hwy 101	A
Multiple Waters	All rivers and streams east of Hwy 101 and south of Highway 41 ~~Atascadero~~, unless otherwise noted below	D
Multiple Waters	All rivers and streams east of Hwy 101 and north of Highway 41 ~~Atascadero~~, unless otherwise noted below	H
Arroyo Grande Creek	Mainstem and all tributaries	A
Pismo Creek	Mainstem and all tributaries	A
Salinas River	Mainstem and all tributaries upstream of confluence with the Estrella River (not including Estrella River)	A
San Luis Obispo Creek	Mainstem and all tributaries	A
Santa Maria River	Mainstem	A

(41) San Mateo

Water	**Description**	**Class**
Multiple Waters	All rivers and streams west of I-280, unless otherwise noted below	D
Multiple Waters	All rivers and streams east of I-280, unless otherwise noted below	H
Multiple Waters	All rivers and streams east of I-280 above 200 ~~ft~~ feet elevation, unless otherwise noted below	D
Ano Nuevo Creek	Mainstem and all tributaries	A
Arroyo Canada Verde	Mainstem and all tributaries	A
Arroyo De En Medio	Mainstem and all tributaries	A
Arroyo De Los	Mainstem and all tributaries	A

Frijoles		
Arroyo Ojo	Mainstem and all tributaries	A
Belmont Creek	Mainstem and all tributaries	A
Calera Creek	Mainstem and all tributaries	A
Cascade Creek	Mainstem and all tributaries	A
Colma Creek	Mainstem and all tributaries	A
Cordilleras Creek	Mainstem and all tributaries	A
Easton Creek	Mainstem and all tributaries	A
Frenchmans Creek	Mainstem and all tributaries	A
Gazos Creek	Mainstem and all tributaries	A
Green Oaks Creek	Mainstem and all tributaries	A
Laurel Creek	Mainstem and all tributaries	A
Lobitos Creek	Mainstem and all tributaries	A
Martini Creek	Mainstem and all tributaries	A
Milagra Creek	Mainstem and all tributaries	A
Mills Creek	Mainstem and all tributaries	A
Montara Beach	Mainstem and all tributaries	A
Pescadero Creek	Mainstem and all tributaries	A
Pilarcitos Creek	Mainstem and all tributaries	A
Point Montara	Mainstem and all tributaries	A
Pomponio Creek	Mainstem and all tributaries	A
Purisima Creek	Mainstem and all tributaries	A
San Francisquito Creek	Mainstem and all tributaries	A
San Gregorio Creek	Mainstem and all tributaries	A
San Mateo Creek	Mainstem and all tributaries	A
San Pedro Creek	Mainstem and all tributaries	A
San Vicente Creek	Mainstem and all tributaries	A
Sanchez Creek	Mainstem and all tributaries	A
Tunitas Creek	Mainstem and all tributaries	A
Whitehouse Creek	Mainstem and all tributaries	A
Yankee Jim Gulch	Mainstem and all tributaries	A

(42) Santa Barbara

Water	**Description**	**Class**
Multiple Waters	All rivers and streams in the County, unless otherwise noted below	H
Multiple Waters	All coastal drainages from Jalama Creek in the north to Rincon Lagoon in the south, unless otherwise noted below	A
Abel Canyon	Mainstem and all tributaries	A
Alisal Creek	Mainstem and all tributaries	A

El Jaro Creek	Mainstem and all tributaries	A
Foresters Leap	Mainstem and all tributaries	A
Hilton Creek	Mainstem and all tributaries	A
Indian Creek	Mainstem	A
Judell Creek	Mainstem and all tributaries	A
Mono Creek	Mainstem and all tributaries	A
Quiota Creek	Mainstem and all tributaries	A
San Antonio Creek	Mainstem, from mouth up to and including Barka Slough	A
San Lucas Creek	Mainstem and all tributaries	A
Santa Maria River	Mainstem and all tributaries	A
Santa Ynez River	Mainstem, from the mouth to Lake Cachuma	A
Santa Ynez River	Mainstem upstream of Gibraltar Reservoir	A
Siquoc River	Mainstem and all tributaries	~~D~~A
~~Water Canyon (Sisquoc River tributary)~~	~~Mainstem and all tributaries~~	~~A~~

(43) Santa Clara

Water	**Description**	**Class**
Multiple Waters	All rivers and streams below 1,000 ~~ft~~ feet elevation, unless otherwise noted below	C
Multiple Waters	All rivers and streams above 1,000 ~~ft~~ feet elevation, unless otherwise noted below	D
Adobe Creek	Mainstem and all tributaries	A
Alamitos Creek	Mainstem and all tributaries	A
Arroyo Honda	Mainstem and all tributaries	A
Berryessa Creek	Mainstem and all tributaries	A
Calabazas Creek	Mainstem and all tributaries	A
Caleros Creek	Mainstem and all tributaries	A
Carnadero Creek	Mainstem and all tributaries	A
Coyote Creek	Mainstem	A
Guadalupe Creek	Mainstem and all tributaries	A
Guadalupe River	Mainstem	A
Llagas Creek	Mainstem and all tributaries	A
Los Gatos Creek	Mainstem and all tributaries	A
Silver Creek	Mainstem and all tributaries	A
Matadero Creek	Mainstem and all tributaries	A
Pacheco Creek	Mainstem and all tributaries	A

Permanente Creek	Mainstem and all tributaries	A
Pescadero Creek	Mainstem and all tributaries	A
San Francisquito Creek	Mainstem and all tributaries	A
Sargeant Creek	Mainstem and all tributaries	A
Stevens Creek	Mainstem and all tributaries	A
Penetencia Creek	Mainstem and all tributaries	A
Uvas Creek	Mainstem and all tributaries	A

(44) Santa Cruz

Water	**Description**	**Class**
Multiple Waters	All rivers and streams in the County, unless otherwise noted below	D
Aptos Creek	Mainstem and all tributaries	A
Arana Gulch Creek	Mainstem and all tributaries	A
Baldwin Creek	Mainstem and all tributaries	A
Corralitos Creek	Mainstem and all tributaries	A
Coward Creek	Mainstem and all tributaries	A
Davenport Landing Creek	Mainstem and all tributaries	A
Green Valley Creek	Mainstem and all tributaries	A
Laguna Creek	Mainstem and all tributaries	A
Liddell Creek	Mainstem and all tributaries	A
Majors Creek	Mainstem upstream of SR-1 crossing	A
Mattos Creek	Mainstem and all tributaries	A
Molino Creek	Mainstem and all tributaries	A
Pajaro River	Mainstem	A
Pescadero Creek	Mainstem and all tributaries	A
Salsipuedes Creek	Mainstem and all tributaries	A
San Lorenzo River	Mainstem and all tributaries	A
San Vicente Creek	Mainstem and all tributaries	A
Scott Creek	Mainstem and all tributaries	A
Soquel Creek	Mainstem and all tributaries	A
Waddell Creek	Mainstem and all tributaries	A
Wilder Creek	Mainstem and all tributaries	A
Yellow Bank Creek	Mainstem and all tributaries	A

(45) Shasta

Water	**Description**	**Class**
Multiple Waters	All rivers and streams in the County above 5,000 feet, unless otherwise noted below	H
Multiple Waters	All rivers and streams in the County below 5,000 feet, unless otherwise noted below	D
Battle Creek	Mainstem and tributaries, unless otherwise noted below	A
Battle Creek, North Fork	Mainstem and tributaries upstream to Lake McCumber	A
Beegum Creek	Mainstem and all tributaries	A
Clear Creek	Mainstem from Sacramento River upstream to Whiskeytown Dam	A
Cottonwood Creek	Mainstem	F
Fall River	Mainstem and all tributaries	A
Hat Creek	Mainstem and all tributaries	A
McCloud River	Mainstem and tributaries from Bundoora Springs upstream of ~~from the southern boundary of Section 16, T38N, R3W upstream to~~ Lake McCloud Dam to upper end of Colby Meadows	A
Old Cow Creek	Mainstem upstream to Old Cow Creek Meadows	A
Pit River	Mainstem from Shasta Lake upstream to Fall River Mills	C
Pit River	Mainstem from Fall River Mills to Shasta-Lassen County Line	A
Rock Creek	Mainstem	A
Sacramento River (~~M~~mainstem)	Mainstem from Shasta-Tehama County Line upstream to Keswick Dam	A
Sacramento River ~~(T~~tributaries~~)~~	All tributaries to the Sacramento River from the Shasta-Tehama County Line to Keswick Dam, unless otherwise noted	C
Screwdriver Creek	Mainstem	A

Sucker Springs Creek	Mainstem	A

(46) Sierra

Water	**Description**	**Class**
Multiple Waters	All rivers and streams in the County, unless otherwise noted below	H
Sulphur Creek	Mainstem and all tributaries	A
Slate Creek	Mainstem and all tributaries upstream from the Plumas, Sierra, and Yuba county lines to Rabbit Creek	~~A~~D
Slate Creek	Mainstem and all tributaries upstream from Rabbit Creek	A
Frazier Creek	Mainstem and all tributaries	A
Yuba River, Middle	Mainstem and all tributaries from Sierra-Yuba County Line upstream to Milton Reservoir	~~E~~D
Yuba River, North Fork ~~(Mainstem)~~	Mainstem and all tributaries from Sierra-Yuba County Line upstream to Ladies Canyon Creek	D
~~Yuba River, North Fork (Tributaries)~~	~~All tributaries from Sierra-Yuba County Line upstream to Ladies Canyon Creek~~	~~E~~
Independence Lake ~~(T~~tributaries~~)~~	All waters draining to Independence Lake	A
Truckee River	Mainstem and all tributaries	G
Long Valley Creek	Mainstem and all tributaries	E

(47) Siskiyou

Water	**Description**	**Class**
Multiple Waters	All rivers and streams in the County above 4,000 feet, unless otherwise noted below	H
Multiple Waters	All rivers and streams in the County below 4,000 feet, unless otherwise noted below	F
Salmon River, South Fork	Mainstem from French Creek upstream to St. Claire Creek	A
Salmon River	Mainstem upstream to Freight Train Rapid at river mile 8(RM8)	A
Applegate River	Mainstem and all tributaries	C
Beaver Creek	Mainstem	A
Bogus Creek	Mainstem	A
Bybee Creek	Mainstem	A

Cade Creek	Mainstem	A
Camp Creek	Mainstem	A
Canyon Creek	Mainstem	A
China Creek	Mainstem	A
Clear Creek	Mainstem	A
Cottonwood Creek (~~T~~tributary to Klamath River)	Mainstem	A
Dillon Creek	Mainstem	A
Dunn Creek	Mainstem	A
Elk Creek (~~T~~tributary to Klamath River)	Mainstem	A
Fort Goff Creek	Mainstem	A
French Creek	Mainstem	A
Grider Creek	Mainstem	A
Horse Creek	Mainstem	A
Humbug Creek	Mainstem	A
Illinois River, East Fork	Mainstem	A
Independence Creek	Mainstem	A
Indian Creek (~~T~~tributary to Klamath River)	Mainstem	A
Jenny Creek	Mainstem from Iron Gate Reservoir upstream to California-Oregon State Line	A
King Creek	Mainstem	A
Klamath River	Mainstem from Iron Gate Reservoir upstream to California-Oregon State Line	A
Little Grider Creek	Mainstem	A
Little Horse Creek	Mainstem	A
Portuguese Creek	Mainstem	A
Seiad Creek	Mainstem upstream to the confluence of the East and West Forks of Seiad Creek	A
Shackleford Creek	Mainstem	A

Shasta River	Mainstem and all tributaries upstream of County Road A12	A
Stanshaw Creek	Mainstem	A
Sugar Creek	Mainstem	A
Thompson Creek	Mainstem	A
Titus Creek	Mainstem	A
Ukonom Creek	Mainstem	A
Walker Creek	Mainstem	A
Wooley Creek	Mainstem and tributaries	A

Special Closures for Thermal Refugia in the Salmon River Watershed

A 200-foot radius* at the confluence of each of the following waters with the Salmon River (or its tributaries) is designated Class A:

Water Name	**Location in Salmon River Watershed**
Big Creek	Confluence with North Fork of Salmon River
Black Bear Creek	Confluence with South Fork Salmon River
Butler Creek	Confluence with mainstem of Salmon River
Crapo Creek	Confluence with mainstem of Salmon River
Eddy Gulch	Confluence with North Fork of Salmon River
Horn Creek	Confluence with mainstem of Salmon River
Indian Creek	Confluence with South Fork Salmon River
Jackass Gulch	Confluence with North Fork of Salmon River
Jessups Gulch	Confluence with North Fork of Salmon River
Jones Gulch	Confluence with North Fork of Salmon River
Little North Fork Salmon River	Confluence with North Fork of Salmon River
Knownothing Creek	Confluence with South Fork of Salmon River
Matthews Creek	Confluence with South Fork of Salmon River
McNeal Creek	Confluence with South Fork of Salmon River
Merrill Creek	Confluence with mainstem of Salmon River
Methodist Creek	Confluence with South Fork of Salmon River
Monte Creek	Confluence with mainstem of Salmon River
Morehouse Creek	Confluence with mainstem of Salmon River
Nordheimer Creek	Confluence with mainstem of Salmon River
Plummer Creek	Confluence with South Fork of Salmon River
Sainte Claire Creek	Confluence with South Fork of Salmon River
Shiltos Creek	Confluence with North Fork of Salmon River
Somes Creek	Confluence with mainstem of Salmon River
Wooley Creek	Confluence with mainstem of Salmon River

Special Closures for Thermal Refugia in Klamath River Watershed

A 200-foot radius* at the confluence of each of the following waters and the Klamath River is designated Class A:

Water Name	Water Name (continued)
Aubrey Creek	Little Horse Creek
Barkhouse Creek	Little Humbug Creek
Beaver Creek	Lumgrey Creek
Bogus Creek	McKinney Creek
Cade Creek	Mill Creek
Canyon Creek	Natuket Creek
China Creek	~~Natuket Creek~~
Clear Creek	Negro Creek
Coon Creek	O'Neil Creek
Cottonwood Creek	Oak Flat Creek
Crawford Creek	Portuguese Creek
Dillon Creek	Reynolds Creek
Doggett Creek	Rock Creek
Dona Creek	Rogers Creek
Elk Creek	Salmon River
Elliott Creek	Sandy Bar Creek
Empire Creek	Scott River
~~Empire Creek~~	Seiad Creek
Fort Goff Creek	Shasta River
Grider Creek	Stanshaw Creek
Halverson Creek	Swillup Creek
Horse Creek	Teneyck Creek
Humbug Creek	~~Teneyck Creek~~
Independence Creek	Thomas Creek
Indian Creek	Thompson Creek
Irving Creek	Ti Creek
King Creek	Titus Creek
Kohl Creek	Tom Martin Creek
Kuntz Creek	Ukonom Creek
Ladds Creek	Walker Creek
Little Grider Creek	Wilson Creek

*Pursuant to Fish and Game Code 5653(d) ~~I~~it is unlawful to possess a vacuum or suction dredge in areas, or in or within 100 yards of waters, that are closed to the use of vacuum or suction dredges. Therefore, the effective closure at thermal refugia locations is a 500-foot radius from the center-line of the confluence of the tributary stream with the mainstem river.

(48) Solano

Water	**Description**	**Class**
Multiple Waters	All rivers and streams in the County below ~~100~~ 300 ~~ft~~ feet elevation, unless otherwise noted below	H
Multiple Waters	All rivers and streams in the County above ~~100~~ 300 ~~ft.~~ feet elevation, unless otherwise noted below	D
Cordelia Slough	Mainstem and all tributaries	A
Frank Horan Slough	Mainstem and all tributaries	A
Green Valley Creek	Mainstem and all tributaries	A
Napa River	Mainstem and all tributaries	A
Suisun Creek	Mainstem and all tributaries	A

(49) Sonoma

Water	**Description**	**Class**
Multiple Waters	All rivers and streams in the County, unless otherwise noted below	D
Estero Americano	Mainstem and all tributaries	A
Fort Ross Creek	Mainstem and all tributaries	A
Gualala River	Mainstem and all tributaries	A
Kolmer Gulch	Mainstem and all tributaries	A
Petaluma River	Mainstem and all tributaries	A
Russian River	Mainstem and all tributaries, excluding Dry Creek above Warm Springs Dam	A
Russian Gulch Creek	Mainstem and all tributaries	A
Salmon Creek	Mainstem and all tributaries	A
Schell Creek	Mainstem and all tributaries	A
Sonoma Creek	Mainstem and all tributaries	A
Tolay Creek	Mainstem and all tributaries	A

(50) Stanislaus

Water	**Description**	**Class**
Multiple Waters	All rivers and streams in the County west of I-5	D
Multiple Waters	All rivers and streams in the County east of I-5, unless otherwise noted	H
San Joaquin River	Mainstem	C
Stanislaus River	Mainstem upstream to Tulloch Dam	C

Tuolumne River	Mainstem upstream to La Grange Dam	C

(51) Sutter

Water	**Description**	**Class**
Multiple Waters	All rivers and streams in the County, unless otherwise noted below	C
Butte Creek	Mainstem	A
Feather River	Mainstem	A
Sacramento River	Mainstem	F

(52) Tehama

Water	**Description**	**Class**
Multiple Waters	All rivers and streams in the County, unless otherwise noted below	F
Multiple Waters	All rivers and streams in the County east of State Hwy 32	A
Antelope Creek	Mainstem	A
Antelope Creek, South Fork	Mainstem upstream to South Fork Gun Club	A
Antelope Creek, North Fork	Mainstem upstream to Judd Creek	A
Beegum Creek	Mainstem and all tributaries	A
Butte Creek	Mainstem and all tributaries from Tehama-Butte County Line	A
Carter Creek	Mainstem from Deer Creek	A
Colby Creek	Mainstem from Tehama-Butte County Line	A
Deer Creek	Mainstem from Sacramento River to Deer Creek Falls	A
Mill Creek	Mainstem from Sacramento River to Lassen National Park Boundary	A
Sacramento River	Mainstem from Tehama-Butte County Line to Tehama-Shasta County Line	A
Willow Creek	Mainstem ~~from Tehama-Butte County Line~~	A

(53) Trinity

Water	**Description**	**Class**
Multiple Waters	All rivers and streams in the County, unless otherwise noted below	F
Big French Creek	Mainstem	A
Browns Creek	Mainstem	A

~~Canadian Creek~~	~~Mainstem~~	~~A~~
Canyon Creek	Mainstem from confluence with Trinity River, upstream to Rarick Gulch	A
Dutch Creek	Mainstem	A
Grass Valley Creek	Mainstem	A
Indian Creek	Mainstem to confluence with South Fork Indian Creek	A
Manzanita Creek	Mainstem	A
New River	Mainstem and all tributaries upstream from East Fork New River	A
New River, East Fork	Mainstem and all tributaries	A
Price Creek	Mainstem	A
Reading Creek	Mainstem	A
Rush Creek	Mainstem	A
Soldier Creek	Mainstem	A
Trinity River	Confluence with Klamath River to the South Fork Trinity River	A
Trinity River	Mainstem from South Fork Trinity River ~~Humboldt-Trinity County Line~~ upstream to North Fork Trinity River	D
Trinity River	Mainstem from North Fork Trinity River upstream to Grass Valley Creek	C
Trinity River	Mainstem and all tributaries from confluence with Grass Valley Creek upstream to Lewiston Dam	A
Trinity River	Mainstem and all tributaries upstream of Lewiston Dam	D
Trinity River, East Fork of North Fork	Mainstem from North Fork Trinity River upstream to Enterprise Mine at Noonan Gulch	A
Trinity River, North Fork	Mainstem and all tributaries to the wilderness boundary at Hobo Gulch	A
Trinity River, South Fork	Mainstem and all tributaries	~~B~~A
Weaver Creek	Mainstem and all tributaries	A

(54) Tulare

Water	**Description**	**Class**
Multiple Waters	All rivers and streams in the County above 4,000 feet elevation	A

Multiple Waters	All rivers and streams in the County between 1,000 and 4,000 feet elevation	F
Multiple Waters	All rivers and streams in the County below 1,000 feet elevation	H

(55) Tuolumne

Water	**Description**	**Class**
Multiple Waters	All rivers and streams in the County above 5,500 feet elevation	A
Multiple Waters	All rivers and streams in the County from 2,000 feet to 5,500 feet elevation, unless otherwise noted below	D
Multiple Waters	All rivers and streams in the County below 2,000 feet elevation, unless otherwise noted below	F
~~Amber Creek (Six Bit Gulch Tributary)~~	~~Mainstem~~	~~E~~
Delaney Creek (Tuolumne River tributary)	Mainstem	A
~~Horton Creek (Six Bit Gulch Tributary)~~	~~If the stream is not flowing in the proposed location of dredging, dredging is limited to no more that 1 pool out of every 4 contiguous pools or submit notification to CDFG under Section 1602.~~	~~B~~
~~Roach Creek (Six Bit Gulch Tributary)~~	~~If the stream is not flowing in the proposed location of dredging, dredging is limited to no more that 1 pool out of every 4 contiguous pools or submit notification to CDFG under Section 1602.~~	~~B~~
Six Bit Gulch	Mainstem and all tributaries	B
Rebecca Creek (tributary to Don Pedro Reservoir)	Mainstem	B

Minnow Creek (tributary to Don Pedro Reservoir)	Mainstem	B

(56) Ventura

Water	**Description**	**Class**
Multiple Waters	All rivers and streams in the County, unless otherwise noted below	H
Agua Blanca Creek	Mainstem	A
Hopper Creek	Mainstem and all tributaries	A
Hopper Creek	Mainstem	A
Las Virgenes Creek	Mainstem	A
Magu Lagoon	Mainstem from Pacific Ocean to SR-1 crossing	A
Malibu Creek	Mainstem and all tributaries, unless otherwise noted	E
Piru Creek	Mainstem from Pyramid Reservoir to Lockwood Creek	A
Santa Clara River	Mainstem from Pacific Ocean to Piru Creek	A
Santa Paula Creek	Mainstem	A
Sespe Creek	Mainstem and all tributaries	A
Sisar Creek	Mainstem	A
Ventura River	Mainstem and all tributaries	A

(57) Yolo

Water	**Description**	**Class**
Multiple Waters	All rivers and streams in the County east of I-5 or I-505 (whichever is further west), unless otherwise noted below	C
Multiple Waters	All rivers and streams in the County west of I-5 or I-505 (whichever is further west), unless otherwise noted below	F
Sacramento River	Mainstem	F

(58) Yuba

Water	**Description**	**Class**
Multiple Waters	All rivers and streams in the County west of Bullards Bar Reservoir, unless	C

	otherwise noted below	
Dry Creek	Mainstem upstream to Merle Collins Reservoir	A
Sacramento River	Mainstem	F
Slate Creek	Mainstem and all tributaries from the North Fork Yuba River ~~Buckeye Creek~~ upstream to Yuba-Plumas County Line	~~A~~D
Yuba River	Mainstem from Feather River to Englebright Reservoir	A
Yuba River, Middle	Mainstem from Yuba River upstream to Yuba-Sierra County Line	~~E~~D
Yuba River, North Fork ~~(Mainstem)~~	Mainstem and all tributaries from New Bullards Bar Reservoir upstream to Yuba-Sierra County Line	D
~~Yuba River, North Fork (Tributaries)~~	~~All tributaries from New Bullards Bar Reservoir upstream to Yuba Sierra County Line~~	~~E~~

Chapter 4.2 Water Quality and Toxicology

The entire paragraph below "Policy for Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California," on page 4.2-5, is replaced as follows:

> ~~In 1994, the SWRCB and the EPA agreed to a coordinated approach for addressing priority toxic pollutants in inland surface waters, enclosed bays, and estuaries of California. In March 2000, the SWRCB adopted the Policy for Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California, commonly referred to as the State Implementation Policy (or SIP). The SIP implements NTR and CTR criteria, and applicable Basin Plan objectives, for toxic pollutants. When the RWQCBs issue any permit allowing the discharge of any toxic pollutant(s) pursuant to the CWA or the Porter-Cologne, the permit's promulgation and implementation must be consistent with the SIP's substantive or procedural requirements. Any deviation from the SIP requires the concurrence of U.S. EPA if the RWQCBs are issuing any permit pursuant to the CWA.~~ NPDES permits must set effluent limitations and include such conditions as are necessary to implement water quality standards and implement all applicable water quality control plans (Basin Plans).[1][1] Effluent limitations are any restriction imposed on quantities, discharge rates, and/or concentrations of pollutants which are discharged from a point source into waters of the United States.[2][2] The effluent limitations for priority toxic pollutants were promulgated by USEPA and are found within the Code of Federal Regulations; collectively, they are referred to as the California Toxics Rule

[1] Wat. Code, § 13377.
[2] 40 C.F.R. § 122.2.

> (CTR).[3][3] The procedures by which CTR-pollutants discharged to surface waters are regulated by the Water Boards are found in the State Water Resources Control Board's Policy for Implementation of Toxic Standards for Inland Surface Waters, Enclosed Bays, and Estuaries (SIP). Mercury is a priority toxic pollutant and any discharge of mercury to a surface water body subject to the Clean Water Act within California must be permitted using the CTR's effluent limitations and the SIP's procedures. Without a permit that complies with the CTR and the SIP, the discharge of mercury to a surface water body subject to the Clean Water Act is illegal.

Reference information for Figures 4.2-9 and 4.2-10, on pages 4.2-40 and 4.2-41, has been changed as follows:

> *(Fleck et al, 2011, based on dredge sediment discharge data from Keene 2009)*

Language has been added to page 4.2-23 at the top of the page as follows:

> Little data exists in the rest of the Klamath-Trinity and San ~~Gabrial~~Gabriel Mountains. However, historic hydraulic mining is well documented in both watersheds and these activities invariably included the use of mercury for gold recovery. For the purposes of the detailed quantitative assessment, the focus will be on the Sierra Nevada, and the South Yuba River will be used as a representative of Sierra Nevada streams and rivers due to the relatively large number of studies and amount of data available for this river.

The first paragraph under Discharge of Mercury from Suction Dredging, on page 4.2-33, has been revised as follows:

> Recent field and laboratory studies were conducted by the USGS near the confluence of Humbug Creek and the South Yuba River. The objectives of the studies were to: 1) characterize Hg concentration and speciation in sediment of various size fractions (field and ~~l~~lab), 2) characterize Hg and MeHg concentrations in local biota (field and lab), and 3) assess the practicality and potential impacts of using suction dredging for removing Hg from an area contaminated with Hg (field and lab).The sediment characterization study~~laboratory study~~ determined levels of total Hg (THg) and reactive mercury (Hg(II)R) in sediments collected from a mid channel bar (Pit #1), and bank sediments collected near the confluence of the South Yuba River and Humbug Creek (Pit #2).

End quotation marks have been added on page 4.2-44, as follows:

> Reactive Hg(II) (i.e., $Hg(II)_R$) is "an operationally defined fraction that represents the result of a 15-minute digestion with $SnCl_2$, a strong reducing agent that converts Hg(II) to elemental Hg(0) so that the readily available Hg(II) fraction can be measured (Marvin-DiPasquale et al., 2009; Marvin-DiPasquale and Cox, 2007)".

The fourth sentence of the second paragraph on page 4.2-45 has been revised as follows:

[3] 40 C.F.R. § 131.38.

> The logarithm of the bioaccumulation factor (BAF) of filtered MeHg from fish to water is approximately 6.33 (fish:water), while the BAF of fish to sediment MeHg ~~to fish~~ is approximately 3.42 (fish:sediment) (Scudder et al., 2009).

Page 4.2-46, lines 38 and 39 of the DSEIR have been modified as follows:

> Overall, levels in ~~2008~~2007 were statistically significantly higher than levels in ~~2007~~2008.

The first sentence of the first paragraph on page 4.2-46 is revised, as follows:

> Experiments at Camp Far West Reservoir~~,~~ found that upstream sources of MeHg may be more significant under high-flow conditions, while sources internal to the reservoir may be more important during low-flow conditions (Kuwabara et al., 2003).

The typos in the second paragraph on page 4.2-46 are revised, as follows:

> Becau~~a~~se concentrations and loads of Hg within the stream are not altered, assessment of the transformation and bioaccumulation of this Hg examines the impact of resuspension and movement of Hg at depth to Hg in the top-sediment. Recent studies indicate that following resuspension of South Yuba River sediments, both from Pit #1 and Pit #2:BC, increased methylation was not observed after deposition into South Yuba River receiving sediments, which were relatively low in organic content (Marvin-DiPasquale et al., 2011).

Reference information for the national average for Hg in trout, found on page 4.2-47, has been added as follows:

> Fish tissue levels of Hg in the South Yuba River are relatively low (0.17 parts per million [ppm] average), owing in part to the fact that the figure is from rainbow trout, which tend to accumulate MeHg to a much lesser extent than piscivorous fish such as largemouth bass. According to Scudder et al. (2009), ~~(~~the average Hg concentration in trout tissue from around the U.S. is about 0.11 ppm~~)~~.

The following reference in the first paragraph on page 4.2-44 has been removed as follows:

> The latter is enhanced in the presence of chloride, oxygen, and light; however, dissolved Hg(0) would also be subsequently available to oxidation to Hg(II). Studies have shown that Hg(II) is the form most readily converted to MeHg by microbes (~~Keiu, 2004;~~ Marvin-DiPasquale et al.~~,~~ 2009; Marvin-DiPasquale and Cox 2007).

Language on page 4.2-48 is revised as follows:

> Recent experiments have shown that sediments from Pit #2:BC increased methylation relative to the control sediment when spiked into Englebright Lake receiving sediment following suspension for 7 days. Being suspended for a period of ~~6~~7 days, ~~and~~ then spiked into Englebright Lake receiving sediments at a ratio of

1:50, followed by incubation for 6 days, doubled MeMercury production in the Englebright sediment when compared to the control, which was unspiked Englebright sediment (Figure 4.2-19; Marvin-DiPasquale et al., 2011).

The references in the first sentence on page 4.2-49 are revised as follows:

Several studies have documented a significant positive correlation 1 in the Delta between THg and MeHg (Heim et al., 2003; Slotton et al., 2003).

Language on page 4.2-49 is revised as follows:

Experiments have shown that sediments from Pit#2:BC doubled methylation relative to the control sediment ~~when~~ after being suspended for a period of 7 days and then spiked into Delta receiving sediments~~, and~~. ~~a~~After being suspended for a period of ~~6~~7 days and then spiked into Delta receiving sediments, followed by incubation for 6 days, these sediments tripled MeMercury production within the receiving sediment (Figure 4.2-20).

Ambiguity in the last sentence of the first paragraph on page 4.2-49 is clarified in the following:

The same experiments using sediment from Pit #1 as spiking sediment and Delta sediment as receiving sediment showed no impact on MeHg concentrations in Delta sediments.

Page 4.2-53, lines 31-37 have been changed as follows:

Available evidence suggests that these processes associated with suction dredging in the Sierra foothills, for example, may increase Hg levels in reaches/water bodies downstream of suction dredging areas by frequency, magnitude, and geographic extent such that MeHg body burdens in aquatic organisms may be measurably increased, thereby substantially increasing the health risks to ~~wildlife (including fish) or~~ humans consuming these organisms.

Page 4.2-56, lines 1-3 of the DSEIR have been changed as follows:

This is important to consider in this assessment because metals that are bound to sediment particles are ~~not~~ less likely to be bioavailable to fish and benthic macroinvertebrates when ingested and thus are ~~not in a form that can~~ less likely to cause toxicity to aquatic life.

Page 4.2-58, lines 29-33 of the DSEIR have been changed as follows:

Finally, because trace metals addressed in this assessment are not ~~bioaccumulative constituents~~ biomagnified up the food chain as higher trophic-level organisms consume aquatic organisms that have accumulated trace metals in their tissues, the potential to mobilize the trace metals discussed herein would not substantially

increase the health risks to wildlife (including fish) or humans consuming these organisms ~~through bioaccumulative pathways~~.

The captions to Figures 4.2-19 and 4.2-20 are revised as follows:

Day 0 indicates the sediment was not incubated following suspension for 7 days and spiking into the receiving sediment. ~~non-suspended prior to spiking into the receiving sediment.~~ Day 6 indicates the sediment was incubated for 6 days following suspension for 7 days and spiking into the receiving sediment ~~suspended for 6 days prior to spiking into the receiving sediment~~.

Chapter 8 References

Reference information for information regarding smallmouth bass Hg data from Englebright Lake, found on page 4.2-48, has been added to the Reference Chapter as follows:

Office of Environmental Health Hazard Assessment (OEHHA), 2008. Evaluation of Potential Health Effects of Eating Fish from Selected Water bodies in the Northern Sierra Nevada Foothills (Nevada, Placer, and Yuba Counties): Guidelines for Sportfish Consumption. Pesticide and Environmental Toxicology Section. Office of Environmental Health Hazard Assessment. California Environmental Protection Agency. Oakland, California.

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Chapter 7
REFERENCES

The following is a list of references cited in the FSEIR. For a list of references cited in the DSEIR, please see Chapter 8 of the DSEIR.

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None cited

2. Comments Received

None cited

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5. Changes and Corrections to the EIR

None cited

6. Report Preparation

None cited