Water Quality Control Plan
for the
San Francisco Bay/Sacramento-San Joaquin Delta Watershed

October 29, 2026



CALIFORNIA
Water Boards

State Water Resources Control Board

Appendix B. Voluntary Agreement Pathway Accounting Protocols

B.1 Flow Accounting

B.1.1 Introduction

This appendix contains procedures to account for Healthy Rivers and Landscapes (HRL) flow commitments included in the voluntary agreements (VA) pathway in addition to requirements described in Section 4.4.9 of the Water Quality Control Plan for the San Francisco Bay/Sacramento-San Joaquin Delta Watershed (Bay-Delta Plan). These flow accounting procedures may be refined by the Executive Director of the State Water Resources Control Board (State Water Board) as part of the annual and periodic review processes after an opportunity for public review and comment to confirm compliance with the VA pathway in the Bay-Delta Plan. The lists of HRL water rights included in Section B.1.18 may also be modified following the procedures described in Section 4.4.9 of the Bay-Delta Plan. Interested parties would have the opportunity to petition the State Water Board for reconsideration of Executive Director refinements to accounting procedures.

HRL flow commitments are in addition to base flows, including flows required by State Water Board Revised Decision 1641 (D-1641), other regulatory requirements, and other non-regulatory flows that would be present absent HRL flow commitments as described in Bay-Delta Plan Section 4.4.9 and as analyzed in the supporting Staff Report and Scientific Basis Report Supplement supporting the VA pathway. With respect to other regulatory requirements, the 2022 VA Memorandum of Understanding identified that HRL flow commitments were to be in addition to flows under the base condition that incorporates the 2019 Biological Opinion for the Long Term Operation (LTO) of the State Water Project (SWP) and Central Valley Project (CVP). This appendix identifies that the HRL flows would be additive to flows resulting from compliance with the 2024 LTO Record of Decision (ROD) and Biological Opinions where applicable.

The accounting provisions for HRL flows provided from upstream sources are found in Sections B.1.9 through B.1.17. HRL tributary flow commitments are either provided through fallowing, groundwater substitution, reservoir reoperations, or a combination of those sources. HRL flow commitments are also provided through SWP and CVP export reductions and through water purchases that are expected to be made available through fallowing or groundwater substitution. This appendix describes accounting provisions for HRL flow commitments provided from the Sacramento River, Feather River, Yuba River, American River, Mokelumne River, Bear River, Auburn Ravine, Putah Creek, Cache Creek, water purchases, SWP and CVP export reductions, and outflows from San Joaquin River Restoration Program (SJRRP) flows, including forgone recapture of those flows.

The flow accounting procedures for each water source have four core components:

i. Description of Flow Commitments: This section includes a description of the flow commitments by water year type for each water source and how the additive flow is to be made available.

ii. Definition of Reference Conditions (including reference flows, operations, and storage conditions): This section generally describes the flows, reservoir and water diversion operations, and other conditions to which HRL flow commitments are added. Except in the case of some reservoir reoperations HRL flow commitments, reference conditions include pre-HRL conditions, including regulatory requirements, water diversions, flood control operations, and other conditions such that HRL flows are provided in addition to regulatory requirements and other flows in the system incidentally that have been analyzed as part of the base/reference conditions for the VA pathway supporting the current update to the Bay-Delta Plan.

iii. Accounting of Flow Commitments Above Reference Condition: This section describes the procedures and tools used to quantify the reference conditions and the process for measuring and quantifying the HRL flow increment that is additive to the reference conditions.

iv. Verification of Additive Flow: This section describes how the additional volumes of water will be verified and made available relative to the reference conditions.

In addition to specific accounting procedures for each of these sources of HRL flow commitments, Sections B.1.7 and B.1.8 contain general accounting provisions for flows made available through fallowing and groundwater substitution and provisions for accounting for these flow commitments through the Delta. General accounting provisions are not included for reservoir reoperations, as these flow commitments vary by source. Some flow commitments provided through reservoir reoperations are accounted for as contributing flows that are protected as Delta outflows at certain times, while others are not accounted for as protected additive Delta outflow, though they may contribute incidentally to Delta outflow under certain hydrologic conditions. Further, some flow commitments provided through reservoir reoperations include reservoir refill limitations to avoid impacts to the SWP and CVP (collectively, Projects) and to avoid reducing flows at certain times due to refill operations, while others do not.

The accounting provisions for bypassing HRL flows provided from upstream sources through the Delta, past the SWP and CVP export facilities, and for the SWP and CVP HRL contributions through export reductions are found in Sections B.1.4 and B.1.5. These procedures are referred to generally as “Delta Accounting Procedures” and provide the following:

i. How the SWP and CVP reference conditions will be determined (i.e., the reference operation and resulting reference flow for the Sacramento, Feather, and American Rivers, and export reduction water sources);

ii. How SWP and CVP operations will avoid the export of reference flows and HRL additive flows from all HRL sources;

iii. How potential losses to the system will be addressed.

Section B.1.5 contains the accounting procedures for forgone Delta exports. General requirements for Public Water Agency (PWA) and permanent state water purchases are found in Section B.1.6. General requirements that apply to all parties relying on land fallowing and groundwater substitution are found in Sections B.1.7 and B.1.8.

The flow accounting procedures contain various discretionary flexibilities. Unless otherwise indicated, these discretionary flexibilities are subject to approval by the State Water Board's Deputy Director for Water Rights.

Implementation of HRL flows on the SWP and CVP tributary sources (Sacramento, American, and Feather Rivers) are dependent on conditions and operations within the Delta. Coordination of SWP and CVP tributaries is necessary to ensure timing and flows occur consistent with expected benefits and that the flow is properly protected and accounted for within the Delta as Delta outflow. Section B.1.4 includes provisions that require this coordination.

As provided in Bay-Delta Plan Section 4.4.9, HRL flow commitments are in addition to flows provided by water rights not covered under the VA pathway pursuant to the Bay-Delta Plan, including the lower San Joaquin River (LSJR) flow requirements and other flows required from the Sacramento River, Delta, and tributaries that are not part of the VA pathway, as well as other instream flow dedications, including Water Code section 1707 instream flow dedications to the extent applicable. Provisions for protection of tributary and Delta outflows resulting from the non-VA pathway Sacramento/Delta inflow, cold water habitat, and inflow-based Delta outflow objectives and from the LSJR flow objectives will be developed with the implementation methodology. This accounting document will be updated as appropriate.

B.1.2 Definitions

This section contains definitions for terms used for the specific purpose of Appendix B.1.

2024 CVP and SWP Long-Term Operations Record of Decision (2024 LTO ROD) and 2024 Biological Opinions (2024 Biological Opinions or BiOps) – The operational provisions from the 2024 LTO ROD and associated 2024 United States Fish and Wildlife Service (USFWS) Biological Opinion for the Reinitiation of Consultation of the Long-Term Operations of the CVP and SWP and the National Marine Fisheries Service

(NMFS) Biological Opinion for the Reinitiation of Consultation on the Long-Term Operation of the CVP and SWP.

Agreement Between the United States of America and the Department of Water Resources of the State of California for Coordinated Operation of the Central Valley Project and the State Water Project (COA) – The agreement between the SWP and CVP specifies how the California Department of Water Resources (DWR) and the Unites States Bureau of Reclamation (Reclamation) will coordinate operations to meet Delta inflows, Delta outflow, water quality, facility limitations (e.g., Old and Middle River pumping restrictions), and other requirements, and how available exports from the Delta will be distributed. The agreement was initially entered into on November 24, 1986, and was subsequently amended by mutual agreement on December 12, 2018.

Balanced Conditions – Balanced conditions are defined as periods when DWR and Reclamation determine that SWP and CVP releases from upstream reservoirs plus unregulated flow approximately equal the water supply needed to meet Sacramento Valley in-basin uses, plus exports (D-1641, p. 150). For the purposes of this document, the only Bay-Delta Plan requirements included in the definition of balanced conditions are those from D-1641.

California Department of Fish and Wildlife (DFW) – The trustee agency for fish and wildlife within the California Natural Resources Agency that is responsible for, among other duties, issuing permits allowing the take of species listed pursuant to the California Endangered Species Act incidental to otherwise lawful project activities.

California Endangered Species Act (CESA) – The state law prohibiting the take of species listed by the California Fish and Game Commission as in danger of extinction (endangered) or threatened with becoming in danger of extinction (threatened).

Central Valley Project (CVP) – A federal network of dams, reservoirs, canals, hydroelectric powerplants and other facilities operated by Reclamation.

Department of Water Resources (DWR) – The state agency within the California Natural Resources Agency that is responsible for, among other duties, SWP operations and management.

Excess Conditions – Excess conditions are defined as times when DWR and Reclamation determine that upstream reservoir releases plus unregulated natural flow exceed Sacramento Valley in-basin uses, plus exports (D-1641, p. 150). For the purposes of this document, the only Bay-Delta Plan requirements included in the definition of excess conditions are those from D-1641.

Exports – Total combined pumping at the Jones Pumping Plant (JPP) and the Clifton Court Forebay (CCF) inflow minus Byron-Bethany Irrigation District withdrawals.

Federal Endangered Species Act (ESA) – The federal law prohibiting the take of species listed by USFWS or NMFS as in danger of extinction (endangered). The ESA may also prohibit take of species threatened with becoming in danger of extinction (threatened).

Fisheries Agencies – DFW, NMFS, and the USFWS, collectively.

Flow Commitments – Flows that must be provided by HRL participants, consistent with the accounting procedures described in this appendix, in order to utilize the VA pathway.

Forgone Exports or Reduced Exports – Volume of water that could be exported under the reference conditions but is not exported in order to meet HRL flow commitments.

Groundwater Substitution – Reduction in surface water use that is offset with additional groundwater pumping. The reduction in surface water use makes surface water available for meeting HRL flow commitments.

HRL Participants – Holders of the water rights covered under the VA pathway, which are identified in the tables contained in Section B.1.18 of this accounting document. An HRL participant may also hold water rights that are not covered under the VA pathway.

Land Fallowing – Land fallowing includes the idling of land that would have otherwise been planted in order to make water available for HRL flow commitments. It does not include land fallowed for crop rotation purposes or other purposes.

National Marine Fisheries Service (NMFS) – The agency within the National Oceanic and Atmospheric Administration that, among other duties, is responsible for evaluating effects upon federally listed threatened and endangered marine species and issuing Biological Opinions and statements allowing the take of those marine species incidental to otherwise lawful project activities.

Project Agencies – DWR and Reclamation.

Projects – The combined facilities and operations of the SWP and the CVP.

Reference Conditions (including reference flows, operations, and reservoir conditions) – The flows, reservoir operations, other water supply and flood management operations, and other conditions to which HRL flow commitments are additive. Except in the case of some specified reservoir reoperations HRL flow commitments, reference conditions include pre-HRL conditions, including regulatory requirements, water diversions, flood control operations, and other conditions such that HRL flows are provided in addition to regulatory requirements and other flows that are in the system incidentally that have been analyzed as part of the base conditions for the VA pathway supporting the current update to the Bay-Delta Plan. Reductions in flow resulting from increased diversions that are subject to the inflow and inflow-based Delta outflow requirements in Sections

4.4.2.2 and 4.4.2.6 do not change the base flows to which the HRL flow commitments are required to be additive. This is also referred to as “base conditions” or “base flows” in Bay-Delta Plan Section 4.4.9.

Regulatory Pathway – The Bay-Delta Plan program of implementation provisions for the Sacramento/Delta inflow, cold water habitat, and inflow-based Delta outflow objectives in Bay-Delta Plan Sections 4.4.2.2, 4.4.2.3, and 4.4.2.6.

Reservoir Refill – The act of re-filling a reservoir to make up for the volume released from a reservoir to provide HRL additive flows.

Reservoir Reoperation – Changes to existing operations and management procedures for reservoirs to provide HRL flow commitments.

State Water Board Revised Decision 1641 (D-1641) – D-1641 includes water right requirements largely applicable to the SWP and CVP to implement, in part, the 1995 Bay-Delta Plan, including Delta outflow and Sacramento and San Joaquin River flow requirements, salinity requirements, and Project export constraints, as well as other conditions.

State Water Project (SWP) – A network of dams, reservoirs, canals, hydroelectric powerplants and other facilities operated by DWR.

Stored Water – Water collected and held in reservoirs or other storage facilities for over 30 days. For the purposes of tracking storage releases, the most recent volume of water to flow into a reservoir is considered to be the first volume to flow out when water is released.

Top of Conservation – The allowable flood control storage level for a reservoir as specified by the United States Army Corps of Engineers (USACE) or other appropriate flood control agency.

United States Bureau of Reclamation (Reclamation) – The agency within the United States Department of the Interior that is responsible, among other duties, for operation and management of the CVP.

United States Fish and Wildlife Service (USFWS) – The agency within the United States Department of the Interior that is responsible, among other duties, for evaluating effects upon federally listed threatened and endangered species (other than marine species) and issuing Biological Opinions and statements allowing the take of those species incidental to otherwise lawful project activities.

Verification of Additive Flow – Procedures for verifying that additional HRL flow commitments have been provided on top of reference conditions.

Water Transfer – Water that is forgone by one water right for other purposes (e.g., transferred to another water right, transferred to an environmental flow, or transferred to another party to increase storage).

B.1.3 Planning, Tracking, and Reporting

Within 90 days of adoption of the Sacramento/Delta updates to the Bay-Delta Plan, HRL participants must develop a transparent accounting process that will be submitted to the Executive Director for approval that demonstrates how the HRL participants will plan, track implementation of, and report on verifying that HRL flow commitments have been met. That process must also meet any conditions of approval of the Executive Director, as those conditions may be revised. At a minimum the process must include the following:

i. Coordination – Starting by February 1 annually, the HRL participants collectively must coordinate weekly up to and during the time period in which HRL flows may be provided with the fisheries agencies and the State Water Board to develop and verify reference conditions and schedules for meeting the HRL flow commitments.

ii. Water Year Type Determination and Flow Commitment Selection – The flow commitments will be determined as follows:

   (a) For Sacramento Valley tributaries and water sources including Sacramento, Feather, American, Yuba, Bear, Putah, forgone exports, and water purchases, the flow commitments in Table 9 of the Bay-Delta Plan will be determined by water year type as defined by Figure 2 (Sacramento Valley Water Year Hydrologic Classification), using the May 50 percent chance exceedance forecast of Sacramento Valley unimpaired runoff. For planning purposes, some HRL participants plan to schedule HRL flows using preliminary determinations of the water year type based on the 90 percent chance exceedance forecast from January through March, and the 75 percent chance exceedance forecast in April.

   (b) Mokelumne and Friant HRL participants will follow water type determinations specific to their individual, pre-existing flow requirements, the 1998 Joint Settlement Agreement and San Joaquin River Restoration Program, respectively.

iii. Public Website Tracking System – The HRL participants must develop and implement a machine-readable, user-friendly tracking and reporting system for reference conditions and HRL additive flows that is posted in near real-time on a

publicly accessible website. The system must include tracking of the following, updated on a weekly basis at a minimum:

(a) Continuous historical and forecasted accounting that tracks daily, monthly, and seasonal reference conditions/flows and HRL flows;

(b) Observed and estimated reference reservoir storage, releases, flows, and diversions;

(c) Forecasts of daily river, Delta, and related reservoir operations;

(d) Running total volumes of additive flow attained by tributary, water purchases, and forgone exports; additive inflow to and outflow from the Delta; total volumes of groundwater substitution; volumes attributed to land fallowing; and volumes attributed to water purchases.

B.1.4 Delta Accounting Procedures

This section contains methods for accounting for HRL flows as additive to Delta outflows that would exist prior to the implementation of the VA pathway and for verifying that flow and water quality requirements would be met under reference conditions absent additional HRL flows in the system in order to demonstrate that HRL flow commitments to additional outflow are being bypassed through the Delta into San Francisco Bay. It includes a description of the reference conditions, calculation of the HRL flows into the Delta from various sources, and methods to verify that HRL flows increase Delta outflow. The forgone Delta export component of HRL flow commitments is described in Section B.1.5.

B.1.4.1 Definition of Delta Reference Conditions

Delta reference conditions include flows, water diversions, and reservoir operations as they would occur prior to the implementation of the VA pathway. The primary reference conditions related to the Delta are defined further below.

i. State Water Board Revised Decision 1641 (D-1641) – Reference conditions for the Delta include pre-HRL flow, export, and reservoir storage conditions as they would occur to meet Bay-Delta Plan water quality and flow objectives included in D-1641, including salinity (electrical conductivity [EC] and chloride) and Delta inflow and outflow objectives. D-1641 also includes objectives for Delta Cross Channel Gate closure requirements and limits on exports from the Delta. The D-1641 requirements vary by month, water year type, and hydrologic condition. As reference flows for the Delta are also affected by upstream reference flows, including on SWP and CVP tributaries, reference flows for the Delta must also align with the reference flows described in subsequent sections of this appendix.

ii. 2024 Record of Decision for the Long-Term Operation of the Central Valley Project and State Water Project and Associated Biological Opinions (2024 LTO) – Reclamation and DWR formulated the 2024 Long-Term Operations plan for the CVP and SWP in coordination with federal and state regulatory agencies. The 2024 LTO includes provisions for Delta operations, as well as upstream operations of the SWP and CVP that are all included in reference conditions, including Old and Middle River flow restrictions, Fall X2 requirements, Suisun Marsh salinity control gate operations, temperature management, provisions for operations of the Sacramento and American Rivers, and other provisions. Export restrictions for longfin smelt that result in a less negative OMR requirement than other OMR actions in place would be excluded from the reference conditions and may result in increases to Delta outflow that would be included in the accounting of forgone export volumes. In the event of a Relevant Change in CVP or SWP operations as defined in Section 4.4.9.1, the additional provisions of Section 4.4.9.1 apply. As appropriate, this accounting document will be updated, as approved by the Executive Director through a public process with opportunity for public comment, to include provisions needed to account for the requirements of Section 4.4.9.1.

iii. Agreement Between the United States of America and the Department of Water Resources of the State of California for Coordinated Operation of the Central Valley Project and the State Water Project (COA) – Reference conditions include export conditions and other conditions before implementation of the VA pathway as they would occur to meet any requirements and criteria from the COA. In the event the COA is amended in a manner that affects reference conditions, this accounting document will be updated as appropriate, as approved by the Executive Director through a public process with opportunity for public comment.

iv. Exports and In-Basin Diversions and Deliveries – Reference conditions for the Delta include resulting Delta flow and other conditions reflecting levels of water diversions from the Delta before implementation of the VA pathway, including exports, diversions by Contra Costa Water District (CCWD), and other diversions.

v. U.S. Army Corps of Engineers (USACE) Pumping Limits – Reference conditions for the Delta include applicable USACE pumping and diversion limits.

The conditions described above, along with hydrologic and related conditions, affect the amount of Delta outflow that occurs under reference conditions. Specifically, reference conditions are affected by whether the Delta is in what is referred to as “balanced” or “excess” conditions, as explained in Section B.1.2 above.

The term “controlling factor(s)” is used to describe the conditions that are affecting Delta outflows and Project exports. For Delta outflows, controlling factors include the following: D-1641 requirements (flow, salinity, and operational requirements) and 2024

LTO/Biological Opinion operations (Old and Middle River flows and other provisions), as well as water demands, and storage and conveyance capacity and limitations. The controlling factors are highly dynamic and can change daily based on hydrologic conditions. Controlling factors are therefore difficult or impossible to predict beforehand.

When the Delta is in excess conditions, Delta outflow is greater than what is required under D-1641 and the Delta outflow reference conditions are controlled by hydrology, Project exports, and other diversions. Project exports may be limited by Project water demand, pumping plant capacity, USACE permit requirements, D-1641 export limits, or Old and Middle River reverse flow limits. Exports under reference conditions are the exports that would occur under conditions before implementation of the VA pathway consistent with the analyses supporting this update to the Bay-Delta Plan. For example, if the Delta is in excess conditions, the controlling factor for exports may be the D-1641 export limits based on San Joaquin River flows. In this case, reference Delta conditions would be calculated assuming inflows at Vernalis adjusted to remove any HRL flow changes from the San Joaquin River and its tributaries. Similarly, reference Old and Middle River flow export limits would be calculated using Vernalis flows adjusted to remove any HRL flow changes. In addition, reference exports for the D-1641 Project Export to Delta Inflow ratios are calculated with adjustments to remove any HRL flow changes.

When the Delta is in balanced conditions under the reference conditions, the combined operations of Project reservoir releases and Delta exports are those needed to meet in-basin uses, including D-1641 requirements, before implementation of the VA pathway. The Projects are required to define on a daily basis whether the Delta is in balanced or excess conditions under the reference conditions and define the controlling factor(s) for the reference conditions.

B.1.4.2 Calculation of Daily HRL Delta Inflow and Outflow

Upstream tributary HRL flows are required to be bypassed by the Projects and produce corresponding increases in Delta inflow and outflow above reference conditions adjusted for travel time and losses based on the values shown in Table B.1-1. The table also lists whether or not the HRL flow contribution is included in the Delta outflow and water quality regulatory offsets calculation.

Table B.1-1. Tributary Flow Commitment Assumptions for Delta Accounting

CONTRIBUTION	DOWNSTREAM CONTROL POINT	TRAVEL TIME TO DELTA OUTFLOW	LOSSES FROM CONTROL POINT TO DELTA OUTFLOW	FLOWS INCLUDED IN DELTA AND WATER QUALITY REGULATORY OFFSETS
Sacramento River	Keswick	5 days	0%	Yes
Feather River	Oroville Complex	3 days	0%	Yes

CONTRIBUTION	DOWNSTREAM CONTROL POINT	TRAVEL TIME TO DELTA OUTFLOW	LOSSES FROM CONTROL POINT TO DELTA OUTFLOW	FLOWS INCLUDED IN DELTA AND WATER QUALITY REGULATORY OFFSETS
Yuba River	Marysville Gage	2 days	0%	Partially[1]
American River	Nimbus	1 day	0%	Yes
Mokelumne River	Camanche Dam	1 day	0%	No
Putah Creek	Putah Diversion Dam	2 days	0%	No
South Sutter Water District (SSWD) Bear River	Camp Far West Reservoir	2 days	0%	Yes
Nevada Irrigation District (NID) Bear River	Rollins Reservoir through Camp Far West Reservoir	2 days	0%	Partially[2]
Friant	Vernalis	1 day	0% (losses to Vernalis are part of recapture accounting)	Partially[3]
CVP/SWP Exports	CCF/JPP	0 day	0%	No
Water Purchases	Varies	Varies	0% for Sacramento 10% for San Joaquin	Partially[4]

CCF = Clifton Court Forebay, JPP = Jones Pumping Plant

[1] Yuba River Component A water is not included in Delta regulatory offsets and is accounted for according to the Yuba River Accord. Yuba River Component B water is included in Delta regulatory offsets.

[2] NID Bear River contributions from Component 1 are not included in the offsets.

[3] Increases in flow at Vernalis due to forgone recapture of SJRRP flows upstream of the Delta are included in regulatory offsets. Flows resulting from forgone recapture downstream of Vernalis are treated consistently with forgone exports and are not included in Delta regulatory offsets.

[4] Flows resulting from water purchases from tributary sources are included in regulatory offsets. Flows resulting from further export reductions are treated consistently with forgone exports and are not included in Delta regulatory offsets.

B.1.4.3 Verification of Increased Delta Outflow

This section describes how increased Delta outflows under the VA pathway will be verified under excess and balanced conditions and when different conditions or requirements are controlling Project operations, as well as accounting to ensure that HRL water does not result in increased exports or diversions by CCWD or reduced releases by the Projects. When the Delta is in excess conditions, verification involves identification of reference exports and CCWD diversions as described in Section B.1.4.1 and comparing that to actual exports and CCWD diversions to ensure that the total volume of HRL flows is provided through the Delta.

When the Delta is in balanced conditions, verification that HRL flows have been provided to Delta outflow will be achieved by adding the HRL volumes described in the subsequent sections to the flows that would be provided under conditions before implementation of the VA pathway to achieve applicable Delta outflow levels to determine a new required Delta outflow level. Similarly, when the Delta is in balanced conditions and water quality requirements are controlling operations, HRL flows will be verified by estimating the water quality that would have been provided under conditions before implementation of the VA pathway, including required salinity levels and buffers or margins of safety that are added to ensure that salinity levels are not exceeded, and translating the flows provided through HRL flows into improvements in salinity (referred to as salinity offsets) and determining a lower salinity level that will be operated to. The following sections describe how HRL flows will be verified under various conditions in more detail.

Whether the Delta is in excess or balanced conditions and export constraints are controlling exports, export constraint calculations will be adjusted to ensure that VA flows are provided as Delta outflow and not used to reduce Project export restrictions. If the reference conditions for the SWP and CVP are controlled by different regulations, the reference exports and resulting outflow will be calculated separately for the SWP and for the CVP. The following sections include specific accounting for each regulatory constraint.

Verification of Additive Delta Outflows When the Delta Is in Excess Conditions

When the Delta is in excess conditions, exports are limited by demands, capacity limitations (pumping, conveyance, or storage), or regulatory constraints. To verify that HRL tributary flows are bypassed and contribute to Delta outflow, the Projects and CCWD are required to track and report the Project exports and CCWD diversions, Old and Middle River Reverse Flow Limits (OMR), D-1641 San Joaquin Inflow to Export Ratio Limit, and D-1641 Export to Inflow Ratio Limit daily, including applicable averaging periods, for reference conditions as compared to HRL conditions to demonstrate that the differences in regulatory limits correspond to the difference in the HRL flow volumes that are required to be bypassed through the Delta, as described further below.

Old and Middle River Reverse Flow Limits

OMR limits can be a controlling factor limiting exports from November through June. The OMR index is a function of the San Joaquin River flows at Vernalis, south Delta exports, south Delta depletions, and the installation of barriers in the south Delta. Additional details related to OMR reverse flow limits are available in the 2024 LTO. At times when the OMR limit changes (e.g., from -5,000 cubic feet per second [cfs] to -3,500 cfs), it can take several days of lag to reach the limit due to the averaging period allowed in the OMR limits.

To verify that exports are equivalent to what they would be prior to implementation of the VA pathway when OMR is controlling exports, reference OMR must be more positive than the operable limit. Reference OMR will be calculated by substituting the reference San Joaquin River flow at Vernalis (SJR_v Ref) and reference exports (JPP and CCF) in place of the San Joaquin River flow at Vernalis (SJR_v) and observed exports in Equation B.1-1 below, where any HRL flow changes originating from the San Joaquin tributaries are subtracted from the observed flow at Vernalis as represented in the following equation:

> SJR_v Ref = Observed San Joaquin River flow at Vernalis minus HRL flow changes from the San Joaquin River and its tributaries.

The OMR index is currently estimated using Equation B.1-1, described in Hutton (2008)[1]:

Equation B.1-1. Estimation of OMR Index

$$OMR = A*SJR_v + B*(CCF + JPP + CCWD + GCD_{SD}) + C$$

Where:

SJR_v = San Joaquin River at Vernalis

CCF = Clifton Court Forebay diversion

JPP = Jones Pumping Plant diversion

CCWD = Contra Costa Water District Old and Middle River diversion

GCD_{SD} = Gross channel depletion in the South Delta[2]

Coefficients A, B, C, as reported by Hutton (2008), are listed in Table B.1-2.

Table B.1-2. OMR Coefficient Values

BARRIERS		SAN JOAQUIN RIVER AT VERNALIS (CFS)	COEFFICIENTS		
HEAD OF OLD RIVER	GRANT-LINE CANAL		A	B	C
Out	Out	< 16,000	0.471	-0.911	83
Out	Out	16,000–28,000	0.681	-0.940	-3008
Out	Out	> 28,000	0.633	-0.940	-1644
Out	In	All	0.419	-0.924	-26
In (Spring)	Out/In	All	0.079	-0.940	69

[1] Hutton P. 2008. A Model to Estimate Combined Old & Middle River Flows. Sacramento (CA): Metropolitan Water District of Southern California.

[2] Gross channel depletion in the South Delta can be estimated by ¼ of the total gross channel depletions as defined in D-1641.

BARRIERS		SAN JOAQUIN RIVER AT VERNALIS (CFS)	COEFFICIENTS		
HEAD OF OLD RIVER	GRANT-LINE CANAL		A	B	C
In (Fall)	Out/In	All	0.238	-0.930	-51

cfs = cubic feet per second

D-1641 San Joaquin Inflow to Export Ratio Limit (San Joaquin 1:1)

Export limits based on San Joaquin River flow at Vernalis included in D-1641 Table 3 are calculated as a maximum export rate of 1,500 cfs or 100 percent of the 3-day running average of San Joaquin River flow at Vernalis, whichever is greater (see D-1641 for additional details on the San Joaquin 1:1 export limit).

To verify that HRL flows are additive to reference conditions and not exported when this regulatory constraint is controlling, DWR and Reclamation must demonstrate that the requirement would be met without HRL flow changes from the San Joaquin River at Vernalis and without any forgone exports or changes in exports due to HRL south of Delta water purchases. This can be done by showing that reference exports are less than the greater of 1,500 cfs or the 3-day running average observed San Joaquin River flow at Vernalis minus HRL flow changes.

D-1641 Export to Inflow Ratio Limit (E:I Ratio)

Export limits based on Delta inflow are included in D-1641 Table 3. Table 3 defines how to determine the E:I ratio (i.e., the export as a percent of Delta inflow) dependent on varying Delta conditions and months. From February through June, exports must be less than 35 or 45 percent of total Delta inflow, and from July through January, exports must be less than 65 percent of total Delta inflow (see D-1641 for additional details on the E:I ratio export limit).

To verify that HRL tributary flows are additive to reference conditions and not exported when this regulatory constraint is controlling, DWR and Reclamation must demonstrate that the E:I ratio limit would be met without HRL flow changes from upstream tributaries included in “Delta and Water Quality Regulatory Offsets” in Table B.1-1 and any forgone exports and water purchases.

Verification of Additive Delta Outflows When the Delta Is in Balanced Conditions

When the Delta is in balanced conditions, Delta outflow requirements or water quality requirements met by Delta outflow are controlling SWP and CVP Delta operations. This section describes how to calculate Export to Inflow ratios, Minimum Delta Outflows, and water quality requirements that include additional HRL flows to verify the flows are additive to reference Delta outflow conditions and not exported or diverted by CCWD.

D-1641 Export to Inflow Ratio Limit (E:I Ratio)

Export limits from D-1641 as a ratio of Delta inflow can control operations when the Delta is in balanced conditions or in excess conditions in the same ways. Accordingly, the methods for verification of increased Delta outflows when the Delta is in balanced conditions, are the same as described above for excess conditions.

Minimum Delta Outflow

D-1641 Tables 3 and 4 include requirements for the Projects to maintain minimum Delta outflows for the protection of fish and wildlife beneficial uses. These requirements vary based on month, hydrologic conditions, and water year type.

To verify that the HRL flow commitments are additive to the reference operation when the Delta is in balanced conditions, the daily HRL flow rates described in Section B.1.4.2, including forgone exports and water purchases, are required to be added to the minimum Delta outflow requirements in D-1641 Tables 3 and 4, resulting in an increased Delta outflow requirement that includes the HRL flows from the tributaries, export reductions, and water purchases.

Water Quality

D-1641 Tables 1 through 4 include requirements for the Projects to maintain salinity below maximum levels to protect municipal, agricultural, and fish and wildlife beneficial uses. The maximum salinity requirements vary by location, month, water year type and hydrologic conditions. To verify that the HRL flow commitments are in addition to the reference operation when the Delta is in balanced conditions, the Projects will operate to modified water quality requirements that account for the decrease in electrical conductivity (EC) associated with the increase in flow from the HRL flow commitments. These water quality “offset” requirements were developed using the “G-model” (described below) assuming steady state conditions.

The G-model is a simple method described in Denton and Sullivan (1993)[3] that relates current and antecedent Delta outflow to salinity at various locations in the Delta. The salinity offsets listed in Table B.1-3 will be subtracted from each of the salinity objectives listed in D-1641 to create modified maximum salinity requirements that apply when HRL flows are being bypassed through the Delta and vary based on the volume of HRL flows being bypassed. Monthly offset water quality requirements will be developed by averaging the forecasted tributary HRL increased flows from the tributaries specified in in Table B.1-1 over the calendar month. If at the end of the month, the observed tributary HRL flows differ from the forecasted flows, the offsets will be adjusted in the following month. DWR and Reclamation will be required to refine the methods to use a

[3] Denton, R.A. and G.D. Sullivan. 1993. Antecedent Flow-Salinity Relations: Application to Delta Planning Models. Contra Costa Water District. Concord, CA.

shorter averaging period if a monthly average change in water quality is shown not to adequately correspond to the correct volumes of HRL outflow. Figure B.1-1 describes the approach to verifying that the HRL flows are protected through the Delta when water quality requirements are controlling.

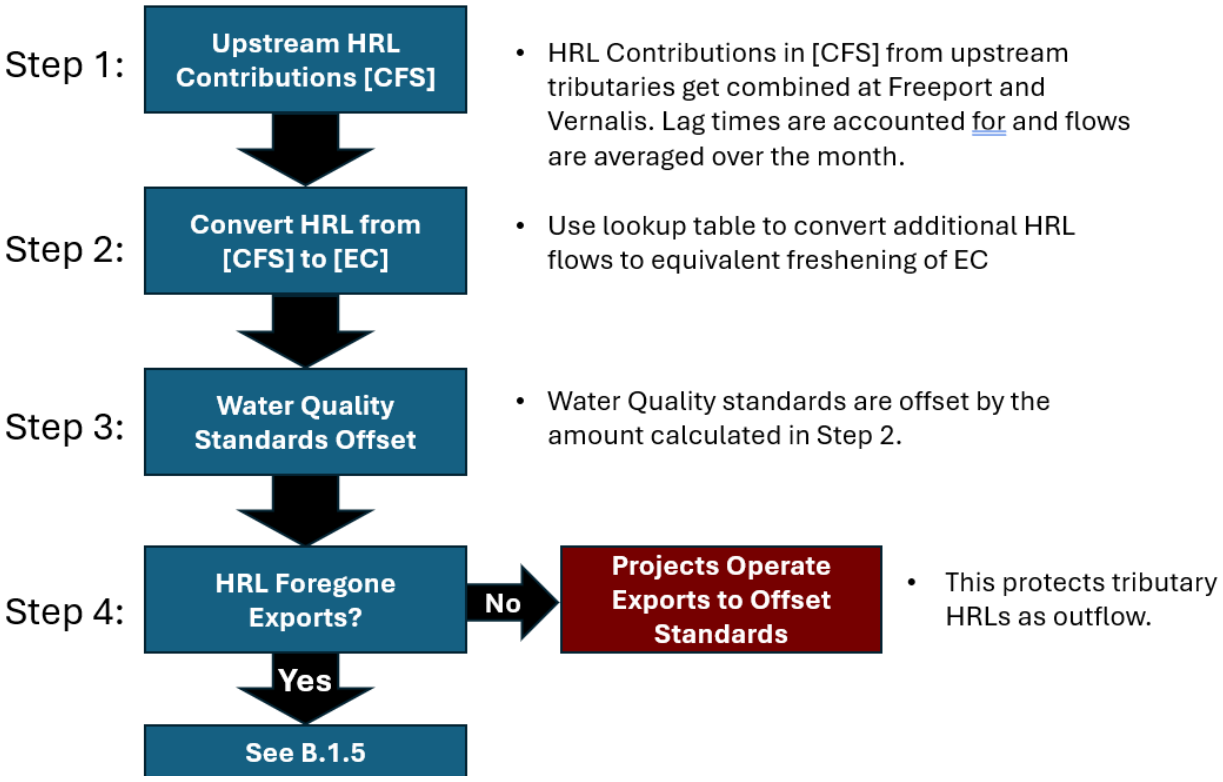


Figure B.1-1. Flowchart of Delta accounting for tributary HRL flows and water quality.

Compliance with salinity requirements will be evaluated according to the regulatory offsets determined from Table B.1-3 using averaging periods as stated in D-1641. Hydrologic conditions that trigger Port Chicago requirements described in footnote [d] of Table 4 of D-1641 will be based on the reference operation to ensure that additional HRL flows do not trigger Port Chicago requirements when they would not be triggered absent the HRL flows.

Table B.1-3. Salinity Offsets for HRL Increases in the Net Delta Outflow Index

FLOW CHANGE (CFS)	PORT CHICAGO	CHIPPS	COLLINSVILLE	EMMATON (450)	EMMATON (630)	EMMATON (1140)	EMMATON (1670)	EMMATON (2780)	JERSEY POINT (450)	JERSEY POINT (740)	JERSEY POINT (1350)	JERSEY POINT (2200)
100	20	40	60	10	20	40	70	121	10	20	40	70
200	40	90	110	20	40	90	130	236	20	40	80	140
300	60	130	160	30	60	130	200	346	30	60	120	200
400	70	170	220	40	80	160	260	451	40	70	150	270
500	90	210	270	50	90	200	310	551	40	90	190	330
600	110	250	320	60	110	240	370	646	50	110	220	390
700	130	290	360	70	120	270	420	736	60	120	260	440
800	150	330	410	80	140	300	470	823	70	140	290	500
900	160	370	460	90	150	330	520	905	70	150	320	550
1000	180	410	500	100	160	360	560	984	80	170	350	600
1100	200	450	550	100	180	390	600	1058	90	180	380	650
1200	210	480	590	110	190	410	640	1130	90	190	400	700
1300	230	520	630	120	200	440	680	1198	100	210	430	740
1400	250	550	680	120	210	460	720	1262	110	220	460	790
1500	260	590	720	130	220	480	750	1324	110	230	480	830
1600	280	620	760	130	230	500	790	1383	120	240	510	870
1700	300	660	790	140	240	520	820	1439	120	250	530	910
1800	310	690	830	140	250	540	850	1493	130	270	550	950
1900	330	720	870	150	260	560	880	1544	130	280	570	990
2000	350	750	910	150	270	580	910	1592	140	290	590	1020
2100	360	780	940	160	270	600	930	1638	140	300	610	1060
2200	380	810	980	160	280	610	960	1683	150	300	630	1090
2300	390	840	1010	170	290	630	980	1725	150	310	650	1120
2400	410	870	1040	170	290	640	1010	1765	160	320	670	1150
2500	430	900	1070	170	300	660	1030	1803	160	330	690	1190
2600	440	930	1110	180	310	670	1050	1839	160	340	700	1210
2700	460	960	1140	180	310	680	1070	1874	170	350	720	1240
2800	470	990	1170	180	320	690	1090	1907	170	350	740	1270
2900	490	1010	1200	190	320	710	1100	1939	180	360	750	1300
3000	500	1040	1230	190	330	720	1120	1969	180	370	770	1320
3100	520	1070	1250	190	330	730	1140	1997	180	380	780	1340
3200	530	1090	1280	200	340	740	1150	2025	190	380	790	1370
3300	550	1120	1310	200	340	750	1170	2051	190	390	810	1390
3400	560	1140	1340	200	350	760	1180	2076	190	390	820	1410

FLOW CHANGE (CFS)	PORT CHICAGO	CHIPPS	COLLINSVILLE	EMMATON (450)	EMMATON (630)	EMMATON (1140)	EMMATON (1670)	EMMATON (2780)	JERSEY POINT (450)	JERSEY POINT (740)	JERSEY POINT (1350)	JERSEY POINT (2200)
3500	570	1170	1360	200	350	760	1200	2099	190	400	830	1430
3600	590	1190	1390	210	350	770	1210	2122	200	410	840	1450
3700	600	1210	1410	210	360	780	1220	2143	200	410	860	1470
3800	620	1240	1440	210	360	790	1230	2164	200	420	870	1490
3900	630	1260	1460	210	360	800	1240	2183	210	420	880	1510
4000	650	1280	1480	210	370	800	1250	2202	210	430	890	1530
4100	660	1300	1500	220	370	810	1260	2219	210	430	900	1550
4200	670	1320	1530	220	370	810	1270	2236	210	440	910	1560
4300	690	1350	1550	220	380	820	1280	2252	210	440	920	1580
4400	700	1370	1570	220	380	830	1290	2268	220	440	930	1590
4500	710	1390	1590	220	380	830	1300	2282	220	450	930	1610
4600	730	1410	1610	220	380	840	1310	2296	220	450	940	1620
4700	740	1430	1630	220	380	840	1320	2310	220	460	950	1640
4800	750	1450	1650	230	390	850	1320	2322	220	460	960	1650
4900	770	1460	1670	230	390	850	1330	2334	230	460	970	1660
5000	780	1480	1690	230	390	850	1340	2346	230	470	970	1680

The number in parentheses after Emmaton and Jersey Point in the column headers refers to the operative EC objective in units of micromhos per centimeter (µmhos/cm) (1000 µmhos/cm = 1 mmhos/cm [millimhos per centimeter] = 1 dS/m [deciSiemens per meter]). For each value of increased flow in the flow change column, the values in the table represent the EC offsets (in µmhos/cm) that will be subtracted from each of the salinity objectives listed in D-1641 to create new required maximum salinity requirements when HRL flows are contributing to Delta outflows.

B.1.4.4 Planning and Reporting Requirements

i. Flow Schedule Reporting – DWR and Reclamation are required to provide to the State Water Board monthly and seasonal flow schedule projections for Delta outflow, forgone exports, and reference operations for the Delta. The information shall be provided by February 1 and monthly thereafter until all VA flows included in Delta and water quality regulatory offsets have been protected through the Delta.

i. Daily and Retrospective Accounting of HRL Flows and Conditions – DWR and Reclamation are required to publish daily accounting of HRL flows that include reference Delta outflow, reference SWP and CVP Delta exports (and CCWD diversions as applicable), factors controlling Delta operations including averaging period, additive HRL flows to Delta outflow, HRL forgone exports and water quality offsets for each applicable water quality compliance location. Additionally,

DWR and Reclamation are required to show how all Delta requirements would have been met in reference conditions and were met with HRL flows. Annual reports are required to be submitted with the reporting required in Bay-Delta Plan Section 4.4.9. In addition, DWR and Reclamation are required to submit the following summary reports, due July 31:

(a) Weekly retrospective analyses of Delta operations verifying that the HRL flows resulted in increased Delta outflow above reference conditions and the volume of increased Delta outflows resulting from HRL flows.

(b) Monthly summary reports including total weekly analyses verifying that the full HRL commitments were met, including a daily running accounting of Delta operations and daily volumes from tributary HRL flows.

(c) Annual report summarizing the weekly analyses, verifying that the full HRL commitments were met, including a daily running accounting of Delta operations and daily volumes from tributary HRL participants.

B.1.5 Forgone Delta Exports

B.1.5.1 Introduction

This section describes the accounting procedures for forgone Delta Exports that the Delta HRL participants identified in Table B.1-18 will be required to follow in order to utilize the VA pathway identified in the Bay-Delta Plan. Water rights in the Delta that are not included in Table B.1-18 or otherwise included in the lists of HRL water rights will be subject to the regulatory pathway described in the Bay-Delta Plan. The accounting procedures described in this appendix are in addition to requirements included in Section 4.4.9 of the Bay-Delta Plan.

B.1.5.2 Description of Forgone Exports Under the Voluntary Agreements Pathway

In each applicable year, HRL participants responsible for providing SWP and CVP export contributions must increase Delta outflow by reducing exports from JPP and CCF by the volumes of net additive contributions to Delta outflows in Table B.1-4 consistent with the default plan and flexibility brackets described in Bay-Delta Plan Section 4.4.9. Exports must be reduced below reference conditions to result in flows above Delta outflow reference conditions (base flows) described in this appendix. Water year types for the forgone export commitments will be determined as detailed in Section B.1.3. HRL export reductions reflected in Table B.1-4 will generally be limited to quantities of unstored water for export in the Delta. Flows required by other agreements or related provisions, such as the Water Storage Investment Program, do not count toward HRL commitments. Forgone export accounting calculations will occur after the Delta accounting steps for tributary HRL flows described in Section B.1.4. Water provided through the water purchase program attributed to forgone exports will be added to the totals identified in Table B.1-4, and considered as additional forgone exports following

the same provisions as the volumes listed in Table B.1-4. Forgone exports to meet water purchase commitments are not limited to quantities of unstored water for export in the Delta.

Table B.1-4. Forgone Export Commitment Volumes by Water Year Type

CRITICAL	DRY	BELOW NORMAL	ABOVE NORMAL	WET
0 TAF	125 TAF	125 TAF	175 TAF	0 TAF

TAF = thousand acre-feet

B.1.5.3 Reference Conditions for Delta Exports

Reference conditions for Delta exports are the flows, water diversions, and reservoir operations as they would occur prior to the VA pathway being implemented consistent with the analyses supporting this update to the Bay-Delta Plan. The primary reference condition provisions related to HRL forgone export commitments are defined further below.

i. State Water Board Revised Decision 1641 (D-1641) – Reference conditions for forgone exports include flow and reservoir storage conditions as they would occur before implementation of the VA pathway to meet Bay-Delta Plan water quality and flow objectives included in D-1641, including salinity (EC and chloride) and Delta inflow and outflow objectives. D-1641 also includes objectives for Delta Cross Channel Gate closure requirements and limits on exports from the Delta. The D-1641 requirements vary by month, water year type, and hydrologic condition. As reference flows for forgone exports are also affected by upstream reference flows, including on SWP and CVP tributaries, reference flows for forgone exports must also align with the reference flows described in subsequent sections of this appendix.

ii. 2024 Record of Decision for the Long-Term Operation of the Central Valley Project and State Water Project and Associated Biological Opinions (2024 LTO) – Reclamation and DWR formulated the 2024 Long-Term Operations plan for the CVP and SWP in coordination with federal and state regulatory agencies. The 2024 LTO includes provisions for Delta operations, as well as upstream operations of the SWP and CVP that are all part of reference conditions, including OMR flow restrictions, Fall X2 requirements, Suisun Marsh salinity control gate operations, temperature management and other provisions for operations of the Sacramento and American Rivers, and other provisions. Export restrictions for longfin smelt that result in a less negative OMR requirement than other OMR actions in place would be excluded from the reference conditions and may result in increases to Delta outflow that would be included in the accounting of forgone export volumes. In the event of a Relevant Change in CVP or SWP operations as defined in Section 4.4.9.1, the additional provisions of Section 4.4.9.1 apply. As appropriate, this accounting document will be updated, as

approved by the Executive Director through a public process with opportunity for public comment, to include provisions needed to account for the requirements of Section 4.4.9.1.

iii. Agreement Between the United States of America and the Department of Water Resources of the State of California for Coordinated Operation of the Central Valley Project and the State Water Project (COA) – Reference conditions include export and other conditions as they would occur before implementation of the VA pathway to meet any requirements and criteria from the COA. In the event the COA is amended in a manner that affects reference conditions, this accounting document will be updated as appropriate, as approved by the Executive Director through a public process with opportunity for public comment.

iv. Exports and In-Basin Diversions and Deliveries – Reference conditions for forgone exports include resulting Delta flow and other conditions reflecting levels of water diversions from the Delta, including exports, diversions by CCWD, and other diversions as they would occur before implementation of the VA pathway.

v. U.S. Army Corps of Engineers (USACE) Pumping Limits – Reference conditions for the Delta include applicable USACE pumping and diversion limits.

vi. Regulatory Offsets – Reference conditions for accounting for forgone Delta exports include the regulatory offsets described in Section B.1.4 intended to demonstrate that the Projects are not exporting additive HRL inflows from HRL tributaries.

B.1.5.4 Verification of Additive Delta Outflow

Determination of actual forgone exports requires evaluation of actual operational conditions relative to reference conditions. To demonstrate that forgone Delta exports produce net additive Delta outflow above reference conditions as required by Bay-Delta Plan Section 4.4.9, the Projects must demonstrate that each of the flow-based controlling factors described in Section B.1.4 would have been met if the quantity of forgone exports was added to observed exports at JPP and CCF. To the degree that any flow-based requirement (minimum Delta outflow, OMR index, D-1641 Export to Inflow ratio, D-1641 San Joaquin Inflow to Export ratio) controls reference exports, forgone exports can be determined by simple subtraction of actual exports from reference exports.

However, because export operations affect water quality throughout the Delta, it is also necessary to demonstrate that D-1641 water quality standards with offsets to account for protection of tributary HRL inflows would have been met absent forgone exports. The following procedures are required to be used to determine reference conditions for HRL forgone exports to ensure that incremental changes to water quality associated with forgone exports are appropriately accounted for:

i. An initial estimate of reference Delta outflow is determined that would be expected, based on best available information, to produce water quality throughout the Delta that meets D-1641 water quality requirements with the tributary offsets calculated in Section B.1.4 (offset D-1641 requirements).

ii. The G-Model (see Equation B.1-2) is run assuming reference antecedent Delta outflows and the initial estimate of reference outflow from step (i) to produce an estimate of EC (ECref) for each applicable water quality compliance location.

iii. The G-Model is run assuming observed Delta outflow and observed antecedent Delta outflows to calculate a value of EC (ECob) at each compliance location.

iv. ECob is subtracted from ECref for each location to estimate the water quality improvement associated with forgone exports (ECincrement) for each compliance location. This is distinct from the offset calculated in Section B.1.4.

v. A check is conducted to determine if the actual observed EC + ECincrement is less than the offset D-1641 requirements for each location.

vi. If the EC + ECincrement for each location is less than the offset D-1641 requirements, then return to step (i) and decrease the reference Delta outflow. If the EC + ECincrement is greater than the offset D-1641 requirement for any location, then return to step (i) with a larger reference Delta outflow.

vii. Repeat steps (i)–(vi) until the minimum reference Delta outflow that satisfies the condition for each compliance location where observed EC + ECincrement is less than the offset D-1641 requirement. This is the minimum reference Delta outflow that meets water quality requirements.

viii. The reference exports are the exports that could occur while achieving the minimum reference Delta outflow that meets water quality requirements calculated in step (vii) and the flow-based export limitations determined in Section B.1.4.

Equation B.1-2. G-Model Equation for Outflow-Salinity Relationship

$$S(t) = (S_o - S_b) * EXP(-\alpha * G(t)) + S_b$$

$$G = Q_i / (1 + (Q_i / G_{i-1} - 1) * EXP(-Q*t / \beta))$$

Where:

S_t = Salinity

S_o = Constant ocean salinity at x = 0

S_b = Constant upstream river salinity at x = ∞

α = Empirical Constant

G = Antecedent Outflow

Q_i = Volumetric Flow Rate

x = Longitudinal distance in the upstream direction

β = Empirical Constant

t = Seconds in day

Table B.1-5. Values for the Empirical Constants in the G-Model Equation

LOCATION	β	S_b	α	S_0
Port Chicago (PCT)	2.1e10	150	0.00007	18593.0
Sacramento River at Mallard Island (MAL)	2.1e10	150	0.000141	15577.9
Collinsville (CLL)	2.1e10	150	0.000211	12060.3
Jersey Point (JER)	2.1e10	175	0.000352	3517.6
Emmaton (EMM)	2.1e10	200	0.000480	6000.0

B.1.5.5 Planning and Reporting Requirements

DWR and Reclamation must comply with the planning and reporting requirements described in Section B.1.4.4.

B.1.6 Water Purchases

The HRL flow commitments include contributions from three water purchase programs including: (1) fixed price PWA purchases, (2) market price PWA purchases, and (3) permanent state water purchases. While the flow commitments differ among the purchase programs, the general accounting provisions described below apply to each program. Table B.1-6 includes the total annual purchase commitments by water year type. Water year types will be determined using the approach detailed in Section B.1.3. The fixed price purchases are divided among four groups of public water agencies including Sacramento Valley North of Delta, Central Valley Project South of Delta, Westlands Water District South of Delta, and State Water Project South of Delta.

Table B.1-6. Annual Public Water Agency Purchase Program Commitments by Water Year Type

WATER YEAR	CRITICAL (TAF)	DRY (TAF)	BELOW NORMAL (TAF)	ABOVE NORMAL (TAF)	WET (TAF)
Fixed Price Purchase (total)	3	63.5	84.5	99.5	27
Sacramento Valley North of Delta	0	10	10	10	0
Central Valley Project South of Delta	0	17.5	31.5	40	0
Westlands Water District South of Delta	3	6	15	19.5	27
State Water Project South of Delta	0	30	30	30	0
Market Price Purchases	0	50	61	85	0
Permanent State Water Purchases	65	108	9	52	123

B.1.6.1 Description of Water Purchase Program HRL Flow Commitments

Fixed Price PWA Purchases

In each applicable year, HRL participants will provide 3,000, 63,500, 84,500, 99,500, and 27,000 acre-feet (AF) annually in critical, dry, below normal, above normal, and wet water year types, respectively, of fixed price water purchases from CVP and SWP contractors to increase net Delta outflows consistent with the default plan and flexibility brackets described in Bay-Delta Plan Section 4.4.9, above reference conditions described in this appendix through water right sales or water transfers, including long-term water transfers, from willing sellers who have active legal rights to a supply of water that is available at their priority of right. CVP, SWP, and Westlands Water District South of Delta purchases are likely to be provided through additional reductions in Delta exports (i.e., forgone exports). The additional forgone exports will be added to, and treated the same as, the forgone export commitments detailed in Section B.1.5. North of Delta purchases are likely to be provided through land fallowing and groundwater substitution.

Market Price PWA Purchases

In each applicable year, HRL participants will provide 50,000, 61,000, and 85,000 AF (inclusive of Mokelumne River HRL purchases) annually in dry, below normal, and above normal water year types, respectively, of market price water purchases from willing sellers to increase net Delta outflows consistent with the default plan and flexibility brackets described in Bay-Delta Plan Section 4.4.9, above reference conditions described in this appendix through water right sales or water transfers, including long-term water transfers, from willing sellers who have active legal rights to a supply of water that is available at their priority of right.

Permanent State Water Purchases

In each applicable year, HRL participants will provide 65,000, 108,000, 9,000, 52,000, and 123,000 AF annually in critical, dry, below normal, above normal, and wet water

year types, respectively, of permanent state water purchases from willing sellers to increase net Delta outflows consistent with the default plan and flexibility brackets described in Bay-Delta Plan Section 4.4.9, above reference conditions described in this appendix through water right sales or water transfers, including long-term water transfers, from willing sellers who have active legal rights to a supply of water that is available at their priority of right.

HRL participants are in the process of identifying purchases to fulfill this flow commitment. As those purchases are identified, this appendix will be updated as appropriate to identify the specific sources and accounting methods for those commitments, after an opportunity for public review and comment. Any purchases not in place 90 days prior to each year's purchase commitment will be met with additional market price purchases.

B.1.6.2 Reference Conditions

Specific reference conditions will need to be determined for specific purchases when those purchases are identified, and this appendix will be updated accordingly as appropriate.

B.1.6.3 Accounting of Reference Conditions and HRL Flow Commitment

During the term of the VA pathway, HRL participants must coordinate implementation and monitoring decisions as outlined in Section B.1.3.

i. Reference and Flow Commitment Tracking and Accounting – Annually, starting by February 1 and weekly thereafter up to and during the time period in which HRL flows may be provided and land fallowing, groundwater substitution, and forgone exports may occur, HRL participants must coordinate and share through the public website tracking system as identified in Section B.1.3 the information listed below for the following components: (1) forecasted and observed reference conditions, (2) planned HRL flow commitments for the coming month and season, and (3) completed HRL flow commitments to date. The information must demonstrate that the additional HRL Delta inflow and Delta outflow commitments are provided by the purchases, and that these flows contribute to additive Delta outflows above reference conditions consistent with Sections B.1.6.1 and B.1.6.2 above and Section 4.4.9 of the Bay-Delta Plan. The following specific information must be provided:

    (a) Running total water purchases within each water purchase program.

    (b) Water supply diversions and deliveries that would have occurred under reference conditions and those actually delivered.

    (c) Current water year type determinations.

(d) Whether HRL participants will adhere to the default HRL flow schedule of releases or provide flows on a different schedule consistent with the flexibility brackets identified in Bay-Delta Plan Section 4.4.9.

(e) Decision support tools and machine-readable documentation of components used to inform operations and calculation of reference conditions and HRL flows.

B.1.6.4 Verification of Additive Flow

To demonstrate that HRL flows provided through water purchases are net additive flows above reference conditions as required by Bay-Delta Plan Section 4.4.9, HRL participants providing flow commitments through water purchases must demonstrate the following:

i. Water Right Verification – HRL participants must submit information to the State Water Board to confirm that the rights being used for water purchases have been regularly exercised by the seller, that the associated beneficial use of water is documented, that the water is available for diversion under the right's priority date, that the water provided would have been consumptively used absent implementation of the VA pathway and is not being consumptively used under the VA pathway. HRL participants must provide water right accounting to ensure that all water purchased to comply with Bay-Delta Plan Section 4.4.9 was made available under valid active water rights where water is available under that priority of right at the time it is being provided consistent with Section 4.4.9 of the Bay-Delta Plan (i.e., the water right is not subject to curtailment). To the extent that HRL participants bypass or release water from storage in advance of fallowing, groundwater substitution, or forgone exports taking place under another water right, both sets of rights must be identified at least 90 days in advance of the land fallowing, groundwater substitution, forgone exports, or the bypass or release, whichever occurs first. Water right accounting must be provided to document both bypasses of inflows, or releases of previously stored water and reductions in use by other parties under active valid un-curtailed water rights using fallowing or groundwater substitution.

ii. Land Fallowing and Groundwater Substitution – To account for additive flows made available by land fallowing and groundwater substitution, HRL participants must meet the requirements of Sections B.1.7 and B.1.8, respectively.

iii. Forgone Exports – To account for additive flows made available by forgone Delta exports, HRL participants must meet the requirements of Section B.1.5.

B.1.7 Land Fallowing

HRL participants on the Sacramento and Feather Rivers intend to rely on land fallowing to provide all or a portion of their HRL flow commitments (see Bay-Delta Plan

Section 4.4.9). Land fallowing is also expected to be used for water purchases under the VA pathway. To a large extent, HRL flows associated with land fallowing will be provided in advance of actual land fallowing, since the majority of HRL flows will be provided during the January through June time period in advance of all or part of the irrigation season. In some cases, flow commitments met through fallowing may also be provided consistent with the timing of diversion reductions due to fallowing.

Where HRL flows are provided in advance of reduced diversions due to land fallowing, the flows will be provided through bypasses of water or releases of stored water from Shasta, Folsom, Oroville, or possibly other reservoirs. Land fallowing will provide for replenishment of reduced storage compared to reference conditions in Shasta, Folsom, Oroville, or other applicable reservoirs caused by bypassing inflows or releasing water from storage to meet the HRL flow commitments. Applicable water right holders or contractors in turn will reduce diversions that they would have otherwise had the right to make under a valid water right or contract and will fallow land or reduce rice straw decomposition as necessary to reduce those diversions. This land fallowing will in turn reduce demand on the reservoirs over the course of the irrigation season, thus refilling the volumes of HRL flows previously provided from reservoirs.

To quantify and verify HRL flows, applicable HRL participants must develop and implement land fallowing protocols that comply with the requirements in the following sections.

B.1.7.1 Review and Approval Process

At least 90 days in advance of the time period water is planned to be provided to meet HRL flow commitments, HRL participants making water available through land fallowing must provide a prospective list of water rights under which fallowing will occur, and by April 8 must provide their fallowing plans for approval to the Deputy Director for Water Rights and DWR, Reclamation, or other applicable reservoir operators adjusting reservoir operations. The plans must identify the following:

i. Water rights under which water is being made available through both reservoir bypasses or storage releases and fallowing.

ii. The time period for reservoir bypasses or storage releases and fallowing.

iii. The lands proposed to be fallowed, including location and landowner information and contact information.

iv. Information to demonstrate that the fallowing will be in addition to reference conditions before implementation of the VA pathway, including normal crop rotation and fallowing practices.

v. Verification of the reference cropland planting conditions absent the VA pathway based on prior years' known crop acreage.

vi. Identification of the specific parcels or sub-parcels to be fallowed.

vii. Historic cropping information for the previous ten years, including farmable acreage, total acreage, and acreage by crop.

viii. Maps showing the agency or farm boundary; field boundaries; field identification numbers (if applicable); fields currently irrigated; fields routinely not irrigated or part of normal crop rotation; and fields to be fallowed to provide water for the VA pathway, along with the specific crop type(s) that would be grown if those fields were not fallowed.

ix. Identification of acreage that is in the process of shifting to an alternate crop or agricultural practice that requires the land remain idle for a certain transition period, such as shifting to organic cultivation or permanent crops. This acreage will be excluded from the calculation of reference conditions.

B.1.7.2 Use of Evapotranspiration of Applied Water

Evapotranspiration of Applied Water (ETAW), defined as the portion of applied water that is evaporated from the soil and plant surfaces and used by the crop, is used to determine the amount of water made available for HRL flow commitments through land fallowing. ETAW values should be based upon crop water requirements reflecting average rainfall and evaporative demand and should not include the portion of the crop evapotranspiration originating as precipitation during the growing season or stored as soil moisture within the root zone before the growing season. ETAW also does not include applied water lost as deep percolation to groundwater or conveyance losses. The approved ETAW values will be multiplied by fallowed acres to determine water savings from land fallowing under the VA pathway.

ETAW for Sacramento and Feather River

To provide a combined 150 thousand acre-feet (TAF) of additive Delta outflow above the reference conditions, Sacramento River and Feather River HRL participants will fallow up to 23,256 acres and 11,628 acres of agricultural lands, respectively. The maximum acreage of land to be fallowed is based on providing a combined total flow commitment of 150 TAF from the Sacramento and Feather Rivers divided by a rice crop ETAW and decomposition rate of 4.3 acre-feet/acre. Requests to adjust this rice crop ETAW and decomposition rate, may be approved, after the initial eight-year term of the VA pathway, by the Executive Director after opportunity for public review and comment. Any requests must be accompanied by supporting technical justification and coordinated with DWR and Reclamation.

ETAW for Water Purchase Programs

Table B.1-7 shows the default crop ETAW values that will be used to determine the amount of water made available by land fallowing associated with water purchase programs. ETAW values for fallowing under the VA pathway listed in Table B.1-7 are

subject to modification and approval by the Deputy Director for Water Rights and must be submitted at least 90 days in advance of HRL flow commitments being provided or fallowing, whichever comes first.

Table B.1-7. Estimated ETAW Values for Crops Suitable for Land Fallowing Program

CROP	ETAW (ACRE-FEET PER ACRE)[1]
Alfalfa	1.7 (July through September)
Bean	1.5
Corn	1.8
Cotton	2.3
Melon	1.1
Milo	1.6
Onion	1.1
Pumpkin	1.1
Rice	2.9
Safflower	0.7
Sudan grass	3.0
Sugar beets	2.5
Sunflower	1.4
Tomato	1.8
Vine seed / cucurbits	1.1
Wild rice	2.0

[1] Only that portion of the estimated savings that can be directly provided for Delta outflow or recovered in storage previously evacuated to provide Delta outflow is eligible for land fallowing.

B.1.7.3 Land Fallowing Reporting Requirements

Annually, by February 1, applicable HRL participants must report to the State Water Board the fallowing activities that were conducted to provide HRL flows as specified in the applicable HRL flow source sections.

B.1.7.4 Remnant Vegetation Control on Fallowed Land

To receive full credit for the expected water savings, idled land must not be irrigated during the fallowing period. Remnant vegetation (weeds, cover crops, and over-winter crops) that is supported only through precipitation or that has begun to senesce may remain on the fields to be idled. Site visits may be conducted to evaluate the state of the remnant vegetation to ensure that remnant vegetation does not become excessive vegetation that would affect the amount of water made available by land fallowing.

B.1.7.5 Monitoring and Verification

HRL participants must develop and implement a monitoring and land fallowing verification program that includes at minimum the following:

i. Crop maps that identify the land being fallowed. The maps should identify what crops would otherwise be grown absent implementation of the VA pathway.

ii. A plan and schedule for inspection of field activities to verify land fallowing.

iii. A signed agreement between HRL participants and landowners/water right holders fallowing their land that allows Project agencies or HRL participants access to confirm fallowing and ETAW assumptions.

B.1.7.6 Other Environmental Considerations

Reclamation and DWR must assess fallowed rice fields and appurtenant irrigation/drainage ditches that provide forage and habitat for terrestrial wildlife and waterfowls, including the giant garter snake listed as a threatened species under ESA and CESA. Species management measures to protect giant garter snakes include avoiding or minimizing crop idling or conversion of rice fields to other uses near areas likely to support giant garter snake populations; when fallowing rice fields, using an alternating “checkerboard” pattern to minimize impacts on giant garter snakes; maintaining adequate water in major irrigation and drainage canals that can serve as movement corridors for giant garter snake and other wildlife; and in smaller drains and conveyance infrastructure that can support giant garter snake, maintaining habitat attributes such as emergent vegetation for escape cover and foraging habitat.

B.1.8 Groundwater Substitution

Certain HRL participants intend to rely on groundwater substitution to provide all or a portion of their HRL flows (see Bay-Delta Plan Section 4.4.9) on the Sacramento, Feather, and American Rivers. Groundwater substitution may also be used for HRL water purchases. HRL flow commitments associated with groundwater substitution may be provided in advance of or following actual groundwater substitution actions. Flow commitments met through groundwater substitution may also be provided consistent with the timing of diversion reductions.

When flow commitments are provided in advance of reduced diversions due to groundwater substitution, the flows will be provided through bypasses of water or releases of stored water from Shasta, Folsom, Oroville, or possibly other reservoirs. Groundwater substitution will then reduce storage releases from the applicable reservoir that bypassed inflows or released water from storage to meet the HRL flow commitments. Applicable HRL participants will reduce diversions that they would have otherwise had the right to make under a valid surface water right or contract and will instead use groundwater. This groundwater substitution will in turn reduce demand on the reservoirs, thus preserving more water in storage. The reverse may also happen,

where groundwater substitution occurs prior to HRL flow commitments being released from reservoirs. In this case, water would be banked in the applicable reservoir for later release to provide HRL flow commitments. In the case when a reservoir is at capacity, the groundwater substitution would not be banked in storage and will only be accounted for in real-time.

To quantify and verify HRL flow commitments from groundwater substitution, applicable HRL participants must develop and implement groundwater substitution protocols that comply with the requirements in the following sections.

B.1.8.1 Review and Approval Process

HRL participants making water available through groundwater substitution must provide their plans for approval by the Deputy Director for Water Rights and DWR, Reclamation, or other applicable reservoir operators adjusting reservoir operations at least 90 days in advance of the time period water is planned to be provided to meet HRL flow commitments. Those plans must identify the following:

i. Water rights under which water is being made available through reservoir bypasses or releases in exchange for groundwater substitution.

ii. The time period for reservoir releases and groundwater substitution.

iii. The purposes proposed to use groundwater instead of surface water diversions, and information to demonstrate that the groundwater substitution will be in addition to reference conditions including the following:

    (a) Assessments of wells to be used for groundwater substitution pumping. The assessment should include: the well owner name, well name or ID, pumping capacity, location in latitude-longitude format, the name of the district or water service entity where the well is located, and the number of irrigated acres and/or population served by the well. Each well should be identified using the same numbering and naming convention used in Groundwater Sustainability Plans for the subbasin in which the well is located.

    (b) Assessments calculating and reporting the reference pumping volume by HRL participants and other relevant parties with groundwater pumping capabilities that contribute toward the HRL flows. HRL participants are required to report the historical groundwater pumping volumes for each place of use to establish a reference volume that would occur absent implementation of the VA pathway.

    (c) Reference groundwater pumping from identified wells should be determined by averaging the most recent three years of groundwater pumping in non-groundwater substitution years and non-curtailment years. The Deputy Director for Water Rights may request additional information

and may adjust the three-year period if necessary. If an outstanding issue makes the three-year average unreasonable, the participating agency may propose an alternative and seek agreement with the Deputy Director for Water Rights and Reclamation or DWR as appropriate. If a year is determined to be unrepresentative, HRL participants may request that it be removed from the three-year average.

(d) Reference determinations may not include groundwater pumping actions conducted solely for well maintenance.

B.1.8.2 Groundwater Substitution Accounting

Applicable HRL participants must provide a regular accounting of pumping above their reference pumping levels and must document this information in a user-friendly publicly accessible accounting ledger. The ledger should be posted prominently on the public HRL accounting webpage and include:

i. The location and characteristics of the wells used.

ii. Accounting that includes: (1) what the surface water use would have been absent providing HRL flows, (2) actual surface water deliveries or diversions accounting for reductions due to HRL flow commitments, and (3) groundwater pumping in excess of reference pumping.

iii. Credit for contributions toward HRL flow commitments provided by groundwater substitution pumping in excess of reference groundwater pumping in exchange for surface water deliveries or diversions is subject to confirmation by DWR, Reclamation, or other appropriate entity facilitating the exchange.

iv. HRL participants will coordinate with DWR and Reclamation, or other appropriate entities to identify appropriate streamflow depletion volumes. Streamflow depletion volumes will be subtracted from the groundwater substitution pumping volumes when determining water made available for HRL flow commitments. Streamflow depletion volumes are subject to review and approval by the Deputy Director for Water Rights.

B.1.8.3 Consistency with Existing Groundwater Sustainability Plans

HRL participants are required to coordinate with applicable Groundwater Sustainability Agencies to monitor and report on groundwater substitution under the HRL, including the following:

i. Identification of wells to be used for groundwater substitution.

ii. Groundwater elevations within the vicinity of the wells used for groundwater substitution. The methods and units used to measure groundwater elevations

must be consistent with those used in the Groundwater Sustainability Plan and related annual reports.

iii. Groundwater level measurements in both participating substitution wells and monitoring wells before, during, and after substitution-related pumping as follows:

(a) Prior to substitution: Groundwater levels must be measured monthly from March of the substitution year until the start of substitution.

(b) Start of substitution: Groundwater levels must be measured on the same day that the substitution begins, prior to the pump being turned on. If substitution wells are turned on incrementally, all substitution and monitoring wells must be measured before the first substitution well is turned on.

(c) During substitution: Groundwater levels must be measured weekly throughout the substitution period for all wells, including those turned on incrementally.

(d) Post-substitution: Groundwater levels must be measured weekly for one month after the end of substitution pumping, after which groundwater levels must be measured monthly through March of the following year.

B.1.9 Sacramento River Accounting Procedures

B.1.9.1 Introduction

This section describes the accounting procedures that the Sacramento River HRL participants identified in Table B.1-10 will be required to follow in order to utilize the VA pathway identified in the Bay-Delta Plan. Water rights on the Sacramento River that are not included in Table B.1-10 or otherwise included in the lists of HRL water rights will be subject to the regulatory pathway described in the Bay-Delta Plan. The accounting procedures described in this appendix are in addition to requirements included in Section 4.4.9 of the Bay-Delta Plan.

B.1.9.2 Description of Sacramento River HRL Flow Commitments

In each applicable year, Sacramento River HRL participants will provide a total of 100,000 AF of net additive inflows and contributions to Delta outflows from the Sacramento River consistent with the default plan and flexibility brackets described in Bay-Delta Plan Section 4.4.9 above reference conditions described in this appendix. Flows are to be provided in dry, below normal, and above normal water year types as determined by Section B.1.3.

During below normal and dry years, the Sacramento River HRL participants must complete and submit to the Executive Director an evaluation of the expected effects of providing HRL flows on temperature management on the Sacramento River for the protection of Sacramento River salmonids (including winter-run and fall-run Chinook),

including the effects of providing flows during the spring and the effects of providing flows consistent with the irrigation pattern. If, in a dry water year type, water is requested to be carried over to the next year, an evaluation must be completed documenting the effects of carrying water over. Based on the yearly evaluations, Sacramento River HRL participants may propose for Executive Director approval, consistent with Bay-Delta Plan Section 4.4.9, that the Sacramento River HRL flows be provided outside of the January through June period on the irrigation pattern in a dry or below normal year, or in dry years that HRL flows be carried over into the subsequent calendar year. Water carried over could be released for flood control purposes if the reservoir fills, and accounted as additive Delta inflow and outflow at that time, or released in addition to the next year's flow commitment.

The HRL flows will be made available through the following:

i. Reductions in deliveries to and diversions by Sacramento River Settlement Contractors (SRSC) who will conduct a combination of land fallowing and groundwater substitution in the SRSC service areas to provide 100,000 AF of water in dry, below normal, and above normal water year types.

ii. No less than 80,000 AF will be provided through land fallowing. The remainder will be met through groundwater substitution.

B.1.9.3 Definition of Reference Conditions

Reference conditions are defined as operational conditions, including flows, water diversions, and reservoir operations as they would occur prior to implementation of the VA pathway. The primary reference condition provisions related to the Sacramento River HRL flow commitments are defined further below.

i. State Water Board Water Rights Order 90-5 (WRO 90-5) – WRO 90-5 requires minimum flows below Keswick Dam of 3,250 cfs to prevent salmonid redd stranding due to flow fluctuations in reservoir releases. WRO 90-5 also requires Reclamation to manage flow and Shasta Dam releases to provide for downstream temperature management on the Sacramento River and to develop an annual Sacramento River Temperature Management Plan describing how Reclamation will comply with WRO 90-5.

i. 2024 Record of Decision for the Long-Term Operation of the Central Valley Project and State Water Project and Associated Biological Opinions (2024 LTO) – Reclamation and DWR formulated the 2024 Long-Term Operations Plan for the CVP and SWP in coordination with federal and state regulatory agencies. Reclamation manages Shasta Dam as part of the coordinated operations of the CVP and SWP for flood control, downstream requirements, CVP exports at Delta facilities, and in-basin obligations. In the event of a Relevant Change in CVP or SWP operations as defined in Section 4.4.9.1, the additional provisions of

Section 4.4.9.1 apply. As appropriate, this accounting document will be updated, as approved by the Executive Director through a public process with opportunity for public comment, to include provisions needed to account for the requirements of Section 4.4.9.1.

Operations that Reclamation manages on the Sacramento River that are most relevant to the reference conditions for the system include the following components:

(a) Sacramento River Temperature Management – The 2024 LTO includes temperature management requirements on the Sacramento River for the protection of winter-run Chinook salmon based on hydrologic and related conditions, referred to as "Bins." The 2024 LTO includes water supply reductions in Bin 3 years (up to a 500 TAF reduction to SRSC allocations).

(b) Fall Flow Management – The 2024 LTO includes provisions for ramping down flows from higher irrigation season flows to lower fall and winter baseflow to attempt to prevent the dewatering or stranding of salmonid redds in the reaches downstream of Keswick Dam.

(c) Pulse Flows – The 2024 LTO includes spring pulse flow provisions on the Sacramento River to benefit Chinook salmon in the Sacramento River watershed when doing so does not interfere with temperature management or other operations of the system.

ii. In-Basin Diversions and Deliveries – Reference conditions for the Sacramento River include resulting Sacramento River flows and Shasta Reservoir storage conditions that reflect levels of water diversions from the Sacramento River before implementation of the VA pathway, including in-basin water rights and contractual deliveries including diversions by the SRSC and other CVP contractors.

iii. Wilkins Slough Minimum Water Elevation – Reference conditions for the Sacramento River include minimum Wilkins Slough flows to support diversions by the SRSCs.

iv. State Water Board Revised Decision 1641 (D-1641) – Reference conditions for the Sacramento River include Sacramento River flows and Shasta Reservoir storage conditions as they would occur prior to implementation of the VA pathway to meet Bay-Delta Plan water quality and flow objectives included in D-1641, including salinity (EC and chloride) and Delta inflow and outflow objectives. D-1641 also includes objectives for Delta Cross Channel Gate closure requirements and limits on exports from the Delta. The D-1641 requirements vary by month, water year type, and hydrologic condition. As Shasta Reservoir is a major CVP storage facility in the Bay-Delta watershed controlling flows in the

Sacramento River, reference flows for the Sacramento River must also align with the reference flows outlined in Sections B.1.4 and B.1.5.

v. Agreement Between the United States of America and the Department of Water Resources of the State of California for Coordinated Operation of the Central Valley Project and the State Water Project (COA) – Reference conditions include Sacramento River flows and Shasta Reservoir storage conditions as they would occur prior to implementation of the VA pathway to meet any requirements and criteria from the COA. The implementation of the COA affects responsibility for meeting Delta requirements and Delta exports, which in turn affect flows released from Shasta Reservoir. In the event the COA is amended in a manner that affects reference conditions, this accounting document will be updated as appropriate, as approved by the Executive Director through a public process with opportunity for public comment.

vi. Flood Risk Reduction Requirements – Reference conditions for the Sacramento River include Sacramento River flows and Shasta Reservoir storage conditions as they would occur prior to implementation of the VA pathway to meet provisions of flood control storage requirements and schedules as outlined in the 1971 USACE Water Control Manual for Shasta Dam. The Water Control Manual requirements may be revised in the future. In the event the Water Control Manual is changed, this accounting document will be updated through annual or periodic review processes with opportunity for public comment, as appropriate.

B.1.9.4 Accounting of Reference Conditions and HRL Flow Commitment

During the term of the VA pathway, Sacramento River HRL participants must coordinate implementation and monitoring decisions as outlined in Section B.1.3. State Water Board staff must be invited to participate in this coordination.

i. Reference and HRL Flow Accounting and Tracking – Annually, starting February 1 and weekly thereafter up to and during the time period in which Sacramento River HRL flows may be provided, Sacramento River HRL participants must coordinate with other HRL participants and document through the public website tracking system as identified in Section B.1.3 the information listed below for the following components: (1) forecasted and observed reference conditions, (2) planned HRL flow commitments for the coming month and season, (3) and completed HRL flow commitments to date. The information must demonstrate that the additional Sacramento River HRL inflow commitments are provided to contribute to additive Delta outflows above reference conditions

consistent with Sections B.1.9.2 and B.1.9.3 above and Section 4.4.9 of the Bay-Delta Plan. The following specific information must be provided:

(a) Time series of daily inflow, outflow, and storage in Shasta and Keswick Reservoirs.

(b) Time series of daily releases in cfs to the Sacramento River below Keswick Reservoir.

(c) Time series of daily running total releases since January 1 in TAF to the Sacramento River below Keswick Reservoir.

(d) Water supply deliveries that would have been made in reference conditions and those actually delivered under water rights covered by the VA pathway.

(e) Flows bypassed or released from storage including to meet D-1641 requirements (see Section B.1.4).

(f) Current water year type determinations.

(g) Whether Sacramento River HRL participants will adhere to the default flow schedule or provide flows on a different schedule consistent with the flexibility brackets identified in Bay-Delta Plan Section 4.4.9.

(h) Projections of Shasta cold water pool and related information needed to inform determinations regarding HRL flow and temperature management, including any information requested by the Deputy Director for Water Rights.

(i) Daily running flood control reservation as defined by the USACE Flood Control Diagram dated September 1971 and whether Shasta and Keswick Reservoirs are being operated or are planned to be operated to meet flood control requirements.

(j) Decision support tools and machine-readable documentation of components used to inform Sacramento River operations and to calculate reference conditions, HRL flows from the Sacramento River, and HRL flows additions to Delta outflows.

ii. Additive Flow Accounting During Flood Control – Sacramento River HRL flows must be net additive from January through June. If any HRL flow releases occur prior to or during flood control operations, Sacramento River HRL participants must demonstrate a reduction in end-of-June Shasta and Keswick Reservoir storage volumes equal to the HRL additive flow (i.e., 100,000 AF) minus the volume accrued through June from land fallowing and groundwater substitution.

iii. Measurement of Flow Commitment – Sacramento River HRL participants must use outflow data from the U.S. Geological Survey (USGS) gage #11370500, Sacramento River at Keswick, located approximately a half mile downstream from Keswick Dam. The “Keswick Reservoir (KES)” California Data Exchange Center (CDEC) gage may be used at times when gage #11370500 is offline or malfunctioning. The flow data must be used to demonstrate that the Sacramento River HRL flows were provided to meet the HRL flow commitments identified in Bay-Delta Plan Section 4.4.9.

B.1.9.5 Verification of Additive Flow

To demonstrate that Sacramento River HRL flows are net additive flows above reference conditions as required by Bay-Delta Plan Section 4.4.9, Sacramento River HRL participants must demonstrate the following:

i. Water Right Verification – Sacramento River HRL participants must provide water right accounting to ensure that all water bypassed or released from storage to comply with Bay-Delta Plan Section 4.4.9 was made available under valid water rights where surface water is available under that right at the time it is being provided consistent with Section 4.4.9 of the Bay-Delta Plan (i.e., the water right is not subject to curtailment) or groundwater was pumped in substitution. To the extent that Sacramento River HRL participants bypass or release water from storage in advance of fallowing or groundwater substitution taking place under another water right, both sets of rights must be identified at least 90 days in advance of the land fallowing, groundwater substitution, or the bypass or release, whichever occurs first. Water right accounting must be provided to document both Reclamation’s bypasses of inflows or releases of previously stored water and reductions in use by other parties under valid un-curtailed surface water rights or groundwater rights using fallowing or groundwater substitution to repay Reclamation.

ii. Land Fallowing and Groundwater Substitution – To account for additive flows made available by land fallowing and groundwater substitution, Sacramento River HRL participants must meet the requirements of Sections B.1.7 and B.1.8, respectively.

iii. HRL Release Pattern to Maintain Carryover Storage – Any portion of the Sacramento River HRL flow contribution carried over from a dry water year type to be released in a subsequent year is subject to the same provisions as would apply absent shifting the flows to another year, including Bay-Delta Plan Section 4.4.9 and approved accounting procedures, and must result in additional Delta outflow at a time with benefits to fishes. To quantify additive flows to the Delta from carrying water over to another year, Sacramento HRL participants must conduct daily reservoir accounting to identify when the carried-over HRL flow volume is released.

B.1.9.6 Reporting Requirements

Annually by March 1, Sacramento River HRL participants must report the following to summarize reference conditions and HRL flows that occurred over the previous year:

i. Statements of whether or not HRL flow commitments were met and on what schedule, if and how flexibility brackets were used, and, if HRL flow commitments were not met, how much of the HRL flow commitment was not provided each month.

ii. Summary of how monthly operations changed compared to reference conditions to bypass net additive flows and refill reservoirs (if refilled), and if flood control operations or spill occurred.

iii. Summary of the volumes of HRL water provided by water right using land fallowing and groundwater substitution.

iv. Supporting documentation that HRL flow measures did not affect reference conditions, including on a seasonal basis and from year to year.

v. Supporting documentation that water use has not increased to reduce base flows in a manner inconsistent with the provision to protect the HRL base flows (reference conditions) described in Bay-Delta Plan Section 4.4.9.

vi. Supporting documentation that implementation of the VA pathway has not resulted in another HRL water right holder included in the list of water rights in Appendix B.1 for the Sacramento River HRL, including as Appendix B.1 may be modified, reducing the amount of flow they bypass or release from storage, including to meet other regulatory obligations, due to the provision of HRL flows.

B.1.10 American River Accounting Procedures

B.1.10.1 Introduction

This section describes the accounting procedures that the American River HRL participants identified in Table B.1-11 will be required to follow to utilize the VA pathway identified in the Bay-Delta Plan. Water rights on the American River that are not included in Table B.1-11 or otherwise included in the lists of HRL water rights will be subject to the regulatory pathway described in the Bay-Delta Plan. The accounting procedures described in this appendix are in addition to requirements included in Section 4.4.9 of the Bay-Delta Plan.

B.1.10.2 Description of American River HRL Flow Commitments

In each applicable year, American River HRL participants will provide flow commitments consistent with the default plan and flexibility brackets described in Bay-Delta Plan Section 4.4.9, in up to six years out of the eight-year term, in all water year types except for wet water year types. Flows should be targeted in the first three above normal or

below normal years and the first three dry or critical years during the eight-year term. If American River HRL participants propose not to provide HRL flows in the first three above normal or below normal years or the first three dry or critical years they may submit a request by March 1 to the Executive Director for approval to provide those flows in a subsequent year within the term of the VA pathway. Any such request must include supporting biological and hydrologic justification, including any additional information that may be requested by the Executive Director.

During the eight-year term of the VA pathway, American River HRL participants will provide 30,000, 40,000, 10,000, and 10,000 AF in applicable critical, dry, below normal, and above normal years, respectively, net additive inflows and contributions to additive Delta outflows above reference conditions described in this appendix. Water year types will be defined according to Section B.1.3.

The HRL flows will be made available through the following:

i. Reservoir reoperations upstream of Folsom Reservoir on the American River to provide 10,000 AF in above normal, below normal, and dry water year types. In dry years, the 10,000 AF may instead be provided, in-full, or in-part by groundwater substitution in addition to the 30,000 AF of groundwater substitution already committed in dry water year types. While there are no limitations on reservoir refill, Reclamation will bypass or release this water from storage to provide net additive American River flows and DWR will bypass this volume as net additive Delta outflow as described in Section B.1.4. This portion of the American River HRL flow commitment is expected to result in a change in timing of flows and may increase flows at certain times but may not provide net overall additive flows over time.

ii. Groundwater substitution of 30,000 AF in dry and critical water year types.

B.1.10.3 Definition of Reference Conditions

Reference conditions are defined as operational conditions, including flows, water diversions, and reservoir operations as they would occur prior to implementation of the VA pathway. The primary reference condition provisions related to the American River HRL flow commitments are defined further below.

i. State Water Board Revised Decision 1641 (D-1641) – Reference conditions for the American River include American River flows and Folsom Reservoir storage conditions as they would occur prior to implementation of the VA pathway to meet Bay-Delta Plan water quality and flow requirements included in D-1641, including salinity (EC and chloride) and Delta inflow and outflow objectives. D-1641 also includes objectives for Delta Cross Channel Gate closure requirements and limits on exports from the Delta. The D-1641 requirements vary by month, water year type, and hydrologic condition. As Folsom Reservoir is a CVP reservoir,

reference flows for the American River must also align with the reference flows outlined in Sections B.1.4 and B.1.5.

ii. Agreement Between the United States of America and the Department of Water Resources of the State of California for Coordinated Operation of the Central Valley Project and the State Water Project (COA) – Reference conditions include American River flows and Folsom Reservoir storage conditions before implementation of the VA pathway as they would occur to meet any requirements and criteria from the COA. The implementation of the COA affects responsibility for meeting Delta requirements and Delta exports, which in turn affects flows released from Folsom Reservoir. In the event the COA is amended in a manner that affects reference conditions, this accounting document will be updated as appropriate, as approved by the Executive Director through a public process with opportunity for public comment.

iii. 2024 Record of Decision for the Long-Term Operation of the Central Valley Project and State Water Project and Associated Biological Opinions (2024 LTO) – Reclamation and DWR formulated the 2024 Long-Term Operations Plan for the CVP and SWP in coordination with federal and state regulatory agencies. Reference conditions for the American River include American River flows and Folsom Reservoir storage conditions as they would occur prior to implementation of the VA pathway to meet provisions of the 2024 LTO, which include operations for water temperature management and spring pulse flows. In the event of a Relevant Change in CVP or SWP operations as defined in Section 4.4.9.1, the additional provisions of Section 4.4.9.1 apply. As appropriate, this accounting document will be updated, as approved by the Executive Director through a public process with opportunity for public comment, to include provisions needed to account for the requirements of Section 4.4.9.1.

iv. Flood Risk Reduction Requirements – Reference conditions for the American River include American River flows and Folsom Dam storage conditions as they would occur prior to implementation of the VA pathway to meet provisions of flood control storage requirements and schedules as outlined in the 2019 USACE Folsom Dam and Reservoir Water Control Manual. The Water Control Manual requirements may be revised in the future. In the event these provisions are amended, this accounting document will be updated through annual or periodic review processes with opportunity for public comment, as appropriate.

v. State Water Board Decision 893 (D-893) – Reference conditions for the American River include American River flows as they would occur prior to implementation of the VA pathway to meet the minimum flows established in D-893. D-893 includes minimum flows on the American River that range between 250 to 619 cfs depending on the month, with some exceptions for critically dry years.

vi. Modified Flow Management Standard – Reference conditions for the American River include American River flows before implementation of the VA pathway as they would occur under the Modified Flow Management Standard. The Modified Flow Management Standard includes minimum releases, water temperature management provisions, monitoring and evaluation measures, and other provisions.

vii. Upstream Reservoirs – Reference conditions for the American River include operations of reservoirs located upstream of Folsom Reservoir that are being reoperated to provide HRL flow commitments as they would have occurred before implementation of the VA pathway.

B.1.10.4 Accounting of Reference Conditions and HRL Flow Commitment

During the term of the VA pathway, American River HRL participants must coordinate implementation and monitoring decisions as outlined in Section B.1.3. State Water Board staff must be invited to participate in this coordination.

i. Reference and HRL Flow Accounting and Tracking – Annually, starting by February 1 and weekly thereafter during the time period in which American River HRL flows may be provided, American River HRL participants must coordinate with other HRL participants and document through the public website tracking system as identified in section B.1.3 the information listed below for the following components: (1) forecasted and observed reference conditions, (2) planned HRL flow commitments for the coming month and season, (3) and completed HRL flow commitments to date. The information must demonstrate that the additional American River HRL inflow commitments are provided to contribute to additive American River inflow and additive Delta outflows above reference conditions consistent with Sections B.1.10.2 and B.1.10.3 above and Section 4.4.9 of the Bay-Delta Plan. The following specific information must be provided:

(a) Time series of daily inflow, outflow, and storage in Folsom Reservoir and Lake Natoma.

(b) Time series of daily releases in cfs to the American River below Nimbus Dam.

(c) Time series of daily running total releases since January 1 in TAF to the American River below Nimbus Dam.

(d) Water supply deliveries that would have been made in reference conditions and those actually delivered under water rights covered by the VA pathway.

(e) Flows bypassed or released from storage including to meet D-1641 requirements (see Section B.1.4).

(f) Current water year type determinations.

(g) Whether American River HRL participants will adhere to the default HRL flow schedule or provide flows on a different schedule consistent with the flexibility brackets identified in Bay-Delta Plan Section 4.4.9.

(h) Decision support tools and machine-readable documentation of components used to inform American River operations and to calculate reference conditions, HRL flows on the American River, and HRL flows additive to Delta inflow.

ii. Additive Flow Accounting During Flood Control – American River HRL flows must be net additive from January through June. If any HRL flow releases occur prior to or during flood control operations, American River HRL participants must demonstrate a reduction in end-of-June Folsom Reservoir storage volumes equal to the HRL additive flow minus the volume accrued through June from groundwater substitution and reservoir reoperation.

iii. Measurement of Flow Commitment – American River HRL participants must use outflow data from the "Nimbus Dam" CDEC gage or an equally accurate and accessible source that represents the daily average flow released from Nimbus Dam. The flow data must be used to demonstrate that the intended additional flow from Nimbus was released above reference conditions to meet the HRL flow commitments identified in Bay-Delta Plan Section 4.4.9.

B.1.10.5 Verification of Additive Flow

To demonstrate that the American River HRL flows are net additive flows being provided above reference conditions over the January through June time period, as required by Bay-Delta Plan Section 4.4.9, American River HRL participants must demonstrate the following:

i. Water Right Verification – American River HRL participants must provide water right accounting to ensure that all water bypassed or released from storage to comply with Bay-Delta Plan Section 4.4.9 was made available under valid water rights where surface water is available under that right at the time it is being provided consistent with Section 4.4.9 of the Bay-Delta Plan (i.e., the water right is not subject to curtailment) or groundwater was pumped in substitution. To the extent that American River HRL participants bypass or release water from storage in advance of reservoir reoperations taking place under another water right, both sets of rights must be identified at least 90 days in advance of the reservoir reoperations, or the bypass or release, whichever occurs first. Water right accounting must be provided to document both Reclamation's bypasses of

inflows or releases of previously stored water and reductions in use by other parties under valid un-curtailed surface water rights or groundwater rights to repay Reclamation.

ii. Groundwater Substitution – To account for additive flows made available by groundwater substitution, American River HRL participants must meet the requirements of Bay-Delta Plan Section B.1.8.

iii. American River Reservoir Reoperation and Refill Accounting – HRL participants on the American River plan to rely on reservoir reoperation upstream of Folsom Reservoir to provide a portion of the American River HRL flow commitment. American River HRL participants must conduct, and report through the public website tracking system described in Section B.1.3, refill accounting at each reservoir being reoperated. This accounting must identify periods and volumes of refill and include a daily time series of reference and observed inflows, outflows, and reservoir storage that starts when HRL participants begin to provide the reservoir reoperation portion of the American River HRL flow commitment and ends when the storage deficit compared to reference conditions has been refilled.

B.1.10.6 Reporting Requirements

Annually by March 1, American River HRL participants must report the following to summarize reference conditions and HRL flows that occurred over the previous year:

i. Statements of whether or not HRL flow commitments were met and on what schedule, if and how flexibility brackets were used, and, if HRL flow commitments were not met, how much of the HRL flow commitment was not provided each month.

ii. Summary of how monthly operations changed compared to reference conditions from October through September to bypass net additive flows and refill reservoirs (if refilled), and if flood control operations or spill occurred.

iii. Summary of the volumes of HRL water provided per water right using groundwater substitution and reservoir reoperation.

iv. Supporting documentation of any effect HRL flow measures had on reference conditions, including on a seasonal basis and from year to year.

v. Supporting documentation that water use has not increased to reduce base flows in a manner inconsistent with the provision to protect the HRL base flows (reference conditions) described in Bay-Delta Plan Section 4.4.9.

vi. Supporting documentation that implementation of the VA pathway has not resulted in another HRL water right holder included in the list of water rights in

Appendix B.1 for the American River HRL, including as Appendix B.1 may be modified, reducing the amount of flow they bypass or release from storage, including to meet other regulatory obligations, due to the provision of HRL flows.

B.1.11 Feather River Accounting Procedures

B.1.11.1 Introduction

This section describes the accounting procedures that the Feather River HRL participants identified in Table B.1-12 will be required to follow in order to utilize the VA pathway identified in the Bay-Delta Plan. Water rights on the Feather River that are not included in Table B.1-12 or otherwise included in the lists of HRL water rights will be subject to the regulatory pathway described in the Bay-Delta Plan. The accounting procedures described in this appendix are in addition to requirements included in Section 4.4.9 of the Bay-Delta Plan. DWR will act as the responsible party for conducting and reporting on the accounting procedures on behalf of all Feather River HRL participants. DWR will coordinate with other Feather River HRL participants and report on reservoir operations, land fallowing, and groundwater substitution actions completed to replenish the deficit in Oroville Complex storage created from releasing HRL flows.

B.1.11.2 Description of Feather River HRL Flow Commitments

In each applicable year, the Feather River HRL participants will annually provide a total of 60,000 AF of net additive inflows and contributions to Delta outflows from the Feather River, consistent with the default plan and flexibility brackets described in Bay-Delta Plan Section 4.4.9, above reference conditions described in this appendix. Flows are to be provided in dry, below normal, and above normal water year types as determined by Section B.1.3. DWR will bypass or release water from storage from the Oroville Complex to provide net additive Feather River flows and will bypass this volume as net additive Delta outflow as described in Section B.1.4. Feather River HRL participants will replenish the deficit in Oroville Complex storage created from releasing HRL flows by conducting a combination of reservoir reoperations, land fallowing, and groundwater substitution actions.

The replenishment of HRL flows will be made available through the following:

i. A combination of fallowing of agricultural lands and groundwater substitution in the Feather River Service Area to provide 50,000 AF of water. No less than 38,000 AF will be provided through land fallowing. The remainder will be met through groundwater substitution.

ii. Reservoir reoperations upstream of or associated with the Oroville Complex to provide up to 10,000 AF of water (for a total commitment of 60,000 AF) to replenish the deficit within the Oroville Complex created to provide HRL flows. The additive flow from reservoir reoperation as part of the Feather River HRL

commitment is expected to result in a change in timing of flows, with increased flows at certain times and decreased flows at other times caused by reservoir reoperation that will vary based on storage and refill conditions and may contribute varying amounts to Delta outflow on a seasonal or interannual basis. If 10,000 AF of reservoir reoperations are not available due to hydrological conditions, Feather River HRL participants will secure additional supplies made available through land fallowing or groundwater substitution to ensure the full 10,000 AF of additive flows above reference conditions are provided.

B.1.11.3 Definition of Reference Conditions

Reference conditions are defined as operational conditions, including flows, water diversions, and reservoir operations as they would occur prior to implementation of the VA pathway. The primary reference condition provisions related to the Feather River HRL flow commitments are defined further below.

i. State Water Board Revised Decision 1641 (D-1641) – Reference conditions for the Feather River include Feather River flows and Oroville Reservoir storage conditions as they would occur to meet Bay-Delta Plan water quality and flow requirements included in D-1641, including salinity (EC and chloride) and Delta inflow and outflow objectives prior to implementation of the VA pathway. D-1641 also includes objectives for Delta Cross Channel Gate closure requirements and limits on exports from the Delta. The D-1641 requirements vary by month, water year type, and hydrologic condition. As Oroville Reservoir, the major storage facility on the Feather River controlling flows, is a SWP reservoir, reference flows for the Feather River must also align with the reference flows outlined in Sections B.1.4 and B.1.5.

ii. Agreement Between the United States of America and the Department of Water Resources of the State of California for Coordinated Operation of the Central Valley Project and the State Water Project (COA) – Reference conditions include Feather River flows and Oroville Reservoir storage conditions as they would occur to meet requirements and criteria from the COA prior to implementation of the VA pathway. The implementation of the COA affects responsibility for meeting Delta requirements and Delta exports, which in turn affect flows released from Oroville Reservoir. In the event the COA is amended in a manner that affects reference conditions, this accounting document will be updated as appropriate, as approved by the Executive Director through a public process with opportunity for public comment.

iii. In-Basin Diversions and Deliveries – Reference conditions for the Feather River include resulting Feather River flows and Oroville Reservoir storage conditions reflecting levels of water diversions from the Feather River, including in-basin water rights and contractual deliveries as they would occur prior to implementation of the VA pathway.

iv. 1983 California Department of Fish and Wildlife Agreement – Reference conditions for the Feather River include Feather River flows and Oroville Reservoir storage conditions as they would occur prior to implementation of the VA pathway to meet provisions of the 1983 Agreement Concerning the Operation of the Oroville Division of the SWP for Management of Fish and Wildlife (1983 Agreement) between DWR and DFW (previously Fish and Game) for the Oroville Facilities. The 1983 Agreement includes temperature requirements at Feather River Hatchery, and two flow requirements in the Feather River.

v. Federal Energy Regulatory Commission (FERC) Licenses – The Oroville FERC license expired on January 31, 2007 (FERC Project 2100). The facilities have been operating under temporary annual licenses that include the minimum flow requirements contained in the 1983 Agreement. As discussed above, reference conditions include these operations. In the event a new license is issued by FERC, this accounting document will be updated to account for the new license through a public process with opportunity for public review and comment, as appropriate.

vi. Flood Risk Reduction Requirements – Reference conditions for the Feather River include Feather River flows and Oroville Reservoir storage conditions as they would occur prior to implementation of the VA pathway to meet provisions of flood control storage requirements and schedules as outlined in the USACE Water Control Manual for Oroville Dam and New Bullards Bar Dam. As outlined in the Water Control Manual, Oroville operates under a storage management plan that assigns available storage for different purposes such as flood control, hydropower operation, water supply, or environmental protection. The Water Control Manual contains rule curves defining the amounts of water from Oroville Reservoir allocated for flood control depending on the time of year and precipitation calculations. The top of conservation and storage levels are dynamic and therefore the reference conditions associated with these constraints on operation will also change. The Water Control Manual requirements may be revised in the future. In the event the Water Control Manual is changed, this accounting document will be updated through annual or periodic review processes with opportunity for public comment, as appropriate.

vii. Reoperated Reservoirs – Reference conditions for the Feather River include operations of reservoirs located upstream of or associated with the Oroville Complex that are reoperated to replenish Oroville Reservoir deficits created from releasing HRL flows as they would occur prior to implementation of the VA pathway.

B.1.11.4 Accounting of Reference Conditions and HRL Flow Commitment

During the term of the VA pathway, DWR must coordinate implementation and monitoring decisions as outlined in Section B.1.3. State Water Board staff must be invited to participate in this coordination.

i. Reference and HRL Flow Accounting and Tracking – Annually, starting by February 1 and weekly thereafter up to and during the time period in which Feather River HRL flows may be provided, DWR must document through the public website tracking system as identified in Section B.1.3 the information listed below for the following components: (1) forecasted and observed reference conditions, (2) planned HRL flow commitments for the coming month and season, and (3) completed HRL flow commitments to date. The information must be sufficient to demonstrate that the additional Feather River HRL inflow commitments are provided to contribute to additive Delta outflows above reference conditions consistent with Sections B.1.11.2 and B.1.11.3 above and Section 4.4.9 of the Bay-Delta Plan. The following specific information must be provided:

   (a) Time series of daily inflow, outflow, and storage in Oroville Reservoir and Thermalito Afterbay and applicable upstream reservoirs.

   (b) Time series of daily releases in cfs to the Feather River below Thermalito Afterbay outlet.

   (c) Time series of daily running total releases since January 1 in TAF to the Feather River below Thermalito Afterbay outlet.

   (d) Water supply deliveries that would have been made in reference conditions and those actually delivered (if different than reference) under water rights covered by the VA pathway.

   (e) Flows bypassed or released from storage including to meet D-1641 requirements (see Section B.1.4).

   (f) Current water year type determinations.

   (g) Whether DWR will adhere to the default HRL flow schedule or provide flows on a different schedule consistent with the flexibility brackets identified in Bay-Delta Plan Section 4.4.9.

   (h) Daily running and forecasted Oroville Reservoir flood control reservation as defined by the USACE Flood Control Diagram and whether DWR is operating or plans to operate to meet flood control requirements.

(i) Decision support tools and machine-readable documentation of components used to inform Feather River operations and to calculate reference conditions, HRL flows on the Feather River, and HRL flows additive to Delta inflow and outflow.

(j) Reference conditions for applicable flow and reservoir conditions associated with up to 10,000 AF of HRL flows derived from reservoir reoperations.

ii. Additive Flow Accounting During Flood Control – Feather River HRL flows must be net additive from January through June. If any HRL flow releases occur prior to or during flood control operations, DWR must demonstrate a reduction in end-of-June Oroville storage equal to the HRL additive flow (i.e., 60,000 AF) minus the volume accrued through June from land fallowing, groundwater substitution, and reservoir reoperation.

B.1.11.5 Verification of Additive Flow

To demonstrate that Feather River HRL flows are net additive flows being provided above reference conditions over the January through June time period as required by Bay-Delta Plan Section 4.4.9, Feather River HRL participants must demonstrate the following:

i. Water Right Verification – DWR must provide water right accounting to ensure that all water bypassed or released from storage to comply with Bay-Delta Plan Section 4.4.9 was made available under valid water rights where surface water is available under that right at the time it is being provided consistent with Section 4.4.9 of the Bay-Delta Plan (i.e., the water right is not subject to curtailment). To the extent that DWR bypasses or releases water from storage in advance of fallowing taking place under another water right, both sets of rights must be identified at least 90 days in advance of the land fallowing, or the bypass or release, whichever occurs first. Water right accounting must be provided to document both DWR's bypasses of inflows, or releases of previously stored water, and reductions in use by other parties under valid un-curtailed surface water rights or groundwater rights using fallowing or groundwater substitution to repay DWR.

ii. Land Fallowing and Groundwater Substitution – To account for additive flows made available by land fallowing and groundwater substitution respectively, DWR must meet the requirements of Sections B.1.7 and B.1.8.

iii. Feather River Reservoir Reoperation and Refill Accounting – HRL participants on the Feather River plan to rely on reservoir reoperations upstream of or associated with the Oroville Complex to account for up to 10,000 AF of the Feather River HRL flows in excess of what would be released annually under reference operations. DWR must conduct, and report through the public website

tracking system described in Section B.1.3, refill accounting at each reservoir being reoperated. This accounting must identify periods and volumes of refill and a daily time series of reference and observed inflows, outflows, and storage that starts when the reservoir reoperation portion of the Feather River HRL flow commitment begins, and ends when the storage deficit compared to reference conditions has been refilled.

B.1.11.6 Reporting Requirements

Annually by March 1, DWR must report the following to summarize reference conditions and HRL flows that occurred over the previous year:

i. Statements of whether or not HRL flow commitments were met and on what schedule, if and how flexibility brackets were used, and, if HRL flow commitments were not met, how much of the HRL flow commitment was not provided each month.

ii. Summary of how monthly operations changed compared to reference conditions from October through September to bypass net additive flows and refill reservoirs (if refilled), and if flood control operations or spill occurred.

iii. Summary of the volumes of water provided by water right using land fallowing, groundwater substitution, and reservoir reoperations.

iv. Supporting documentation of any effect that HRL flow measures had on reference conditions, including on a seasonal basis and from year to year.

v. Supporting documentation that water use has not expanded to reduce base flows in a manner inconsistent with the provision to protect the HRL base flows (reference conditions) described in Bay-Delta Plan Section 4.4.9.

vi. Supporting documentation that implementation of the VA pathway has not resulted in another HRL water right holder included in the list of water rights in Appendix B.1 for the Feather River HRL, including as Appendix B.1 may be modified, reducing the amount of flow they bypass or release from storage, including to meet other regulatory obligations, due to the provision of HRL flows.

B.1.12 Friant System (San Joaquin River) Accounting Procedures

B.1.12.1 Introduction

This section describes the accounting procedures for Friant HRL participants. The accounting procedures described in this appendix are in addition to requirements included in Section 4.4.9 of the Bay-Delta Plan.

B.1.12.2 Description of Friant System HRL Flow Commitments

In each applicable year, Friant HRL participants will provide up to 50,000 AF of flow towards Delta outflow through release, and limitations on recapture as needed, of San Joaquin River Restoration Program (SJRRP)[4] restoration flows[5] during February through May of normal-wet, normal-dry, and dry water year types, consistent with the default plan and flexibility brackets described in Bay-Delta Plan Section 4.4.9. When SJRRP flows to the Delta would be less than 50,000 AF (as measured at Vernalis minus expected downstream recapture) without altering recapture operations, flows will be made available by reducing recapture at recapture locations in the San Joaquin River and the Delta. In any month, recapture can be reduced by at most 50 percent of the total recapturable restoration flow or to the extent necessary to achieve the 50,000 AF commitment of Delta outflow originating from SJRRP flows, whichever is smaller. Friant HRL flow commitments use the water year type classifications defined by the SJRRP and water year type forecasting will be performed consistent with the methods of the SJRRP.[6]

B.1.12.3 Definition of Reference Conditions

Reference conditions for the Friant HRL flow commitments are defined as operational conditions, including flows, water diversions, and reservoir operations as they would occur prior to the SJRRP being implemented. Depending on hydrologic conditions, flood water may be spilled from Friant Dam into the San Joaquin River, which would contribute to the reference flow.

B.1.12.4 Accounting of Reference Conditions and HRL Flow Commitments

During the term of the VA pathway, Friant HRL participants must coordinate implementation and monitoring decisions as outlined in Section B.1.3. State Water Board staff must be invited to participate in this coordination. Allocations for the SJRRP are set by Reclamation based on the restoration year type, which is determined from the forecasted unimpaired flow at Friant Dam over the course of a water year. Restoration allocations during dry, normal-dry, and normal-wet year types range from 155.414 TAF (when unimpaired flow = 670 TAF) to 430.534 TAF (when unimpaired

[4] The SJRRP is a comprehensive, long-term effort to restore flows to the San Joaquin River from Friant Dam to the confluence of Merced River and restore a self-sustaining Chinook salmon fishery in the river while reducing or avoiding adverse water supply impacts.

[5] Restoration flows are the restoration year type dependent water releases made from Friant Dam in support of the restoration goals of the SJRRP to increase flow in the San Joaquin River between Friant Dam and the Merced River confluence. Recapture is the re-diversion of restoration flows downstream of Friant Dam in support of the water management goals of the SJRRP to minimize impact to water supply from releasing restoration flows.

[6] The six SJRRP restoration year types are based on the total unimpaired flow (UF) forecasted over a water year into Millerton Lake: Critical-Low when UF <400 TAF; Critical-High when UF = 400 to 669.999 TAF; Dry when UF = 670 to 929.999 TAF; Normal-Dry when UF = 930 to 1,449.999 TAF; Normal-Wet when UF = 1,450 to 2,500 TAF; and Wet when UF >2,500 TAF.

flow = 2,500 TAF), with the exact allocation determined based on linear interpolation. The initial restoration allocation is accompanied by a default flow schedule that provides an initial daily distribution of annual restoration flows over a restoration year, which is March to February. Specific flow schedules for each year are developed based on recommendations from the Restoration Administrator and may diverge from the default flow schedule using flexible flow provisions established in the 2006 San Joaquin River Restoration Settlement. Actual restoration flows released may be augmented by releasing additional buffer flows or purchased water. However, due to flow capacity constraints in the San Joaquin River, a portion of the restoration allocation may go unreleased.

i. Reference and HRL Flow Accounting and Tracking – Annually, starting by February 1 and weekly thereafter up to and during the time period in which Friant HRL flows may be provided, Friant System HRL participants must coordinate with other HRL participants and document through the public website tracking system as identified in Section B.1.3 the information listed below for the following components: (1) forecasted and observed reference conditions, (2) planned HRL flow commitments for the coming month and season, and (3) completed HRL flow commitments to date. The information must demonstrate that the additional Friant HRL flow commitments are provided to contribute to additive Delta outflows above reference conditions consistent with Sections B.1.12.2 and B.1.12.3 above and Bay-Delta Plan Section 4.4.9. The following specific information must be provided:

   (a) Time series of daily storage in Millerton Lake.

   (b) Time series of daily outflow from Millerton Lake to the San Joaquin River and the amount of released SJRRP restoration flows.

   (c) Time series of daily running total restoration flow recapture volumes in TAF at each recapture location.

   (d) Time series of daily observed flows at gages specified in Table B.1-8, for reference conditions and in real time.

   (e) Time series of daily Delta outflow contribution of flows originating from Friant Reservoir under reference conditions and with implementation of the VA pathway.

   (f) Current SJRRP restoration year type determinations.

   (g) Whether Friant HRL participants will adhere to the default HRL flow schedule or provide flows on a different schedule consistent with the flexibility brackets identified in Bay-Delta Plan Section 4.4.9.

ii. Measurement of Flow Commitment –The SJRRP's Restoration Flow Guidelines describes the procedures for measuring, monitoring, and reporting flows from Friant Dam, including Restoration Flows, and other guidelines to comply with the San Joaquin River Restoration Settlement. Monitoring of flows below Friant Dam is already mandatory as defined in the Settlement and existing water rights orders, and monitoring locations are summarized in Table B.1-8 below. Consistent with Reclamation's existing water rights permits for the SJRRP, Reclamation will provide daily accounting of Friant Dam releases and restoration flows at key gaging stations and points of recapture. Per existing water rights conditions, Reclamation is required to inform the State Board of any malfunctions at gages and provide a plan for return to operation. Friant HRL participants must obtain flow data from the flow gages listed in Table B.1-8. The flow data must be used to demonstrate the intended additional flow provided under the Friant HRL flow commitment is bypassed beyond each point of recapture to meet the HRL flow commitments identified in Bay-Delta Plan Section 4.4.9.

Table B.1-8. Friant HRL Flow Monitoring Locations

FLOW MONITORING LOCATION	SETTLEMENT REACH	GAGE	CDEC CODE	OPERATING AGENCY
Immediately below Friant Dam	Head of Reach 1	Friant Dam (Millerton)	MIL	Reclamation
Gravelly Ford	Head of Reach 2A	SJR at Gravelly Ford	GRF	Reclamation
Immediately below Chowchilla Bifurcation Structure	Head of Reach 2B	Below Chowchilla Bifurcation Structure	SJB	Reclamation
Top of Chowchilla Bypass	N/A	Chowchilla Bypass Headworks	CBP	SLDMWA
James Bypass upstream of SJR	N/A	James Bypass	JBP	Reclamation District 1606
Below Mendota Dam	Head of Reach 3	SJR near Mendota	MEN	Reclamation
Below Sack Dam	Head of Reach 4A	SJR near Dos Palos	SDP	DWR
Head of Sand Slough Bypass	Head of Reach 4B and Head of Sand Slough Bypass	SJR near Washington Road	SWA	DWR
Eastside Bypass	Head of Lower Eastside Bypass	Eastside Bypass below Mariposa Bypass	EBM	DWR
Below Lower Eastside Bypass	Head of Reach 5	SJR near Stevinson	SJS	DWR

FLOW MONITORING LOCATION	SETTLEMENT REACH	GAGE	CDEC CODE	OPERATING AGENCY
Merced River upstream of SJR	N/A	Merced River near Stevinson	MST	DWR
At the confluence of the Merced River	Tail of Reach 5	SJR above Merced River near Newman	SMN (the lessor of a synthetic flow rate utilizing multiple gages)	USGS
Near Patterson	N/A	SJR near Patterson	SJP	DWR
Tuolumne River upstream of SJR	N/A	Tuolumne River at Tuolumne City	TRT	DWR
Stanislaus River upstream of SJR	N/A	Stanislaus River at Koetitz	KOT	DWR
Near Vernalis	N/A	SJR near Vernalis	VNS	USGS

N/A = not applicable, SLDMWA = San Luis and Delta-Mendota Water Authority, SJR = San Joaquin River

B.1.12.5 Verification of Additive Flow

To demonstrate that Friant HRL flows are net additive flows above reference conditions as required by Bay-Delta Plan Section 4.4.9, Friant HRL participants must demonstrate the following:

i. Water Right Verification – Friant HRL participants must provide information requested by the Executive Director to comply with Bay-Delta Plan Section 4.4.9 as appropriate.

ii. Reduced SJRRP Recapture – Friant HRL participants will coordinate with Reclamation to reduce the volume of restoration flows recaptured in the San Joaquin River and Delta when necessary to contribute toward meeting the Friant HRL flow commitment. During year types when the Friant HRL has committed flows, the Friant HRL participants will demonstrate that reported monthly recapture of SJRRP flows is reduced by either 50 percent of the total recapturable restoration flow or to the extent necessary to achieve 50,000 AF of Delta outflow from SJRRP restoration flow releases. Currently permitted locations where recapture may be reduced include Patterson Irrigation District (PID), Banta-Carbona Irrigation District (BCID), and Jones and Banks Pumping Plants.

B.1.12.6 Reporting Requirements

Annually by March 1, Friant HRL participants must report the following to summarize reference conditions and HRL flows that occurred over the year:

i. Statements of whether or not HRL flow commitments were met and on what schedule, if and how flexibility brackets were used, and, if HRL flow commitments

were not met, how much of the HRL flow commitment was not provided each month.

ii. Summary of how monthly operations changed compared to reference conditions to bypass net additive flows.

iii. Documentation of current efforts to alleviate flow capacity constraints in the San Joaquin River that limit release of SJRRP flows and how these efforts are expected to reduce or increase SJRRP releases over the term of the VA pathway.

iv. Current recapture capacities and documentation of the assumptions and calculations that are used to determine the estimates, as well as documentation of the current limitations on recapture capacity that prevent full recapture of restoration flows and any efforts to expand recapture capacity.

v. Supporting documentation that HRL flow measures did not affect reference conditions, including on a seasonal basis and from year to year.

vi. Supporting documentation that implementation of the VA pathway has not resulted in another HRL water right holder included in the list of water rights in Appendix B.1 for the Friant System HRL, including as Appendix B.1 may be modified, reducing the amount of flow they bypass or release from storage, including to meet other regulatory obligations, due to the provision of HRL flows.

B.1.13 Mokelumne River Accounting Procedures

B.1.13.1 Introduction

This section describes the accounting procedures that the Mokelumne River HRL participants identified in Table B.1-13 will be required to follow in order to utilize the VA pathway identified in the Bay-Delta Plan. Water rights on the Mokelumne River that are not included in Table B.1-13 or otherwise included in the lists of HRL water rights will be subject to the regulatory pathway described in the Bay-Delta Plan. The accounting procedures described in this appendix are in addition to requirements included in Section 4.4.9 of the Bay-Delta Plan.

B.1.13.2 Description of Mokelumne River HRL Flow Commitments

The Mokelumne River HRL flows will be provided by reservoir reoperations without reservoir refill limitation or water supply demand reductions. Providing the Mokelumne River HRL flows is expected to result in a change in timing of flows and may increase flows at certain times but effects on net overall additive flows over time are not clear. For this reason, initially only the purchased volumes discussed below will be accounted for as contributing to increases in Delta outflows.

Mokelumne HRL participants will increase the 1998 Joint Settlement Agreement (JSA) minimum instream flow requirement at Camanche Reservoir release (described further

below) by 10,000, 20,000, and 45,000 AF in dry, below normal, and normal and above JSA water year types respectively, except in years when the March 1 median forecast of end-of-September total combined Pardee and Camanche storage is less than 350,000 AF when these increased flows do not apply. Based on their modeling, Mokelumne River HRL parties indicate that they expect these changes to result in long-term average increases to Delta inflow and associated Delta outflows above base conditions in critically dry, dry, and below normal Sacramento Valley Index years. While this HRL flow commitment is an increase to the JSA minimum instream flow requirement, this increased minimum instream flow requirement is often met from concurrent releases for flood control operations and thus will not always provide net additive Delta inflow. Mokelumne HRL flow releases from Camanche Reservoir will occur consistent with the default plan and flexibility brackets described in Bay-Delta Plan Section 4.4.9.

Modeling conducted by Mokelumne HRL participants demonstrated that the increases to the minimum instream flow requirements are not always expected to result in the estimated Mokelumne River HRL Delta inflow contributions of 5, 5, and 7 TAF for dry, below normal, and above normal Sacramento Valley Index water year types, respectively. To make up for the long-term modeled discrepancy in net additive Delta inflows, Mokelumne River HRL participants agreed to provide additional funding for the PWA market price purchase program equivalent to purchase 1 and 2 TAF of Delta inflow for below normal and above normal Sacramento Valley Index water year types respectively, which are reflected in this section of the HRL accounting.

B.1.13.3 Definition of Reference Conditions

Reference conditions that the Mokelumne River HRL flows are added to vary from reference conditions for HRL flow commitments that are being accounted for as additive Delta outflow contributions where there is a reduction in consumptive uses of surface water from fallowing or groundwater substitution. The Mokelumne River reference conditions that HRL flows are added to include:

i. Joint Settlement Agreement – The 1998 JSA between East Bay Municipal Utility District (EBMUD), USFWS, and DFW includes minimum releases required downstream of Camanche Reservoir and Woodbridge Irrigation District (WID) diversion dam. The minimum flow release schedule for the lower Mokelumne River relies on DWR's April 1 Bulletin 120 forecast and varies by Mokelumne River water year type (JSA year type).

   (a) In-Basin Diversions and Deliveries – Demands downstream of Camanche Reservoir and carriage water needed to make up for estimated stream losses and riparian diversions between Camanche Reservoir and Woodbridge Irrigation District's diversion dam are added to the minimum flow releases from Camanche Reservoir. Any future increases in

downstream demand are not included as volumes to meet HRL flow commitments.

ii. State Water Board Revised Decision 1641 (D-1641) – The reference instream flow requirement includes D-1641 requirements that apply on the Mokelumne River, which amended EBMUD and WID water rights on the lower Mokelumne River consistent with the JSA.

iii. Water Right Order 2016-0019-EXEC – The reference instream flow requirement includes Term 20 of Permit 10478 that requires EBMUD to release additional flow on top of JSA-required flows and is intended to facilitate fish passage below Woodbridge Dam from September through February in certain year types, which is dependent on water year runoff.

iv. Federal Energy Regulatory Commission (FERC) License – EBMUD's FERC license for Project No. 2916 (Lower Mokelumne River Project) is due to expire on March 31, 2031. EBMUD is in the process of filing a pre-application document for license renewal. As appropriate, this accounting document will be updated through a public process with an opportunity for public comments to account for the new license if it is issued during the term of the VA pathway, as appropriate.

B.1.13.4 Accounting of Reference Conditions and HRL Flow Commitment

During the term of the VA pathway, Mokelumne River HRL participants must coordinate implementation and monitoring decisions as outlined in Section B.1.3. State Water Board staff must be invited to participate in this coordination.

i. Reference and HRL Flow Accounting and Tracking – Annually, during the time periods in which Mokelumne River HRL flows may be provided, Mokelumne River HRL participants must, on a weekly basis, coordinate with other HRL participants and document through the public website tracking system identified in Section B.1.3 the information listed below for the following components: (1) forecasted and observed reference conditions, (2) planned HRL flow commitments for the coming month and season, and (3) completed HRL flow commitments to date. The information must be used to demonstrate that the Mokelumne River HRL flow commitments below Camanche Dam consistent with Sections B.1.13.2 and B.1.13.3 above and Section 4.4.9 of the Bay-Delta Plan, are met. The following specific information must be provided:

(a) Time series of daily storage within Camanche and Pardee Reservoirs.

(b) Time series of minimum flow requirements and daily observed flows below Camanche Reservoir at USGS gage #11323500 and below WID diversion dam at USGS gage #11325500.

(c) Time series of daily running total releases since January 1 in TAF to the Mokelumne River below Camanche Reservoir at USGS gage #11323500 and below WID diversion dam at USGS gage #11325500.

(d) Estimate of releases for stream losses and diversions between Camanche Reservoir and Woodbridge Irrigation District's diversion dam that would have been made in reference conditions and those actually made (if different than reference).

(e) Current JSA water year type determinations.

(f) Whether Mokelumne River HRL participants will adhere to the default HRL flow schedule of releases or provide flows on a different schedule consistent with the flexibility brackets identified in Bay-Delta Plan Section 4.4.9.

(g) Decision support tools and machine-readable documentation of components used to inform Mokelumne River operations and to calculate reference conditions and HRL flows below Camanche Dam, to the degree applicable.

B.1.13.5 Verification of Additive Flow

Verification of the net additive flows on the Mokelumne River is specific to verifying the increased minimum instream flow requirement is met. To demonstrate that Mokelumne River HRL flows are net additive flows above reference conditions as required by Bay-Delta Plan Section 4.4.9, Mokelumne River HRL participants must demonstrate the following:

i. Water Right Verification – Mokelumne River HRL participants must provide water right accounting to ensure that all water bypassed or released from storage to comply with Bay-Delta Plan Section 4.4.9 was made available under valid water rights where surface water is available under that right at the time it is being provided consistent with Section 4.4.9 of the Bay-Delta Plan (i.e., the water right is not subject to curtailment).

ii. Additive Mokelumne River Flow – HRL participants on the Mokelumne River plan to rely on reservoir reoperation to provide Mokelumne River HRL flows. Mokelumne River HRL participants will release or bypass sufficient flows to meet the increased minimum flow requirement below Camanche Dam on the Mokelumne River. To verify the increased minimum flow requirement at Camanche Dam is met, Mokelumne HRL participants must subtract the estimated stream losses and diversions between Camanche Dam and Woodbridge Irrigation District's diversion dam from the observed flows at Camanche Dam measured at USGS gage #11323500 and verify this is greater than or equal to the increased minimum instream flow requirement.

iii. Net Additive Delta Outflow – Mokelumne HRL participants have committed to provide additional funding for the PWA market-price purchase program to cover a total of 1,000 AF in below normal years, and 2,000 AF in above normal years as additional additive Delta inflow (using Sacramento Valley Index water year type). This accounting will be done consistent with the accounting for the PWA purchases. Mokelumne HRL participants may provide retrospective analyses that summarize accumulated incidental Delta inflows, on top of the purchased volumes, between January and June that result from the reservoir reoperation and increased minimum flow.

B.1.13.6 Reporting Requirements

Annually by March 1, Mokelumne River HRL participants must report the following to summarize reference conditions and HRL flows that occurred over the calendar year:

i. Statements of whether or not HRL flow commitments were met and on what schedule, if and how flexibility brackets were used, and, if HRL flow commitments were not met, how much of the HRL flow commitment was not provided each month.

ii. Summary of how monthly operations changed compared to reference conditions from January through December to provide HRL flows.

iii. Time series of the daily reference instream minimum flow requirement, HRL minimum flow requirement, observed flows, and reference and observed reservoir storage.

iv. Documentation of funding to the PWA market-price purchase program.

v. Supporting documentation of any effect that HRL flow measures had on reference conditions, including on a seasonal basis and from year to year.

vi. Supporting documentation that water use has not increased to reduce base flows in a manner inconsistent with the provision to protect the HRL base flows (reference conditions) described in Bay-Delta Plan Section 4.4.9.

vii. Supporting documentation that implementation of the VA pathway has not resulted in another HRL water right holder included in the list of water rights in Appendix B.1 for the Mokelumne River HRL, including as Appendix B.1 may be modified, reducing the amount of flow they bypass or release from storage, including to meet other regulatory obligations, due to the provision of HRL flows.

B.1.14 Putah Creek Accounting Procedures

B.1.14.1 Introduction

This section describes the accounting procedures that HRL participants identified in Table B.1-14 contributing HRL flows to Putah Creek will be required to follow in order to utilize the VA pathway identified in the Bay-Delta Plan. The procedures include actions by Yolo County Flood Control and Water Conservation District (YCFCWCD) and other water right holders to provide surface water or banked groundwater originating from Cache Creek to supplement flows in Putah Creek. Water rights on Putah Creek and Cache Creek that are not included in Table B.1-14 or otherwise included in the lists of HRL water rights will be subject to the regulatory pathway described in the Bay-Delta Plan. The accounting procedures described in this appendix are in addition to requirements included in Section 4.4.9 of the Bay-Delta Plan.

B.1.14.2 Description of Putah Creek HRL Flow Commitments

In each applicable year, Putah Creek HRL participants will provide a total of 6,000 AF of flow in dry, below normal, and above normal water year types and 7,000 AF of flow in critical water years into lower Putah Creek, consistent with the default plan and flexibility brackets described in Bay-Delta Plan Section 4.4.9, above reference conditions described in this appendix. YCFCWCD HRL participants will provide an additional 5,000 AF to Putah Creek in dry, below normal, and above normal water year types consistent with the default plan and flexibility brackets. HRL flows are determined using water year types as described in Section B.1.3. As detailed in the following sections, the reference instream flow conditions that the Putah Creek and YCFCWCD HRL flows are added to are based on a different water year type than the HRL flow commitments.

The Putah Creek HRL flows will be provided by reservoir reoperations without reservoir refill limitation or water supply demand reductions. The YCFCWD HRL flows will be provided either through (1) purchases or exchanges to supply additional Putah Creek water to Putah Creek or, (2) upon approval of a water right permit for diversions from the Cache Creek watershed, Cache Creek surface water or recharged groundwater provided that there are no significant adverse impacts to water quality in accordance with Section 4.4.9. The Putah Creek and YCFCWCD HRL commitments are expected to result in a change in timing of flows and may increase flows at certain times but may not provide net overall additive flows over time and are not accounted for as contributing to increases in Delta outflows above reference conditions.

B.1.14.3 Definition of Reference Conditions

Reference conditions that the Putah Creek and YCFCWCD HRL flows are added to vary from reference conditions for other HRL flow commitments that are being accounted for as additive Delta outflow contributions where there is a reduction in consumptive uses of surface water from fallowing or groundwater substitution. The primary reference condition provisions related to the Putah Creek and YCFCWCD HRL flow commitments are defined further below.

i. 2000 Putah Creek Accord Flow Requirements – The Putah Creek Accord instream flow requirements, as stipulated in the Putah Creek Accord settlement, apply at the following compliance points: (1) Putah Diversion Dam, (2) Interstate 80 (I-80), and (3) periodically at the Los Rios Check Dam. In addition to the instream flow requirement, the Putah Creek Accord flows also include a spring pulse, fall pulse, and respective ramp down flows, which are all part of the required Putah Creek Accord flows.

(a) As stated in the Putah Creek Accord, the instream flow requirements change depending on April 1 Lake Berryessa storage conditions. A "dry year" release schedule is triggered when the total storage in Lake Berryessa is less than 750,000 AF on April 1. "Normal year" releases are reinstated in the event that total lake storage equals or exceeds 750,000 AF prior to the following April 1. Additional rules apply when consecutive dry years occur and are detailed in the Putah Creek Accord.

(b) Reference conditions include riparian diversions and losses from Putah Creek as calculated according to methods detailed in the Putah Creek Accord.

ii. Uncontrolled Flood Flows – Reference conditions include any flood spills from Lake Berryessa and accretions and flood flows from tributaries downstream of Lake Berryessa before reaching Putah Diversion Dam.

B.1.14.4 Accounting of Reference Conditions and HRL Flow Commitment

During the term of the VA pathway, Putah Creek and YCFCWCD HRL participants must coordinate implementation and monitoring decisions as outlined in Section B.1.3. State Water Board staff must be invited to participate in this coordination.

i. Reference and HRL Flow Accounting and Tracking – Annually, during the time period in which Putah Creek and YCFCWCD HRL flows may be provided, Putah Creek and YCFCWCD HRL participants must, on a weekly basis, coordinate with other HRL participants and document through the public website tracking system as identified in Section B.1.3 the information listed below for the following components: (1) forecasted and observed reference conditions, (2) planned HRL flow commitments for the coming month and season, and (3) completed HRL flow commitments to date. The information must be used to demonstrate that the additional Putah Creek HRL flow commitments are provided to contribute to additive lower Putah Creek flows above reference conditions consistent with Sections B.1.14.2 and B.1.14.3 above and Section 4.4.9 of the Bay-Delta Plan. The following specific information must be provided:

(a) Time series of daily storage in Lake Berryessa.

(b) Time series of minimum flow requirements and daily observed flows at gages specified in Table B.1-9.

(c) Time series of daily running total releases since October 1 in TAF to lower Putah Creek from the Putah Diversion Dam.

(d) Current water year type determinations for both the Sacramento Valley Index and Putah Creek Accord.

(e) Whether Putah Creek HRL participants will adhere to the default HRL flow schedule or provide flows on a different schedule consistent with the flexibility brackets identified in Bay-Delta Plan Section 4.4.9.

(f) Decision support tools and machine-readable documentation of components used to inform Putah Creek operations and to calculate reference conditions, HRL flows on Putah Creek, and HRL flows additive to lower Putah Creek.

ii. Measurement of Flow Commitments – The Putah Creek and YCFCWCD HRL flow commitment must be measured at each Putah Creek Accord compliance gage location, consisting of the Putah Diversion Dam, I-80, and the Los Rios Check Dam (see Table B.1-9), to verify that HRL flows are additive to reference conditions at each compliance location. In the event gages are offline, Putah Creek HRL participants must notify the State Water Board with an estimate of time for gages to be brought back online. Any YCFCWCD HRL flow commitment made available by releases of Cache Creek surface water and pumped groundwater into lower Putah Creek must be measured at the outlet from the University Canal and at each downstream Putah Creek Accord compliance gage location (see Table B.1-9), to verify that HRL flows are additive to reference conditions.

Table B.1-9. Location of Compliance Gages in Lower Putah Creek

LOCATION	DESCRIPTION OF FLOW MEASUREMENTS
Putah Diversion Dam	Standard Reclamation hydraulic charts and equations for (a) Venturi and (b) Radial Gate operations. Daily and near real-time (Supervisory Control and Data Acquisition) instrumentation. Site is telemetered and reported on the Solano County Water Agency (SCWA) website.
I-80	Stream gage station, with frequent (monthly to weekly) flow wading measurements. Rated only for compliance flows, up to 100 cfs. Site is telemetered and reported on the SCWA website.
Los Rios Check Dam	Periodic observations and flow measurements. Stage sensor at the upstream side of the Check Dam. Dam leakage is estimated at 1 to 5 cfs, depending on water depth. Site is telemetered (stage) and reported on the SCWA website.

B.1.14.5 Verification of Additive Flow

To demonstrate that Putah Creek and YCFCWCD HRL flows are additive flows to lower Putah Creek being provided above reference conditions as required by Bay-Delta Plan Section 4.4.9, Putah Creek and YCFCWCD HRL participants must demonstrate the following:

i. Water Right Verification – Putah Creek and YCFCWCD HRL participants must provide water right accounting to ensure that all water bypassed or released from storage or diverted from Cache Creek or banked groundwater to comply with Bay-Delta Plan Section 4.4.9 was made available under valid water rights where surface water is available under that right at the time it is being provided consistent with Section 4.4.9 of the Bay-Delta Plan (i.e., the water right is not subject to curtailment).

ii. Putah Creek Reservoir Reoperation – Putah Creek HRL participants plan to rely on reservoir reoperation to provide HRL flows. Putah Creek HRL participants will release or bypass HRL flows from Lake Berryessa in excess of what would be released under reference conditions and with the other HRL Putah Creek flow commitments from YCFCWCD. The flows will be verified as additive to lower Putah Creek by demonstrating that increased flows above reference conditions have been provided at specified flow gages identified in Section B.1.14.4(ii).

iii. Putah Creek Purchases and Exchanges – YCFCWCD HRL participants may rely on purchases or exchanges with other water right holders leading to a reduced demand on Putah Creek surface water that will be released as additive flows to lower Putah Creek. YCFCWCD HRL participants will coordinate the release or bypass of HRL flows in excess of what would be released under reference conditions and with the other HRL Putah Creek flow commitments. The YCFCWCD flows will be verified as additive to lower Putah Creek by demonstrating that increased flows above reference conditions have been provided at specified flow gages identified in Section B.1.14.4(ii).

iv. Cache Creek Flows Released into Putah Creek – YCFCWCD HRL participants may divert surface water or banked groundwater from Cache Creek into Putah Creek to meet HRL flow commitments if a permit for Cache Creek diversions has been approved and there would be no significant adverse impact to water quality from providing Cache Creek flows to Putah Creek. Any Cache Creek flows provided to Putah Creek by YCFCWCD to meet HRL flow commitments will be verified as additive to lower Putah Creek by demonstrating that increased flows above reference conditions have been provided at specified flow gages identified in Section B.1.14.4(ii).

B.1.14.6 Reporting Requirements

Annually by March 1, Putah Creek and YCFCWCD HRL participants must report the following to summarize reference conditions and HRL flows that occurred over the year. All applicable reference conditions and HRL flows must be reported separately for Putah Creek and Cache Creek:

i. Statements of whether or not HRL flow commitments were met and on what schedule, if and how flexibility brackets were used, and, if HRL flow commitments were not met, how much of the HRL flow commitment was not provided each month.

ii. Summary of how monthly operations changed compared to reference conditions to bypass net additive flows and refill reservoirs (if refilled), and if flood spill occurred.

iii. Summary of the volumes of HRL water provided by water right using reservoir reoperation, purchases and exchanges, and Cache Creek surface water and banked groundwater.

iv. Summary of HRL flows measured at gages for each of the Putah Creek Accord compliance locations.

v. Supporting documentation of any effect that HRL flow measures had on reference conditions, including on a seasonal basis and from year to year.

vi. Supporting documentation demonstrating that water use has not increased to reduce base flows in a manner inconsistent with the provision to protect the HRL base flows (reference conditions) described in Bay-Delta Plan Section 4.4.9.

vii. Supporting documentation that implementation of the VA pathway has not resulted in another HRL water right holder included in the list of water rights in Appendix B.1 for the Putah Creek HRL, including as Appendix B.1 may be modified, reducing the amount of flow they bypass or release from storage, including to meet other regulatory obligations, due to the provision of HRL flows.

B.1.15 Yuba River Accounting Procedures

B.1.15.1 Introduction

This section describes the accounting procedures that Yuba River HRL participants identified in Table B.1-15 will be required to follow in order to utilize the VA pathway identified in the Bay-Delta Plan. Water rights on the Yuba River that are not included in Table B.1-15 or otherwise included in the lists of HRL water rights will be subject to the regulatory pathway described in the Bay-Delta Plan. The accounting procedures described in this appendix are in addition to requirements included in Section 4.4.9 of the Bay-Delta Plan.

B.1.15.2 Description of Yuba River HRL Flow Commitments

In each applicable year, Yuba River HRL participants will provide up to a total of 50,000 AF of net additive inflows and contributions to Delta outflows from the Yuba River, consistent with the default plan and flexibility brackets described in Bay-Delta Plan Section 4.4.9, above reference conditions described in this appendix. HRL flows are to be provided in above normal, below normal, and dry water year types, as determined by Section B.1.3.

The Yuba River HRL flows will be provided by reservoir reoperations with limitations on reservoir refill to periods when the Delta is in excess conditions consistent with refill provisions included in the Yuba River Accord. The refill limitations are intended to protect Project water supplies. The Yuba River HRL flow commitment is expected to result in a change in timing of flows, with increased flows at certain times and decreased flows at other times caused by reservoir reoperation that will vary based on storage and refill conditions.

The total annual Yuba River HRL flow contribution of up to 50 TAF is made available through two components (Component A and Component B) as follows:

i. Component A is the portion of Yuba Accord released transfer water in April, May, and June that cannot be backed into SWP or CVP storage upstream from the Delta or exported by DWR.

ii. Component B is an additional flow that can be achieved by operating New Bullards Bar Reservoir to a September 30 target storage level of 600 TAF instead of to the reference condition target of 650 TAF. Component B has a maximum value of the projected end-of-September storage without the Yuba River HRL flow, minus 600 TAF. For example, if Yuba River HRL participants project that end-of-September storage at New Bullards Bar will be 650 TAF without the HRL flow commitment, Component B has a maximum value of 50 TAF. If Yuba River HRL participants project that end-of-September storage at New Bullards Bar will be 630 TAF without the HRL flow commitment, Component B would have a maximum value of 30 TAF.

B.1.15.3 Definition of Reference Conditions

Reference conditions are defined as operational conditions, including flows, water diversions, and reservoir operations as they would occur prior to implementation of the VA pathway. The primary reference condition provisions related to the Yuba River HRL flow commitments are defined further below.

i. State Water Board Regulatory Instream Flow Requirements – Reference conditions include Yuba Accord required flows, as implemented by Water Right Order 2008-0014 and corrected by Water Right Order 2008-0025.

ii. End-of-September Target Storage – The reference condition for Component B flows includes operations to meet an end-of-September target storage of 650 TAF in New Bullards Bar Reservoir.

iii. Total Water Released for Yuba Accord Transfer – The quantity of Component A flow is based, in part, on the total quantity of Yuba Accord transfer water that is available under reference conditions, which is determined based on calculating the reservoir storage and streamflow needed to attain (1) an end-of-September New Bullards Bar Reservoir storage of 705 TAF, and (2) mean daily flows that comply with State Water Board Decision 1644 interim flow requirements at the USGS gages on the Yuba River at Marysville (USGS gage #11421000) and near Smartsville (USGS gage #11418000).

iv. Federal Energy Regulatory Commission (FERC) Licenses – Reference conditions include FERC license required flows and operational terms for the Yuba River Development Project (Project 2246), as well as any requirements included in the November 22, 2005 FERC order amending the license. The FERC license for Project 2246 expired on April 30, 2016. FERC Project 2246 has been operating under temporary annual licenses that allow operation of the project under existing conditions until FERC issues a new license with updated terms and conditions. In the event a new license is issued by FERC, and this accounting document needs to be updated to account for the new license, updates will be made through a public process with opportunity for public review and comment, as appropriate.

v. Water Service Agreements – Reference conditions include the resulting Yuba River flows and New Bullards Bar Reservoir storage conditions reflecting levels of water diversions from the Yuba River water service agreements between YWA and their eight member units as they would occur prior to implementation of the VA pathway. The member units are local water districts that receive water from YWA.

vi. Flood Risk Reduction Requirements – Reference conditions for the Feather River include Yuba River flows and New Bullards Bar Reservoir storage conditions as they would occur prior to implementation of the VA pathway to meet provisions of flood control storage requirements and schedules as outlined in the USACE Water Control Manual as well as forecasted uncontrolled flows from the Middle and South forks of the Yuba Rivers. The Water Control Manual requirements may be revised in the future. In the event the Water Control Manual is changed, this accounting document will be updated through annual or periodic review processes with opportunity for public comment, as appropriate.

B.1.15.4 Accounting of Reference Conditions and HRL Flow Commitment

During the term of the VA pathway, Yuba River HRL participants must coordinate implementation and monitoring decisions as outlined in Section B.1.3. State Water Board staff must be invited to participate in this coordination.

i. Reference and HRL Flow Accounting and Tracking – Annually, starting by February 1 and weekly thereafter up to and during the time period in which Yuba River HRL flows may be provided, Yuba River HRL participants must coordinate with other HRL participants and document through the public website tracking system as identified in Section B.1.3 the information listed below for the following components: (1) forecasted and observed reference conditions, (2) planned HRL flow commitments for the coming month and season, and (3) completed HRL flow commitments to date. The information must be used to demonstrate that the additional Yuba River HRL flow commitments are provided to contribute to additive Delta outflows above reference conditions consistent with Sections B.1.15.2 and B.1.15.3 above and Section 4.4.9 of the Bay-Delta Plan and to document the amount of flow provided up to 50 TAF. The following specific information must be provided:

   (a) Time series of daily inflow, outflow, and storage in New Bullards Bar Reservoir.

   (b) Time series of daily amount of transfer water released from New Bullards Bar Reservoir and a breakdown of its end use (amount exported, amount backed into SWP or CVP storage, and amount that cannot be used by the Projects).

   (c) Time series of daily flow at the USGS gage #11421000, Yuba River near Marysville, and USGS gage #11418000, Yuba River below Englebright Dam near Smartsville, under the reference conditions and in real time.

   (d) Related to Component A: From April through June, Yuba River HRL participants will deliver weekly reports on running total preliminary and confirmed Component A to the State Water Board. These reports will include the volumes of Yuba Accord released transfer water, component A water, delivered transfer water, and stored transfer water that were released during the reporting week.

   (e) Related to Component B: From April through June, Yuba River HRL participants will deliver weekly reports on Component B to the State Water Board. These reports will include the volume of Component B water released from New Bullards Bar, the current amount of water stored in New Bullards Bar, and the expected impact of Component B on end-of-September storage. If Yuba River HRL participants are reporting Component A during the reporting time period, these reports will indicate

how Component B releases have been altered due to the presence of Component A water, and how Component A and B contribute to the target flow commitment of 50 TAF.

(f) In-basin water supply deliveries and transfers that would have been made in reference conditions and those actually delivered to in-basin water right holders and contractors (if different than reference).

(g) Current water year type determinations.

(h) Whether Yuba River HRL participants will adhere to the default HRL flow schedule of releases or provide flows on a different schedule consistent with the flexibility brackets identified in Bay-Delta Plan Section 4.4.9.

(i) Daily running and forecasted New Bullards Bar Reservoir flood control reservation as defined by the USACE Flood Control Diagram and whether YWA is operating or plans to operate to meet flood control requirements.

(j) Decision support tools and machine-readable documentation of components used to inform Yuba River operations and to calculate reference conditions, HRL flows below Englebright Dam, and HRL flows additive to Delta inflow.

ii. Measurement of Flow Commitment – The reference condition for Components A and B is the flow in the Yuba River near Marysville. Reference flows will be determined as mean daily flows in cfs, with a separate determination for each day of the HRL flexibility bracket period. The actual measured flow in excess of reference flow provides the Component B HRL flow contribution. Component A flow will not increase flows in the Yuba River near Marysville. Rather, a portion of the flow at Marysville is comprised of annual transfer water used primarily for consumptive purposes under reference conditions. Component A water is the portion of these annual transfers that cannot be backed into SWP or CVP storage upstream from the Delta or exported by DWR.

As both Component A and Component B necessarily rely upon releases of stored water, both flow amounts are also subject to refill provisions. Component A evacuated storage contributing to Delta outflow will be tracked and calculated based on Yuba Accord accounting, while Component B refill will be tracked as a separate volume, consistent with Yuba Accord accounting and reservoir refill accounting in Section B.1.15.5. For both, refill impacts will be repaid with future reservoir storage releases and so will reduce the quantity of Component A and Component B flows in following months or years. This adjustment may occur in the current year or in subsequent years, depending on hydrology. Thus, a full accounting of net additive inflow to the Delta for Component A and B flows may not be available within the reporting year.

B.1.15.5 Verification of Additive Flow

As part of current operations under the Yuba Accord, Yuba River HRL participants will forecast and account for released transfer water, as required in the Water Purchase Agreement. This will also be accounted for as Component A through existing Yuba Accord accounting.

To demonstrate that Yuba River HRL flows are net additive flows above reference conditions as required by Bay-Delta Plan Section 4.4.9, Yuba River HRL participants must demonstrate the following:

i. Water Right Verification – Yuba River HRL participants must provide water right accounting to ensure that all water bypassed or released from storage to comply with Bay-Delta Plan Section 4.4.9 was made available under valid water rights where surface water is available under that right at the time it is being provided consistent with Section 4.4.9 of the Bay-Delta Plan (i.e., the water right is not subject to curtailment).

ii. Recharacterized Flows at Marysville – Using the modeling and accounting provisions of the Yuba Accord, Yuba River HRL participants must demonstrate that any portion of the reference flows at Marysville that has been recharacterized as Component A flows has not been consumptively used.

iii. Reservoir Reoperation and Refill Accounting – Yuba River HRL participants plan to rely on reservoir reoperation to provide Component B flows. Yuba River HRL participants will release or bypass up to 50 TAF of water from New Bullards Bar Reservoir during April through June in excess of what would be released annually under reference conditions. New Bullards Bar operators will target an end-of-September storage target of 600 TAF, which is 50 TAF less than the reference conditions storage target, though not necessarily the actual storage difference that will occur. If the end-of-September carryover storage under the reference condition is greater than 600 TAF, YWA is required to provide the difference between the reference condition carryover storage and 600 TAF as additive Delta inflow up to 50 TAF. The flows will be verified as additive by demonstrating that increased flows above reference conditions have been provided at USGS gage #11421000, Yuba River near Marysville. Yuba River HRL participants must conduct, and report through the public website tracking system described in Section B.1.3, refill accounting at New Bullards Bar Reservoir. This accounting must identify periods and volumes of refill and include a daily time series of reference and observed inflows, outflows, and storage that starts when HRL participants begin to provide the reservoir reoperation portion of the Yuba River HRL flow commitment and ends when the storage deficit compared to reference conditions has been refilled.

B.1.15.6 Reporting Requirements

Annually by March 1, Yuba River HRL participants must report the following to summarize reference conditions and HRL flows that occurred over the previous year:

i. Statements of what carryover storage was operated to, what volume of HRL flow above reference conditions was provided and on what schedule, if and how flexibility brackets were used, and, if HRL flow commitments were not met, how much of the HRL flow commitment was not provided each month.

ii. Summary of how monthly operations changed throughout the year compared to reference conditions to bypass net additive flows and refill reservoirs (if refilled), and if flood control operations or spill occurred.

iii. Summary of the volumes of HRL water provided by water right using reservoir reoperations.

iv. Summary of HRL flow commitments measured at gages for each of the Yuba Accord compliance locations.

v. Supporting documentation of any effect that HRL flow measures had on reference conditions by tracking total volumes being refilled for the Component B releases and when refill occurs, including on a seasonal basis and from year to year.

vi. Supporting documentation demonstrating that water use has not increased to reduce base flows in a manner inconsistent with the provision to protect the HRL base flows (reference conditions) described in Bay-Delta Plan Section 4.4.9.

vii. Supporting documentation that implementation of the VA pathway has not resulted in another HRL water right holder included in the list of water rights in Appendix B.1 for the Yuba River HRL, including as Appendix B.1 may be modified, reducing the amount of flow they bypass or release from storage, including to meet other regulatory obligations, due to the provision of HRL flows.

B.1.16 Bear River, Yuba River, and Auburn Ravine (Nevada Irrigation District) Accounting Procedures

B.1.16.1 Introduction

This section describes the accounting procedures that the Nevada Irrigation District (NID) HRL participants identified in Table B.1-16, or another water right table in this appendix, will be required to follow in order to utilize the VA pathway identified in the Bay-Delta Plan. Water rights on the Bear River that are not included in Table B.1-16 or otherwise included in the lists of HRL water rights will be subject to the regulatory pathway described in the Bay-Delta Plan. The accounting procedures described in this

appendix are in addition to requirements included in Section 4.4.9 of the Bay-Delta Plan.

B.1.16.2 Description of Nevada Irrigation District HRL Flow Commitments

NID HRL participants will provide up to 5,600 AF in dry, below normal, and above normal water year types as determined by Section B.1.3, in order to provide an increase in Delta inflow and associated Delta outflows above reference conditions. The NID HRL flows will be provided in three components. Components 1 and 2 will begin upon implementation of the VA pathway. Component 3 will replace Component 1 and 2 when a new FERC Project 2266 license is adopted.

To provide Component 1 water, NID will consult with NMFS, DFW, and the State Water Board to redirect water spilling from Rollins Reservoir to Auburn Ravine. This water will be provided during above normal, below normal, and dry years consistent with the default plan and flexibility brackets described in Bay-Delta Plan Section 4.4.9, above reference conditions described in this appendix. The amount of water to be provided to Auburn Ravine ranges between 0 and 3,600 AF. The water to be provided to Auburn Ravine will cease when Rollins Reservoir ceases spilling, or by April 15, whichever is earlier. The HRL flows into Auburn Ravine will not be counted as additive to Delta outflow.

Component 2 will be provided by reservoir reoperations with limitations on reservoir refill to periods when the Delta is in excess and surface water is available under the water right conducting the refill at the time it is being diverted to storage for refill. The refill limitations are intended to protect Project water supplies. NID HRL flow releases from Rollins Reservoir and through Lake Combie will occur after Rollins Reservoir has ceased spilling and consistent with the default plan and flexibility brackets described in Bay-Delta Plan Section 4.4.9. If unable to release the full HRL flow commitment due to prolonged spilling, HRL participants may propose for Executive Director approval, consistent with Bay-Delta Plan Section 4.4.9, that the NID HRL flows be provided outside of the January through June period, or not provided that year. Component 2 of the NID HRL flow commitments is expected to result in a change in timing of flows, with increased flows at certain times and decreased flows at other times caused by reservoir reoperation that will vary based on storage and refill conditions and will contribute varying amounts to Delta outflow above reference conditions (base flows).

Component 3 is intended to be provided by water supply delivery reductions. After adoption of a new FERC license, NID HRL participants plan to provide the Component 3 HRL flows by reductions in deliveries, following which, NID HRL participants must provide necessary information to verify that committed contributions to Delta outflows are provided and in addition to contributions provided as part of the Yuba River HRL. This accounting document will be updated as appropriate through a public process once additional information is available.

B.1.16.3 Definition of Reference Conditions

Reference conditions are defined as operational conditions, including flows, water diversions, and reservoir operations conditions as they would occur prior to implementation of the VA pathway. The primary reference condition provisions related to the NID HRL flow commitments are defined further below.

i. FERC Requirements – NID owns and operates the Yuba-Bear Hydroelectric Project (FERC Project 2266). The license for the facilities expired in 2013 and continues to operate under administrative extension. In the event a new license is issued by FERC, this appendix will be updated to account for the new license through the annual or periodic review process with opportunity for public review and comment on those changes, as appropriate.

ii. In-Basin Deliveries – Under existing requirements for FERC Project 2266, NID is required to maintain a minimum instream flow downstream of Rollins Reservoir ranging between 20 to 75 cfs in normal conditions and 15 to 40 cfs in less than normal conditions. When Rollins Reservoir ceases spilling, instream flows in excess of required flows below Lake Combie are captured upstream of Camp Far West Reservoir and delivered to NID customers.

iii. Minimum Instream Bypass – Per water right Decision 914, NID is required to maintain a year-round minimum instream flow below Lake Combie of the lesser of 5 cfs or natural flow. The flow requirement changes at the release from Camp Far West Reservoir, which is operated by South Sutter Water District.

iv. Flood Control – Reservoirs operated by NID do not have USACE flood control curves. Rollins Reservoir and Lake Combie spill when the reservoirs reach capacity. Reference conditions include reservoir spills from Rollins Reservoir and Lake Combie.

B.1.16.4 Accounting of Reference Conditions and HRL Flow Commitment

During the term of the VA pathway, NID HRL participants must coordinate implementation and monitoring decisions as outlined in Section B.1.3. State Water Board staff must be invited to participate in this coordination.

i. Reference and Flow Commitment Tracking and Accounting – Annually, starting February 1 and weekly thereafter, during the time period in which the NID HRL flow commitments may be provided, NID and other applicable HRL participants must coordinate with other HRL participants and document through the public website tracking system as identified in Section B.1.3 the information listed below for the following components: (1) forecasted and observed reference conditions, (2) planned HRL flow commitments for the coming month and season, and (3) completed HRL flow commitments to date. The information must be used to

demonstrate that the additional NID HRL flow commitments are provided to contribute to additive NID flows and Delta inflow above reference conditions consistent with Sections B.1.16.2 and B.1.16.3 above and Section 4.4.9 of the Bay-Delta Plan. The following specific information must be provided:

(a) Time series of daily inflow, outflow, and storage in Rollins Reservoir,

(b) Time series of minimum bypass flow requirements and daily observed and reference flows at Combie South Power House flow meter (BR 339), Bear River at Rollins gage (USGS gage #11422500), and at USGS gage #11424000 (Bear River near Wheatland).

(c) Time series of daily running total releases since January 1 in TAF to the Bear River below Rollins Reservoir.

(d) Water supply deliveries that would have been made in reference conditions and those actually delivered (if different than reference) to in-basin water right holders and water users and releases made for water transfer purposes.

(e) Current water year type determinations.

(f) Whether NID HRL participants will adhere to the default HRL flow schedule of releases or provide flows on a different schedule consistent with the flexibility brackets identified in Bay-Delta Plan Section 4.4.9.

(g) Decision support tools and machine-readable documentation of components used to inform Bear River operations and to calculate reference conditions, HRL flows below Rollins Reservoir, and HRL flows additive to Delta inflow, to the degree applicable.

ii. Measurement of Flow Commitments – The NID HRL flow commitment must be measured at the Combie South Power House flow meter (BR 339), Bear River at Rollins gage (USGS gage #11422500), and at Bear River near Wheatland (BRW) to verify that HRL flows are additive to reference conditions at each compliance location. In the event that the gages are offline, NID HRL participants must notify the State Water Board with an estimate of time for gages to be brought back online.

B.1.16.5 Verification of Additive Flow

To demonstrate that NID HRL flows are additive above reference conditions as required by Bay-Delta Plan Section 4.4.9, NID must demonstrate the following:

i. Water Right Verification – NID HRL participants must provide water right accounting to ensure that all water bypassed or released from storage to comply with Bay-Delta Plan Section 4.4.9 was made available under valid water rights

where surface water is available under that right at the time it is being provided consistent with Section 4.4.9 of the Bay-Delta Plan (i.e., the water right is not subject to curtailment). To the extent that NID HRL participants bypass or release water from storage in advance of fallowing taking place under another water right, both sets of rights must be identified at least 90 days in advance of the land fallowing, or the bypass or release, whichever occurs first. Water right accounting must be provided to document both bypasses of inflows, or releases of previously stored water, and reductions in use by other parties under valid un-curtailed surface water rights or groundwater rights using fallowing or groundwater substitution to refill reservoirs.

ii. Reservoir Reoperation and Refill Accounting– NID HRL participants plan to rely on reservoir reoperation for their Component 2 HRL flow commitments. NID HRL participants will release or bypass up to 5,600 AF of HRL flows from Rollins Reservoir in excess of what would be released under reference conditions. NID HRL participants must conduct, and report through the public website tracking system described in Section B.1.3, refill accounting at each reservoir being reoperated. This accounting must identify periods and volumes of refill and include a daily time series of reference and observed inflows, outflows, and storage that starts when HRL participants begin to provide the reservoir reoperation portion of the NID HRL flow commitment and ends when the storage deficit compared to reference conditions has been refilled.

B.1.16.6 Reporting Requirements

Annually by March 1, NID HRL participants must report the following to summarize reference conditions and HRL flows that occurred over the previous year:

i. Statements of whether or not HRL flow commitments were met and on what schedule, if and how flexibility brackets were used, and, if HRL flow commitments were not met, how much of the HRL flow commitment was not provided each month.

ii. Summary of how monthly operations changed compared to reference conditions from October through September to bypass net additive flows and refill reservoirs (if refilled), and if flood control operations or spill occurred.

iii. Summary of the volumes of HRL water provided by water right using land fallowing, groundwater substitution, and reservoir reoperations.

iv. Supporting documentation of any effect that HRL flow measures had on reference conditions, including on a seasonal basis and from year to year.

v. Supporting documentation demonstrating that water use has not expanded to reduce base flows in a manner inconsistent with the provision to protect the HRL base flows (reference conditions) described in Bay-Delta Plan Section 4.4.9.

vi. Supporting documentation that implementation of the VA pathway has not resulted in another HRL water right holder included in the list of water rights in Appendix B.1 for the NID HRL, including as Appendix B.1 may be modified, reducing the amount of flow they bypass or release from storage, including to meet other regulatory obligations, due to the provision of HRL flows.

B.1.17 Bear River (South Sutter Water District) Accounting Procedures

B.1.17.1 Introduction

This section describes the accounting procedures that the South Sutter Water District (SSWD) HRL participants identified in Table B.1-17, or another water right table in this appendix, will be required to follow in order to utilize the VA pathway identified in the Bay-Delta Plan. Water rights on Bear River that are not included in Table B.1-17 or otherwise included in the lists of HRL water rights will be subject to the regulatory pathway described in the Bay-Delta Plan. The accounting procedures described in this appendix are in addition to requirements included in Section 4.4.9 of the Bay-Delta Plan.

B.1.17.2 Description of South Sutter Water District HRL Flow Commitments

Prior to adoption of a new FERC license, SSWD HRL participants will rely on reservoir reoperations with refill limitations. After adoption of a new FERC license, SSWD plans to operate to the FERC minimum flows. With the new FERC minimum flows, Delta inflow may be incidentally increased at times above the 4,400 AF commitment. Only the 4,400 AF will be accounted for as additive Delta outflow. The details and timing of the FERC adoption process are unknown. This accounting document will be updated as appropriate through a public process once additional information is available.

SSWD HRL participants will provide up to 4,400 AF in dry, below normal, and above normal water year types as determined by Section B.1.3 in order to provide an increase in Delta inflow and associated Delta outflows above reference conditions. SSWD HRL flow releases from Camp Far West will occur after Camp Far West has ceased spilling and consistent with the default plan and flexibility brackets described in Bay-Delta Plan Section 4.4.9. If unable to release the full HRL flow commitment due to prolonged spilling, HRL participants may propose for Executive Director approval, consistent with Bay-Delta Plan Section 4.4.9, that the SSWD HRL flows be provided outside of the January through June period, or not provided that year.

The SSWD HRL flows will be provided, without water supply demand reductions, by reservoir reoperations with limitations on reservoir refill to periods when the Delta is in excess and surface water is available under the water right conducting the refill at the time it is being diverted to storage for refill. The refill limitations are intended to protect Project water supplies and only apply for contributions that exceed 792 AF. Providing SSWD HRL flows is expected to result in a change in timing of flows, with increased flows at certain times and decreased flows at other times caused by reservoir reoperation that will vary based on storage and refill conditions and will contribute varying amounts to Delta outflow above reference conditions (base flows).

B.1.17.3 Definition of Reference Conditions

Reference conditions that the SSWD HRL flows are added to vary from reference conditions for HRL flow commitments that are being accounted for as additive Delta outflow contributions where there is a reduction in consumptive uses of surface water from fallowing or groundwater substitution. The primary reference condition provisions related to the SSWD HRL flow commitments are defined further below.

i. FERC Requirements – SSWD owns and operates Camp Far West (FERC Project 2997). The current license for the facility expired in 2021 and is currently operating under an administrative extension. In the event a new license is issued by FERC, this accounting document will be updated as appropriate to account for the new license through the annual or periodic review process with opportunity for public review and comment on those changes.

ii. Minimum Instream Bypass Requirements – Reference conditions for SSWD operations include water rights diversions and collections to storage on the Bear River at Camp Far West Reservoir (Licenses L011120 and L011118). These water rights include minimum instream bypass flows of 25 cfs during the period of April 1 through June 30, and 10 cfs during the period of July 1 through March 31 of the following year.

iii. Flood Risk Reduction and Spills – Camp Far West Reservoir does not have USACE flood control curve and spills when it reaches storage capacity. Reference conditions include reservoir spills from Camp Far West Reservoir.

B.1.17.4 Accounting of Reference Conditions and HRL Flow Commitment

During the term of the VA pathway, SSWD HRL participants must coordinate implementation and monitoring decisions as outlined in Section B.1.3. State Water Board staff must be invited to participate in this coordination.

i. Reference and Flow Commitment Tracking and Accounting – Annually, starting February 1 and weekly thereafter, during the time period in which the SSWD flow commitments may be provided, SSWD and other applicable HRL participants

must coordinate with other HRL participants and document through the public website tracking system as identified in section B.1.3 the information listed below for the following components: (1) forecasted and observed reference conditions, (2) planned HRL flow commitments for the coming month and season, and (3) completed HRL flow commitments to date. The information must be used to demonstrate that the additional SSWD HRL flow commitments are provided to contribute to additive Bear River flows and Delta Inflow above reference conditions consistent with Sections B.1.17.2 and B.1.17.3 above and Section 4.4.9 of the Bay-Delta Plan. The following specific information must be provided:

(a) Time series of daily inflow, outflow, and storage in Camp Far West Reservoir.

(b) Time series of minimum bypass flow requirements and daily observed and reference flows below Camp Far West Reservoir at USGS gage #11424000 (Bear River near Wheatland) and at CDEC station at Camp Far West (CFW).

(c) Time series of daily running total releases since January 1 in TAF to the Bear River below Camp Far West Reservoir.

(d) Water supply deliveries that would have been made in reference conditions and those actually delivered (if different than reference) to in-basin water right holders and water users and releases made for water transfer purposes.

(e) Current water year type determinations.

(f) Whether SSWD HRL participants will adhere to the default HRL flow schedule of releases or provide flows on a different schedule consistent with the flexibility brackets identified in Bay-Delta Plan Section 4.4.9.

(g) Decision support tools and machine-readable documentation of components used to inform Bear River operations and to calculate reference conditions, HRL flows below Camp Far West, and HRL flows additive to Delta inflow, to the degree applicable.

ii. Measurement of Flow Commitments – The SSWD HRL flow commitment must be measured below Camp Far West Reservoir at USGS gage #11424000 (Bear River near Wheatland) and at CDEC station at Camp Far West (CFW) to verify that HRL flows are additive to reference conditions at each compliance location. In the event that the gages are offline, SSWD HRL participants must notify the State Water Board with an estimate of time for gages to be brought back online.

B.1.17.5 Verification of Additive Flow

To demonstrate that SSWD HRL flows are additive flows to Bear River and Delta inflow above reference conditions as required by Bay-Delta Plan Section 4.4.9, SSWD HRL participants must demonstrate the following:

i. Water Right Verification – SSWD HRL participants must provide water right accounting to ensure that all water bypassed or released from storage to comply with Bay-Delta Plan Section 4.4.9 was made available under valid water rights where surface water is available under that right at the time it is being provided consistent with Section 4.4.9 of the Bay-Delta Plan (i.e., the water right is not subject to curtailment).

ii. Reservoir Reoperation and Refill Accounting – SSWD HRL participants plan to rely on reservoir reoperation to provide SSWD HRL flows. SSWD HRL participants will release or bypass up to 4,400 AF of HRL flows from Camp Far West Reservoir in excess of what would be released under reference conditions. SSWD HRL participants must conduct, and report through the public website tracking system described in Section B.1.3, refill accounting at each reservoir being reoperated. This accounting must identify periods and volumes of refill and include a daily time series of reference and observed inflows, outflows, and storage that starts when HRL participants begin to provide the reservoir reoperation portion of the SSWD HRL flow commitment and ends when the storage deficit compared to reference conditions has been refilled.

B.1.17.6 Reporting Requirements

Annually by March 1, SSWD HRL participants must report the following to summarize reference conditions and HRL flows that occurred over the previous year:

i. Statements of whether or not HRL flow commitments were met and on what schedule, if and how flexibility brackets were used, and, if HRL flow commitments were not met, how much of the HRL flow commitment was not provided each month.

ii. Summary of how monthly operations changed compared to reference conditions from October through September to bypass net additive flows and refill reservoirs (if refilled), and if flood control operations or spill occurred.

iii. Summary of the volumes of HRL water provided by water right using land fallowing, groundwater substitution, and reservoir reoperations.

iv. Supporting documentation of any effect that HRL flow measures had on reference conditions, including on a seasonal basis and from year to year.

v. Supporting documentation demonstrating that water use has not expanded to reduce base flows in a manner inconsistent with the provision to protect the HRL base flows (reference conditions) described in Bay-Delta Plan Section 4.4.9.

vi. Supporting documentation that implementation of the VA pathway has not resulted in another HRL water right holder included in the list of water rights in Appendix B.1 for the SSWD HRL, including as Appendix B.1 may be modified, reducing the amount of flow they bypass or release from storage, including to meet other regulatory obligations, due to the provision of HRL flows.

B.1.18 Lists of Water Rights Covered Under the Voluntary Agreements Pathway

The following water right lists were provided by HRL participants. The lists are undergoing review by State Water Board staff and may be further amended in a subsequent version of this appendix. The water rights submitted to the State Water Board do not constitute evidence of a right to divert water. Priority dates are not included for certain rights where claimed dates provided by HRL participants do not match the type of right. Some water right claims were identified as pre-1914 appropriative and included priority dates after 1914. These dates are identified, but the State Water Board is not confirming the overlapping claim of right or priority date and may revise this list as appropriate related to those issues or others.

The VA pathway covers the following water rights as they are being exercised at the time of Plan adoption by the State Water Board. The Board reserves discretion to impose any appropriate limitations on any changes to the exercise of these water rights that involve an increase or change in timing of diversions consistent with Section 4.4.9.1 of the Bay-Delta Plan and other applicable legal authority.

Table B.1-10. Sacramento River HRL Water Rights

TABLE B.1-10. SACRAMENTO RIVER HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
A000018	GLENN-COLUSA IRRIGATION DISTRICT	Licensed	3/5/1915
A000027	RECLAMATION DISTRICT #1004	Licensed	4/2/1915
A000230B	CHARLES W SEAVER	Licensed	1/10/1916

TABLE B.1-10. SACRAMENTO RIVER HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
A000244	PRINCETON-CODORA-GLENN IRRIGATION DISTRICT	Licensed	2/3/1916
A000462	PROVIDENT IRRIGATION DISTRICT	Licensed	9/15/1916
A000534	NATOMAS CENTRAL MUTUAL WATER CO	Licensed	12/3/1916
A000575	RRG GARDEN PROPERTIES LLC	Licensed	1/25/1917
A000576	RECLAMATION DISTRICT #108	Licensed	1/25/1917
A000577	RRG GARDEN PROPERTIES LLC	Licensed	1/25/1917
A000581	SUTTER MUTUAL WATER COMPANY	Licensed	2/1/1917
A000640	PROVIDENT IRRIGATION DISTRICT	Licensed	4/9/1917
A000657	ALICE K MARKS	Licensed	4/27/1917
A000742	TISDALE IRRIGATION & DRAINAGE CO	Licensed	7/26/1917
A000763	RECLAMATION DISTRICT #108	Licensed	8/27/1917
A000770	PRINCETON-CODORA-GLENN IRRIGATION DISTRICT	Licensed	9/5/1917
A000878	SUTTER MUTUAL WATER COMPANY	Licensed	1/3/1918
A000879	SUTTER MUTUAL WATER COMPANY	Licensed	1/3/1918
A000880A	SUTTER MUTUAL WATER COMPANY	Licensed	1/3/1918
A000880B	RD HEER CAPITAL LLC	Licensed	1/3/1918
A000880C	Oji Brothers Farm, Inc.	Licensed	1/3/1918
A000882A	LEE W RICHTER	Licensed	1/5/1918
A000892	PROVIDENT IRRIGATION DISTRICT	Licensed	1/18/1918
A001056	NATOMAS CENTRAL MUTUAL WATER CO	Licensed	8/22/1918
A001060	SIDDIQUI FAMILY PARTNERSHIP	Licensed	8/28/1918
A001061	SACRAMENTO COUNTY WATER AGENCY	Licensed	8/23/1918
A001074A	LOMO COLD STORAGE A CAL GEN PARTNERSHIP	Licensed	9/10/1918
A001074B	MERIDIAN FARMS WATER CO	Licensed	9/10/1918
A001094	Siddiqui Family Partnership	Licensed	9/26/1918

TABLE B.1-10. SACRAMENTO RIVER HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
A001160	SUTTER MUTUAL WATER COMPANY	Licensed	1/24/1919
A001179	CHARLES W TUTTLE JR	Licensed	2/15/1919
A001199A	Woodland-Davis Clean Water Agency	Licensed	3/1/1919
A001199B	CONAWAY PRESERVATION GROUP LLC	Licensed	3/1/1919
A001203	NATOMAS CENTRAL MUTUAL WATER CO	Licensed	3/5/1919
A001413	NATOMAS CENTRAL MUTUAL WATER CO	Licensed	8/27/1919
A001422	PROVIDENT IRRIGATION DISTRICT	Licensed	9/2/1919
A001554	GLENN-COLUSA IRRIGATION DISTRICT	Licensed	12/3/1919
A001588	CONAWAY PRESERVATION GROUP LLC	Licensed	12/26/1919
A001589	RECLAMATION DISTRICT #108	Licensed	12/26/1919
A001617	JACK W BABER	Licensed	1/8/1920
A001624	GLENN-COLUSA IRRIGATION DISTRICT	Licensed	1/14/1920
A001653	SWENSON FARMS LLC	Licensed	2/5/1920
A001659	SYCAMORE MUTUAL WATER COMPANY	Licensed	2/9/1920
A001758	SUTTER MUTUAL WATER COMPANY	Licensed	4/9/1920
A001763	SUTTER MUTUAL WATER COMPANY	Licensed	4/9/1920
A001765A	PELGER MUTUAL WATER COMPANY	Licensed	4/9/1920
A001765B	VAN RUITEN BROS	Licensed	4/9/1920
A001769	SUTTER MUTUAL WATER COMPANY	Licensed	4/9/1920
A001772	SUTTER MUTUAL WATER COMPANY	Licensed	4/9/1920
A001976	ALLEN A EHRKE	Licensed	8/19/1920
A002212	U.S. Bureau of Reclamation	Licensed	2/17/1921
A002317A	BHUPINDER BHANGAL	Licensed	4/22/1921
A002884	WILLIAM A DRIVER IRREVOCABLE TRUST	Licensed	6/17/1922

TABLE B.1-10. SACRAMENTO RIVER HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
A003195	SUTTER MUTUAL WATER COMPANY	Licensed	12/27/1922
A003247	WINDSWEPT LAND AND CATTLE COMPAN	Licensed	1/31/1923
A003290A	RD HEER CAPITAL LLC	Licensed	3/12/1923
A003290B	VAN RUITEN BROS	Licensed	3/12/1923
A003423	DAVID AND ALICE TE VELDE REVOCABLE FAMILY TRUST	Licensed	5/17/1923
A003466	JOSEPH A HEIDRICK JR & SUZANNE P HEIDRICK FAMILY REVOCABLE TRUST	Licensed	6/5/1923
A004351	DAVID AND ALICE TE VELDE REVOCABLE FAMILY TRUST	Licensed	12/4/1924
A004355A	MICHAEL E LONON	Licensed	12/6/1924
A004355B	RAY E AND JANICE R ANDERSON FAMILY TRUST	Licensed	12/6/1924
A004364	Knights Landing Investors LLC	Licensed	12/15/1924
A004613	LOMO COLD STORAGE A CAL GEN PARTNERSHIP	Licensed	6/2/1925
A004699	LOMO COLD STORAGE A CAL GEN PARTNERSHIP	Licensed	7/15/1925
A004901	DAVID AND ALICE TE VELDE REVOCABLE FAMILY TRUST	Licensed	1/28/1926
A004902	DAVID AND ALICE TE VELDE REVOCABLE FAMILY TRUST	Licensed	1/28/1926
A005109	M AND T INCORPORATED	Licensed	7/17/1926
A005359	DAVID AND ALICE TE VELDE REVOCABLE FAMILY TRUST	Licensed	2/17/1927
A005916	NICKOLAS J CHARTER	Licensed	5/16/1928
A006146	HENLE FAMILY LIMITED PARTNERSHIP	Licensed	12/27/1928
A006418A	HENRY D RICHTER JR	Licensed	8/24/1929
A006418B	KENNETH L WALLACE	Licensed	8/24/1929
A006486	LOMO COLD STORAGE A CAL GEN PARTNERSHIP	Licensed	11/14/1929
A006527	VAN RUITEN CAPITAL LLC	Licensed	1/8/1930
A006670	Frank J. O'Brien Family Trust	Licensed	5/6/1930
A006716	CITY OF REDDING	Licensed	6/30/1930
A006726	TOMLINSON RANCH LP	Licensed	7/10/1930

TABLE B.1-10. SACRAMENTO RIVER HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
A007598	YOCHA DEHE WINTUN NATION	Licensed	6/23/1933
A007641A	E D WILLEY & SON INC	Licensed	8/4/1933
A007641B	BRETT SCHEIDEL	Licensed	8/4/1933
A007641C	RIVER RANCH PARTNERSHIP	Licensed	8/4/1933
A007641D1	NICOLI G NICHOLAS	Licensed	8/4/1933
A007641D2	MARIA JOHN NICHOLAS KELLY RANCH LLC	Licensed	8/4/1933
A007641D3	MURPHY LAKE FARMS	Licensed	8/4/1933
A007886	SUTTER MUTUAL WATER COMPANY	Licensed	3/29/1934
A008141	WILSON RANCH PARTNERSHIP	Licensed	10/24/1934
A008188	M AND T INCORPORATED	Licensed	12/1/1934
A008213	M AND T INCORPORATED	Licensed	1/15/1935
A008565	M AND T INCORPORATED	Permitted	6/10/1936
A008631	MAXWELL IRRIGATION DISTRICT	Licensed	4/8/1936
A008688	GLENN-COLUSA IRRIGATION DISTRICT	Licensed	5/28/1936
A008884	CITY OF REDDING	Licensed	1/26/1937
A008931	Arnold, Mike, Mark Andreotti, and Assoc LP	Licensed	4/1/1937
A009032	FEDORA FARMS INC	Licensed	7/8/1937
A009735	M AND T INCORPORATED	Permitted	7/12/1941
A009737	MERIDIAN FARMS WATER CO	Licensed	9/22/1939
A009760	SUTTER MUTUAL WATER COMPANY	Licensed	11/3/1939
A009987	T & P FARMS	Licensed	8/22/1940
A010320	CITY OF REDDING	Licensed	11/18/1941
A010408	NICKOLAS J CHARTER	Licensed	3/18/1942
A010417	Knights Landing Investors LLC	Licensed	3/25/1942
A010588	U.S. Bureau of Reclamation	Licensed	1/5/1943
A010595	PROVIDENT IRRIGATION DISTRICT	Licensed	1/27/1943
A010658	SUTTER MUTUAL WATER COMPANY	Licensed	6/16/1943
A010900	SACRAMENTO AREA FLOOD CONTROL AGENCY	Licensed	10/9/1944

TABLE B.1-10. SACRAMENTO RIVER HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
A010951	Oji Brothers Farm, Inc.	Licensed	1/11/1945
A011274	EASTSIDE MUTUAL WATER COMPANY	Licensed	12/26/1914
A011450	TOMLINSON RANCH LP	Licensed	6/27/1946
A011618	Arnold, Mike, Mark Andreotti, and Assoc LP	Licensed	11/14/1946
A011819	PROVIDENT IRRIGATION DISTRICT	Licensed	4/9/1947
A011888B	CHARLES W SEAVER	Licensed	5/22/1947
A011899	RECLAMATION DISTRICT #108	Licensed	5/26/1947
A011910	RRG GARDEN PROPERTIES LLC	Licensed	5/29/1947
A011953	SUTTER MUTUAL WATER COMPANY	Licensed	6/23/1947
A011955	MAXWELL IRRIGATION DISTRICT	Licensed	6/24/1947
A011956	MAXWELL IRRIGATION DISTRICT	Licensed	6/24/1947
A011957	MAXWELL IRRIGATION DISTRICT	Licensed	6/24/1947
A011958	MAXWELL IRRIGATION DISTRICT	Licensed	6/24/1947
A012073A	Woodland-Davis Clean Water Agency	Licensed	9/8/1947
A012073B	CONAWAY PRESERVATION GROUP LLC	Licensed	9/8/1947
A012074	CONAWAY PRESERVATION GROUP LLC	Licensed	9/8/1947
A012087	Charles Marsh	Licensed	9/16/1947
A012120	T & P FARMS	Licensed	10/7/1947
A012125	GLENN-COLUSA IRRIGATION DISTRICT	Licensed	10/8/1947
A012412	U S Fish & Wildlife Service	Licensed	3/17/1948
A012469A	Anna C. Byrd 1997 Trust	Licensed	4/13/1948
A012470A	SUTTER MUTUAL WATER COMPANY	Licensed	4/13/1948
A012470B	PELGER MUTUAL WATER COMPANY	Licensed	4/13/1948
A013000	SYCAMORE MUTUAL WATER COMPANY	Licensed	3/25/1949
A013001	U S FISH & WILDLIFE SERVICE	Licensed	3/25/1949

TABLE B.1-10. SACRAMENTO RIVER HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
A013002	U S FISH & WILDLIFE SERVICE	Licensed	3/25/1949
A013031	Yolo Land Trust	Licensed	4/18/1949
A013452	PROVIDENT IRRIGATION DISTRICT	Licensed	11/9/1949
A013454	Arnold, Mike, Mark Andreotti, and Assoc LP	Licensed	11/9/1949
A013511	FEDORA FARMS INC	Licensed	12/15/1949
A013512	FEDORA FARMS INC	Licensed	12/15/1949
A013590	Oji Brothers Farm, Inc.	Licensed	2/20/1950
A013646	HENRY D RICHTER JR	Licensed	3/22/1950
A013667A	LEVIATHIAN INC	Licensed	3/31/1950
A013667B	LAKE CALIFORNIA PROPERTY OWNERS ASSN INC	Licensed	3/31/1950
A013735	MAXWELL IRRIGATION DISTRICT	Licensed	5/15/1950
A013919	MAXWELL IRRIGATION DISTRICT	Licensed	8/25/1950
A014314	DRISCOLL STRAWBERRY ASSOCIATES	Licensed	5/21/1951
A014378	MAXWELL IRRIGATION DISTRICT	Licensed	6/28/1951
A014494	SACRAMENTO COUNTY WATER AGENCY	Licensed	8/20/1951
A014584	FRANK LAMB TRUST	Licensed	11/20/1951
A014682	CARTER FAMILY TRUST & CARTER FAMILY MARTIAL TRUST	Licensed	2/15/1952
A014728	KENNETH L WALLACE	Licensed	3/24/1952
A014789	VAN RUITEN CAPITAL LLC	Licensed	5/1/1952
A015150	MCM PROPERTIES, A CALIF CORP	Licensed	1/12/1953
A015151	REBEKAH LEISER	Licensed	1/12/1953
A015152	MCM PROPERTIES, A CALIF CORP	Licensed	1/12/1953
A015197	CITY OF REDDING	Licensed	2/16/1953
A015452	COLUSA PROPERTIES INC	Licensed	8/6/1953
A015572	NATOMAS CENTRAL MUTUAL WATER CO	Licensed	10/8/1953

TABLE B.1-10. SACRAMENTO RIVER HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
A015606	BRETT SCHEIDEL	Licensed	12/7/1973
A015734	BRETT SCHEIDEL	Licensed	12/7/1973
A015735	RIVER RANCH PARTNERSHIP	Licensed	2/18/1954
A015745	E D WILLEY & SON INC	Licensed	2/23/1954
A015795	BRETT SCHEIDEL	Licensed	3/24/1954
A015856A	NICOLI G NICHOLAS	Licensed	4/30/1954
A015856B	MARIA JOHN NICHOLAS KELLY RANCH LLC	Licensed	4/30/1954
A015856C	MURPHY LAKE FARMS	Licensed	4/30/1954
A015858	MURPHY LAKE FARMS	Licensed	4/30/1954
A015866	M AND T INCORPORATED	Licensed	5/10/1954
A016182	WILLIAM L SPANGLER	Licensed	12/17/1954
A016199	BUTLER REV I-V 06 TR	Licensed	1/10/1955
A016677	SUTTER MUTUAL WATER COMPANY	Licensed	10/20/1955
A016985	TISDALE IRRIGATION & DRAINAGE CO	Licensed	4/3/1956
A017066	PRINCETON-CODORA-GLENN IRRIGATION DISTRICT	Licensed	5/2/1956
A017140	T & P Farms	Licensed	6/18/1956
A017150	Faraz A Saeed	Licensed	6/25/1956
A017210	PELGER ROAD 1700 LLC	Licensed	8/6/1956
A018061	RICHARD & SANDRA GIUSTI FAMILY TRUST DATED 8/13/90	Licensed	3/27/1958
A018062	QUAD H RANCHES, INC	Licensed	3/27/1958
A018115	U.S. Bureau of Reclamation	Permitted	4/30/1958
A018154	HEIDRICK & MCGINNIS PROP LP	Licensed	5/26/1958
A018372	SYCAMORE MUTUAL WATER COMPANY	Licensed	10/15/1958
A022309	NATOMAS CENTRAL MUTUAL WATER CO	Licensed	10/8/1965
A023005	GLENN-COLUSA IRRIGATION DISTRICT	Licensed	3/12/1968
A023140	LAKE CALIFORNIA PROPERTY OWNERS ASSN INC	Licensed	9/23/1968
A023201	RECLAMATION DISTRICT #1004	Permitted	12/26/1968
A023673	JOSEPH A MOREHEAD	Permitted	1/15/1971

TABLE B.1-10. SACRAMENTO RIVER HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
A025616	CITY OF WEST SACRAMENTO	Permitted	12/22/1977
A025727	NATOMAS CENTRAL MUTUAL WATER CO	Permitted	5/1/1978
A026559	CITY OF REDDING	Licensed	6/3/2003
A026695	CONAWAY PRESERVATION GROUP LLC	Permitted	1/27/1981
A030358	Woodland-Davis Clean Water Agency	Permitted	4/19/1994
A030410	PELGER MUTUAL WATER COMPANY	Permitted	11/2/1994
A030445	MAXWELL IRRIGATION DISTRICT	Permitted	5/30/1995
A030812	PRINCETON-CODORA-GLENN IRRIGATION DISTRICT	Permitted	11/19/1998
A030813	PROVIDENT IRRIGATION DISTRICT	Permitted	11/19/1998
A030838	GLENN-COLUSA IRRIGATION DISTRICT	Permitted	2/18/1999
A031436	RECLAMATION DISTRICT #108	Permitted	5/13/2003
A031919	RRG GARDEN PROPERTIES LLC	Permitted	1/20/2012
S004518	U.S. Bureau of Reclamation	Pre-1914 Appropriative	1/1/1910
S005222	CHARLES W TUTTLE JR	Riparian, Pre-1914 Appropriative	1/1/1912
S006353	U.S. Bureau of Reclamation	Pre-1914 Appropriative	1/1/1910
S006354	U.S. Bureau of Reclamation	Pre-1914 Appropriative	1/1/1910
S007367	GLENN-COLUSA IRRIGATION DISTRICT	Pre-1914 Appropriative	1/1/1906
S007368	GLENN-COLUSA IRRIGATION DISTRICT	Riparian	1/1/1920
S009201	Fedora Farms Inc	Riparian, Pre-1914 Appropriative	1/1/1912
S012208	ANDERSON-COTTONWOOD IRRIGATION DISTRICT	Pre-1914 Appropriative	1/1/1914
S012412	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S013566	T & P FARMS	Riparian	1/1/1915
S013880	CARTER MUTUAL WATER COMPANY	Pre-1914 Appropriative	1/1/1910
S016099	BONNIE HATFIELD	Riparian	1/1/1955
S016172	U.S. Bureau of Reclamation	Riparian	NA

TABLE B.1-10. SACRAMENTO RIVER HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
S016173	U.S. Bureau of Reclamation	Riparian	NA
S016174	U.S. Bureau of Reclamation	Riparian	NA
S016689	M&T Chico Ranch, Inc.	Pre-1914 Appropriative	1/1/1910
S016818	ANDERSON-COTTONWOOD IRRIGATION DISTRICT	Pre-1914 Appropriative	1/1/1914
S017109	WILSON RANCH PARTNERSHIP	Riparian, Pre-1914 Appropriative	1/1/1900
S017286	CONAWAY PRESERVATION GROUP LLC	Riparian	1/1/1920
S018031	RIVER PARTNERS	Riparian	1/1/1950
S018089	JACK W BABER	Riparian, Pre-1914 Appropriative	1/1/1898
S019234	Van Ruiten Bros.	Riparian	NA
S019243	NELSON FAMILY TRUST	Riparian	NA
S019246	Van Ruiten Bros.	Riparian	NA
S019249	VAN RUITEN CAPITAL LLC	Riparian	NA
S019417	Yolo Land Trust	Riparian	1/1/1914
S019571	VAN RUITEN CAPITAL LLC	Riparian	NA
S019616	JANE F. CARTER, ET AL.	Riparian	1/1/1924
S019619	COLUSA PROPERTIES INC	Riparian	NA
S019622	COLUSA PROPERTIES INC	Riparian, Pre-1914 Appropriative	1/1/1924
S020164	RECLAMATION DISTRICT NO. 1004	Pre-1914 Appropriative	1/1/1888
S020165	RECLAMATION DISTRICT NO. 1004	Riparian, Pre-1914 Appropriative	1/1/1884
S020166	RECLAMATION DISTRICT NO. 1004	Riparian, Pre-1914 Appropriative	1/1/1884
S020167	RECLAMATION DISTRICT NO. 1004	Pre-1914 Appropriative	1/1/1869
S020168	RECLAMATION DISTRICT NO. 1004	Riparian, Pre-1914 Appropriative	1/1/1884
S020169	RECLAMATION DISTRICT NO. 1004	Riparian, Pre-1914 Appropriative	1/1/1884
S020170	RECLAMATION DISTRICT NO. 1004	Riparian, Pre-1914 Appropriative	1/1/1884
S020172	RECLAMATION DISTRICT NO. 1004	Riparian, Pre-1914 Appropriative	1/1/1884

TABLE B.1-10. SACRAMENTO RIVER HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
S020212	CACHIL DEHE BAND OF WINTUN INDIANS OF THE COLUSA	Riparian, Pre-1914 Appropriative	1/1/1924
S020214	Cachil Dehe Band of Wintun Indians	Riparian, Pre-1914 Appropriative	1/1/1914
S020445	JOSEPH V WALLACE	Riparian	NA
S020641	RECLAMATION DISTRICT #108	Riparian, Pre-1914 Appropriative	1/1/1913
S020645	RECLAMATION DISTRICT #108	Riparian, Pre-1914 Appropriative	1/1/1913
S020649	RECLAMATION DISTRICT #108	Riparian, Pre-1914 Appropriative	1/1/1913
S020653	RECLAMATION DISTRICT #108	Riparian, Pre-1914 Appropriative	1/1/1913
S020657	RECLAMATION DISTRICT #108	Riparian, Pre-1914 Appropriative	1/1/1913
S020661	RECLAMATION DISTRICT #108	Riparian	1/1/1922
S020712	RECLAMATION DISTRICT #108	Riparian, Pre-1914 Appropriative	1/1/1913
S020716	RECLAMATION DISTRICT #108	Riparian	1/1/1918
S020960	PROVIDENT IRRIGATION DISTRICT	Pre-1914 Appropriative	1/1/1903
S020961	PRINCETON-CODORA-GLENN IRRIGATION DISTRICT	Pre-1914 Appropriative	1/1/1903
S021223	JOE GRIFFIN	Riparian, Pre-1914 Appropriative	1/1/1914
S021548	SYCAMORE MUTUAL WATER COMPANY	Riparian, Pre-1914 Appropriative	1/1/1900
S021616	SYCAMORE MUTUAL WATER COMPANY	Riparian, Pre-1914 Appropriative	1/1/1914
S021617	SYCAMORE MUTUAL WATER COMPANY	Riparian, Pre-1914 Appropriative	1/1/1914
S021733	BURDICK 1999 FAMILY TRUST	Riparian	NA
S022168	RRG GARDEN PROPERTIES LLC	Riparian	NA
S022169	RRG GARDEN PROPERTIES LLC	Riparian	NA
S022594	CAROL KARY	Riparian	NA
S023044	BEATRICE FERRARO	Riparian	NA
S023423	SIB FEDORA	Riparian	1/1/1914
S023710	ANDERSON-COTTONWOOD IRRIGATION DISTRICT	Pre-1914 Appropriative	1/1/1914
S025067	M AND T INCORPORATED	Riparian	NA

TABLE B.1-10. SACRAMENTO RIVER HRL WATER RIGHTS			
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S025996	SIB FEDORA	Riparian	NA
S027290	ANDREOTTI TRUST ET AL	Riparian	1/1/1844
S027950	RIVERBY RANCHES LLC	Riparian, Pre-1914 Appropriative	1/1/1913
S027951	RIVERBY RANCHES LLC	Riparian, Pre-1914 Appropriative	1/1/1913
S027954	CHURKIN TRUST	Riparian, Pre-1914 Appropriative	1/1/1872
S028381	JEFFERY E DYER	Riparian	NA
S028549	ROBERTS DITCH IRRIGATION COMPANY, INC.	Pre-1914 Appropriative	1/1/1833
S028731	HOWALD FARMS	Riparian	NA
S028820	Arnold, Mike, Mark Andreotti, and Assoc LP	Riparian	NA
S028941	RECLAMATION DISTRICT NO. 1004	Riparian, Pre-1914 Appropriative	1/1/1884
S028970	CITY OF REDDING	Pre-1914 Appropriative	1/1/1939
S029139	Dave and Alice Te Velde Revocable Family Trust	Riparian	NA
S029140	Dave and Alice Te Velde Revocable Family Trust	Riparian	NA
S029141	Dave and Alice Te Velde Revocable Family Trust	Riparian	NA
S029142	Dave and Alice Te Velde Revocable Family Trust	Riparian	NA

Table B.1-11. American River HRL Water Rights

TABLE B.1-11. AMERICAN RIVER HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
A000138	CARMICHAEL WATER DISTRICT	Licensed	9/18/1915

TABLE B.1-11. AMERICAN RIVER HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
A000548	EVELYN T WICKS	Licensed	12/28/1916
A000654	EL DORADO IRRIGATION DISTRICT	Licensed	4/26/1917
A001061	SACRAMENTO COUNTY WATER AGENCY	Licensed	8/28/1918
A001270	NEVADA IRRIGATION DISTRICT	Licensed	5/7/1919
A001440	EL DORADO IRRIGATION DISTRICT	Licensed	9/8/1919
A001441	EL DORADO IRRIGATION DISTRICT	Licensed	9/8/1919
A001692	EL DORADO IRRIGATION DISTRICT	Licensed	2/27/1920
A001743	CITY OF SACRAMENTO	Permitted	3/30/1920
A001778	RICK MASSIE	Licensed	4/15/1920
A001853	CITY OF SACRAMENTO	Licensed	5/29/1920
A001923	PETER N BERBOHM	Licensed	7/19/1920
A001963	MELINDA BACKER	Licensed	8/11/1920
A002011	LEZLIE ELAINE DORSETT	Licensed	9/18/1920
A002141	U S ELDORADO NATL FOREST	Licensed	12/17/1920
A002190	DEBORAH ANN KNUDSEN	Licensed	2/5/1921
A002262	RICHARD L GALLAGHER	Licensed	3/15/1921
A002270	EL DORADO IRRIGATION DISTRICT	Licensed	3/22/1921
A002276	NEVADA IRRIGATION DISTRICT	Licensed	3/25/1921
A002458	GEORGE A FARIS	Licensed	7/27/1921
A002750	PACIFIC GAS AND ELECTRIC COMPANY	Licensed	2/9/1922
A002753	PACIFIC GAS AND ELECTRIC COMPANY	Licensed	2/9/1922
A002944	THOMAS HATFIELD	Licensed	7/26/1922
A003321	SCIOTS TRACT CABIN OWNERS ASSN	Licensed	3/23/1923
A003405	GAEL M BARSOTTI	Licensed	5/18/1923
A003496	CHRIS MACHADO	Licensed	7/2/1923
A003550	PACIFIC GAS AND ELECTRIC COMPANY	Licensed	7/26/1923
A003793	GREGORY D HAWES	Licensed	1/10/1924
A003879	U S ELDORADO NATL FOREST	Licensed	2/28/1924
A003887A	PLASSE HOMESTEAD WATER ASSOCIATION	Licensed	3/5/1924

TABLE B.1-11. AMERICAN RIVER HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
A003887B	PLASSE'S MEADOW GROUP LLC	Licensed	3/5/1924
A003910	JARED VERTIN	Licensed	3/18/1924
A003934	RONALD S JAVOR TRUST	Licensed	3/31/1924
A004026	JEFFREY D DUECK	Licensed	6/13/1924
A004027	NANCY E DOLCINI	Licensed	6/14/1924
A004062	CITY OF STOCKTON	Licensed	7/1/1924
A004219	JOSE ROSAS	Licensed	9/17/1924
A004344	RANDALL TRACT HOMEOWNERS ASSOCIATION	Licensed	11/28/1924
A004357	DINO E ANDREOTTI	Licensed	12/9/1924
A004365	CORA ADEMA	Licensed	12/15/1924
A004464	COUNTY OF SACRAMENTO REGIONAL PARKS	Licensed	2/17/1925
A004597A	PATRIC JAMES HILLENBRAND LIVING TRUST	Licensed	5/22/1925
A004597B	JASON CARDINET	Licensed	5/22/1925
A004597C	THOMAS JONES	Licensed	5/22/1925
A004722	U S ELDORADO NATL FOREST	Licensed	8/6/1925
A004740	U S ELDORADO NATL FOREST	Licensed	8/19/1925
A004743	CARMICHAEL WATER DISTRICT	Licensed	8/22/1925
A004781	JEFF LITTLE	Licensed	9/24/1925
A004851	PACIFIC GAS AND ELECTRIC COMPANY	Licensed	11/30/1925
A004868	BYRON W BACCHI IRREVOCABLE TRUST, THE	Licensed	12/19/1925
A005024	DAVID HAYNES MERING	Licensed	5/18/1926
A005031	COUNTY OF SACRAMENTO	Licensed	5/21/1926
A005142	U S ELDORADO NATL FOREST	Licensed	8/4/1926
A005193	NEVADA IRRIGATION DISTRICT	Permitted	9/8/1926
A005214	CHARLES WILSON	Licensed	9/17/1926
A005413	DON K AND J A TAYLOR, TRUSTEES	Licensed	4/11/1927
A005535	KATHERINE SABLINSKY	Licensed	6/17/1927
A005601	PETER M HALL	Licensed	7/11/1927
A005618	US BUREAU OF RECLAMATION	Licensed	7/23/1927
A005644A	GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT	Permitted	7/30/1927
A005645A	EL DORADO IRRIGATION DISTRICT	Licensed	7/30/1927

TABLE B.1-11. AMERICAN RIVER HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
A005645B	EL DORADO IRRIGATION DISTRICT	Permitted	7/30/1927
A005704	DAVID B BARTHOLOMEW	Licensed	9/30/1927
A005806	VINCENT CIANCI	Licensed	1/16/1928
A005830	SAN JUAN WATER DISTRICT	Licensed	2/11/1928
A005970	PACIFIC GAS AND ELECTRIC COMPANY	Licensed	7/5/1928
A005981	USDA FOREST SERVICE LAKE TAHOE BASIN MANAGEMENT UNIT	Licensed	7/16/1928
A005989	CARL KEITH SAWTELL	Licensed	7/19/1928
A006080	STEPHEN RULAND	Licensed	10/3/1928
A006263	Emilie White	Licensed	4/20/1929
A006332	PACIFIC GAS AND ELECTRIC COMPANY	Licensed	6/19/1929
A006383	EL DORADO IRRIGATION DISTRICT	Licensed	7/23/1929
A006410	RAYMOND W LARSEN	Licensed	8/16/1929
A006431	EUGENE LANGENBACH	Licensed	9/10/1929
A006440	THE RITO S CASTANON FAMILY TRUST	Licensed	9/18/1929
A006529	NEVADA IRRIGATION DISTRICT	Licensed	1/9/1930
A006540	EFREN HERRERA	Licensed	1/20/1930
A006549	PATRICK J BAGINSKI	Licensed	2/4/1930
A006685	KENNETH J MAGRI	Licensed	5/21/1930
A006702	NEVADA IRRIGATION DISTRICT	Licensed	6/16/1930
A006730	U S ELDORADO NATL FOREST	Licensed	4/14/1930
A006797	HENRIK KAM	Licensed	9/17/1930
A006801	T P ENTERPRISES	Licensed	9/20/1930
A006817	TONY PLANCHON	Licensed	10/8/1930
A006988	TRACY ANN BRENNAN-MULLIGAN	Licensed	6/29/1931
A006999	BRIAN K BRAY	Licensed	7/7/1931
A007013	CEAN MCGUIRE	Licensed	7/20/1931
A007018	Paul J Rodgers	Licensed	7/25/1931
A007036	Terry D. Herringshaw	Licensed	8/10/1931
A007070	Mary Leslie Rev. Trust	Licensed	9/1/1931
A007196	U S ELDORADO NATL FOREST	Licensed	2/27/1932
A007294	JAMES A WATT	Licensed	6/16/1932
A007304	U S ELDORADO NATL FOREST	Licensed	6/27/1932

TABLE B.1-11. AMERICAN RIVER HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
A007305	GILBERT A ALBIANI	Licensed	6/27/1932
A007341	JOHN N PANTIS	Licensed	8/6/1932
A007387	RONALD E MINER	Licensed	9/23/1932
A007478	EL DORADO IRRIGATION DISTRICT	Permitted	1/5/1933
A007498	U S ELDORADO NATL FOREST	Licensed	2/7/1933
A007522	U S ELDORADO NATL FOREST	Licensed	3/24/1933
A007629	U S FOREST SERVICE	Licensed	7/26/1933
A007647	RICHARD FIELLEN	Licensed	8/14/1933
A007662	Clifford Wesley Jones	Licensed	9/6/1933
A007776	LINDEN BECK	Licensed	12/5/1933
A007788	TIMOTHY B COLLINS	Licensed	12/26/1933
A007848	U S FOREST SERVICE	Licensed	2/14/1934
A007905	ALBERT E CASH	Licensed	4/12/1934
A007952	CITY OF STOCKTON	Licensed	5/25/1934
A008163	MARY WOOD	Licensed	11/20/1934
A008177	NEVADA IRRIGATION DISTRICT	Licensed	11/27/1934
A008178	NEVADA IRRIGATION DISTRICT	Licensed	11/27/1934
A008179	NEVADA IRRIGATION DISTRICT	Licensed	11/27/1934
A008271	U S ELDORADO NATL FOREST	Licensed	3/4/1935
A008356	JEAN L WELDEN	Licensed	6/11/1935
A008582	U S ELDORADO NATL FOREST	Licensed	3/11/1936
A008623	KYBURZ MUTUAL WATER COMPANY	Licensed	3/30/1936
A008658	PHILLIPS TRACT MUTUAL WATER COMPANY	Licensed	5/6/1936
A008698	RICHARD K JONES	Licensed	6/8/1936
A008756	STEVEN R WEAVER, SUCCESSOR TRUSTEE	Licensed	8/8/1936
A008791	TAYLOR T WHEELER	Licensed	9/14/1936
A008929	U S ELDORADO NATL FOREST	Licensed	3/30/1937
A008936	U S ELDORADO NATL FOREST	Licensed	4/3/1937
A008951	ROLF W MORROW	Licensed	4/22/1937
A009026	MICHAEL HICKOX	Licensed	6/28/1937
A009058	U S ELDORADO NATL FOREST	Licensed	7/29/1937
A009086	U S ELDORADO NATL FOREST	Licensed	8/21/1937
A009087	U S ELDORADO NATL FOREST	Licensed	8/21/1937
A009114	U S FOREST SERVICE	Licensed	9/14/1937
A009120	U S ELDORADO NATL FOREST	Licensed	9/18/1937

TABLE B.1-11. AMERICAN RIVER HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
A009122	U S ELDORADO NATL FOREST	Licensed	9/21/1937
A009128	U S ELDORADO NATL FOREST	Licensed	9/27/1937
A009129	U S ELDORADO NATL FOREST	Licensed	9/27/1937
A009134	NICOLE WHITE	Licensed	10/2/1937
A009189	U S ELDORADO NATL FOREST	Licensed	11/27/1937
A009199	John A. Cunningham	Licensed	12/3/1937
A009251	U S ELDORADO NATL FOREST	Licensed	3/4/1938
A009269	SWORD & SANDALS INC	Licensed	4/13/1938
A009289	U S ELDORADO NATL FOREST	Licensed	5/6/1938
A009298	U S ELDORADO NATL FOREST	Licensed	5/19/1938
A009310	U S ELDORADO NATL FOREST	Licensed	6/6/1938
A009399	U S ELDORADO NATL FOREST	Licensed	8/26/1938
A009408	U S ELDORADO NATL FOREST	Licensed	9/10/1938
A009425	U S ELDORADO NATL FOREST	Licensed	9/24/1938
A009463	MICHAEL CARL VISMAN	Licensed	11/29/1938
A009500	VINCENT CIANCI	Licensed	1/31/1939
A009643	KAREN HOLDEN	Licensed	6/26/1939
A009655	U S ELDORADO NATL FOREST	Licensed	7/5/1939
A009728	ROBERT BRUCIA	Licensed	9/18/1939
A009816	U S FOREST SERVICE	Licensed	1/29/1940
A009843	U S ELDORADO NATL FOREST	Licensed	2/28/1940
A009869	U S ELDORADO NATL FOREST	Licensed	4/9/1940
A009884	U S ELDORADO NATL FOREST	Licensed	4/26/1940
A009890	U S ELDORADO NATL FOREST	Licensed	5/8/1940
A009952	DONNA MCTAGGART	Licensed	7/12/1940
A009955	U S ELDORADO NATL FOREST	Licensed	7/20/1940
A010012	SOUTHFORK PARTNERSHIP	Licensed	9/24/1940
A010110	U S ELDORADO NATL FOREST	Licensed	2/5/1941
A010121	WILLIS H LAMBERT	Licensed	2/20/1941
A010126	U S FOREST SERVICE	Licensed	2/20/1941
A010129	U S FOREST SERVICE	Licensed	2/20/1941
A010192	U S ELDORADO NATL FOREST	Licensed	4/29/1941
A010212	HEAVENLY VALLEY, LIMITED PARTNERSHIP	Licensed	5/28/1941
A010289	U S ELDORADO NATL FOREST	Licensed	9/24/1941
A010290	USDA FOREST SERVICE LAKE TAHOE BASIN MANAGEMENT UNIT	Licensed	9/24/1941

TABLE B.1-11. AMERICAN RIVER HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
A010325	BRIAN SCOTT	Licensed	11/21/1941
A010344	BETTY CHANG	Licensed	12/12/1941
A010360	U S ELDORADO NATL FOREST	Licensed	1/13/1942
A010385	U S ELDORADO NATL FOREST	Licensed	2/6/1942
A010397	AL RENKER	Licensed	3/11/1942
A010405	U S ELDORADO NATL FOREST	Licensed	3/16/1942
A010442	U S FOREST SERVICE	Licensed	5/6/1942
A010443	U S FOREST SERVICE	Licensed	5/6/1942
A010445	U S FOREST SERVICE	Licensed	5/6/1942
A010463	U S ELDORADO NATL FOREST	Licensed	5/16/1942
A010477	KAREN HOLDEN	Licensed	6/12/1942
A010484	KEVIN SCHMIDT	Licensed	6/26/1942
A010593	U S ELDORADO NATL FOREST	Licensed	1/25/1943
A010604	U S ELDORADO NATL FOREST	Licensed	2/24/1943
A010608	U S ELDORADO NATL FOREST	Licensed	3/4/1943
A010614	U S ELDORADO NATL FOREST	Licensed	3/16/1943
A010731	AMY FOURNIER	Licensed	11/17/1943
A010751	JEFFREY TILFORD	Licensed	1/18/1944
A010773	U S ELDORADO NATL FOREST	Licensed	2/23/1944
A010821	U S ELDORADO NATL FOREST	Licensed	5/19/1944
A010823	U S ELDORADO NATL FOREST	Licensed	5/26/1944
A010827	U S ELDORADO NATL FOREST	Licensed	6/5/1944
A011055	THE BRUCE & PAT BLAIKIE FAMILY TRUST DATED 5/20/1993	Licensed	5/22/1945
A011097	STEVENS PRICE	Licensed	7/5/1945
A011142	ELEANOR WITTER	Licensed	9/4/1945
A011157	U S FOREST SERVICE	Licensed	9/19/1945
A011162	WAYNE HILLARD	Licensed	9/27/1945
A011184	ARDEN HALL	Licensed	10/16/1945
A011256	U S ELDORADO NATL FOREST	Licensed	1/10/1946
A011258A	ROBERT JACKSON	Licensed	1/10/1946
A011258B	MARK HANNUM	Licensed	1/10/1946
A011264	MT RALSTON PROPERTIES ASSN INC	Licensed	1/21/1946
A011370	U S ELDORADO NATL FOREST	Licensed	4/12/1946
A011464	U S ELDORADO NATL FOREST	Licensed	7/10/1946
A011516	ARTHUR S DEAN	Licensed	8/15/1946
A011523B	ED MACHADO	Licensed	8/21/1946

TABLE B.1-11. AMERICAN RIVER HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
A011588A	BO WU	Licensed	10/14/1946
A011588B	BO WU	Licensed	10/14/1946
A011588C01	GREENSTONE COUNTRY OWNER'S ASSOC	Licensed	10/14/1946
A011588C02	BO WU	Licensed	10/14/1946
A011608	U S ELDORADO NATL FOREST	Licensed	11/6/1946
A011689	DEER HILLS PROPERTY OWNERS ASSN	Licensed	1/9/1947
A011742	U S ELDORADO NATL FOREST	Licensed	2/25/1947
A011787	U S FOREST SERVICE	Licensed	3/19/1947
A011813	JASON HALL	Licensed	4/4/1947
A011817	BAKER FAMILY TRUST 1999	Licensed	4/8/1947
A011836	DAVID SIZEMORE	Licensed	4/22/1947
A011850	BAKER FAMILY TRUST 1999	Licensed	5/1/1947
A011867	U S ELDORADO NATL FOREST	Licensed	5/9/1947
A011893	U S ELDORADO NATL FOREST	Licensed	5/26/1947
A011917	JEFFREY C. WILLIAMS, TRUSTEE OF THE JEFFREY C. WILLIAMS 2011 REVOCABLE TRUST	Licensed	6/5/1947
A011971	U S ELDORADO NATL FOREST	Licensed	7/3/1947
A012000	U S ELDORADO NATL FOREST	Licensed	7/21/1947
A012036	U S FOREST SERVICE	Licensed	8/12/1947
A012040	Larry Brasher	Licensed	8/13/1947
A012057	U S ELDORADO NATL FOREST	Licensed	8/26/1947
A012124	GILBERT BITTLE	Licensed	10/8/1947
A012131	FOUR CORNERS LAND OWNERS ASSOCIATION	Licensed	10/16/1947
A012140	CITY OF SACRAMENTO	Permitted	10/29/1947
A012149	CITY OF PLACERVILLE	Licensed	11/4/1947
A012156	TIMOTHY ERJAVEC	Licensed	11/17/1947
A012180	TIM SAUER	Licensed	12/1/1947
A012181	ROBERT H POWELL	Licensed	12/1/1947
A012184	ROBERT E AKIN	Licensed	12/3/1947
A012240	MATTHEW W SMITH	Licensed	1/13/1948
A012318	JOHN QUIDISHAY	Licensed	2/11/1948
A012321	CITY OF SACRAMENTO	Permitted	2/13/1948
A012323	SACRAMENTO MUNICIPAL UTILITY DISTRICT	Licensed	2/13/1948

TABLE B.1-11. AMERICAN RIVER HRL WATER RIGHTS			
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A012367	CARMICHAEL WATER DISTRICT	Permitted	3/1/1948
A012397	U S ELDORADO NATL FOREST	Licensed	3/12/1948
A012462	DAVID W GIRARD	Licensed	4/6/1948
A012463	RONALD N HUSTON	Licensed	4/7/1948
A012475	EDWARD P AKIN	Licensed	4/14/1948
A012552	U S ELDORADO NATL FOREST	Licensed	6/22/1948
A012598	HUGH H LEWIS JR	Licensed	7/19/1948
A012622	CITY OF SACRAMENTO	Permitted	7/29/1948
A012624	SACRAMENTO MUNICIPAL UTILITY DISTRICT	Licensed	7/29/1948
A012875	ELISABETH MILLER	Licensed	12/23/1948
A012885	SAUER GRAPES, LLC	Licensed	12/29/1948
A012999	JOSEPH S LANZA	Licensed	3/24/1949
A013103	US BUREAU OF RECLAMATION	Licensed	5/19/1949
A013123	AMY FOURNIER	Licensed	5/31/1949
A013131	GEORGE W SHRIVER	Licensed	6/2/1949
A013146	DONALD L BRIGANCE	Licensed	6/9/1949
A013160	MATTHEW HIATT	Licensed	6/17/1949
A013233	ROSE ANN GUTIERREZ	Licensed	7/13/1949
A013257	SAUER GRAPES, LLC	Licensed	7/25/1949
A013292	HECTOR ARMIJO	Licensed	8/11/1949
A013296	JEFF WILSON TRUSTEE	Licensed	8/15/1949
A013318	SANDRA JEAN WEBER	Licensed	8/29/1949
A013369	EDWARD MACKAY	Licensed	9/28/1949
A013370	US BUREAU OF RECLAMATION	Permitted	10/1/1949
A013372	US BUREAU OF RECLAMATION	Permitted	10/1/1949
A013383	U S ELDORADO NATL FOREST	Licensed	10/5/1949
A013394	YANKEE HILL ESTATES OWNERS ASSOCIATION	Licensed	10/11/1949
A013410	U S ELDORADO NATL FOREST	Licensed	10/24/1949
A013419	HIDDEN VALLEY COMMUNITY ASSOC	Licensed	10/26/1949
A013502	Jerome Vickrey	Licensed	12/7/1949
A013519	POLLY GASTALDI	Licensed	12/27/1949
A013520	JOSEPH S LANZA	Licensed	12/27/1949
A013521	SUSAN NORMAN	Licensed	12/27/1949
A013542	STANLEY J CLOUTIER	Licensed	1/18/1950
A013576	PILOT HILL ESTATES HOMEOWNERS ASSOC	Licensed	2/9/1950

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A013592	DAVID SIZEMORE	Licensed	2/20/1950
A013612	BARBARA MORRONE	Licensed	3/1/1950
A013616	KENNETH SAYLOR	Licensed	3/6/1950
A013629	US BUREAU OF RECLAMATION	Licensed	3/10/1950
A013644	SHANE LESHER	Licensed	3/22/1950
A013653	U S ELDORADO NATL FOREST	Licensed	3/27/1950
A013663	JEFFREY C. WILLIAMS, TRUSTEE OF THE JEFFREY C. WILLIAMS 2011 REVOCABLE TRUST	Licensed	3/30/1950
A013718	LAGUNA HOMEOWNERS ASSOCIATION	Licensed	5/3/1950
A013740	ROBERT E WOODWARD, JR	Licensed	5/15/1950
A013766	Richard Wolfe	Licensed	5/31/1950
A013839	HENRY WALTHER	Licensed	7/6/1950
A013849	ALLEN FAMILY TRUST	Licensed	7/17/1950
A013971	BENJAMIN D SHER IRREVOCABLE GST TRUST	Licensed	9/29/1950
A013994	PATTY BERRY	Licensed	10/13/1950
A014086	EMIR SIMBIRDI	Licensed	12/1/1950
A014138	BURNS LIVING TRUST	Licensed	1/22/1951
A014165	US BUREAU OF RECLAMATION	Licensed	2/19/1951
A014193	U S FOREST SERVICE	Licensed	3/14/1951
A014194	U S FOREST SERVICE	Licensed	3/14/1951
A014195	U S FOREST SERVICE	Licensed	3/14/1951
A014196	U S FOREST SERVICE	Licensed	3/14/1951
A014197	U S FOREST SERVICE	Licensed	3/14/1951
A014198	U S FOREST SERVICE	Licensed	3/14/1951
A014229	OUR LADY OF THE OAKS, A CALIF CORP	Licensed	4/5/1951
A014244	Michael K Baughman	Licensed	4/10/1951
A014328	MIMA CAPITAL LLC	Licensed	5/29/1951
A014370	JAMES PETRIKIN	Licensed	6/27/1951
A014409	U S ELDORADO NATL FOREST	Licensed	7/27/1951
A014439	RICK W FRANKE	Licensed	8/23/1951
A014452	U S ELDORADO NATL FOREST	Licensed	8/29/1951
A014494	SACRAMENTO COUNTY WATER AGENCY	Licensed	9/20/1951
A014515	US BUREAU OF RECLAMATION	Licensed	10/8/1951

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A014525	HIDDEN VALLEY COMMUNITY ASSOC	Licensed	10/16/1951
A014545	JEFFREY TILFORD	Licensed	11/1/1951
A014603	ELISABETH MILLER	Licensed	12/14/1951
A014620	DAVID MCCRANE	Licensed	1/15/1952
A014662	US BUREAU OF RECLAMATION	Permitted	1/29/1952
A014708	CITY OF PLACERVILLE	Licensed	3/11/1952
A014778	JEFFREY C. WILLIAMS, TRUSTEE OF THE JEFFREY C. WILLIAMS 2011 REVOCABLE TRUST	Licensed	4/25/1952
A014794	NORTH FORK ASSOCIATION	Licensed	5/5/1952
A014884	JEFFREY S HUBER	Licensed	7/1/1952
A014902	U S ELDORADO NATL FOREST	Licensed	7/10/1952
A014963	SACRAMENTO MUNICIPAL UTILITY DISTRICT	Licensed	8/12/1952
A015028	US BUREAU OF RECLAMATION	Licensed	9/23/1952
A015043	GREGORY M WATSON	Licensed	10/7/1952
A015077	HENRY WALTHER	Licensed	11/5/1952
A015215	COUNTY OF SACRAMENTO	Licensed	3/2/1953
A015252	PATRICIA CHELSETH	Licensed	3/24/1953
A015298	STONEWATER HOLDINGS LLC	Licensed	4/17/1953
A015338	RICK W FRANKE	Licensed	5/12/1953
A015346	THE VALLARINE 2002 TRUST	Licensed	5/18/1953
A015490	U S ELDORADO NATL FOREST	Licensed	8/31/1953
A015492	U S ELDORADO NATL FOREST	Licensed	8/31/1953
A015493	U S ELDORADO NATL FOREST	Licensed	8/31/1953
A015494	U S ELDORADO NATL FOREST	Licensed	8/31/1953
A015495	U S ELDORADO NATL FOREST	Licensed	8/31/1953
A015496	U S ELDORADO NATL FOREST	Licensed	8/31/1953
A015497	U S ELDORADO NATL FOREST	Licensed	8/31/1953
A015498	U S ELDORADO NATL FOREST	Licensed	8/31/1953
A015499	U S ELDORADO NATL FOREST	Licensed	8/31/1953
A015500	U S ELDORADO NATL FOREST	Licensed	8/31/1953
A015501	U S ELDORADO NATL FOREST	Licensed	8/31/1953
A015503	U S ELDORADO NATL FOREST	Licensed	8/31/1953
A015506	U S ELDORADO NATL FOREST	Licensed	8/31/1953
A015509	U S ELDORADO NATL FOREST	Licensed	8/31/1953
A015512	U S ELDORADO NATL FOREST	Licensed	8/31/1953

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A015513	U S ELDORADO NATL FOREST	Licensed	8/31/1953
A015514	U S ELDORADO NATL FOREST	Licensed	8/31/1953
A015522	NELLIE JO RANCH LLC	Licensed	9/2/1953
A015616	U S ELDORADO NATL FOREST	Licensed	11/23/1953
A015623	MT RALSTON PROPERTIES ASSN INC	Licensed	11/27/1953
A015662	JOHN METROPULOS III	Licensed	12/28/1953
A015804	GORDON J VICINI	Licensed	3/30/1954
A015918	EMIR SIMBIRDI	Licensed	6/18/1954
A015953	VICKIE L LONGO	Licensed	7/26/1954
A016037	MONA WILSON	Licensed	9/8/1954
A016060	CITY OF SACRAMENTO	Permitted	9/22/1954
A016212	GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT	Permitted	1/17/1955
A016326	MARK HANEY	Licensed	4/21/1955
A016327	PETE JENSON	Licensed	4/21/1955
A016368A	BO WU	Licensed	5/10/1955
A016368B	BO WU	Licensed	5/10/1955
A016368C01	GREENSTONE COUNTRY OWNER'S ASSOC	Licensed	5/10/1955
A016368C02	BO WU	Licensed	5/10/1955
A016402	TROOP #1 B S A	Licensed	6/2/1955
A016508	WILLIAM WADE KEYE	Licensed	8/9/1955
A016517	U S FOREST SERVICE	Licensed	8/11/1955
A016544	FAY F CARVER	Licensed	8/23/1955
A016564	U S ELDORADO NATL FOREST	Licensed	8/31/1955
A016650	LAKEVIEW HILLS COMMUNITY ASSOCIATION	Licensed	10/6/1955
A016688	GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT	Permitted	10/24/1955
A016691	U S FOREST SERVICE	Licensed	10/26/1955
A016763	GEORGE A LAY	Licensed	12/5/1955
A016885	SUSAN A FREDERICKS	Licensed	2/8/1956
A016891	WILLIAM WHITAKER	Licensed	2/14/1956
A016894	MORGAN ZERWAS	Licensed	2/14/1956
A016974	KIRK GROSS	Licensed	3/28/1956
A016995	David Shehane	Licensed	4/9/1956
A017108	TIMBERLAKE ESTATES HOMEOWNERS ASSOC	Licensed	5/29/1956

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A017173	CARITAS ACQUISITIONS I, LLC	Licensed	7/12/1956
A017207	JARRETT L IRONS	Licensed	8/3/1956
A017223	JOHN T LUKKONEN	Licensed	8/9/1956
A017304	U S FOREST SERVICE	Licensed	10/3/1956
A017371	US BUREAU OF RECLAMATION	Licensed	11/23/1956
A017382	Michelle D. Menard	Licensed	12/7/1956
A017398	JANELL CASTELLANOS	Licensed	12/17/1956
A017411	ORVILLE TELSTAD	Licensed	12/27/1956
A017414	JOSEPH D HALLER	Licensed	1/3/1957
A017420	MICHAEL WILGUS	Licensed	1/11/1957
A017521	U S ELDORADO NATL FOREST	Licensed	3/22/1957
A017571A	ROBERT D WHITMAN	Licensed	4/25/1957
A017571B	DAVID D MAFFEI	Licensed	4/25/1957
A017571C	PAUL NIPPERT	Licensed	4/25/1957
A017846	U S ELDORADO NATL FOREST	Licensed	10/11/1957
A017916	LINDA M PARISI	Licensed	12/16/1957
A018004	AUBREY WHITE	Licensed	2/18/1958
A018022	U S ELDORADO NATL FOREST	Licensed	3/3/1958
A018053	JASON SIEGFRIED	Licensed	3/17/1958
A018084	PLACER COUNTY WATER AGENCY	Permitted	4/7/1958
A018085	PLACER COUNTY WATER AGENCY	Permitted	4/7/1958
A018086	PLACER COUNTY WATER AGENCY	Permitted	4/8/1958
A018087	PLACER COUNTY WATER AGENCY	Permitted	4/8/1958
A018095	QUINTETTE SERVICE	Licensed	4/17/1958
A018106	TRUSTEN B WADSWORTH	Licensed	4/28/1958
A018157	SAM COOPER	Licensed	5/26/1958
A018158	GEOFF H JOHNSON	Licensed	5/26/1958
A018182	STEVEN JOHN REED JR	Licensed	6/13/1958
A018189	JESSE GREEN	Licensed	6/18/1958
A018196	US BUREAU OF RECLAMATION	Licensed	6/25/1958
A018211A	FAY LOUIE LIVING REVOCABLE TRUST OF 5/11/01	Licensed	7/9/1958
A018211B	DIAMANTE DEVELOPMENT LLC	Licensed	7/9/1958
A018320	SCOTT KRIGER	Licensed	9/16/1958
A018485	N JON NELSON	Licensed	1/21/1959

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A018487	GERALD E HAWKINS	Licensed	1/23/1959
A018512	LORI JANOWSKI	Licensed	1/29/1959
A018515	THE VALLARINE 2002 TRUST	Licensed	2/3/1959
A018541	EMIGRANT GAP MUTUAL WATER CO	Licensed	2/19/1959
A018551	FORESTHILL PUBLIC UTILITY DISTRICT	Licensed	2/24/1959
A018559	HUGH H LEWIS JR	Licensed	2/26/1959
A018579	LAURA A SCIARRINO	Licensed	3/9/1959
A018590	PETER PLASICHUK	Licensed	3/12/1959
A018617	KRISTINA POURFATHI	Licensed	3/31/1959
A018653	MICHAEL MCCARTY	Licensed	4/20/1959
A018684	FORESTHILL PROPERTY TRUST	Licensed	4/30/1959
A018752	STONEWATER HOLDINGS LLC	Licensed	5/29/1959
A018807	TRACY ANN BRENNAN-MULLIGAN	Licensed	6/17/1959
A018858	PETER M LA TONA	Licensed	7/15/1959
A018929	CHRISTIAN CHURCHES OF N CALIF-W NEVADA	Licensed	8/20/1959
A018955	MEGHAN MCANDREWS	Licensed	9/1/1959
A019052A	ANDREW SUMMER	Licensed	10/29/1959
A019052B	GLENDA J VELON	Licensed	10/29/1959
A019114	SIERRA PACIFIC INDUSTRIES	Licensed	12/2/1959
A019119	SLEEPY HOLLOW OWNERS ASSOCIATION	Licensed	12/3/1959
A019125	MANUEL PIZANO	Licensed	12/8/1959
A019185	JERRY JOHNSON	Licensed	1/18/1960
A019325	STEVEN LUDWIG	Licensed	3/24/1960
A019328	RICK MANICA	Licensed	3/28/1960
A019541	U S ELDORADO NATL FOREST	Licensed	7/13/1960
A019544	U S ELDORADO NATL FOREST	Licensed	7/13/1960
A019546	U S ELDORADO NATL FOREST	Licensed	7/13/1960
A019547	U S ELDORADO NATL FOREST	Licensed	7/13/1960
A019548	U S ELDORADO NATL FOREST	Licensed	7/13/1960
A019549	U S ELDORADO NATL FOREST	Licensed	7/13/1960
A019553	Melanie Rienhardt	Licensed	7/18/1960
A019633	RICHARD E. FREY	Licensed	8/1/1960
A019764	MARCIA C TAFFY WARNER	Licensed	9/30/1960
A019791	JOHN E GOULART III	Licensed	10/4/1960

TABLE B.1-11. AMERICAN RIVER HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
A019826	ANDREW ROMANOV	Licensed	10/24/1960
A019850	DOROTHY W ASHTON	Permitted	11/21/1960
A019880	MHC NAC, INC.	Licensed	12/16/1960
A019922	STEVEN FORD	Licensed	1/17/1961
A019943	AMY FOURNIER	Licensed	1/31/1961
A019975	COOK INVESTMENT PROPERTIES	Licensed	2/8/1961
A019977	US BUREAU OF RECLAMATION	Licensed	2/8/1961
A020011	US BUREAU OF RECLAMATION	Permitted	2/28/1961
A020017	NEVADA IRRIGATION DISTRICT	Permitted	3/6/1961
A020018	JOHN ARONOWICZ	Licensed	3/6/1961
A020144	JAMES MURPHY	Licensed	5/23/1961
A020256A	LAURA PARKER	Licensed	6/8/1961
A020256B	BARBAREE JERNIGAN	Licensed	6/8/1961
A020259	JOHN E MARLOW	Licensed	6/12/1961
A020305	GAEL M BARSOTTI	Licensed	7/18/1961
A020306	GAEL M BARSOTTI	Licensed	7/18/1961
A020307	GAEL M BARSOTTI	Licensed	7/18/1961
A020326	Paul Perron	Licensed	7/26/1961
A020339	OLSON TRACT WATER ASSOCIATION	Licensed	8/2/1961
A020478	US BUREAU OF RECLAMATION	Licensed	11/7/1961
A020490	GREGORY HUGHES	Licensed	11/10/1961
A020514	JOHN E MARLOW	Licensed	12/5/1961
A020522	SACRAMENTO MUNICIPAL UTILITY DISTRICT	Licensed	12/12/1961
A020543	BURNS LIVING TRUST	Licensed	12/29/1961
A020601	SIERRA LAKES COUNTY WATER DISTRICT	Permitted	2/8/1962
A020627A	ROBERT DEITZ II	Licensed	2/23/1962
A020627B	THOMAS WALTERS	Licensed	8/13/1992
A020627D	THOMAS WALTERS	Licensed	8/13/1992
A020659	U S ELDORADO NATL FOREST	Licensed	3/19/1962
A020675	U S ELDORADO NATL FOREST	Licensed	3/26/1962
A020796	MELINDA S LAU	Licensed	5/29/1962
A020827	RODNEY PIMENTAL	Licensed	6/22/1962
A020840	WES A FINNERAN	Licensed	7/3/1962
A021171	AUBURN MANOR HOLDING CORP	Licensed	2/27/1963

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A021189	US BUREAU OF RECLAMATION	Licensed	3/13/1963
A021211	AUBREY WHITE	Licensed	3/29/1963
A021225	LAWRENCE L CABODI	Licensed	4/8/1963
A021232	SUSAN A FREDERICKS	Licensed	4/10/1963
A021407	LINZY L COTHAM JR	Licensed	7/24/1963
A021480	MHC NAC, INC.	Licensed	10/1/1963
A021489	U S FOREST SERVICE	Licensed	10/7/1963
A021616	MINERS RAVINE ESTATES HOMEOWNERS ASSOCIATION	Licensed	1/24/1964
A021648	AUBURN LAKE TRAILS PROPERTY OWNERS ASSOC	Licensed	2/21/1964
A021763	DONNA VIOLA ELBERT	Licensed	5/6/1964
A021802	JOHN P HENDERSON	Licensed	5/29/1964
A021806	NOEL L DAVIDSON	Licensed	6/8/1964
A021855	BENJAMIN KEH	Licensed	7/20/1964
A021857	DIANE W BUCHHOLZ	Licensed	7/20/1964
A021876	RSC DEVELOPMENT CORPORATION	Licensed	8/24/1964
A021880	TRISTA MOMAN	Licensed	8/26/1964
A021888	Larry Bowser	Licensed	8/31/1964
A021945	FORESTHILL PUBLIC UTILITY DISTRICT	Permitted	10/22/1964
A022029	WILSON GRANAT	Licensed	1/15/1965
A022037	FOREST CABINS LLC	Licensed	2/4/1965
A022051	FOREST CABINS LLC	Licensed	2/24/1965
A022052		Licensed	2/24/1965
A022053	PATTY BERRY	Licensed	2/24/1965
A022062	FOREST CABINS LLC	Licensed	3/1/1965
A022110	SACRAMENTO MUNICIPAL UTILITY DISTRICT	Licensed	4/23/1965
A022226	WAYLAND LOUIE LIVING TRUST OF 7/23/02	Licensed	7/16/1965
A022465	ERIC D CLOUSE	Licensed	5/13/1966
A022478	TERENCE A HALL	Licensed	5/27/1966
A022515	SCHOENNAUER FAMILY PARTNERSHIP	Licensed	6/30/1966
A022596	DINO E ANDREOTTI	Licensed	9/30/1966
A022791	GLOBAL EDH LLC A WYOMING LLC	Licensed	5/18/1967

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A022817	PREMIER TRUST INC, CUSTODIAN FBO ROBERT I. JUDELSON, IRA	Licensed	6/14/1967
A022914	TRUST OF WILLIAM & MARY ROTHAUS	Licensed	9/29/1967
A022996	GEORGE ANGELO TSAKOPOULOS	Licensed	2/28/1968
A023032	Donald Ray Neal	Licensed	4/19/1968
A023041	Red Feather Farms LP	Licensed	5/10/1968
A023221	U S FOREST SERVICE	Licensed	1/30/1969
A023222	U S FOREST SERVICE	Licensed	1/30/1969
A023223	U S FOREST SERVICE	Licensed	1/30/1969
A023224	U S FOREST SERVICE	Licensed	1/30/1969
A023227	U S FOREST SERVICE	Licensed	1/30/1969
A023228	U S FOREST SERVICE	Licensed	1/30/1969
A023229	U S FOREST SERVICE	Licensed	1/30/1969
A023302	MICHAEL TODD KULHANJIAN	Licensed	7/2/1969
A023318	UNION PACIFIC RAILROAD COMPANY	Licensed	7/23/1969
A023404	SACRAMENTO MUNICIPAL UTILITY DISTRICT	Licensed	12/1/1969
A023420	U S ELDORADO NATL FOREST	Licensed	12/23/1969
A023438	BLUE CANYON PROPERTIES INC	Licensed	1/16/1970
A023556	AUBURN LAKE TRAILS PROPERTY OWNERS ASSOC	Licensed	7/14/1970
A023937	ROSE ANN GUTIERREZ	Licensed	12/6/1971
A023938	ROSE ANN GUTIERREZ	Licensed	12/6/1971
A023990	MARK HANEY	Licensed	3/7/1972
A024109	MEGAN L GRAHAM REVOCABLE TRUST	Licensed	7/6/1972
A024146	PAUL THOMASSON	Licensed	8/17/1972
A024241	WILLIAM FAWX FAMILY TRUST	Licensed	11/8/1972
A024351A	JACK E DEL CONTE	Licensed	4/12/1973
A024351B	ROBERT HIGHTOWER	Licensed	4/12/1973
A024427	MICHAEL DUNCAN	Licensed	8/3/1973
A024514A	LARRY R GOULDEN	Licensed	12/20/1973
A024514B	JACK CORRIE	Licensed	12/20/1973
A024514C	DWIGHT R DENTON	Licensed	12/20/1973
A024514D	DWIGHT R DENTON	Licensed	12/20/1973

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A024535	PAUL ROBINSON	Licensed	1/25/1974
A024575	GARY W SMITH	Licensed	3/21/1974
A024596	FORESTHILL PUBLIC UTILITY DISTRICT	Licensed	4/22/1974
A024672	VLADIMIR VAKULCHIK	Licensed	8/16/1974
A024683	FRED H RUSSELL III	Licensed	8/30/1974
A024705	JAMES PERKINS	Licensed	11/6/1974
A024875	KENNETH PIMENTEL	Licensed	9/8/1975
A024888	JEANNINE CLARK	Licensed	9/29/1975
A024997	US BUREAU OF LAND MANAGEMENT	Licensed	2/18/1976
A025016	ED MACHADO	Licensed	3/5/1976
A025097	CINDY WHITE	Licensed	7/9/1976
A025122	CAPITAL EQUITY MANAGEMENT GROUP INC	Licensed	8/2/1976
A025144	ROBERT VAN GILDER	Licensed	9/10/1976
A025310	STEPHEN HOFFMAN	Licensed	3/29/1977
A025315	LEE F SMITH	Licensed	3/31/1977
A025316	SACRAMENTO VALLEY TEEN CHALLENGE INC	Licensed	3/31/1976
A025340	Susan D Hobbs	Licensed	4/22/1977
A025380	JEFFREY MICHAEL ORCUTT	Licensed	6/2/1977
A025406	TRUST OF WILLIAM & MARY ROTHAUS	Licensed	6/24/1977
A025453	ROBERT N DUPRIEST	Licensed	8/10/1977
A025495	ROBERT I RIDGWAY	Licensed	9/2/1977
A025560	KARL HEMPFLING	Licensed	11/10/1977
A025567	KARL HEMPFLING	Licensed	11/15/1977
A025631	CHRISTOPHER PASTULA	Licensed	1/3/1978
A025667	NICHOLAS THOMAS GALIOTTO	Licensed	2/2/1978
A025711	SHINGLE SPRINGS BAND OF MIWOK INDIANS	Licensed	4/6/1978
A025809	BRYAN C DILTS	Licensed	8/21/1978
A025841	BRETT MARTIN GREENE	Licensed	10/3/1978
A025855	GAIL L EBERHARD	Licensed	10/13/1978
A025930	JAMES HART	Licensed	2/28/1979
A025973	RYAN MCREYNOLDS	Licensed	4/16/1979
A025985	County of Sacramento, Director of Economic Development	Licensed	5/2/1979

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A026023	SWANSBORO COUNTRY PROPERTY OWNERS ASSOCIATION INC	Licensed	6/13/1979
A026024	SWANSBORO COUNTRY PROPERTY OWNERS ASSOCIATION INC	Licensed	6/13/1979
A026025	SWANSBORO COUNTRY PROPERTY OWNERS ASSOCIATION INC	Licensed	6/13/1979
A026026	SWANSBORO COUNTRY PROPERTY OWNERS ASSOCIATION INC	Licensed	6/13/1979
A026027	SWANSBORO COUNTRY PROPERTY OWNERS ASSOCIATION INC	Licensed	6/13/1979
A026057	MICHAEL CREED	Licensed	7/30/1979
A026060	GAIL IRENE WHITE	Licensed	8/8/1979
A026078	MARK DECKER	Licensed	8/28/1979
A026099	Kelsey Thompson	Licensed	9/27/1979
A026137	SALLY MARKSTEIN	Licensed	11/19/1979
A026380	HYDROLAND OMEGA LLC	Permitted	5/22/1980
A026410	AUBURN LAKE TRAILS PROPERTY OWNERS ASSOC	Licensed	6/10/1980
A026427	MINERS COVE HOMEOWNERS ASSOCIATION	Licensed	6/24/1980
A026436	DOBBAS RANCH	Licensed	6/30/1980
A026438	DOBBAS RANCH	Licensed	6/30/1980
A026457	American River Conservancy	Licensed	7/15/1980
A026475	CHARLES DAVIS	Licensed	7/28/1980
A026486	KYBURZ MUTUAL WATER COMPANY	Permitted	8/7/1980
A026517	PACIFIC GAS AND ELECTRIC COMPANY	Permitted	9/4/1980
A026523	SARAH K KUKURUZA	Licensed	9/11/1980
A026573	LESLIE L FISHER	Licensed	10/8/1980
A026577	MT RALSTON PROPERTIES ASSN INC	Licensed	10/16/1980
A026637	PLACER COUNTY WATER AGENCY	Licensed	12/1/1980
A026722	GREENSTONE COUNTRY OWNER'S ASSOC	Licensed	2/20/1981

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A026768	SACRAMENTO MUNICIPAL UTILITY DISTRICT	Permitted	3/30/1981
A026778	DE ANZA PLACER GOLD MINING COMPANY	Licensed	4/6/1981
A026815	GREENSTONE COUNTRY OWNER'S ASSOC	Licensed	5/1/1981
A026816	GREENSTONE COUNTRY OWNER'S ASSOC	Licensed	5/1/1981
A026817	GREENSTONE COUNTRY OWNER'S ASSOC	Licensed	5/1/1981
A026818	GREENSTONE COUNTRY OWNER'S ASSOC	Licensed	5/1/1981
A026825	Gregory J. Henry	Licensed	5/11/1981
A026934	RON ROSINSKY	Licensed	7/30/1981
A026940	ETHAN HOFF	Licensed	8/4/1981
A026969	Saeed Zarakani	Licensed	8/25/1981
A026981	MICHAEL E COYLE	Licensed	9/2/1981
A027173	LORRAINE C JAMES	Licensed	1/7/1982
A027174	GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT	Permitted	1/8/1982
A027353	HYDROLAND OMEGA LLC	Permitted	6/4/1982
A027366	PAUL MCMAHON	Permitted	6/21/1982
A027518	USDA FOREST SERVICE LAKE TAHOE BASIN MANAGEMENT UNIT	Licensed	9/15/1982
A027520	MARIA RODRIGUEZ	Licensed	9/16/1982
A027566	DE ANZA PLACER GOLD MINING COMPANY	Licensed	10/28/1982
A027602	JACK CORRIE	Licensed	12/2/1982
A027630	DWIGHT R DENTON	Licensed	1/13/1983
A027642	DAVID DENT	Licensed	1/31/1983
A027651	PACIFIC POWER PARTNERS LLC	Permitted	2/10/1983
A027703	DWIGHT R DENTON	Licensed	4/4/1983
A027752	BEAR STATE WATER WORKS	Permitted	5/10/1983
A027928	APPLE MOUNTAIN LP	Licensed	12/7/1983
A027979	Michael K Baughman	Licensed	2/17/1984
A028122	RICHARD SCOTT HEER	Licensed	4/26/1984
A028204	U S ELDORADO NATL FOREST	Licensed	8/3/1984
A028208A	MAHMUD SHARIF	Licensed	8/3/1984

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A028208B	SILVER SPRINGS LLC	Licensed	8/3/1984
A028467	LEE A CHIUSANO	Permitted	5/29/1985
A028603	ANNA BORYS	Licensed	10/28/1985
A028792	SWANSBORO COUNTRY PROPERTY OWNERS ASSOCIATION INC	Licensed	2/3/1986
A028821	JUDY G ISAMAN	Licensed	4/7/1986
A028993	SHIRLAND LAKEVIEW ESTATES HOMEOWNERS ASSOC	Licensed	3/24/1987
A029219	JERRY M VANDERBEEK	Licensed	4/7/1988
A029223	DION GREGORY CARR	Licensed	4/14/1988
A029233	LAURA LUKENS	Permitted	4/19/1988
A029364	DE ANZA PLACER GOLD MINING COMPANY	Licensed	11/1/1988
A029721	PLACER COUNTY WATER AGENCY	Permitted	4/18/1990
A029958	MAHMUD SHARIF	Licensed	5/21/1991
A030062	HEAVENLY VALLEY, LIMITED PARTNERSHIP	Permitted	2/7/1992
A030129	CITY OF FOLSOM	Permitted	5/18/1992
A030239	LORI JANOWSKI	Permitted	2/2/1993
A030352	DOUGLAS B VEERKAMP	Permitted	4/14/1994
A030402	BRIAN KEATING	Licensed	6/13/1994
A030430	Michael W Dennis	Permitted	2/15/1995
A030453	HEAVENLY VALLEY, LIMITED PARTNERSHIP	Permitted	6/8/1995
A030454	SACRAMENTO COUNTY WATER AGENCY	Permitted	4/17/1995
A031595	SACRAMENTO MUNICIPAL UTILITY DISTRICT	Permitted	5/24/2005
A031596	SACRAMENTO MUNICIPAL UTILITY DISTRICT	Permitted	5/24/2005
C000009	OAK AVENUE HOLDINGS LLC	Stockpond	1/1/1950
C000339	HELEN A BELL	Stockpond	1/1/1968
C000340	LELAND J BELL	Stockpond	1/1/1968
C000435	JOHN B YEATMAN	Stockpond	1/1/1951
C000521	ELVA M LEWIS	Stockpond	1/1/1967
C000730	SACRAMENTO VALLEY TEEN CHALLENGE INC	Stockpond	1/1/1938
C000872	STEVE MEHALAKIS	Stockpond	1/1/1912

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C000875	RED FEATHER FARMS LP ET AL	Stockpond	1/1/1968
C000880	FRED C SMITH	Stockpond	1/1/1956
C000881	GLEN N RIGGS	Stockpond	1/1/1958
C000890	WILSON W PETTY	Stockpond	1/1/1950
C000902	H FRANCIS BACCHI	Stockpond	1/1/1955
C000903	BYRON W BACCHI IRREVOCABLE TRUST, THE	Stockpond	1/1/1958
C000967	MAX WRIGHT	Stockpond	1/1/1959
C001066	MIRIAM SAGASER	Stockpond	1/1/1967
C001079	AMAZING FACTS INC	Stockpond	1/1/1966
C001143	HOWARD D PRICE	Stockpond	1/1/1955
C001223	LAURO A DE ROJAS	Stockpond	1/1/1962
C001383	OBARDEE RANCH A PARTNERSHIP	Stockpond	1/1/1953
C001709	DEVERY L MINOR	Stockpond	1/1/1968
C001710	DEVERY L MINOR	Stockpond	1/1/1968
C001771	VERNACE B GOTT	Stockpond	1/1/1965
C001772	MELVIN H GOTT	Stockpond	1/1/1965
C001773	VERNACE B GOTT	Stockpond	1/1/1968
C002394	JUNE L MARCO	Stockpond	1/1/1953
C002647	ARTHUR L TRAYLOR	Stockpond	1/1/1956
C003070	COUNTY OF EL DORADO	Stockpond	1/1/1927
D029738	STEPHEN COWELL	Registration Domestic	5/7/1990
D029778	CORD LAMPHERE	Registration Domestic	7/13/1990
D029947	DENNY DYROFF	Registration Domestic	4/30/1991
D030214	KIM GASTMAN	Registration Domestic	1/26/1993
D030278	FIJI ENTERPRISES, LP	Registration Domestic	8/24/1993
D030381	David Dettmer	Registration Domestic	7/12/1994
D030413	CAROL BROCK	Registration Domestic	12/6/1994
D030548	FRANK JOHN FLENS	Registration Domestic	5/24/1996
D030749	VICENTE RIOS JR	Registration Domestic	8/14/1998
D030751	MARK EYRICH	Registration Domestic	3/3/1998
D030818	JEFF BERNARD	Registration Domestic	11/6/1998
D030999	ROXY RAE BASLER	Registration Domestic	1/21/2000
D031075	TARNVEER SINGH	Registration Domestic	4/6/2000
D031084	SALAS ZIRKLE	Registration Domestic	6/15/2000
D031456A	MYLES DAVIS	Registration Domestic	10/24/2003
D031456B	PAUL LABANE	Registration Domestic	10/24/2003

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D031641	RANAE L BYBEE	Registration Domestic	11/8/2006
D032240	DANIEL HITCHNER	Registration Domestic	2/18/2014
D032287	SAMUEL ROUNSEVILLE	Registration Domestic	7/21/2014
D032980	VINCENT VERDUGO	Registration Domestic	10/23/2018
D033216	CHARLES GRAGG	Registration Domestic	3/27/2024
D033418	CRYSTAL LAKES	Registration Domestic	2/21/2025
F004600S	U S FOREST SERVICE	Federal Claims	1/1/1968
F004601S	U S FOREST SERVICE	Federal Claims	1/1/1968
F004602S	U S FOREST SERVICE	Federal Claims	1/1/1968
F004603S	U S FOREST SERVICE	Federal Claims	1/1/1968
F004604S	U S FOREST SERVICE	Federal Claims	1/1/1968
F004605S	U S FOREST SERVICE	Federal Claims	1/1/1968
F005471S	U S ELDORADO NATL FOREST	Federal Claims	1/1/1970
F005472S	U S ELDORADO NATL FOREST	Federal Claims	1/1/1970
F005474S	U S ELDORADO NATL FOREST	Federal Claims	1/1/1970
F005475S	U S ELDORADO NATL FOREST	Federal Claims	1/1/1970
F005476S	U S ELDORADO NATL FOREST	Federal Claims	1/1/1970
F005478S	U S ELDORADO NATL FOREST	Federal Claims	1/1/1970
F005479S	U S ELDORADO NATL FOREST	Federal Claims	1/1/1970
F005480S	U S ELDORADO NATL FOREST	Federal Claims	1/1/1970
F005481S	U S ELDORADO NATL FOREST	Federal Claims	1/1/1970
F005482S	U S ELDORADO NATL FOREST	Federal Claims	1/1/1970
F005483S	U S ELDORADO NATL FOREST	Federal Claims	1/1/1970
F005486S	U S ELDORADO NATL FOREST	Federal Claims	1/1/1970
F005488S	U S ELDORADO NATL FOREST	Federal Claims	1/1/1970
F005493S	U S ELDORADO NATL FOREST	Federal Claims	1/1/1970
F005495S	U S ELDORADO NATL FOREST	Federal Claims	1/1/1970
F005496S	U S ELDORADO NATL FOREST	Federal Claims	1/1/1970
F005497S	U S ELDORADO NATL FOREST	Federal Claims	1/1/1970
F005499S	U S ELDORADO NATL FOREST	Federal Claims	1/1/1970
F005502S	U S ELDORADO NATL FOREST	Federal Claims	1/1/1970
F005503S	U S ELDORADO NATL FOREST	Federal Claims	1/1/1970
F005504S	U S ELDORADO NATL FOREST	Federal Claims	1/1/1970
F005506S	U S ELDORADO NATL FOREST	Federal Claims	1/1/1970
F005507S	U S ELDORADO NATL FOREST	Federal Claims	1/1/1970
F005508S	U S ELDORADO NATL FOREST	Federal Claims	1/1/1970
F005509S	U S ELDORADO NATL FOREST	Federal Claims	1/1/1970
F005510S	U S ELDORADO NATL FOREST	Federal Claims	1/1/1970

TABLE B.1-11. AMERICAN RIVER HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
F005511S	U S ELDORADO NATL FOREST	Federal Claims	1/1/1970
F005512S	U S ELDORADO NATL FOREST	Federal Claims	1/1/1970
F005515S	U S ELDORADO NATL FOREST	Federal Claims	1/1/1970
F005516S	U S ELDORADO NATL FOREST	Federal Claims	1/1/1970
F005517S	U S ELDORADO NATL FOREST	Federal Claims	1/1/1970
F005518S	U S ELDORADO NATL FOREST	Federal Claims	1/1/1970
F005519S	U S ELDORADO NATL FOREST	Federal Claims	1/1/1970
F005520S	U S ELDORADO NATL FOREST	Federal Claims	1/1/1970
F005522S	U S ELDORADO NATL FOREST	Federal Claims	1/1/1970
F005523S	U S ELDORADO NATL FOREST	Federal Claims	1/1/1970
F005524S	U S ELDORADO NATL FOREST	Federal Claims	1/1/1970
F005525S	U S ELDORADO NATL FOREST	Federal Claims	1/1/1970
F005526S	U S ELDORADO NATL FOREST	Federal Claims	1/1/1970
F005529S	U S ELDORADO NATL FOREST	Federal Claims	1/1/1970
F005530S	U S ELDORADO NATL FOREST	Federal Claims	1/1/1970
F005531S	U S ELDORADO NATL FOREST	Federal Claims	1/1/1970
F005532S	U S ELDORADO NATL FOREST	Federal Claims	1/1/1970
F005533S	U S ELDORADO NATL FOREST	Federal Claims	1/1/1970
F005534S	U S ELDORADO NATL FOREST	Federal Claims	1/1/1970
F006967S	USDA FOREST SERVICE LAKE TAHOE BASIN MANAGEMENT UNIT	Federal Claims	1/25/1971
F007008S	USDA FOREST SERVICE LAKE TAHOE BASIN MANAGEMENT UNIT	Federal Claims	1/1/1971
F008526S	U S FOREST SERVICE	Federal Claims	1/1/1975
F010938S	U S ELDORADO NATL FOREST	Federal Claims	6/21/1982
F010942S	U S ELDORADO NATL FOREST	Federal Claims	6/21/1982
F010943S	U S ELDORADO NATL FOREST	Federal Claims	6/21/1982
F010944S	U S ELDORADO NATL FOREST	Federal Claims	6/21/1982
F010945S	U S ELDORADO NATL FOREST	Federal Claims	6/21/1982
F010946S	U S ELDORADO NATL FOREST	Federal Claims	6/21/1982
F010947S	U S ELDORADO NATL FOREST	Federal Claims	6/21/1982
F010948S	U S ELDORADO NATL FOREST	Federal Claims	6/21/1982
F010952S	U S ELDORADO NATL FOREST	Federal Claims	6/21/1982
F011045S	U S ELDORADO NATL FOREST	Federal Claims	12/13/1982
F011046S	U S ELDORADO NATL FOREST	Federal Claims	12/13/1982
L031144	JOHN E BRASHER	Registration Livestock	2/1/2001
L031466	JONATHAN ELDER	Registration Livestock	10/14/2003

TABLE B.1-11. AMERICAN RIVER HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
L033185	RK RANCHES	Registration Livestock	1/27/2021
S000097	ROBERT C SLOVER	Pre-1914 Appropriative	01/01/1883
S000274	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S000275	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S000276	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S000277	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S000278	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S000279	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S000280	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S000281	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S000282	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S000283	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S000285	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S000286	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S000287	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S000288	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S000388	COLOMA-LOTUS RANCH DITCH USERS ASSOC	Pre-1914 Appropriative	01/01/1853
S000500	RALPH W RODGERS	Riparian	NA
S000630	SILLER BROS, INC	Riparian	NA
S000656	SAN JUAN WATER DISTRICT	Pre-1914 Appropriative	01/01/1852
S000934	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	01/01/1855
S000935	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	01/01/1855
S000936	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	01/01/1852
S000937	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	01/01/1870
S000938	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	01/01/1870
S000939	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	01/01/1870
S000940	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	01/01/1875
S000941	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	01/01/1875
S000942	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	01/01/1870

TABLE B.1-11. AMERICAN RIVER HRL WATER RIGHTS			
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S000943	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	01/01/1870
S000944	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	01/01/1852
S000945	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	01/01/1864
S000946	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	01/01/1850
S000948	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	01/01/1855
S000949	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	01/01/1855
S000950	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	01/01/1860
S000951	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	01/01/1877
S000952	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	01/01/1887
S000953	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	01/01/1865
S000954	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	01/01/1853
S000955	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	01/01/1853
S000957	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	01/01/1852
S000959	PLACER COUNTY WATER AGENCY	Pre-1914 Appropriative	01/01/1864
S000960	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	01/01/1863
S000961	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	01/01/1864
S000964	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	01/01/1865
S000967	PLACER COUNTY WATER AGENCY	Pre-1914 Appropriative	01/01/1864
S000968	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	1/1/1917
S000969	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	1/1/1917
S000973	EL DORADO IRRIGATION DISTRICT	Pre-1914 Appropriative	01/01/1856

TABLE B.1-11. AMERICAN RIVER HRL WATER RIGHTS			
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S000974	EL DORADO IRRIGATION DISTRICT	Pre-1914 Appropriative	01/01/1856
S000975	EL DORADO IRRIGATION DISTRICT	Pre-1914 Appropriative	01/01/1873
S000976	EL DORADO IRRIGATION DISTRICT	Pre-1914 Appropriative	01/01/1873
S001248	Traci Atwood	Pre-1914 Appropriative	01/01/1859
S003069	Paul S. Brown	Riparian	NA
S003238	KEVIN DOYLE	Pre-1914 Appropriative	01/01/1870
S003732	ROBERT ROBINSON	Riparian	NA
S004223	SUSAN KELLY	Pre-1914 Appropriative	01/01/1867
S004342	DARYL C OEST	Pre-1914 Appropriative	01/01/1868
S004462	FRANK VODOPICH	Pre-1914 Appropriative	1/1/1907
S004593	U S FOREST SERVICE	Riparian	NA
S004682	SACRAMENTO COUNTY DEPT OF PARKS & REC	Riparian	NA
S004690	MOSQUITO VOLUNTEER FIRE ASSOCIATION	Pre-1914 Appropriative	1/1/1905
S004708	EL DORADO IRRIGATION DISTRICT	Pre-1914 Appropriative	01/01/1856
S004909	JEFF A WERGELAND	Riparian	NA
S004940	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S004941	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S004942	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S004943	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S004944	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S004945	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S004946	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S004947	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S004948	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S004949	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S004950	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S004951	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S004952	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S004953	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S004954	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S004955	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S004956	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S004957	SIERRA PACIFIC INDUSTRIES	Riparian	NA

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S004958	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S004959	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S005473	U S ELDORADO NATL FOREST	Riparian	NA
S005484	U S ELDORADO NATL FOREST	Riparian	NA
S005489	U S ELDORADO NATL FOREST	Riparian	NA
S005490	U S ELDORADO NATL FOREST	Riparian	NA
S005491	U S ELDORADO NATL FOREST	Riparian	NA
S005498	U S ELDORADO NATL FOREST	Riparian	NA
S005500	U S ELDORADO NATL FOREST	Riparian	NA
S005501	U S ELDORADO NATL FOREST	Riparian	NA
S005505	U S ELDORADO NATL FOREST	Riparian	NA
S005528	U S ELDORADO NATL FOREST	Riparian	NA
S005705	U S ELDORADO NATL FOREST	Riparian	NA
S005708	U S ELDORADO NATL FOREST	Riparian	NA
S006964	U S ELDORADO NATL FOREST	Riparian	NA
S006968	U S ELDORADO NATL FOREST	Riparian	NA
S006969	U S ELDORADO NATL FOREST	Riparian	NA
S007372	HERITAGE SINGERS	Pre-1914 Appropriative	01/01/1889
S007385	HERITAGE SINGERS	Pre-1914 Appropriative	01/01/1885
S008035	JOHN SCHLOBOHM	Riparian	NA
S008088	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S008089	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S008090	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S008091	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S008094	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S008096	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S008097	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S008098	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S008099	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S008100	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S008101	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S008102	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S008103	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S008183	VLADIMIR VAKULCHIK	Riparian	NA
S008288	Mary Ann Dreher-Harris	Riparian	NA
S008345	ROBERT C BRASIEL	Riparian	NA
S008385	JOHN E KIRBY	Riparian	NA
S008427	JAMES PERKINS	Riparian	NA

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S008689	JAMES PERKINS	Riparian	NA
S008701	ROBERT C PHILLIPS	Pre-1914 Appropriative	1/1/1910
S008761	2005 Maryann R. Argyres Trust	Pre-1914 Appropriative	1/1/1910
S008878	LAWRENCE B JAUREGUI	Riparian	NA
S008894	U S FOREST SERVICE	Riparian	NA
S008916	U S FOREST SERVICE	Riparian	NA
S008956	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S008957	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S008958	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S008959	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S008960	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S008961	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S008963	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S008968	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S008969	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S008970	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S008972	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S009032	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	01/01/1870
S009033	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	01/01/1873
S009034	EL DORADO IRRIGATION DISTRICT	Pre-1914 Appropriative	01/01/1856
S009035	EL DORADO IRRIGATION DISTRICT	Pre-1914 Appropriative	01/01/1856
S009158	ANGELO PORTILLO	Pre-1914 Appropriative	1/1/1910
S009260	MARY NISHIMOTO	Pre-1914 Appropriative	01/01/1874
S009297	LOLITA TAYLOR	Riparian	NA
S009318	FRANK A SCHOPEN	Riparian	NA
S009327	MARGO R SCHULLERTS	Riparian	NA
S009351	CHARLES VAN DAM	Pre-1914 Appropriative	01/01/1874
S009365	KEN MINDORO	Riparian	NA
S009372	TIM WILSON	Pre-1914 Appropriative	01/01/1874
S009415	FRANK W BETTIS	Riparian	NA
S009420	KENT MORGAN	Riparian	NA
S009433	DAVID DEAN CHADDOCK	Pre-1914 Appropriative	01/01/1880
S009512	ROBERT S LAMPE	Pre-1914 Appropriative	01/01/1874
S009573	MICKEY L FONG	Riparian	NA
S009595	GAIL M ADAMS	Riparian	NA

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S009773	L E BURNS	Riparian	NA
S009942	VICKIE L FEHL	Riparian	NA
S009978	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	01/01/1870
S009979	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	01/01/1870
S009980	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	01/01/1870
S009981	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	01/01/1870
S009982	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	01/01/1870
S010095	GRANT N JONES	Riparian	NA
S010322	KYBURZ MUTUAL WATER COMPANY	Pre-1914 Appropriative	01/01/1890
S010396	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	01/01/1870
S010397	PLACER COUNTY WATER AGENCY	Pre-1914 Appropriative	01/01/1896
S010398	PLACER COUNTY WATER AGENCY	Pre-1914 Appropriative	1/1/1909
S010399	SACRAMENTO MUNICIPAL UTILITY DISTRICT	Riparian	NA
S010545	BARRY NELSON	Pre-1914 Appropriative	01/01/1883
S010672	SHERRY FABELA	Pre-1914 Appropriative	01/01/1852
S010717	EL DORADO IRRIGATION DISTRICT	Riparian	NA
S010794	NEVADA IRRIGATION DISTRICT	Pre-1914 Appropriative	01/01/1880
S010839	DE ANZA PLACER GOLD MINING COMPANY	Pre-1914 Appropriative	01/01/1870
S010847	MICHAEL D CLADER	Pre-1914 Appropriative	01/01/1874
S010899	WILLIAM V DALLAS	Riparian	NA
S010927	U S ELDORADO NATL FOREST	Riparian	NA
S010939	U S ELDORADO NATL FOREST	Riparian	NA
S010940	U S ELDORADO NATL FOREST	Riparian	NA
S010941	U S ELDORADO NATL FOREST	Riparian	NA
S010949	U S ELDORADO NATL FOREST	Riparian	NA
S010950	U S ELDORADO NATL FOREST	Riparian	NA
S010951	U S ELDORADO NATL FOREST	Riparian	NA
S010953	U S ELDORADO NATL FOREST	Riparian	NA
S010954	U S ELDORADO NATL FOREST	Riparian	NA

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S010955	U S ELDORADO NATL FOREST	Riparian	NA
S010956	U S ELDORADO NATL FOREST	Riparian	NA
S010957	U S ELDORADO NATL FOREST	Riparian	NA
S010958	U S ELDORADO NATL FOREST	Riparian	NA
S011041	U S ELDORADO NATL FOREST	Riparian	NA
S011044	U S ELDORADO NATL FOREST	Riparian	NA
S011297	JAMES G CLARK	Riparian	NA
S011425	CHERIE MANICA	Riparian	NA
S011427	ALEJANDRA Z FLOREZ	Riparian	NA
S011436	MIKE RASKOWSKY	Riparian	NA
S011437	MIKE RASKOWSKY	Riparian	NA
S011497	BRUCE WHEELER	Riparian	NA
S012215	U S ELDORADO NATL FOREST	Riparian	NA
S012442	ROBERT E AKIN	Riparian	NA
S012496	PETER GALLO	Riparian	NA
S013142	ANNA SEABIRD CLAIBORNE	Riparian	NA
S013150	George A Matson	Pre-1914 Appropriative	01/01/1879
S013184	DANE V CLARK	Riparian	NA
S013195	BARSOTTI FAMILY LLC	Pre-1914 Appropriative	01/01/1865
S013336	GARY A GLENESK	Riparian	NA
S013391	Hendrix Judith A Trust, Hendrix JA LV RV Trust	Riparian	NA
S013474	BOB QUINN	Riparian	NA
S013501	EL DORADO IRRIGATION DISTRICT	Pre-1914 Appropriative	01/01/1854
S013502	EL DORADO IRRIGATION DISTRICT	Pre-1914 Appropriative	01/01/1852
S013790	NEVADA IRRIGATION DISTRICT	Pre-1914 Appropriative	01/01/1853
S013791	NEVADA IRRIGATION DISTRICT	Pre-1914 Appropriative	01/01/1853
S013892	PETER N BERBOHM	Riparian	NA
S013918	DEBORAH ALLWINE	Riparian	NA
S013966	DOUGLAS B VEERKAMP	Pre-1914 Appropriative	1/1/1904
S013978	BETTY P BACCHI	Pre-1914 Appropriative	01/01/1872
S014053	FIJI ENTERPRISES, LP	Riparian	NA
S014204	RONALD S JAVOR TRUST	Riparian	NA
S014211	COLD SPRINGS GOLF & COUNTRY CLUB	Riparian	NA
S014226	SUZANNE ALLEN	Riparian	NA

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S014323	EL DORADO IRRIGATION DISTRICT	Pre-1914 Appropriative	01/01/1889
S014539	GREGORY L SCHILLIANSKEY	Riparian	NA
S014543	BRUCE EMERSON	Riparian	NA
S014562	ALFRED ROATH	Riparian	NA
S014596	BEN PADILLA	Riparian	NA
S014597	GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT	Pre-1914 Appropriative	01/01/1850
S014598	GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT	Pre-1914 Appropriative	01/01/1850
S014599	GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT	Pre-1914 Appropriative	01/01/1850
S014600	GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT	Pre-1914 Appropriative	01/01/1850
S014601	GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT	Pre-1914 Appropriative	01/01/1850
S014762	PATRICIA LEE BEARD	Pre-1914 Appropriative	01/01/1875
S014794	JESSE SENESTRARO	Riparian	NA
S014803	RICHARD J STRITT	Riparian	NA
S014834	CITY OF SACRAMENTO	Pre-1914 Appropriative	01/01/1849
S014967	EL DORADO IRRIGATION DISTRICT	Pre-1914 Appropriative	01/01/1852
S014968	EL DORADO IRRIGATION DISTRICT	Pre-1914 Appropriative	01/01/1855
S014969	EL DORADO IRRIGATION DISTRICT	Pre-1914 Appropriative	01/01/1855
S015467	KENT MORGAN	Pre-1914 Appropriative	1/1/1913
S015820	KENNETH R SIBLEY	Riparian	NA
S015937	EL DORADO IRRIGATION DISTRICT	Pre-1914 Appropriative	01/01/1872
S015938	EL DORADO IRRIGATION DISTRICT	Pre-1914 Appropriative	01/01/1872
S015939	EL DORADO IRRIGATION DISTRICT	Pre-1914 Appropriative	01/01/1856
S015940	EL DORADO IRRIGATION DISTRICT	Pre-1914 Appropriative	01/01/1856
S015941	EL DORADO IRRIGATION DISTRICT	Pre-1914 Appropriative	01/01/1856
S016089	The Palisades	Pre-1914 Appropriative	01/01/1872
S016156	Michael Hulett	Riparian	NA
S016157	Michael Hulett	Riparian	NA

TABLE B.1-11. AMERICAN RIVER HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
S016308	Michael Hulett	Riparian	NA
S016313	Michael Hulett	Riparian	NA
S016802	R.H. EMMERSON & SONS	Riparian	NA
S016803	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S016804	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S016805	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S016806	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S017323	CITY OF FOLSOM	Pre-1914 Appropriative	01/01/1851
S017326	CITY OF FOLSOM	Pre-1914 Appropriative	01/01/1851
S017490	CITY OF FOLSOM	Pre-1914 Appropriative	01/01/1851
S017491	CITY OF FOLSOM	Pre-1914 Appropriative	01/01/1851
S018206	RAYMOND L HYDER	Riparian	1/1/1970
S019439	UC Regents	Riparian	NA
S019442	UC Regents	Riparian	NA
S019445	UC Regents	Riparian	NA
S019449	UC Regents	Riparian	NA
S019452	UC Regents	Riparian	NA
S019455	UC Regents	Riparian	NA
S019458	UC Regents	Riparian	NA
S019574	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S019576	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S022082	WALKER LAND COMPANY	Pre-1914 Appropriative	01/01/1875
S022143	CASA LOMA HOMEOWNERS ASSOCIATION	Riparian	NA
S022145	Craig A Lindsay	Riparian	NA
S022253	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S022254	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S022255	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S022256	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S022257	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S022258	U S ELDORADO NATL FOREST	Riparian	NA
S022259	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S022260	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S022261	U S ELDORADO NATL FOREST	Riparian	NA
S022506	SCOTT HERRING	Riparian	NA
S022630	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S022635	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S022636	SIERRA PACIFIC INDUSTRIES	Riparian	NA

TABLE B.1-11. AMERICAN RIVER HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
S022647	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S022648	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S022649	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S022650	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S022660	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S022661	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S022662	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S022663	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S022664	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S022682	EL DORADO IRRIGATION DISTRICT	Pre-1914 Appropriative	01/01/1851
S023168	ROBERT R KIRTLAN	Riparian, Pre-1914 Appropriative	6/30/2010
S024054	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S024061	USDA FOREST SERVICE	Riparian	NA
S024130	TIMOTHY CLAYTON	Riparian	NA
S024158	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S024161	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S024166	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S024169	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S024171	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S024173	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S024174	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S024184	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S024190	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S024238	ANNA SEABIRD CLAIBORNE	Riparian	NA
S024282	THOMAS J. CIECHANOWSKI	Riparian	NA
S024457	EVELYN T WICKS	Riparian	NA
S024527	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S024557	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S024561	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S024575	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S024585	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S024586	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S024594	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S024600	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S024601	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S024602	SIERRA PACIFIC INDUSTRIES	Riparian	NA

TABLE B.1-11. AMERICAN RIVER HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
S024603	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S024604	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S024605	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S024606	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S024608	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S024615	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S024646	James Greule	Riparian	NA
S024760	GOLDEN STATE WATER COMPANY	Pre-1914 Appropriative	01/01/1851
S024794	MICHAEL CARL VISMAN	Riparian	NA
S024939	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S024985	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S024986	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S024990	Sierra pacific industries	Riparian	NA
S024992	Sierra pacific industries	Riparian	NA
S024994	Sierra pacific industries	Riparian	NA
S024995	Sierra pacific industries	Riparian	NA
S024996	Sierra pacific industries	Riparian	NA
S024997	Sierra pacific industries	Riparian	NA
S024998	Sierra pacific industries	Riparian	NA
S024999	Sierra pacific industries	Riparian	NA
S025075	Sierra pacific industries	Riparian	NA
S025081	Sierra pacific industries	Riparian	NA
S025083	Sierra pacific industries	Riparian	NA
S025085	Sierra pacific industries	Riparian	NA
S025086	Sierra pacific industries	Riparian	NA
S025297	City of sacramento	Riparian	NA
S025638	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S025639	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S025640	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S025641	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S025642	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S025643	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S025644	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S025645	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S025649	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S025651	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S025652	SIERRA PACIFIC INDUSTRIES	Riparian	NA

TABLE B.1-11. AMERICAN RIVER HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
S025654	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S025655	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S025656	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S025871	MICHAEL T BRADBURN	Riparian	NA
S025903	USDA FOREST SERVICE LAKE TAHOE BASIN MANAGEMENT UNIT	Riparian	NA
S025945	GRANITE BAY GOLF CLUB	Riparian	NA
S026175	SACRAMENTO MUNICIPAL UTILITY DISTRICT	Riparian	NA
S027151	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S027152	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S027708	AUBURN JEEP CLUB	Riparian	NA
S027812	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S027813	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S027826	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S027828	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S027878	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S027901	SACRAMENTO MUNICIPAL UTILITY DISTRICT	Riparian	NA
S028166	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S028167	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S028168	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S028169	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S028199	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S028359	LARSEN FAMILY TRUST	Pre-1914 Appropriative	01/01/1895
S028409	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S028410	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S028429	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S028430	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S028431	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S028432	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S028442	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S028445	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S028449	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S028551	RK RANCHES	Riparian	NA
S028965	STEVE HULME	Riparian	NA
S028977	ANNETTE MCCORD	Riparian	NA
S028988	JOHN H GRUNIGEN	Pre-1914 Appropriative	01/01/1896

TABLE B.1-11. AMERICAN RIVER HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
S029052	THE CHURCH OF JESUS CHRIST OF LATTER DAY SAINTS	Riparian	NA

Table B.1-12. Feather River HRL Water Rights

TABLE B.1-12. FEATHER RIVER HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
A000476	PARADISE IRRIGATION DISTRICT	Permitted	5/3/1917
A000480	PLUMAS MUTUAL WATER COMPANY	Licensed	9/23/1916
A000685	MASSACK WATER USERS ASSOCIATION	Licensed	5/18/1917
A001024	DELBERT H LEHR	Licensed	7/17/1918
A001651	SOUTH FEATHER WATER & POWER AGENCY	Permitted	2/2/1920
A001656	RANCHO ESQUON INC	Licensed	2/5/1920
A001699	GARDEN HIGHWAY MUTUAL WATER COMPANY	Licensed	3/2/1920
A001712	JOAN ESCALANTE	Licensed	3/6/1920
A001716	AJIT S BAINS	Licensed	3/9/1920
A001739	THERMALITO WATER AND SEWER DISTRICT	Licensed	3/25/1920
A002142	SOUTH FEATHER WATER & POWER AGENCY	Permitted	12/17/1920
A002186	PACIFIC GAS AND ELECTRIC COMPANY	Licensed	2/1/1921
A002195	PACIFIC GAS AND ELECTRIC COMPANY	Licensed	2/10/1921
A002576	RANCHO ESQUON INC	Licensed	10/6/1921
A002755	PACIFIC GAS AND ELECTRIC COMPANY	Licensed	2/9/1922

TABLE B.1-12. FEATHER RIVER HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
A002777	GORRILL LAND COMPANY	Licensed	3/6/1922
A002778	SOUTH FEATHER WATER & POWER AGENCY	Permitted	3/6/1922
A002805	RANCHO ESQUON INC	Licensed	3/24/1922
A002824	DAVID E NALL	Licensed	4/21/1922
A002909	RANCHO ESQUON INC	Licensed	6/27/1922
A002978	North Yuba Water District	Licensed	8/12/1922
A002979	SOUTH FEATHER WATER & POWER AGENCY	Permitted	8/12/1922
A003040	THERMALITO WATER AND SEWER DISTRICT	Licensed	9/16/1922
A003126	ALBERT P STIEFEL	Licensed	11/8/1922
A003206	GOOSE CLUB FARMS NORTH LLC	Licensed	12/27/1922
A003265	TERRY LEE MIRACLE	Licensed	2/23/1923
A003332	FAR VIEW ENTERPRISES INC	Licensed	3/27/1923
A003794	PACIFIC GAS AND ELECTRIC COMPANY	Licensed	1/10/1924
A003795	PACIFIC GAS AND ELECTRIC COMPANY	Licensed	1/10/1924
A003889	PACIFIC GAS AND ELECTRIC COMPANY	Licensed	3/6/1924
A003918	U S PLUMAS NATL FOREST	Licensed	3/25/1924
A004000	PACIFIC GAS AND ELECTRIC COMPANY	Licensed	5/23/1924
A004022	GRAY EAGLE LODGE	Licensed	6/11/1924
A004023	GRAY EAGLE LODGE	Licensed	6/11/1924
A004122	MICHAEL N LEE	Licensed	7/31/1924
A004234	RICHARD L SCHWENDINGER	Licensed	9/24/1924
A004251	JEM FARMS	Licensed	10/6/1924
A004281	MIRIAM C BARKER	Licensed	10/28/1924
A004441	PACIFIC GAS AND ELECTRIC COMPANY	Licensed	2/2/1925
A004453	PACIFIC GAS AND ELECTRIC COMPANY	Licensed	2/10/1925
A004491	PACIFIC GAS AND ELECTRIC COMPANY	Licensed	3/5/1925
A004598	PACIFIC GAS AND ELECTRIC COMPANY	Licensed	5/22/1925
A004663	RANCHO ESQUON INC	Licensed	6/30/1925

TABLE B.1-12. FEATHER RIVER HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
A004664	GORRILL LAND COMPANY	Licensed	6/30/1925
A004665	GORRILL LAND COMPANY	Licensed	6/30/1925
A004864	Floyd V Burton	Licensed	12/15/1925
A004871	PACIFIC GAS AND ELECTRIC COMPANY	Licensed	12/21/1925
A004989	SIERRA PACIFIC INDUSTRIES	Licensed	4/7/1926
A005015	LOTTS LAKE ASSOCIATION	Licensed	5/13/1926
A005109	M AND T INCORPORATED	Licensed	7/17/1926
A005110	PARROTT INVESTMENT COMPANY	Licensed	7/17/1926
A005171	MICHAEL N LEE	Licensed	8/26/1926
A005629	CALIF DEPT OF WATER RESOURCES	Permitted	7/30/1927
A005630	CALIF DEPT OF WATER RESOURCES	Permitted	7/30/1927
A005754	Gilsizer Slough, LLC	Licensed	11/12/1927
A005996	LOREN PERKINS	Licensed	7/27/1928
A005997	PACIFIC GAS AND ELECTRIC COMPANY	Licensed	7/27/1928
A006171	TAMI KOHLER	Licensed	1/28/1929
A006241	PACIFIC GAS AND ELECTRIC COMPANY	Licensed	4/8/1929
A006287	Robert Foster	Licensed	5/15/1929
A006348	A & G MONTNA PROPERTIES LP	Licensed	6/26/1929
A006412	SIERRA PACIFIC INDUSTRIES	Licensed	8/17/1929
A006469	MICHAEL D GRANT	Licensed	10/28/1929
A006582	NORDIC LANDHOLDINGS II LLC	Licensed	3/4/1930
A006723	SHIRLEY J BAUMANN TRUST	Licensed	7/8/1930
A006728	DAWN INSTITUTE OF SCIENCE & ART	Licensed	7/11/1930
A006743	BUTTE SLOUGH IRRIGATION COMPANY	Licensed	7/21/1930
A006925	OSWALD WATER DISTRICT	Licensed	3/27/1931
A006933	TARKE BROS ESTATE LLC	Licensed	4/8/1931
A007370	CALIF DEPT OF TRANSPORTATION	Licensed	9/8/1932
A007526	REGENTS OF THE UNIVERSITY OF CALIFORNIA	Licensed	3/29/1933
A007978	DANIEL WILSON	Licensed	6/15/1934

TABLE B.1-12. FEATHER RIVER HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
A007979	PATRICK LAUGHLIN	Licensed	6/15/1934
A007988A	Helen M Davis, Inc.	Licensed	6/22/1934
A007988B	FRANK A ROGERS JR ETAL	Licensed	6/22/1934
A007988C	Third Street Investors	Licensed	6/22/1934
A007988D	KATHRINE D BRYANT	Licensed	6/22/1934
A007988E	JENNIFER GIAMPAOLI	Licensed	6/22/1934
A007988F	CENTRAL LAND COMPANY	Licensed	6/22/1934
A007988G	NORTH BYPASS RANCH	Licensed	6/22/1934
A007988H	Third Street Investors	Licensed	6/22/1934
A007988I	CRAIG TARKE	Licensed	6/22/1934
A007989	TJ HOLDINGS LP	Licensed	6/22/1934
A008187	PARROTT INVESTMENT COMPANY	Licensed	12/1/1934
A008188	M AND T INCORPORATED	Licensed	12/1/1934
A008422	Mary Ann Nash	Licensed	8/21/1935
A008460	U S PLUMAS NATL FOREST	Licensed	10/3/1935
A008495	GRAEAGLE LAND & WATER COMPANY	Licensed	11/14/1935
A008496	GRAEAGLE LAND & WATER COMPANY	Licensed	11/14/1935
A008559	PARROTT INVESTMENT COMPANY	Permitted	2/19/1936
A008565	M AND T INCORPORATED	Permitted	2/27/1936
A008722	MATTEOLI BROTHERS	Licensed	7/1/1936
A008830	LEAL FAMILY TRUST	Licensed	11/13/1936
A008964	EST OF WILLIAM JAMES DAWSON JR	Licensed	5/6/1937
A008986	BROWNS VALLEY IRRIGATION DISTRICT	Licensed	6/4/1937
A008990	U S PLUMAS NATL FOREST	Licensed	6/5/1937
A008991	U S PLUMAS NATL FOREST	Licensed	6/5/1937
A009207	ROBERT RITTER	Licensed	12/22/1937
A009274	ROBERT W ELFEN	Licensed	4/15/1938
A009275	JEANETTE MORTON	Licensed	4/15/1938
A009293	U S FOREST SERVICE	Licensed	5/16/1938
A009325	TJ HOLDINGS LP	Licensed	6/24/1938
A009392	ROBERT W ELFEN	Licensed	8/18/1938
A009410	THOMAS HEIER	Licensed	9/13/1938

TABLE B.1-12. FEATHER RIVER HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
A009514	U S PLUMAS NATL FOREST	Licensed	3/1/1939
A009515	A & G MONTNA PROPERTIES LP	Licensed	3/1/1939
A009602	RAFAEL REGALADO	Licensed	6/1/1939
A009603	RAFAEL REGALADO	Licensed	6/1/1939
A009616	MICHAEL E MOODY	Licensed	6/14/1939
A009690	SIERRA PACIFIC INDUSTRIES	Licensed	8/8/1939
A009734	U S PLUMAS NATL FOREST	Licensed	9/22/1939
A009735	M AND T INCORPORATED	Permitted	9/22/1939
A009736	PARROTT INVESTMENT COMPANY	Permitted	9/22/1939
A009770	U S PLUMAS NATL FOREST	Licensed	11/21/1939
A009800	PACIFIC GAS AND ELECTRIC COMPANY	Licensed	1/9/1940
A009807	WARREN T RILEY	Licensed	1/20/1940
A009886	LOREN PERKINS	Licensed	4/29/1940
A009968	DAWN INSTITUTE OF SCIENCE & ART	Permitted	8/7/1940
A009972	DAVID C NORTON	Licensed	8/9/1940
A010011	CITY OF PORTOLA	Licensed	9/23/1940
A010025	ASSOCIATION OF THOMPSON LAKE	Licensed	10/2/1940
A010030	TULE BASIN FARMS, LLC	Licensed	10/8/1940
A010349	BRYAN P PITCAVAGE	Licensed	12/31/1941
A010529	SUTTER EXTENSION WATER DISTRICT	Licensed	8/22/1942
A010598	JOAN JOAQUIN WOOD	Licensed	1/30/1943
A010619	JON BARRY LEMENAGER	Licensed	3/24/1943
A010726	U S PLUMAS NATL FOREST	Licensed	11/5/1943
A010739	BRIDGE RANCH WATER COMPANY LLC	Licensed	12/21/1943
A010769	Helen M Davis, Inc.	Licensed	2/16/1944
A010787	Franklin Grove Ranch Inc.	Licensed	3/20/1944
A010788	FRANKLIN ROAD RANCH	Licensed	3/20/1944
A010878	LAWRENCE E WOLFE	Licensed	9/11/1944
A010905	Helen M Davis, Inc.	Licensed	10/26/1944
A010917	U S PLUMAS NATL FOREST	Licensed	11/21/1944
A010963	GENE H FISHER	Licensed	1/26/1945
A010973	GORDON A RAUB EXEMPTION TRUST	Licensed	2/8/1945

TABLE B.1-12. FEATHER RIVER HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
A010974	GORDON A RAUB EXEMPTION TRUST	Licensed	2/8/1945
A010983	DOREEN L BIHLMAN	Licensed	2/15/1945
A011025	CREPS FARM LLC	Licensed	4/6/1945
A011058	A & G MONTNA PROPERTIES LP	Licensed	5/25/1945
A011146	U S PLUMAS NATL FOREST	Licensed	9/6/1945
A011192	PACIFIC GAS AND ELECTRIC COMPANY	Licensed	10/25/1945
A011201	MICHAEL D GRANT	Licensed	11/1/1945
A011205	THOMAS E NOLTE	Licensed	11/7/1945
A011243	USA-USDA FOREST SERVICE	Licensed	12/26/1945
A011271	ELLIOT P SMART	Licensed	1/31/1946
A011276	MCCLATCHY PARTNERS LLC	Licensed	2/5/1946
A011316	WAYNE RANKIN	Licensed	3/14/1946
A011319	SUTTER EXTENSION WATER DISTRICT	Licensed	3/15/1946
A011349	U S FISH & WILDLIFE SERVICE	Licensed	3/26/1946
A011354	MARK EVANS	Licensed	3/28/1946
A011357	KEWAL SINGH	Licensed	4/2/1946
A011397	PAUL A SEITZ	Licensed	5/14/1946
A011477	BUCKS LAKE SUMMER WATER ASSOCIATION	Licensed	7/22/1946
A011585	R C K RANCH LLC	Licensed	10/9/1946
A011632	U S FISH & WILDLIFE SERVICE	Licensed	11/21/1946
A011713	GENESEE VALLEY RANCH LLC	Licensed	2/3/1947
A011753	LAKE MADRONE WATER DISTRICT	Licensed	3/4/1947
A011843	WARREN T RILEY	Licensed	4/24/1947
A011907	U S PLUMAS NATL FOREST	Licensed	5/27/1947
A011916	JENNIFER LYNNE BENDER-BITTNER REVOC TRUST DATED 8/6/98	Licensed	6/5/1947
A011976	ROBERT B COLLETTE	Licensed	7/7/1947
A012038	U S PLUMAS NATL FOREST	Licensed	8/13/1947
A012117	RICHARD BURRELL	Licensed	10/2/1947
A012122	JEANNETTE S SASSER	Licensed	10/8/1947
A012230A	SUTTER EXTENSION WATER DISTRICT	Licensed	1/6/1948
A012230B	ESTATE OF HOWARD MAYFIELD	Licensed	1/6/1948

TABLE B.1-12. FEATHER RIVER HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
A012270	REG SINGH FARMS	Licensed	1/28/1948
A012279	SCOTT CRUZ	Licensed	1/30/1948
A012282	REASON FARMS	Licensed	1/30/1948
A012338	RAMSARAN DHANOTA	Licensed	2/18/1948
A012344	William and Toni Le Baron Family Trust	Licensed	2/20/1948
A012394	BIG MEADOWS INC	Licensed	3/9/1948
A012408	ANDREW E ROBERTSON	Licensed	3/16/1948
A012535	U S PLUMAS NATL FOREST	Licensed	6/4/1948
A012548	CAMP TIMBERWOLF IMPROVEMENT COMMITTEE INC	Licensed	6/16/1948
A012844	U S PLUMAS NATL FOREST	Licensed	12/3/1948
A012900	Collin Harris	Licensed	1/17/1949
A012904B	Jan Roberts-Haydon	Licensed	1/20/1949
A012926	Smith & Smith Farms LLC	Licensed	2/7/1949
A013013	SILLER REVOCABLE FAMILY TRUST	Licensed	4/1/1949
A013064	WILLIAM A GRUENTHAL	Licensed	4/29/1949
A013065	WILLIAM A GRUENTHAL	Licensed	4/29/1949
A013096	VIBERT R POPE TRUST	Licensed	5/17/1949
A013139	NEVADA SMITH	Licensed	6/8/1949
A013203	Jan Roberts-Haydon	Licensed	7/1/1949
A013303	DEEP VIOLET FARMS, INC	Licensed	8/17/1949
A013311	NORTH BYPASS RANCH	Licensed	8/23/1949
A013349	SUTTER EXTENSION WATER DISTRICT	Licensed	9/12/1949
A013398	AMY POWELL-REILLY	Licensed	10/13/1949
A013530	THOMAS HEIER	Licensed	1/6/1950
A013549B	Jan Roberts-Haydon	Licensed	1/27/1950
A013566	MICHAEL J FAHEY	Licensed	2/6/1950
A013605	JAMES E TARKE	Licensed	2/27/1950
A013625	U S PLUMAS NATL FOREST	Licensed	3/10/1950
A013676	South Feather Water and Power Agency and North Yuba Water District	Licensed	4/7/1950
A013710	CREPS FARM LLC	Licensed	4/28/1950
A013765	PACIFIC GAS AND ELECTRIC COMPANY	Licensed	5/31/1950

TABLE B.1-12. FEATHER RIVER HRL WATER RIGHTS			
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A013769	PACIFIC GAS AND ELECTRIC COMPANY	Licensed	6/1/1950
A013846	PACIFIC GAS AND ELECTRIC COMPANY	Licensed	7/15/1950
A013920	STAAS FARMS INC	Licensed	8/25/1950
A013956	South Feather Water and Power Agency and North Yuba Water District	Licensed	1/23/1980
A013957	North Yuba Water District	Permitted	9/20/1950
A013959	PRAIRIE CREEK RANCH 1	Licensed	9/21/1950
A013993	BELL FARMS	Licensed	10/13/1950
A014016	DAVID C NORTON	Licensed	10/25/1950
A014112	South Feather Water and Power Agency and North Yuba Water District	Licensed	1/23/1980
A014113	North Yuba Water District	Permitted	12/28/1950
A014130	SLOULIN FAMILY TRUST DATED NOVEMBER 5 1997	Licensed	1/17/1951
A014218	SIERRA PACIFIC INDUSTRIES	Licensed	3/29/1951
A014219	SIERRA PACIFIC INDUSTRIES	Licensed	3/29/1951
A014228	U S FOREST SERVICE	Licensed	4/4/1951
A014270	DOUGLAS DEURLOO	Licensed	4/24/1951
A014281	U S FOREST SERVICE	Licensed	5/2/1951
A014282	U S FOREST SERVICE	Licensed	5/2/1951
A014283	U S FOREST SERVICE	Licensed	5/2/1951
A014284	U S FOREST SERVICE	Licensed	5/2/1951
A014285	U S FOREST SERVICE	Licensed	5/2/1951
A014286	U S FOREST SERVICE	Licensed	5/2/1951
A014287	U S FOREST SERVICE	Licensed	5/2/1951
A014312	MILLENNIUM FARMS LLC	Licensed	5/16/1951
A014390A	TIM GRAY	Licensed	7/13/1951
A014415	GARDEN HIGHWAY MUTUAL WATER COMPANY	Licensed	8/3/1951
A014428A	JOSE ANTONIO SANCHEZ	Licensed	8/15/1951
A014428B	SANDS REV '00 TR	Licensed	8/15/1951
A014428C	NORTH BYPASS RANCH	Licensed	8/15/1951
A014443	CALIF DEPT OF WATER RESOURCES	Permitted	8/24/1951

TABLE B.1-12. FEATHER RIVER HRL WATER RIGHTS			
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A014444	CALIF DEPT OF WATER RESOURCES	Permitted	8/24/1951
A014588	SUTTER EXTENSION WATER DISTRICT	Licensed	11/26/1951
A014653	PACIFIC GAS AND ELECTRIC COMPANY	Licensed	1/22/1952
A014665	SUTTER EXTENSION WATER DISTRICT	Licensed	1/31/1952
A014683	TAMI KOHLER	Licensed	2/18/1952
A014685	JENNIFER LYNNE BENDER-BITTNER REVOC TRUST DATED 8/6/98	Licensed	2/19/1952
A014686	Smith & Smith Farms LLC	Licensed	2/21/1952
A014722	SURINDER BAINS	Licensed	3/20/1952
A014740	DAVID MEDINA	Licensed	4/4/1952
A014760	RUSSELL C WESTOVER JR	Licensed	4/17/1952
A014761	U S PLUMAS NATL FOREST	Licensed	4/17/1952
A014800	GREG SOHNREY	Licensed	5/9/1952
A014803	FEATHER WATER DISTRICT	Permitted	5/12/1952
A014807	JEFF OLSEN	Licensed	5/15/1952
A014808	SCOTT CETOVICK	Licensed	5/15/1952
A014810	TIME EADE	Licensed	5/15/1952
A014815	U S PLUMAS NATL FOREST	Licensed	5/20/1952
A014849	MARIAM L GRUENTHAL	Licensed	6/10/1952
A014864	CAMP TIMBERWOLF IMPROVEMENT COMMITTEE INC	Licensed	6/18/1952
A014867	RAJINDER CHOHAN	Licensed	6/19/1952
A015071	JOHN J GILLAM	Licensed	11/3/1952
A015095	Gilsizer Slough, LLC	Licensed	11/25/1952
A015111	BOB CARTER	Licensed	12/10/1952
A015125	GEORGE R CHAFFIN	Licensed	12/17/1952
A015177	SUTTER EXTENSION WATER DISTRICT	Licensed	1/29/1953
A015178	SUTTER EXTENSION WATER DISTRICT	Licensed	1/29/1953
A015179	SUTTER EXTENSION WATER DISTRICT	Licensed	1/29/1953
A015291	MARNI A MICHELI	Licensed	4/14/1953
A015363	69 Ranch	Licensed	6/1/1953

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A015372	THREE RIVERS LEVEE IMPROVEMENT AUTHORITY	Licensed	6/10/1953
A015411	INDERJIT SANDHU	Licensed	7/14/1953
A015518	AMERJIT S BHATTI	Licensed	9/1/1953
A015542	PAUL F BUKENHOFER	Licensed	9/17/1953
A015567	DANNY WILSON	Licensed	10/5/1953
A015570	JASON MC INTYRE	Licensed	10/7/1953
A015571	JASON MC INTYRE	Licensed	10/7/1953
A015587	SUTTER EXTENSION WATER DISTRICT	Licensed	10/27/1953
A015649	E. A. CLEMENTS REVOCABLE TRUST	Licensed	12/14/1953
A015676	U S PLUMAS NATL FOREST	Licensed	1/8/1954
A015684	RASMUSSEN FAMILY TRUST	Licensed	1/14/1954
A015746	DAVID DALEY	Licensed	2/24/1954
A015748	PACIFIC GAS AND ELECTRIC COMPANY	Licensed	2/25/1954
A015763	MATTEOLI BROTHERS	Licensed	3/8/1954
A015802	TARKE BROS ESTATE LLC	Licensed	3/26/1954
A015866	M AND T INCORPORATED	Licensed	5/10/1954
A015867	PARROTT INVESTMENT COMPANY	Licensed	5/10/1954
A015893	GARDEN HIGHWAY MUTUAL WATER COMPANY	Licensed	6/4/1954
A015981	Juan De La Torre SR	Licensed	8/5/1954
A015996	KULBIR ZENDA	Licensed	8/13/1954
A016028	NEVADA SMITH	Licensed	9/2/1954
A016064	BLUE PARADISE FARMS INC	Licensed	9/27/1954
A016065	BLUE PARADISE FARMS INC	Licensed	9/27/1954
A016132	DUSTIN D FLEMING TRUST	Licensed	11/10/1954
A016151	FAR VIEW ENTERPRISES INC	Licensed	11/23/1954
A016154	PACIFIC GAS AND ELECTRIC COMPANY	Licensed	11/29/1954
A016191	WILLIAM CHILDS ET AL	Licensed	12/30/1954
A016200	U S PLUMAS NATL FOREST	Licensed	1/12/1955
A016287	Melbay Farms	Licensed	3/18/1955
A016320	DAVID E NALL	Licensed	4/19/1955
A016380	CALIF DEPT OF TRANSPORTATION	Licensed	5/17/1955

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A016401	TUDOR MUTUAL WATER COMPANY	Licensed	5/31/1955
A016436	LONG VALLEY RANCH ENTERPRISES, LLC	Licensed	6/23/1955
A016520	SIERRA BIBLE CAMP INC	Licensed	8/12/1955
A016529B	LINDA PHILLIPS	Licensed	8/17/1955
A016530	LOREN V PERKINS LIVING TRUST	Licensed	8/17/1955
A016539	L DAVID RAI	Licensed	8/22/1955
A016583	Derek C Anderson	Licensed	9/6/1955
A016910	ROBERT W STEIN	Licensed	2/28/1956
A016950	CALIF DEPT OF WATER RESOURCES	Permitted	3/20/1956
A016951	CALIF DEPT OF WATER RESOURCES	Licensed	3/20/1956
A016952	CALIF DEPT OF WATER RESOURCES	Licensed	3/20/1956
A017069	CITY OF PORTOLA	Licensed	5/3/1956
A017074	U S PLUMAS NATL FOREST	Licensed	5/4/1956
A017160	JAMES F RUTHERFORD	Licensed	7/2/1956
A017171	Knight Revocable Living Trust, dated November 2, 1992	Licensed	7/11/1956
A017195	DAWN JONES TRUST	Licensed	7/20/1956
A017231	JEFFERY L WILSON	Licensed	8/10/1956
A017459	ROBERT STAUDENRAUS	Licensed	2/6/1957
A017471	DAVID HYDE	Licensed	2/20/1957
A017534	BILL D CRABTREE	Licensed	4/1/1957
A017739	DAVID ROBERT OSTLER	Licensed	7/24/1957
A017832	U S PLUMAS NATL FOREST	Licensed	9/23/1957
A017870	SHIRLEY ISHAM	Licensed	11/1/1957
A017963	DUSTIN F DOYLE	Licensed	1/28/1958
A017992	69 Ranch	Licensed	2/10/1958
A018005	CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE	Licensed	2/18/1958
A018025	CITY OF YUBA CITY	Licensed	3/5/1958
A018185	U S PLUMAS NATL FOREST	Licensed	7/17/1958
A018284	REASON FARMS	Licensed	8/25/1958
A018413	U S PLUMAS NATL FOREST	Licensed	11/14/1958
A018488	Gilsizer Slough, LLC	Licensed	1/26/1959

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A018780B	DARRELL LONG	Licensed	6/9/1959
A018780C	MARTIN VAN LEUVEN	Licensed	6/9/1959
A018790	PARADISE RECREATION & PARK DISTRICT	Licensed	6/15/1959
A018844	CALIF DEPT OF WATER RESOURCES	Licensed	7/6/1959
A018968	GENE ALEXANDER	Licensed	9/4/1959
A019083	A & G MONTNA PROPERTIES LP	Licensed	11/16/1959
A019090	MICHAEL MONAHAN	Licensed	11/20/1959
A019121	DARLA COMBS	Licensed	12/4/1959
A019233	PAUL CUETO	Licensed	2/15/1960
A019239	U S PLUMAS NATL FOREST	Licensed	2/16/1960
A019416	U S LASSEN NATL FOREST	Licensed	5/5/1960
A019417	U S LASSEN NATL FOREST	Licensed	5/5/1960
A019418	U S LASSEN NATL FOREST	Licensed	5/5/1960
A019419	U S LASSEN NATL FOREST	Licensed	5/5/1960
A019511	Dorothy A Bugni Survivors Trust	Licensed	6/30/1960
A019565	U S PLUMAS NATL FOREST	Licensed	7/21/1960
A019586	U S PLUMAS NATL FOREST	Licensed	7/28/1960
A019587	U S PLUMAS NATL FOREST	Licensed	7/28/1960
A019588	U S PLUMAS NATL FOREST	Licensed	7/28/1960
A019589	U S PLUMAS NATL FOREST	Licensed	7/28/1960
A019590	U S PLUMAS NATL FOREST	Licensed	7/28/1960
A019591	U S PLUMAS NATL FOREST	Licensed	7/28/1960
A019592	U S PLUMAS NATL FOREST	Licensed	7/28/1960
A019593	U S PLUMAS NATL FOREST	Licensed	7/28/1960
A019594	U S PLUMAS NATL FOREST	Licensed	7/28/1960
A019596	U S PLUMAS NATL FOREST	Licensed	7/28/1960
A019597	U S PLUMAS NATL FOREST	Licensed	7/28/1960
A019598	U S PLUMAS NATL FOREST	Licensed	7/28/1960
A019599	U S PLUMAS NATL FOREST	Licensed	7/28/1960
A019600	U S PLUMAS NATL FOREST	Licensed	7/28/1960
A019601	U S PLUMAS NATL FOREST	Licensed	7/28/1960
A019602	U S PLUMAS NATL FOREST	Licensed	7/28/1960
A019603	U S PLUMAS NATL FOREST	Licensed	7/28/1960
A019604	U S PLUMAS NATL FOREST	Licensed	7/28/1960
A019605	U S PLUMAS NATL FOREST	Licensed	7/28/1960

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A019606	U S PLUMAS NATL FOREST	Licensed	7/28/1960
A019607	U S PLUMAS NATL FOREST	Licensed	7/28/1960
A019608	U S PLUMAS NATL FOREST	Licensed	7/28/1960
A019609	U S PLUMAS NATL FOREST	Licensed	7/28/1960
A019610	U S PLUMAS NATL FOREST	Licensed	7/28/1960
A019611	U S PLUMAS NATL FOREST	Licensed	7/28/1960
A019612	U S PLUMAS NATL FOREST	Licensed	7/28/1960
A019613	U S PLUMAS NATL FOREST	Licensed	7/28/1960
A019614	U S PLUMAS NATL FOREST	Licensed	7/28/1960
A019615	U S PLUMAS NATL FOREST	Licensed	7/28/1960
A019617	U S PLUMAS NATL FOREST	Licensed	7/28/1960
A019619	U S PLUMAS NATL FOREST	Licensed	7/28/1960
A019620	U S PLUMAS NATL FOREST	Licensed	7/28/1960
A019621	U S PLUMAS NATL FOREST	Licensed	7/28/1960
A019622	U S PLUMAS NATL FOREST	Licensed	7/28/1960
A019623	U S PLUMAS NATL FOREST	Licensed	7/28/1960
A019624	U S PLUMAS NATL FOREST	Licensed	7/28/1960
A019625	U S PLUMAS NATL FOREST	Licensed	7/28/1960
A019626	U S PLUMAS NATL FOREST	Licensed	7/28/1960
A019627	U S PLUMAS NATL FOREST	Licensed	7/28/1960
A019628	U S PLUMAS NATL FOREST	Licensed	7/28/1960
A019653	RON CARPENTER	Licensed	8/9/1960
A019728	STAAS FARMS INC	Licensed	9/7/1960
A019730	CASIMIR JATCZAK	Licensed	9/7/1960
A019749A	NALL REV I-V 03 TRUST	Licensed	9/23/1960
A019749B	JAMES E TARKE	Licensed	9/23/1960
A019749C	MOREHEAD LAND LLC	Licensed	9/23/1960
A019750	RICHARD GREIN	Licensed	9/23/1960
A019881	CATHERINE M JENSEN	Licensed	12/19/1960
A020091	JOE MARQUERING	Licensed	4/18/1961
A020117	CALIF DEPT OF WATER RESOURCES	Licensed	5/9/1961
A020300	LYNDIA P CAMPBELL- WADE	Licensed	7/14/1961
A020301	GREENELAND COMPANY	Licensed	7/14/1961
A020399	JOE MARQUERING	Licensed	9/18/1961
A020429	U S LASSEN NATL FOREST	Licensed	10/6/1961
A020468	JOHN P SCHMIDT	Licensed	11/6/1961

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A020529	VERDA F LEE FAMILY DATED 4/11/2001	Licensed	12/18/1961
A020697	LUCKY SHOT, LLC	Licensed	4/4/1962
A020852	U S PLUMAS NATL FOREST	Licensed	7/12/1962
A020911	RONALD DREISBACH	Licensed	8/27/1962
A021083	U S LASSEN NATL FOREST	Licensed	12/14/1962
A021206	CREPS FARM LLC	Licensed	3/26/1963
A021216	GRIZZLY LAKE COMMUNITY SERVICES DISTRICT	Licensed	4/1/1963
A021295	U S PLUMAS NATL FOREST	Licensed	5/29/1963
A021296	U S PLUMAS NATL FOREST	Licensed	5/29/1963
A021297	U S PLUMAS NATL FOREST	Licensed	5/29/1963
A021304	U S PLUMAS NATL FOREST	Licensed	5/29/1963
A021305	U S PLUMAS NATL FOREST	Licensed	5/29/1963
A021306	U S PLUMAS NATL FOREST	Licensed	5/29/1963
A021307	U S PLUMAS NATL FOREST	Licensed	5/29/1963
A021308	U S PLUMAS NATL FOREST	Licensed	5/29/1963
A021312	U S PLUMAS NATL FOREST	Licensed	5/29/1963
A021313	U S PLUMAS NATL FOREST	Licensed	5/29/1963
A021314	U S PLUMAS NATL FOREST	Licensed	5/29/1963
A021316	U S PLUMAS NATL FOREST	Licensed	5/29/1963
A021317	U S PLUMAS NATL FOREST	Licensed	5/29/1963
A021440	SIERRA PACIFIC INDUSTRIES	Licensed	8/22/1963
A021443	CALIF DEPT OF WATER RESOURCES	Permitted	8/23/1963
A021842	BUCKS LAKE SUMMER WATER ASSOCIATION	Licensed	7/9/1964
A022039	RANCHO ESQUON INC	Licensed	2/5/1965
A022061	PARADISE IRRIGATION DISTRICT	Permitted	6/17/1970
A022071	BIDHI SINGH GILL	Licensed	3/12/1965
A022187	U S PLUMAS NATL FOREST	Licensed	6/10/1965
A022321	GORRILL LAND COMPANY	Licensed	10/25/1965
A022485	MARK S MC CULLAH	Licensed	6/6/1966
A022534	Stephen Meline IV	Licensed	7/27/1966
A022564	GREGORY MARTIN	Licensed	8/29/1966
A022630	ROBERT P STAUDENRAUS	Licensed	11/4/1966
A022710	SCOTT P STASS	Licensed	2/23/1967

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A022855	SEAN CUNNINGHAM	Licensed	7/18/1967
A022864	State Land Conservancy LLC	Licensed	7/28/1967
A022969	STOHLMAN-BOHANNAN TRUST	Licensed	1/12/1968
A023045	GARDEN HIGHWAY MUTUAL WATER COMPANY	Licensed	5/15/1968
A023084	JANET BALBUTIN HARRIS	Licensed	7/15/1968
A023225	U S FOREST SERVICE	Licensed	1/30/1969
A023226	U S FOREST SERVICE	Licensed	1/30/1969
A023260A	MARK L SCOTT	Licensed	4/14/1969
A023260C	MICHAEL P DECKER	Licensed	4/14/1969
A023298	LUCIAN B VANDEGRIFT TRUST	Licensed	6/17/1969
A023343	HONCUT CREEK RANCH	Licensed	9/11/1969
A023344	PACIFIC FARMS	Licensed	9/11/1969
A023345	LJ Farms	Licensed	9/11/1969
A023364	JAMES D BAKER	Permitted	10/7/1969
A023520	Butte - Glenn Community College District	Licensed	5/28/1970
A023564	LOUIS A PAYEN	Licensed	7/22/1970
A023673	JOSEPH A MOREHEAD	Permitted	1/15/1971
A023828	LARRY C SMITH	Licensed	7/28/1971
A023875	ROBERT GRISAK	Licensed	9/24/1971
A023876	CALIFORNIA PARK ASSOCIATION	Licensed	9/27/1971
A023924	LDS Recreation Properties LLC	Licensed	11/18/1971
A024048	Kathy L. McDonell	Licensed	4/18/1972
A024067	Roy M Clark	Licensed	5/12/1972
A024263	U S PLUMAS NATL FOREST	Licensed	12/19/1972
A024421	IDOYA AUBEN	Licensed	7/26/1973
A024439	Dorothy A Bugni Survivors Trust	Licensed	8/14/1973
A024440	Dorothy A Bugni Survivors Trust	Licensed	8/14/1973
A024637	FRANKLIN ROAD RANCH	Licensed	7/5/1974
A024638	FRANKLIN ROAD RANCH	Licensed	7/5/1974
A024639	FRANKLIN ROAD RANCH	Licensed	7/5/1974
A024730	DAVID WAITE	Licensed	12/20/1974
A024815	MIGUEL AUBAN	Licensed	5/28/1975
A024825	BLUE OAK TERRACE OWNERS ASSN	Licensed	6/25/1975

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A025030	GRAEAGLE LAND & WATER COMPANY	Licensed	3/26/1976
A025089	Kathy L. McDonell	Licensed	6/30/1976
A025114	NORTH BYPASS RANCH	Licensed	7/27/1976
A025194	Floyd V Burton	Permitted	11/5/1976
A025220	LOWER HONCUT FARMS	Permitted	12/24/1976
A025403	JESSIE C TROST	Licensed	6/23/1977
A025500	KAMI MCBRIDE	Licensed	9/2/1977
A025503	JOE W ALEXANDER	Licensed	9/12/1977
A025554	MICHAEL D SMITH	Licensed	11/7/1977
A025690	CINDY L ROSSER	Permitted	3/7/1978
A025717	GORRILL LAND COMPANY	Licensed	4/12/1978
A025751	CITY OF YUBA CITY	Permitted	5/31/1978
A025883	Gilsizer Slough, LLC	Licensed	12/6/1978
A025963	KHERA FARMS	Licensed	4/3/1979
A025967	PACIFIC GAS AND ELECTRIC COMPANY	Permitted	4/9/1979
A026039	ANDREW HANAWALT	Licensed	7/3/1979
A026066	PETER BROWN	Licensed	8/15/1979
A026076	LANCE DREISS	Licensed	8/28/1979
A026098	GARDEN HIGHWAY MUTUAL WATER COMPANY	Permitted	9/25/1979
A026282	JEREMY PLOUNT	Licensed	4/9/1980
A026515A	JOE W ALEXANDER	Licensed	2/5/1992
A026515B	JOE W ALEXANDER	Licensed	2/5/1992
A026571	Donald A Wallace	Licensed	10/7/1980
A026594	CAROL CHAFFIN ALBRECHT	Licensed	10/28/1980
A026595	The Greg and Casey Sohnrey Trust	Permitted	10/28/1980
A026651	PACIFIC GAS AND ELECTRIC COMPANY	Permitted	12/5/1980
A026780	PACIFIC GAS AND ELECTRIC COMPANY	Permitted	4/7/1981
A026781	PACIFIC GAS AND ELECTRIC COMPANY	Permitted	4/7/1981
A026809	RONALD GUILD	Licensed	4/29/1981
A026877	U S PLUMAS NATL FOREST	Permitted	6/17/1981
A026904	OKIZU FOUNDATION	Permitted	7/3/1981
A026942	FIVE BEARS HYDRO LLC	Permitted	8/6/1981

TABLE B.1-12. FEATHER RIVER HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
A027222	LASSEN STATION HYDROELECTRIC LP	Licensed	2/26/1982
A027283	DARYL MUZIO	Licensed	4/7/1982
A027284	U S FOREST SERVICE	Permitted	4/7/1982
A027349	FIVE BEARS HYDRO LLC	Permitted	6/3/1982
A027508	ROBIN MANZO	Licensed	9/10/1982
A027570	PACIFIC GAS AND ELECTRIC COMPANY	Licensed	11/2/1982
A027688	ROBERT D ROSS	Licensed	3/11/1983
A027754	JOHN MOKE	Licensed	5/12/1983
A027815	ENERGY GROWTH GROUP	Permitted	7/28/1983
A027848	LUCKY SHOT, LLC	Permitted	8/22/1983
A027909	LUCKY SHOT, LLC	Licensed	11/1/1983
A028103	STEVEN RAMOS	Licensed	4/5/1984
A028202	Summer Rejmankova	Licensed	8/1/1984
A028663	DORIS C GRAFF TRUST	Licensed	12/18/1985
A028992	WALLACE FAMILY TRUST	Permitted	3/20/1987
A029060	Squirrel Creek, LLC	Permitted	7/7/1987
A029127	COZETTE E GRAHAM	Permitted	10/19/1987
A029251	DORIS C GRAFF TRUST	Licensed	5/25/1988
A029264	CAROLYN R CUMMINGS REV LIV TST	Licensed	6/9/1988
A029432	ASSOCIATION OF THOMPSON LAKE	Licensed	3/8/1989
A029501	ERIK ROEN	Permitted	6/12/1989
A029537	SALLY EASLEY	Licensed	8/10/1989
A029544	MASSACK WATER USERS ASSOCIATION	Permitted	8/18/1989
A029580	GARY DETWILER	Permitted	10/2/1989
A029619	GARY DETWILER	Permitted	11/24/1989
A029797	PACIFIC GAS AND ELECTRIC COMPANY	Licensed	8/17/1990
A030082	LINDA COLE	Licensed	3/24/1992
A030257	PACIFIC GAS AND ELECTRIC COMPANY	Permitted	5/20/1993
A030258	PACIFIC GAS AND ELECTRIC COMPANY	Permitted	5/20/1993
A030415	PACIFIC GAS AND ELECTRIC COMPANY	Permitted	11/1/1994

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A030596	LADONNA L MARTINETTI	Licensed	3/4/1997
A030657	LAKE MADRONE WATER DISTRICT	Permitted	10/7/1997
A030852	Butte - Glenn Community College District	Permitted	3/31/1999
A031176	A & G MONTNA PROPERTIES LP	Permitted	4/20/2001
A031379	OKIZU FOUNDATION	Permitted	11/12/2002
A031413	HYPOWER, INC	Permitted	4/15/2003
A031433	MRLLC INVESTORS LP	Permitted	6/20/2003
A031499	PACIFIC GAS AND ELECTRIC COMPANY	Permitted	4/5/2004
A031518	PACIFIC GAS AND ELECTRIC COMPANY	Permitted	6/16/2004
A031572	LEAL FAMILY TRUST	Permitted	5/25/2005
A031615	LASSEN STATION HYDROELECTRIC	Permitted	5/4/2006
F000074S	U S PLUMAS NATL FOREST	Federal Claims	12/9/1966
F000075S	U S PLUMAS NATL FOREST	Federal Claims	1/1/1966
F000076S	U S PLUMAS NATL FOREST	Federal Claims	1/1/1966
F000155S	U S PLUMAS NATL FOREST	Federal Claims	1/20/1967
F000174S	U S PLUMAS NATL FOREST	Federal Claims	1/20/1967
F000177S	U S PLUMAS NATL FOREST	Federal Claims	1/20/1967
F000179S	U S PLUMAS NATL FOREST	Federal Claims	1/1/1910
F000180S	U S PLUMAS NATL FOREST	Federal Claims	1/20/1967
F000181S	U S PLUMAS NATL FOREST	Federal Claims	1/20/1967
F000188S	U S PLUMAS NATL FOREST	Federal Claims	1/20/1967
F000197S	U S PLUMAS NATL FOREST	Federal Claims	1/20/1967
F000198S	U S PLUMAS NATL FOREST	Federal Claims	1/20/1967
F000200S	U S PLUMAS NATL FOREST	Federal Claims	1/20/1967
F000202S	U S PLUMAS NATL FOREST	Federal Claims	1/20/1967
F000203S	U S PLUMAS NATL FOREST	Federal Claims	1/20/1967
F007014S	U S PLUMAS NATL FOREST	Federal Claims	1/1/1971
F007016S	U S PLUMAS NATL FOREST	Federal Claims	1/1/1971
F007017S	U S PLUMAS NATL FOREST	Federal Claims	1/1/1971
F007018S	U S PLUMAS NATL FOREST	Federal Claims	1/1/1971
F007041S	U S PLUMAS NATL FOREST	Federal Claims	1/1/1971
F007044S	U S PLUMAS NATL FOREST	Federal Claims	1/1/1971
F007045S	U S PLUMAS NATL FOREST	Federal Claims	1/1/1971

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F007064S	U S PLUMAS NATL FOREST	Federal Claim	1/1/1971
F007065S	U S PLUMAS NATL FOREST	Federal Claims	1/1/1971
F007072S	U S PLUMAS NATL FOREST	Federal Claim	1/1/1971
F007078S	U S PLUMAS NATL FOREST	Federal Claims	1/1/1971
F007079S	U S PLUMAS NATL FOREST	Federal Claims	1/1/1971
F007080S	U S PLUMAS NATL FOREST	Federal Claims	1/1/1971
F007081S	U S PLUMAS NATL FOREST	Federal Claims	1/1/1971
F007084S	U S PLUMAS NATL FOREST	Federal Claims	1/1/1971
F007087S	U S PLUMAS NATL FOREST	Federal Claims	1/1/1971
F007088S	U S PLUMAS NATL FOREST	Federal Claims	1/1/1971
F007091S	U S PLUMAS NATL FOREST	Federal Claims	1/1/1971
F007093S	U S PLUMAS NATL FOREST	Federal Claims	1/1/1971
F007095S	U S PLUMAS NATL FOREST	Federal Claims	1/1/1971
F007098S	U S PLUMAS NATL FOREST	Federal Claims	1/1/1971
F007099S	U S PLUMAS NATL FOREST	Federal Claims	1/1/1971
F007101S	U S PLUMAS NATL FOREST	Federal Claims	1/1/1971
F007102S	U S PLUMAS NATL FOREST	Federal Claims	1/1/1971
F007103S	U S PLUMAS NATL FOREST	Federal Claims	1/1/1971
F007112S	U S PLUMAS NATL FOREST	Federal Claims	1/1/1971
F007114S	U S PLUMAS NATL FOREST	Federal Claims	1/1/1971
F007115S	U S PLUMAS NATL FOREST	Federal Claims	1/1/1971
F007116S	U S PLUMAS NATL FOREST	Federal Claims	1/1/1971
F007117S	U S PLUMAS NATL FOREST	Federal Claims	1/1/1971
F007120S	U S PLUMAS NATL FOREST	Federal Claims	1/1/1971
F007999S	U S PLUMAS NATL FOREST	Federal Claims	1/1/1972
F008004S	U S PLUMAS NATL FOREST	Federal Claim	1/1/1971
F010802S	U S PLUMAS NATL FOREST	Federal Claims	1/29/1982
F010803S	U S PLUMAS NATL FOREST	Federal Claims	1/29/1982
F010805S	U S PLUMAS NATL FOREST	Federal Claims	1/29/1982
S000037	MARK A EVANS JR	Riparian	NA
S000048	GEORGE R CHAFFIN	Riparian	NA
S000049	GEORGE R CHAFFIN	Riparian	NA
S000051	GEORGE R CHAFFIN	Riparian	NA
S000157	U S PLUMAS NATL FOREST	Riparian	NA
S000176	U S PLUMAS NATL FOREST	Riparian	NA
S000204	U S PLUMAS NATL FOREST	Riparian	NA

TABLE B.1-12. FEATHER RIVER HRL WATER RIGHTS			
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S000262	REID LAND & CATTLE COMPANY	Riparian, Pre-1914 Appropriative	01/01/1857
S000263	REID LAND & CATTLE COMPANY	Riparian, Pre-1914 Appropriative	01/01/1857
S000264	REID LAND & CATTLE COMPANY	Pre-1914 Appropriative	01/01/1857
S000267	Phillip A Bresciani	Riparian, Pre-1914 Appropriative	01/01/1857
S000268	RICHARD D LEONHARDT	Pre-1914 Appropriative	01/01/1857
S000269	RICHARD D LEONHARDT	Pre-1914 Appropriative	01/01/1857
S000270	FEATHER RIVER COMMUNITY COLLEGE DISTRICT	Riparian, Pre-1914 Appropriative	01/01/1857
S000320	RONDA APPLEGARTH	Riparian	NA
S000364	CLARKE QUINCY PROPERTY JOINT VENTURE	Pre-1914 Appropriative	01/01/1854
S000378	RICHVALE IRRIGATION DISTRICT	Pre-1914 Appropriative	1/1/1914
S000379	RICHVALE IRRIGATION DISTRICT	Riparian	NA
S000413	ROBERT AND PINKIE FORBES FAMILY TRUST	Pre-1914 Appropriative	01/01/1853
S000480	JOINT WATER DISTRICTS BOARD	Pre-1914 Appropriative	1/1/1904
S000544	MICHAEL PATRICK GEISSINGER	Pre-1914 Appropriative	01/01/1876
S000545	MICHAEL PATRICK GEISSINGER	Pre-1914 Appropriative	01/01/1856
S000645	BIG LAND DEVELOPMENT CORP	Riparian, Pre-1914 Appropriative	01/01/1886
S000646	SILLER BROS, INC	Riparian, Pre-1914 Appropriative	01/01/1895
S000693	RICHARD AND REBECCA HERRING REINER FAMILY TRUST	Riparian, Pre-1914 Appropriative	01/01/1880
S000695	FEATHER RIVER MEADOWS LLC	Riparian, Pre-1914 Appropriative	01/01/1880
S000697	COLLINS PINE COMPANY	Pre-1914 Appropriative	1/1/1941
S000698	COLLINS PINE COMPANY	Riparian, Pre-1914 Appropriative	1/1/1943
S000827	STEVEN L CHRISTENSON	Riparian	NA
S000888	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	01/01/1877
S000889	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	01/01/1871

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S000890	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	01/01/1857
S000891	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	01/01/1872
S000892	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	01/01/1865
S000893	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	01/01/1857
S000897	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	01/01/1870
S000901	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	01/01/1870
S000911	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	01/01/1871
S000912	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	01/01/1871
S000913	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	01/01/1871
S000916	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	01/01/1865
S000917	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	01/01/1872
S000922	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	1/1/1902
S000923	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	1/1/1902
S000925	WESTERN CANAL WATER DISTRICT	Pre-1914 Appropriative	1/1/1902
S000926	PACIFIC GAS AND ELECTRIC COMPANY	Unclassified	1/1/1926
S000927	PACIFIC GAS AND ELECTRIC COMPANY	Riparian	NA
S000928	PACIFIC GAS AND ELECTRIC COMPANY	Riparian	NA
S000929	PACIFIC GAS AND ELECTRIC COMPANY	Riparian	NA
S000931	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	1/1/1902
S000932	PACIFIC GAS AND ELECTRIC COMPANY	Riparian, Pre-1914 Appropriative	1/1/1958
S000933	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	1/1/1913

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S001022	M C HORNING JR	Riparian, Pre-1914 Appropriative	01/01/1860
S001251	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	1/1/1904
S001252	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S001253	DIAMOND LANDS CORPORATION	Riparian, Pre-1914 Appropriative	1/1/1900
S001254	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S001255	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S001256	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S001257	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S001258	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S001259	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S001260	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S001261	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S001262	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S001263	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S001264	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S001265	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S001266	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S001267	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S001268	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S001269	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S001270	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S001271	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900

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S001272	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S001273	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S001274	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S001275	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S001276	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S001277	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S001278	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S001279	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S001280	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S001281	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S001282	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S001283	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S001284	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S001285	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S001286	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S001287	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S001289	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S001290	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S001291	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S001292	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S001293	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900

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S001294	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S001295	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S001297	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S001298	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S001299	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S001300	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S001301	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S001302	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S001303	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S001304	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S001305	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S001306	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S001497	DOROTHY L J FARNWORTH	Pre-1914 Appropriative	01/01/1897
S001506	DUSTIN BRASSFIELD	Pre-1914 Appropriative	01/01/1873
S001507	DUSTIN BRASSFIELD	Pre-1914 Appropriative	01/01/1873
S001884	LYNN H SILVA	Riparian, Pre-1914 Appropriative	1/1/1904
S001885	Phillip A Bresciani	Riparian, Pre-1914 Appropriative	01/01/1878
S001886	Phillip A Bresciani	Riparian, Pre-1914 Appropriative	01/01/1878
S001904	WILLIAM E METCALF JR	Riparian, Pre-1914 Appropriative	01/01/1872
S002099	Phillip A Bresciani	Riparian, Pre-1914 Appropriative	01/01/1872
S002100	Phillip A Bresciani	Riparian, Pre-1914 Appropriative	01/01/1877
S002101	Phillip A Bresciani	Riparian, Pre-1914 Appropriative	01/01/1873
S002102	Phillip A Bresciani	Riparian, Pre-1914 Appropriative	01/01/1877

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S002103	Phillip A Bresciani	Riparian, Pre-1914 Appropriative	01/01/1877
S002104	Phillip A Bresciani	Riparian, Pre-1914 Appropriative	01/01/1877
S002315	LONG VALLEY RANCH ENTERPRISES, LLC	Riparian, Pre-1914 Appropriative	1/1/1957
S002316	LONG VALLEY RANCH ENTERPRISES, LLC	Riparian, Pre-1914 Appropriative	01/01/1870
S002317	LONG VALLEY RANCH ENTERPRISES, LLC	Riparian, Pre-1914 Appropriative	01/01/1856
S002318	LONG VALLEY RANCH ENTERPRISES, LLC	Riparian, Pre-1914 Appropriative	01/01/1870
S002553	JACK L BROWN	Riparian	NA
S002868	Janet Crain	Riparian	NA
S002952	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S002953	RRF WESTWOOD LLC	Riparian, Pre-1914 Appropriative	1/1/1900
S002954	RRF WESTWOOD LLC	Riparian, Pre-1914 Appropriative	1/1/1900
S002957	COLLINS PINE COMPANY	Riparian, Pre-1914 Appropriative	1/1/1900
S002961	SIERRA PACIFIC HOLDING COMPANY	Statement of Div and Use (Riparian)	NA
S002962	COLLINS PINE COMPANY	Riparian, Pre-1914 Appropriative	1/1/1900
S002963	COLLINS PINE COMPANY	Riparian, Pre-1914 Appropriative	1/1/1900
S003092	BOB ELLERMEYER	Riparian	NA
S003100	KENNETH CASADAY	Riparian	NA
S003138	GARY F RODRIGUEZ	Riparian	NA
S003173	BEAN ESTATES, INC	Pre-1914 Appropriative	01/01/1859
S003174	BEAN ESTATES, INC	Pre-1914 Appropriative	01/01/1859
S004607	U S FOREST SERVICE	Riparian	NA
S004609	U S PLUMAS NATL FOREST	Riparian	NA
S004610	U S PLUMAS NATL FOREST	Riparian	NA
S004693	PRAIRIE CREEK RANCH 1	Riparian	NA
S004761	SIERRA PACIFIC INDUSTRIES	Pre-1914 Appropriative	01/01/1880
S004762	SIERRA PACIFIC INDUSTRIES	Pre-1914 Appropriative	1/1/1905
S004763	SIERRA PACIFIC INDUSTRIES	Pre-1914 Appropriative	01/01/1880

TABLE B.1-12. FEATHER RIVER HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
S004764	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1904
S004765	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1904
S005178	U S LASSEN NATL FOREST	Riparian	NA
S006285	MURPHY FAMILY TRUST B DATED 11-21-89	Riparian	NA
S007048	U S PLUMAS NATL FOREST	Riparian	NA
S008002	U S PLUMAS NATL FOREST	Riparian	NA
S008006	WOLFE-SCHAFER & COFFEE	Riparian	NA
S008016	D BRADFORD MACKENZIE	Riparian	NA
S008030	U S PLUMAS NATL FOREST	Riparian	NA
S008116	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	01/01/1881
S008273	ROBERT O HABEL	Riparian	NA
S008274	ROBERT O HABEL	Riparian	NA
S008304	CALIF DEPT OF FORESTRY & FIRE PROTECTION	Riparian	NA
S008459	PARADISE IRRIGATION DISTRICT	Riparian, Pre-1914 Appropriative	1/1/1916
S008547	QUINCY COMMUNITY SERVICES DISTRICT	Pre-1914 Appropriative	01/01/1870
S008549	AMERICAN VALLEY CSD	Riparian, Pre-1914 Appropriative	01/01/1870
S008550	AMERICAN VALLEY COMMUNITY SERVICES DISTRICT	Riparian, Pre-1914 Appropriative	01/01/1870
S008734	GRAEAGLE WATER COMPANY A CALIF CORP	Riparian	NA
S008871	NORTH BYPASS RANCH	Riparian	NA
S008897	U S FOREST SERVICE	Riparian	NA
S008938	LONG VALLEY RANCH ENTERPRISES, LLC	Riparian, Pre-1914 Appropriative	1/1/1932
S008971	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S008973	NORTH BYPASS RANCH	Riparian	NA
S009157	PAUL CALLAGHAN	Riparian, Pre-1914 Appropriative	1/1/1950
S009167	ERIC INGVOLDSEN	Riparian	NA
S009189	PLUMAS PINES GOLF RESORT	Pre-1914 Appropriative	01/01/1877
S009401	JOHN H BUSHER	Riparian	NA

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S009417	Center for Natural Lands Management	Riparian	NA
S009460	MICHAEL D SMITH	Riparian	NA
S009461	KEN GROSSMAN	Riparian	NA
S009514	CRONKHITE LIVING TRUST	Riparian	NA
S009520	Floyd V Burton	Riparian	NA
S009580	Stephen Meline IV	Riparian	NA
S009677	DAVID DALEY	Pre-1914 Appropriative	01/01/1870
S009897	PARROTT INVESTMENT COMPANY	Riparian, Pre-1914 Appropriative	1/1/1918
S009976	WESTERN CANAL WATER DISTRICT	Pre-1914 Appropriative	1/1/1916
S010000	WESTWOOD COMMUNITY SERVICES DISTRICT	Pre-1914 Appropriative	1/1/1924
S010248	RON KUENTZ	Riparian, Pre-1914 Appropriative	1/1/1930
S010249	RON KUENTZ	Riparian, Pre-1914 Appropriative	1/1/1930
S010260	GRIZZLY LAKE RESORT IMPROVEMENT DISTRICT	Riparian	NA
S010336	ALFARO FAMILY FARMS LLC	Riparian	NA
S010337	ALFARO FAMILY FARMS LLC	Riparian	NA
S010338	ALFARO FAMILY FARMS LLC	Riparian	NA
S010339	ALFARO FAMILY FARMS LLC	Riparian	NA
S010394	PACIFIC GAS AND ELECTRIC COMPANY	Riparian	NA
S010395	PACIFIC GAS AND ELECTRIC COMPANY	Riparian	NA
S010529	ROBERT F THOMASSON	Riparian, Pre-1914 Appropriative	01/01/1800
S010530	ROBERT F THOMASSON	Riparian, Pre-1914 Appropriative	01/01/1800
S010531	ROBERT F THOMASSON	Pre-1914 Appropriative	01/01/1800
S010532	ROBERT F THOMASSON	Pre-1914 Appropriative	01/01/1800
S010533	ROBERT F THOMASSON	Riparian, Pre-1914 Appropriative	01/01/1800
S010578	GLOBAL AG PROPERTIES USA, LLC	Riparian	NA
S010594	BERRY CREEK WATER USERS INCORPORATED	Pre-1914 Appropriative	01/01/1852

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S010735	IVAN COFFMAN	Riparian, Pre-1914 Appropriative	01/01/1861
S010991	Denise M Carey	Riparian	NA
S011477	PACIFIC GAS AND ELECTRIC COMPANY	Riparian	NA
S011478	PACIFIC GAS AND ELECTRIC COMPANY	Riparian	NA
S011483	RON C COOKE	Riparian	NA
S011484	RON C COOKE	Riparian	NA
S011543	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	01/01/1854
S012221	TYSON TURNER	Pre-1914 Appropriative	01/01/1857
S012234	DOUGLAS L MATTHIESSEN	Riparian, Pre-1914 Appropriative	01/01/1890
S012328	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S012330	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S012331	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S012333	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S012334	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S012335	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S012339	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S012341	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S012342	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S012343	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S012344	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S012345	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S012346	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S012347	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S012348	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S012349	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S012354	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S012355	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S012358	U S FOREST SERVICE	Riparian	NA
S012365	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S012366	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S012368	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S012369	SIERRA PACIFIC INDUSTRIES	Riparian	NA

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S012370	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S012371	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S012394	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S012436	DUSTIN BRASSFIELD	Pre-1914 Appropriative	01/01/1873
S012437	LAKE MADRONE WATER DISTRICT	Riparian, Pre-1914 Appropriative	1/1/1929
S012576	NICHOLAS STANLEY OMAN	Riparian	NA
S012608	WILLIAM SHELTON	Riparian, Pre-1914 Appropriative	1/1/1900
S012864	JOHNSVILLE PUBLIC UTILITY DISTRICT	Riparian, Pre-1914 Appropriative	01/01/1876
S013090	TIM ELSKEN	Riparian	NA
S013101	MARION J FORBES	Riparian	NA
S013112	CLAUDE J MONLUX	Riparian	NA
S013113	CLAUDE J MONLUX	Riparian	NA
S013120	ADRIEN FISCHER	Riparian	NA
S013121	CONNIE S HIGGINS	Riparian, Pre-1914 Appropriative	01/01/1880
S013126	JOHN F UHART	Riparian, Pre-1914 Appropriative	01/01/1898
S013128	STEVEN C WOOD	Riparian	NA
S013131	Tom Simon	Riparian, Pre-1914 Appropriative	1/1/1985
S013132	WILLIAM N GILLESPIE	Riparian	NA
S013148	ROSS POSCH	Pre-1914 Appropriative	01/01/1886
S013159	WILLIARD H WATTENBURG	Riparian	NA
S013188	MERVYN C HANSEN	Riparian	NA
S013213	FEATHER RIVER INN	Riparian, Pre-1914 Appropriative	1/1/1919
S013219	FEATHER RIVER INN	Riparian, Pre-1914 Appropriative	1/1/1919
S013351	WHITEHAWK RANCH MUTUAL WATER CO.	Pre-1914 Appropriative	01/01/1880
S013352	WHGC VENTURE LLC	Riparian	NA
S013353	WHITEHAWK RANCH MUTUAL WATER CO.	Riparian	NA
S013354	WHITEHAWK RANCH MUTUAL WATER CO.	Pre-1914 Appropriative	01/01/1880

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S013355	WHITEHAWK RANCH MUTUAL WATER CO.	Pre-1914 Appropriative	01/01/1880
S013356	WHITEHAWK RANCH MUTUAL WATER COMPANY	Pre-1914 Appropriative	01/01/1880
S013357	WHITEHAWK RANCH MUTUAL WATER COMPANY	Pre-1914 Appropriative	01/01/1880
S013390	A L HANSEN	Riparian, Pre-1914 Appropriative	01/01/1860
S013427	L.B. VANDEGRIFT TRUST	Pre-1914 Appropriative	01/01/1865
S013462	TOBY DOREN MECUM	Riparian, Pre-1914 Appropriative	01/01/1861
S013508	Kim King	Riparian	NA
S013554	GRAEAGLE LAND & WATER COMPANY	Riparian	NA
S013562	JOAN JOAQUIN WOOD	Riparian	NA
S013572	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013573	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013574	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013575	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013576	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013577	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013578	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013579	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013580	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013581	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013582	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013591	DIAMOND LANDS CORPORATION	Riparian, Pre-1914 Appropriative	1/1/1900
S013614	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900

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S013616	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013617	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013618	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013619	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013620	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013621	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013622	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013623	DIAMOND LANDS CORPORATION	Riparian, Pre-1914 Appropriative	1/1/1900
S013624	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013629	DIAMOND LANDS CORPORATION	Riparian, Pre-1914 Appropriative	1/1/1900
S013630	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013632	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013634	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013635	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013636	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013638	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013639	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013641	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013642	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013643	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013644	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900

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S013645	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013646	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013647	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013648	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013649	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013650	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013651	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013652	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013653	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013655	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013656	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013658	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013662	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013663	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013664	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013665	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013666	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013667	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013669	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013670	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013672	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900

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S013673	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013675	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013676	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013677	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013678	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013680	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013681	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013682	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013683	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013685	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013686	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013689	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013692	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S013782	DOUGLAS L MATTHIESSEN	Pre-1914 Appropriative	01/01/1899
S013783	William O Jamison	Riparian	NA
S013889	JAMES M BATTAGIN	Riparian	NA
S013913	SHELDON CRANDALL	Riparian	NA
S014098	Craig Baxter	Riparian, Pre-1914 Appropriative	01/01/1873
S014128	ANTHONY AND AUDREY OLIVA FAMILY TRUST	Riparian	NA
S014154	Thelma R Drybread	Riparian, Pre-1914 Appropriative	1/1/1906
S014155	Thelma R Drybread	Riparian, Pre-1914 Appropriative	1/1/1906
S014175	POWELL RANCH	Riparian, Pre-1914 Appropriative	01/01/1866
S014181	LANE LABBE	Riparian, Pre-1914 Appropriative	1/1/1900

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S014324	BANOS FARMS INC	Riparian	NA
S014471	CITY OF PORTOLA	Riparian, Pre-1914 Appropriative	1/1/1910
S014472	CITY OF PORTOLA	Riparian, Pre-1914 Appropriative	1/1/1910
S014473	CITY OF PORTOLA	Riparian, Pre-1914 Appropriative	1/1/1910
S014560	TODD SWICKARD	Riparian, Pre-1914 Appropriative	1/1/1900
S014561	TODD SWICKARD	Riparian, Pre-1914 Appropriative	1/1/1900
S014939	RIVER RANCH L P	Riparian	NA
S014988	MICHAEL F FARREN	Riparian	NA
S015027	PLUMAS COUNTY	Pre-1914 Appropriative	1/1/1911
S015031	ODYSSEUS FARMS	Riparian	NA
S015032	ODYSSEUS FARMS	Riparian	NA
S015033	EDMUND TRUJILLO	Riparian, Pre-1914 Appropriative	1/1/1955
S015046	BRYAN GOULD	Riparian	NA
S015055	SCHOMAC GROUP INC, DBA FEATHER RIVER INN	Riparian, Pre-1914 Appropriative	1/1/1914
S015240	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/1900
S015263	WILLIAM MICHELSON	Riparian, Pre-1914 Appropriative	1/1/1900
S015266	CITY OF LOYALTON	Unclassified	01/01/1895
S015330	MARK D VUKICH	Riparian	NA
S015345	DAVID ROBERT OSTLER	Riparian	NA
S015464	OKIZU FOUNDATION	Riparian, Pre-1914 Appropriative	01/01/1860
S015465	OKIZU FOUNDATION	Riparian, Pre-1914 Appropriative	01/01/1860
S015466	OKIZU FOUNDATION	Riparian, Pre-1914 Appropriative	01/01/1860
S015506	GRAEAGLE LAND & WATER COMPANY	Riparian, Pre-1914 Appropriative	01/01/1820
S015778	DENNIS SALVI	Riparian	NA
S015891	KENNETH WALSH	Riparian	NA
S015913	GRAEAGLE LAND & WATER COMPANY	Riparian, Pre-1914 Appropriative	01/01/1820

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S015914	GRAEAGLE LAND & WATER COMPANY	Riparian, Pre-1914 Appropriative	01/01/1820
S015975	Bardin E. Bengard	Riparian, Pre-1914 Appropriative	1/1/1914
S016014	U S LASSEN NATL FOREST	Riparian	NA
S016123	Richard A Meyers	Riparian	NA
S016152	BRENT WIGGIN TRUST	Riparian	NA
S016502	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S016556	JOE HEIER	Riparian	NA
S016597	PETER LANDGRAF BOWERS	Pre-1914 Appropriative	1/1/2005
S016689	M&T Chico Ranch, Inc.	Pre-1914 Appropriative	1/1/1903
S016801	R.H. EMMERSON & SONS	Riparian	NA
S016922	ODYSSEUS FARMS	Riparian	NA
S017125	B & E LUNDBERG	Riparian, Pre-1914 Appropriative	1/1/1990
S018606	Heiman Cheim	Riparian	NA
S018616	FARMLAND RESERVE, INC.	Riparian, Pre-1914 Appropriative	01/01/1800
S019188	R.H. EMMERSON & SONS	Riparian, Pre-1914 Appropriative	1/1/2009
S019191	Camage	Riparian	NA
S019194	R.H. EMMERSON & SONS	Riparian	NA
S019204	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S019210	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/2009
S019211	R.H. EMMERSON & SONS	Riparian	NA
S019213	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/2009
S019216	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/2009
S019228	R.H. EMMERSON & SONS	Riparian	NA
S019290	LEAL FAMILY TRUST	Riparian	NA
S019293	LEAL FAMILY TRUST	Riparian	NA
S019295	LEAL FAMILY TRUST	Riparian	NA
S019298	BAINS PROPERTIES LP	Riparian, Pre-1914 Appropriative	1/1/2012
S019586	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/2009
S019595	SIERRA PACIFIC INDUSTRIES	Riparian and Pre- 1914	1/1/2009

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S019652	R.H. EMMERSON & SONS	Riparian	
S019658	SIERRA PACIFIC INDUSTRIES	Riparian and Pre- 1914	1/1/2009
S019705	SIERRA PACIFIC INDUSTRIES	Riparian, Pre-1914 Appropriative	1/1/2009
S020022	Mike Kelly	Riparian	NA
S020270	ODYSSEUS FARMS	Riparian	NA
S020398	ODYSSEUS FARMS	Riparian	NA
S020440	SIERRA PACIFIC INDUSTRIES	Riparian and Pre- 1914	1/1/2009
S020560	A & G MONTNA PROPERTIES LP	Riparian	NA
S020561	A & G MONTNA PROPERTIES LP	Riparian	NA
S020562	A & G MONTNA PROPERTIES LP	Riparian	NA
S020563	MIKE KLEARY	Riparian	NA
S020800	MIRECAL FAMILY TRUST	Pre-1914 Appropriative	1/1/1914
S021212	SAM KINGDON	Riparian, Pre-1914 Appropriative	01/01/1850
S021213	THOMAS W. LATHAM	Riparian	NA
S021222	JOHN ZICKER	Pre-1914 Appropriative	01/01/1853
S021529	HOLLY GEORGE	Riparian	NA
S021611	WILLIARD H WATTENBURG	Riparian	NA
S021625	GENESEE VALLEY RANCH LLC	Pre-1914 Appropriative	01/01/1865
S021626	GENESEE VALLEY RANCH LLC	Pre-1914 Appropriative	01/01/1865
S021627	GENESEE VALLEY RANCH LLC	Pre-1914 Appropriative	01/01/1865
S021628	GENESEE VALLEY RANCH LLC	Pre-1914 Appropriative	01/01/1865
S021629	GENESEE VALLEY RANCH LLC	Pre-1914 Appropriative	01/01/1865
S021630	GENESEE VALLEY RANCH LLC	Pre-1914 Appropriative	01/01/1865
S021631	GENESEE VALLEY RANCH LLC	Pre-1914 Appropriative	01/01/1865
S021632	GENESEE VALLEY RANCH LLC	Pre-1914 Appropriative	01/01/1865
S021663	REDWOOD UNION TRUST DATED FEBRUARY 23, 2023	Riparian and Pre- 1914	1/1/1874
S021664	REDWOOD UNION TRUST DATED FEBRUARY 23, 2023	Riparian and Pre- 1914	1/1/1874
S021665	REDWOOD UNION TRUST DATED	Riparian and Pre- 1914	1/1/1874
S021666	REDWOOD UNION TRUST DATED	Riparian and Pre- 1914	1/1/1874
S021667	REDWOOD UNION TRUST DATED	Riparian and Pre- 1914	1/1/1874
S021668	REDWOOD UNION TRUST DATED	Riparian and Pre- 1914	1/1/1874

TABLE B.1-12. FEATHER RIVER HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
S021669	REDWOOD UNION TRUST DATED	Riparian and Pre- 1914	1/1/1874
S021675	REDWOOD UNION TRUST DATED	Riparian and Pre- 1914	1/1/1874
S021710	RRF LASSEN-PLUMAS	Unclassified	1/1/2009
S021716	RRF LASSEN-PLUMAS	Riparian	NA
S021718	RRF LASSEN-PLUMAS	Riparian	NA
S021721	COLLINS PINE COMPANY	Riparian	NA
S021722	COLLINS PINE COMPANY	Riparian, Pre-1914 Appropriative	1/1/1913
S021723	COLLINS PINE COMPANY	Riparian, Pre-1914 Appropriative	1/1/1940
S021734	TAYLOR BROS. FARMS INC.	Riparian, Pre-1914 Appropriative	1/1/1962
S022060	ROBERT D. HUGHES	Riparian	NA
S022067	SOUTH FEATHER WATER & POWER AGENCY	Pre-1914 Appropriative	01/01/1889
S022068	SOUTH FEATHER WATER & POWER AGENCY	Pre-1914 Appropriative	01/01/1889
S022155	PARADISE IRRIGATION DISTRICT	Pre-1914 Appropriative	01/01/1859
S022213	R.H. EMMERSON & SONS	Riparian	NA
S022235	R.H. EMMERSON & SONS	Riparian	NA
S022236	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S022237	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S022238	R.H. EMMERSON & SONS	Riparian	NA
S022239	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S022513	CORDUA IRRIGATION DISTRICT	Riparian, Pre-1914 Appropriative	1/1/1930
S022514	CORDUA IRRIGATION DISTRICT	Riparian, Pre-1914 Appropriative	1/1/1930
S022597	COLLINS PINE COMPANY	Riparian	NA
S022603	WILLIAM MICHELSON	Riparian, Pre-1914 Appropriative	1/1/1900
S022616	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S022687	LUCIANO FARMS	Riparian, Pre-1914 Appropriative	1/1/2009
S022688	LUCIANO FARMS	Riparian, Pre-1914 Appropriative	1/1/2009
S022701	North Yuba Water District	Pre-1914 Appropriative	01/01/1860

TABLE B.1-12. FEATHER RIVER HRL WATER RIGHTS			
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S022888	THE LAYMAN ASSOCIATION, INC.	Riparian	NA
S023206	SHELDON ROBERT FOSTER/GENEVIEVE COLMAN TRUST	Riparian, Pre-1914 Appropriative	1/1/1900
S023371	CAROLYN BACCALA	Riparian, Pre-1914 Appropriative	01/01/1880
S023372	CAROLYN BACCALA	Riparian, Pre-1914 Appropriative	01/01/1880
S023373	CAROLYN BACCALA	Riparian, Pre-1914 Appropriative	01/01/1880
S023919	WILLIAM LAFAYETTE KLEMIN	Riparian	NA
S024056	R.H. EMMERSON & SONS	Riparian	NA
S024057	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S024063	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S024064	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S024065	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S024403	US BUREAU OF LAND MANAGEMENT	Riparian	NA
S024494	Marty/Scheiber Family Ltd Partnership	Riparian	NA
S024506	White Oak Ranch	Riparian	NA
S024520	R.H. EMMERSON & SONS	Riparian	NA
S024565	R.H. EMMERSON & SONS	Riparian	NA
S024566	R.H. EMMERSON & SONS	Riparian	NA
S024567	R.H. EMMERSON & SONS	Riparian	NA
S024568	R.H. EMMERSON & SONS	Riparian	NA
S024569	R.H. EMMERSON & SONS	Riparian	NA
S024570	R.H. EMMERSON & SONS	Riparian	NA
S024571	R.H. EMMERSON & SONS	Riparian	NA
S024572	R.H. EMMERSON & SONS	Riparian	NA
S024573	R.H. EMMERSON & SONS	Riparian	NA
S024574	R.H. EMMERSON & SONS	Riparian	NA
S024588	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S024610	PRAIRIE CREEK RANCH 1	Riparian	NA
S024612	PRAIRIE CREEK RANCH 1	Riparian	NA
S024614	PRAIRIE CREEK RANCH 1	Riparian	NA
S024616	PRAIRIE CREEK RANCH 1	Riparian	NA

TABLE B.1-12. FEATHER RIVER HRL WATER RIGHTS			
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S024639	WILLO VIEIRA	Riparian, Pre-1914 Appropriative	01/01/1889
S024694	SUKHWANT K THIARA	Riparian, Pre-1914 Appropriative	1/1/1913
S024723	JOHN WATKINS	Riparian, Pre-1914 Appropriative	01/01/1861
S024725	JOHN WATKINS	Riparian, Pre-1914 Appropriative	01/01/1861
S024805	SUN PACIFIC FARMING	Riparian	NA
S024948	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S024950	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S024952	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S024953	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S024954	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S024963	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S024964	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S024965	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S024966	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S024967	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S024970	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S024971	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S024972	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S024973	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S024975	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S025087	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S025088	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S025089	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S025090	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S025092	U S FISH & WILDLIFE SERVICE	Riparian	NA
S025095	CHARLEY TIFF	Riparian, Pre-1914 Appropriative	1/1/1900
S025167	HERBERT C NELSON	Riparian	NA
S025179	United States National Park Service - Lassen Volcanic National Park	Riparian	NA
S025193	United States National Park Service - Lassen Volcanic National Park	Riparian	NA
S025578	U S FISH & WILDLIFE SERVICE	Riparian	NA

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S025657	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S025664	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S025666	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S025668	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S025672	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S025679	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S025980	RAMARA FARMS LLC	Riparian	NA
S025987	RAMARA FARMS LLC	Riparian	NA
S026186	SHEA RANCH	Riparian	NA
S026292	MARGIOTTA 1991 TRUST	Riparian, Pre-1914 Appropriative	1/1/1900
S027186	PEEKEMA BROTHERS	Riparian	NA
S027224	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S027241	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S027466	BETH LYNN CANNON	Riparian	NA
S027546	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S027547	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S027548	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S027551	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S027554	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S027555	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S027736	R AND M DEVALENTINE REVOCABLE TRUST	Riparian, Pre-1914 Appropriative	1/1/1918
S027740	JEFF LEHR	Riparian	NA
S027741	JEFF LEHR	Riparian	NA
S027767	DEVALENTINE ORCHARDS INC	Riparian	NA
S027808	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S027816	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S027817	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S027818	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S027819	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S027829	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S027899	KAMI MCBRIDE	Riparian	NA
S027942	LINDA PHILLIPS	Riparian, Pre-1914 Appropriative	01/01/1861
S027943	LINDA PHILLIPS	Riparian, Pre-1914 Appropriative	01/01/1861

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S027944	LINDA PHILLIPS	Riparian, Pre-1914 Appropriative	01/01/1861
S027955	CHURKIN TRUST	Riparian, Pre-1914 Appropriative	01/01/1866
S027973	GARY ULSH	Pre-1914 Appropriative	01/01/1849
S028012	FEATHER RIVER COMMUNITY COLLEGE DISTRICT	Riparian, Pre-1914 Appropriative	01/01/1857
S028259	GARDEN HIGHWAY MUTUAL WATER COMPANY	Riparian	NA
S029403	Goose Club Farms	Riparian	NA
S029404	Goose Club Farms	Riparian	NA
S029405	Goose Club Farms	Riparian	NA
S029406	Goose Club Farms	Riparian	NA
S029407	Goose Club Farms	Riparian	NA

Table B.1-13. Mokelumne River HRL Water Rights

TABLE B.1-13. MOKELUMNE RIVER HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
A002100	PACIFIC GAS AND ELECTRIC COMPANY	Licensed	11/30/1920
A002534	PACIFIC GAS AND ELECTRIC COMPANY	Licensed	9/3/1921
A002548	PACIFIC GAS AND ELECTRIC COMPANY	Licensed	9/14/1921
A002751	PACIFIC GAS AND ELECTRIC COMPANY	Licensed	2/9/1922
A002996	PACIFIC GAS AND ELECTRIC COMPANY	Licensed	8/21/1922

TABLE B.1-13. MOKELUMNE RIVER HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
A003213A	The Reed Leasing Group, LLC	Licensed	1/25/1923
A003213B	The Reed Leasing Group, LLC	Licensed	1/25/1923
A003213C	STEVEN J BIGLIERI FAMILY TRUST	Licensed	1/25/1923
A003453	RYAN WEBSTER	Licensed	5/29/1923
A003617	HARRIS VINEYARDS	Licensed	8/29/1923
A003811	J.A.L.E SPALETTA FAMILY TRUST	Licensed	1/26/1924
A003821	ROBERT A LAWSON	Licensed	2/2/1924
A003830	CARL A ELKINS	Licensed	2/7/1924
A003990	KAE FARMS, LLC	Licensed	5/15/1924
A003996	John L Galeazzi	Licensed	5/20/1924
A004215	John L Galeazzi	Licensed	9/16/1924
A004228	EAST BAY MUNICIPAL UTILITY DISTRICT	Licensed	9/22/1924
A004405	BIGLIERI FAMILY LTD PTP	Licensed	12/29/1924
A004768	EAST BAY MUNICIPAL UTILITY DISTRICT	Licensed	9/11/1925
A005128	EAST BAY MUNICIPAL UTILITY DISTRICT	Licensed	7/27/1926
A005161	PACIFIC GAS AND ELECTRIC COMPANY	Licensed	8/19/1926
A005240	PACIFIC GAS AND ELECTRIC COMPANY	Licensed	10/22/1926
A005647B	AMADOR WATER AGENCY	Licensed	7/30/1927
A005647C	AMADOR WATER AGENCY	Permitted	6/14/2024
A005648B	JACKSON VALLEY IRRIGATION DISTRICT	Permitted	7/30/1927
A005648D	CALAVERAS COUNTY WATER DISTRICT	Permitted	7/30/1927
A005648F	CALAVERAS PUBLIC UTILITY DISTRICT	Permitted	7/30/1927
A005807	WOODBRIDGE IRRIGATION DISTRICT	Licensed	1/20/1928
A006032	PACIFIC GAS AND ELECTRIC COMPANY	Licensed	8/29/1928
A006145	Den Hartog Farms, LP	Licensed	12/26/1928

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A006262	PACIFIC GAS AND ELECTRIC COMPANY	Licensed	4/20/1929
A006737	PACIFIC GAS AND ELECTRIC COMPANY	Licensed	7/19/1930
A007150	U S ELDORADO NATL FOREST	Licensed	12/16/1931
A008753	ELGIN R BOWERS AND DEBORAH L BOWERS FAMILY REVOCABLE TRUST 2012	Licensed	8/7/1936
A008871	Gary C Bohnet	Licensed	1/8/1937
A009540	ELGIN R BOWERS AND DEBORAH L BOWERS FAMILY REVOCABLE TRUST 2012	Licensed	4/5/1939
A009796	CRANSTON FARMS	Licensed	12/23/1939
A009828	CARLO A LUJAN	Licensed	2/16/1940
A010240	WOODBRIDGE IRRIGATION DISTRICT	Licensed	7/17/1941
A010296	STANISLAUS NATIONAL FOREST	Licensed	10/14/1941
A010531	Kurt and Sandra Kautz Family Trust	Licensed	9/2/1942
A010553	PATRICK ARCHIBEQUE	Licensed	11/4/1942
A010741	MICHAEL ORRFELT	Licensed	12/24/1943
A010950	ALAN R WILLARD	Licensed	1/9/1945
A011562	FREDRIC D RHODES	Licensed	9/23/1946
A011977	The Reed Leasing Group, LLC	Licensed	7/9/1947
A012539	MOKELUMNE LAKES ESTATES OWNERS ASSOCIATION	Licensed	6/9/1948
A012842	NORTH SAN JOAQUIN WATER CONSERVATION DISTRICT	Permitted	12/2/1948
A013156	EAST BAY MUNICIPAL UTILITY DISTRICT	Permitted	6/16/1949
A013477	MELODY DUNLAP PRICE	Licensed	11/22/1949
A014020	MICHAEL ORRFELT	Licensed	10/25/1950

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A014724	JESSIE FREEMAN	Licensed	3/21/1952
A014883	STANISLAUS NATIONAL FOREST	Licensed	6/30/1952
A015201	EAST BAY MUNICIPAL UTILITY DISTRICT	Permitted	2/16/1953
A017386	U S ELDORADO NATL FOREST	Licensed	12/11/1956
A017519	GOLDEN EMPIRE COUNCIL B S A	Licensed	3/20/1957
A017736	U S ELDORADO NATL FOREST	Licensed	7/24/1957
A018035	STANISLAUS NATIONAL FOREST	Licensed	3/12/1958
A018462C	GENE A MILLER	Licensed	1/7/1959
A018990	JASON SAWATSKY	Licensed	9/17/1959
A020258	SIERRA PACIFIC INDUSTRIES	Licensed	6/12/1961
A020318	FRANK J H SCHULZ JR	Licensed	7/24/1961
A020535	Vaccarello Living Trust	Licensed	12/21/1961
A020644	LAKE CAMANCHE VILLAGE ASSOCIATION	Licensed	3/6/1962
A020768	GAYLE R TOON	Licensed	5/4/1962
A021246	U S ELDORADO NATL FOREST	Licensed	4/19/1963
A021247	U S ELDORADO NATL FOREST	Licensed	4/19/1963
A021248	U S ELDORADO NATL FOREST	Licensed	4/19/1963
A021249	U S ELDORADO NATL FOREST	Licensed	4/19/1963
A021327	FRED M STARR	Licensed	6/6/1963
A022322	GEORGE R KLINEFELTER	Licensed	10/26/1965
A022532	TERRENCE OWENS	Licensed	7/25/1966
A022555	BARBARA E ANDERSON KREISS LIVING TRUST	Licensed	8/18/1966
A023390	MARY JANE LUCIA	Licensed	11/6/1969
A023637	KAINO HAMU	Licensed	10/29/1970
A023941	LILIA RATHBURN	Licensed	12/6/1971

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A024110	JUDY MOORE FRYE	Licensed	7/7/1972
A024188	GIRL SCOUTS HEART OF CENTRAL CALIFORNIA	Licensed	9/21/1972
A024195	DON W HODGE	Licensed	10/2/1972
A024823	DELORES BULLER	Licensed	6/25/1975
A025043	CARA RODRIGUEZ	Licensed	4/13/1976
A025049	Vaccarello Living Trust	Licensed	4/16/1976
A025050	Vaccarello Living Trust	Licensed	4/16/1976
A025056	EAST BAY MUNICIPAL UTILITY DISTRICT	Permitted	4/29/1976
A025059	OSCAR REYES DIONICIO	Licensed	5/5/1976
A025392	ROBIN DELL'ORTO	Licensed	6/13/1977
A025450	STONECYPHERS RANCH	Licensed	8/9/1977
A025952	PATRICIA PEREIRA	Licensed	3/27/1979
A026711	STEVEN FREDRICK	Licensed	2/17/1981
A026736	PACIFIC GAS AND ELECTRIC COMPANY	Permitted	3/3/1981
A026739	PACIFIC GAS AND ELECTRIC COMPANY	Permitted	3/3/1981
A027054	KURT H HERTLEIN	Licensed	10/23/1981
A027322	POUA YANG	Licensed	5/4/1982
A027946	Vaccarello Living Trust	Licensed	1/10/1984
A027947	Vaccarello Living Trust	Licensed	1/10/1984
A028205	U S ELDORADO NATL FOREST	Post-1914 Appropriative	8/3/1984
A029236	LODESTAR CAMP	Post-1914 Appropriative	4/22/1988
C000244	PAUL CHEN	Stockpond	1/1/1952
C000523	ROBERT W BLAKELY	Stockpond	1/1/1952
C000524	ROBERT W BLAKELY	Stockpond	1/1/1956
C000525	ROBERT W BLAKELY	Stockpond	1/1/1956
C000810	VERNA J PAYNE	Stockpond	1/1/1955
C000866	PATRICIA W GARAMENDI	Stockpond	1/1/1956
C000868	PATRICIA W GARAMENDI	Stockpond	1/1/1956

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C001089	BOSSE & SON	Stockpond	1/1/1947
C001101	ERICK SINNETT	Stockpond	1/1/1948
C001122	MICHAEL R SWEET	Stockpond	1/1/1947
C001518	RUSSELL J HERBERT	Stockpond	1/1/1958
C001775	ELISE M SANDOZ	Stockpond	1/1/1960
C001934	HERTLEIN RANCH	Stockpond	1/1/1948
C001935	HERTLEIN RANCH	Stockpond	1/1/1968
C001936	HERTLEIN RANCH	Stockpond	1/1/1968
C002234	STAN DELL'ORTO	Stockpond	1/1/1915
C002909	PETER ORRIN DUNLAP	Stockpond	1/1/1958
C002910	PETER ORRIN DUNLAP	Stockpond	1/1/1960
C003050	EDWIN W MCDONALD	Stockpond	01/01/1883
C003051	EDWIN W MCDONALD	Stockpond	1/1/1946
C003052	JOHN C STOUGHTON	Stockpond	1/1/1946
C003284	MICHAEL S ROOTS	Stockpond	1/1/1968
C004586	RICHARD J WEATHERBY	Stockpond	1/1/1945
C004732	ROBERT ALLEN BACHICH	Stockpond	1/1/1937
C005235	BETTY A AYERS	Stockpond	1/1/1965
C005236	BETTY A AYERS	Stockpond	1/1/1920
C005237	BETTY A AYERS	Stockpond	1/1/1920
C005729	GLENNADINE RANKER	Stockpond	12/10/1997
C005734	JOHN W HERTZIG	Stockpond	1/1/1969
C005735	JOHN W HERTZIG	Stockpond	1/1/1969
C005736	JOHN W HERTZIG	Stockpond	1/1/1969
D030338	JOHN E HALL	Stockpond	3/24/1994
F005719S	U S ELDORADO NATL FOREST	Federal Claims	1/1/1900
F005721S	U S ELDORADO NATL FOREST	Federal Claims	1/1/1970
F006726S	STANISLAUS NATIONAL FOREST	Federal Claims	12/18/1970
F010442S	STANISLAUS NATIONAL FOREST	Federal Claims	8/26/1981

TABLE B.1-13. MOKELUMNE RIVER HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
L032543	RAY W STACEY	Registration Livestock	5/25/2018
L032887	EAST BAY MUNICIPAL UTILITY DISTRICT	Registration Livestock	11/27/2017
L032906	STEVEN FREDRICK	Registration Livestock	1/31/2018
S000133	DJP ENTERPRISES LLC	Pre-1914 Appropriative	01/01/1854
S000256	JUDITH R KOOYMAN	Riparian	NA
S000302	LOCKE RANCH INC	Riparian	NA
S000402	HOFFMAN RANCH LP	Riparian	NA
S000417	MICHAEL MONDO	Riparian	NA
S000626	RIVERBEND GROWERS LLC	Riparian	NA
S000662	DON LUCCHESI INC	Riparian	1/1/1953
S000663	DON LUCCHESI INC	Riparian	1/1/1948
S000772	KARI HASBUN	Riparian	NA
S000977	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	01/01/1875
S000978	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	01/01/1885
S000979	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	01/01/1898
S000980	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	1/1/1903
S000981	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	1/1/1900
S000982	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	01/01/1855
S000983	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	01/01/1855
S000984	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	01/01/1855
S000985	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	01/01/1855
S001065	VINO FARMS, INC	Riparian	NA
S001472	ERNEST A DIXON	Pre-1914 Appropriative	1/1/1900
S001494	L & N CAPITAL LLC	Riparian	NA
S001499	The Reed Leasing Group, LLC	Riparian	NA
S001525	JOSEPH MEHRTENS	Riparian	NA

TABLE B.1-13. MOKELUMNE RIVER HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
S001872	RICHARD W. KERRIGAN	Pre-1914 Appropriative	01/01/1874
S002054	PRITAM SINGH DHALIWAL	Riparian	NA
S002517	FLORENCE SHAW	Riparian	NA
S003225	MICHELE ANNE WAKEHAM	Riparian	NA
S004062	DUSTIN STERNI	Riparian	1/1/1920
S004063	DUSTIN STERNI	Riparian	1/1/1924
S004227	LINDA L ROUDEBUSH	Riparian	NA
S004519	R T MOSS	Pre-1914 Appropriative	1/1/1904
S004608	William Fischer	Pre-1914 Appropriative	01/01/1850
S004616	GAYLE R TOON	Pre-1914 Appropriative	01/01/1862
S004768	KENNY LINK	Pre-1914 Appropriative	01/01/1886
S005715	U S ELDORADO NATL FOREST	Riparian	NA
S005717	U S ELDORADO NATL FOREST	Riparian	NA
S005723	U S ELDORADO NATL FOREST	Riparian	NA
S005724	U S ELDORADO NATL FOREST	Riparian	NA
S007945	John Coleman	Riparian	NA
S008212	NESTOR ENTERPRISES - EL RIO VINEYARDS	Pre-1914 Appropriative	1/1/1914
S010258	STEVEN FREDRICK	Riparian	NA
S010400	PACIFIC GAS AND ELECTRIC COMPANY	Pre-1914 Appropriative	1/1/1901
S010750	KURT H HERTLEIN	Riparian	NA
S010763	R D YOUNGS	Riparian	NA
S010773	CALAVERAS PUBLIC UTILITY DISTRICT	Pre-1914 Appropriative	01/01/1852
S010841	LILLIAN HUFFORD	Riparian	NA
S010842	CLAUDETTE WILLIAMS	Riparian	NA
S010859	JANET TEMPLE-KREBS	Riparian	NA
S010860	JANET BONDESEN	Riparian	NA
S012926	ARTHUR J HOFFMAN	Riparian	NA
S013192	AL COSTA	Riparian	1/1/1953

TABLE B.1-13. MOKELUMNE RIVER HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
S013193	Nakagawa Family Trust	Riparian	1/1/1967
S013194	Nakagawa Family Trust	Pre-1914 Appropriative	1/1/1913
S013697	ANTHONY SANFILLIPO	Riparian	NA
S013705	ELSIE M SANDOZ	Pre-1914 Appropriative	01/01/1858
S013706	ELISE M SANDOZ	Riparian	NA
S013707	ELISE M SANDOZ	Riparian	NA
S013708	ELISE M SANDOZ	Pre-1914 Appropriative	01/01/1877
S013715	VICTOR GOEHRING REVOCABLE LIVING TRUST	Pre-1914 Appropriative	1/1/1902
S014370	STEVEN J BIGLIERI FAMILY TRUST	Pre-1914 Appropriative	1/1/1900
S014507	LELAND J HALEY	Pre-1914 Appropriative	01/01/1851
S015080	STEPHEN T KALLMAN	Riparian	NA
S015101	CARLTON L MILLS, SR	Riparian	NA
S015557	WOODBRIDGE IRRIGATION DISTRICT	Pre-1914 Appropriative	01/01/1886
S016595	FAME FARMS	Riparian	NA
S016638	STEVEN R COMBS	Riparian	NA
S016793	GEORGE REED INC	Riparian	NA
S016867	Robert Kammerer	Riparian	1/1/1925
S016910	Kurt and Sandra Kautz Family Trust	Pre-1914 Appropriative	01/01/1875
S016979	RIVERBEND VINEYARD LLC	Pre-1914 Appropriative	01/01/1800
S017126	RIVERBEND VINEYARD LLC	Pre-1914 Appropriative	01/01/1800
S017198	HILDER FAMILY PROPERTIES PTP	Pre-1914 Appropriative	01/01/1800
S017483	Donald Reynolds Family LLC, ETL	Riparian	NA
S017807	BOB PHELPS	Riparian	NA
S017833	J.A.L.E SPALETTA FAMILY TRUST	Riparian	NA
S017839	Hoffman Vineyards	Riparian	NA
S017956	CALIF DEPT OF WATER RESOURCES	Riparian	1/1/1800
S017965	CALIF DEPT OF WATER RESOURCES	Riparian	1/1/1800

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WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
S017968	CALIF DEPT OF WATER RESOURCES	Riparian	1/1/1800
S017996	WESTERVELT COMPANY	Pre-1914 Appropriative	01/01/1800
S018008	ROBERT MORI II	Pre-1914 Appropriative	1/1/1912
S018056	THOMAS J. STOKES AND SANDRA MARIE STOKES, 1996 TRUST	Pre-1914 Appropriative	01/01/1800
S018060	ALECK DAMBACHER	Pre-1914 Appropriative	01/01/1800
S018097	Darrell Phillips	Riparian	1/1/1935
S018111	FREDERICK KEVIN ALBERG	Pre-1914 Appropriative	1/1/1911
S018114	Steve Fujinaka	Pre-1914 Appropriative	1/1/1911
S018120	DAN PARISES	Pre-1914 Appropriative	1/1/1911
S018121	KARL WOLF	Riparian	NA
S018123	Steve Fujinaka	Pre-1914 Appropriative	1/1/1911
S018126	CARL A ELKINS	Pre-1914 Appropriative	1/1/1911
S018156	HILDER FAMILY PROPERTIES PTP	Pre-1914 Appropriative	01/01/1800
S018219	HILDER FAMILY PROPERTIES PTP	Pre-1914 Appropriative	01/01/1800
S018359	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S018362	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S018365	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S018417	Kurt and Sandra Kautz Family Trust	Pre-1914 Appropriative	01/01/1875
S018454	Steve J Borra	Riparian	NA
S018512	Gregory S. Dhillon	Pre-1914 Appropriative	01/01/1800
S018594	CAROLE BROW	Pre-1914 Appropriative	01/01/1800
S018636	Tom Flinn	Riparian	1/1/1951
S018736	Bryan D. Gibson	Riparian	1/1/1920
S018865	Donald Reynolds Family LLC, ETL	Riparian	NA
S019052	DON LUCCHESI INC	Riparian	1/1/1970
S019055	DON LUCCHESI INC	Riparian	1/1/1947

TABLE B.1-13. MOKELUMNE RIVER HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
S019070	1856 PSC PARTNERS	Riparian	1/1/1990
S019088	Thurman Street Company, LLC	Pre-1914 Appropriative	01/01/1800
S019109	Gary C Bohnet	Pre-1914 Appropriative	01/01/1800
S019273	JASON SPALETTA	Pre-1914 Appropriative	01/01/1800
S019276	Barger et al	Pre-1914 Appropriative	01/01/1800
S019364	A&A METTLER FAMILY TRUST	Pre-1914 Appropriative	01/01/1800
S019944	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S019950	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S019968	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S020031	JOSE L TORRES	Pre-1914 Appropriative	01/01/1800
S020032	JOSE L TORRES	Pre-1914 Appropriative	01/01/1800
S020132	Nakagawa Family Trust	Riparian	1/1/1949
S020219	Charlotte Cameron	Pre-1914 Appropriative	01/01/1800
S020292	Woodbridge Golf & Country Club	Riparian	NA
S020474	CURT GATES	Riparian	NA
S020476	EAST BAY MUNICIPAL UTILITY DISTRICT	Riparian	NA
S020477	EAST BAY MUNICIPAL UTILITY DISTRICT	Riparian	NA
S020478	CURT GATES	Riparian	NA
S020564	NICK B JONES	Riparian	NA
S020827	JAHANT VINEYARDS LLC	Riparian	1/1/1987
S020977	CAROLE L MARZ TRUST ETAL	Pre-1914 Appropriative	1/1/1904
S020978	CAROLE L MARZ TRUST ETAL	Pre-1914 Appropriative	1/1/1904
S021241	EAST BAY MUNICIPAL UTILITY DISTRICT	Riparian	NA
S021426	John L Galeazzi	Pre-1914 Appropriative	01/01/1800
S021427	John L Galeazzi	Pre-1914 Appropriative	01/01/1800
S021606	SIERRA PACIFIC INDUSTRIES	Riparian	NA

TABLE B.1-13. MOKELUMNE RIVER HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
S021916	DUSTIN STERNI	Pre-1914 Appropriative	01/01/1800
S022262	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S022263	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S022264	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S022265	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S022266	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S022267	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S022268	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S022269	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S022270	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S022271	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S022272	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S022273	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S022274	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S022275	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S022276	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S022277	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S022462	Kurt and Sandra Kautz Family Trust	Pre-1914 Appropriative	01/01/1890
S022651	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S022656	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S022666	SIERRA PACIFIC INDUSTRIES	Riparian	NA

TABLE B.1-13. MOKELUMNE RIVER HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
S022668	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S022669	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S022670	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S022671	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S022672	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S022673	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S023241	GREG GERLOMES	Riparian	1/1/1988
S023243	HARRIS VINEYARDS	Pre-1914 Appropriative	01/01/1800
S023244	NICK B JONES	Riparian	NA
S023914	WAGNER LAND COMPANY	Riparian	NA
S023937	THE GOEL FAMILY LIVING TRUST	Riparian	NA
S023992	RICHARD DIAS	Riparian	NA
S024047	BARBARA E ANDERSON KREISS LIVING TRUST	Riparian	NA
S024069	TERRY QUASHNICK	Riparian	NA
S024070	TERRY QUASHNICK	Riparian	NA
S024165	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S024189	FREDERICK KEVIN ALBERG	Pre-1914 Appropriative	1/1/1913
S024197	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S024198	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S024202	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S024207	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S024212	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S024213	SIERRA PACIFIC INDUSTRIES	Riparian	NA

TABLE B.1-13. MOKELUMNE RIVER HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
S024221	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S024226	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S024227	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S024345	DEN HARTOG FARMS, L.P.	Pre-1914 Appropriative	01/01/1800
S024346	DEN HARTOG FARMS, L.P.	Pre-1914 Appropriative	01/01/1800
S024347	DEN HARTOG FARMS, L.P.	Pre-1914 Appropriative	01/01/1800
S024348	DEN HARTOG FARMS, L.P.	Pre-1914 Appropriative	01/01/1800
S024524	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S024529	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S024535	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S024541	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S024550	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S024551	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S025001	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S025040	JONATHAN R PRICE	Riparian	NA
S025204	Evelyn West	Riparian	NA
S025267	CALAVERAS PUBLIC UTILITY DISTRICT	Pre-1914 Appropriative	01/01/1854
S025563	STOKES FARMS	Pre-1914 Appropriative	01/01/1871
S025631	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S025970	J C O FARMS	Riparian	NA
S027512	PAUL ELLIOTT	Pre-1914 Appropriative	1/1/1890
S027843	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S027844	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S027845	SIERRA PACIFIC INDUSTRIES	Riparian	NA

TABLE B.1-13. MOKELUMNE RIVER HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
S027846	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S028152	JASON SPALETTA	Pre-1914 Appropriative	01/01/1885
S028178	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S028179	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S028180	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S028181	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S028182	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S028183	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S028185	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S028186	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S028187	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S028188	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S028366	TRAVIS NIXON	Riparian	NA
S028411	SIERRA PACIFIC INDUSTRIES	Riparian	1/1/2019
S028412	SIERRA PACIFIC INDUSTRIES	Riparian	1/1/2019
S028413	SIERRA PACIFIC INDUSTRIES	Riparian	1/1/2019
S028415	SIERRA PACIFIC INDUSTRIES	Riparian	1/1/1980
S028416	SIERRA PACIFIC INDUSTRIES	Riparian	1/1/2019
S028417	SIERRA PACIFIC INDUSTRIES	Riparian	1/1/2019
S028418	SIERRA PACIFIC INDUSTRIES	Riparian	1/1/2019
S028419	SIERRA PACIFIC INDUSTRIES	Riparian	1/1/2019

TABLE B.1-13. MOKELUMNE RIVER HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
S028420	SIERRA PACIFIC INDUSTRIES	Riparian	1/1/2019
S028433	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S028434	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S028436	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S028440	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S028441	SIERRA PACIFIC INDUSTRIES	Riparian	NA
S028465	JEFF LEWIS	Pre-1914 Appropriative	1/1/1913

Table B.1-14. Putah Creek and YCFCWCD HRL Water Rights

TABLE B.1-14. PUTAH CREEK AND YCFCWCD HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
A003797	PETER LUCHETTI	Appropriative	1/1/1924
A000533	SAMUEL EAKLE	Licensed	12/13/1916
A001178	HINES L DIANE	Licensed	2/13/1919
A003069	Langtry Farms, LLC	Licensed	10/7/1922
A004379	HEART CONSCIOUSNESS CHURCH INC	Licensed	12/16/1924
A004889	Langtry Farms, LLC	Licensed	1/15/1926
A005210	Solano County Water Agency	Licensed	9/15/1926
A009574	USIBELLI VINEYARDS, INC	Licensed	5/4/1939
A009695	RICHARD CARTER	Licensed	1/15/1926
A009868	BENMORE VALLEY RANCH LLC	Licensed	5/4/1940

TABLE B.1-14. PUTAH CREEK AND YCFCWCD HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
A011199	Solano County Water Agency	Licensed	10/29/1945
A011236	Langtry Farms, LLC	Licensed	12/11/1945
A011389	YCFC&WCD	Permitted	5/3/1946
A011930	GALLO VINEYARDS INC	Licensed	6/10/1947
A012389	LAKE COUNTY WATERSHED PROTECTION DISTRICT	Permitted	8/3/1948
A012578	Solano County Water Agency	Licensed	9/27/1948
A012596	HELEN HEIBEL GHIRINGHELLI NELSON	Licensed	7/16/1948
A012716	U.S. Bureau of Reclamation	Permitted	9/27/1948
A012851	ERICA SMITHIES	Licensed	12/9/1948
A013053	USIBELLI VINEYARDS, INC	Licensed	4/25/1949
A013341	HAROLD I MOSKOWITE	Licensed	9/8/1949
A013543	PHILIP BURTON	Licensed	1/18/1950
A013597	AHST 173 LLC	Licensed	2/23/1950
A013672	CHARLES P. RUSSELL II	Licensed	4/6/1950
A013711	MVP VINEYARDS LLC	Licensed	4/28/1950
A013730	CLINTON R PRIDMORE	Licensed	5/11/1950
A013771	ERIC WILMS	Licensed	6/5/1950
A013801	RUSS TRUST	Licensed	6/19/1950
A013834	POPE VALLEY UNION SCHOOL DISTRICT	Licensed	7/5/1950
A013915	ASELLUS SONOMA LLC	Licensed	8/23/1950
A013918	SAGE CANYON LLC	Licensed	8/24/1950
A014024	JULIANA MUTUAL WATER COMPANY	Licensed	10/27/1950
A014392	JULIANA MUTUAL WATER COMPANY	Licensed	7/16/1951
A014681	TOMAS KALNOKY	Licensed	2/15/1952
A014784	AHST 173 LLC	Licensed	4/29/1952
A014787A	Norbert Dickman	Licensed	12/7/1988
A014787B	CHRIS CARLISLE	Licensed	12/7/1988
A014846	RICHARD A KUHN	Licensed	6/10/1952
A014974	CLINTON R PRIDMORE	Licensed	8/15/1952
A014995	1989 MEADE REVOCABLE TRUST	Licensed	8/26/1952
A015164	ST SUPERY INC	Licensed	1/21/1953
A015196	Langtry Farms, LLC	Licensed	2/13/1953
A015258	JASON JONES	Licensed	3/30/1953

TABLE B.1-14. PUTAH CREEK AND YCFCWCD HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
A015281	JULIANA MUTUAL WATER COMPANY	Licensed	4/6/1953
A015321	ST SUPERY INC	Licensed	4/29/1953
A015323	DONALD HARDIN TRUST	Licensed	4/30/1953
A015421	DAVID ROSENTHAL	Licensed	7/21/1953
A015568	Langtry Farms, LLC	Licensed	10/6/1953
A015609	DEBRA BOTTOMS	Licensed	11/10/1953
A015706	JULIANA MUTUAL WATER COMPANY	Licensed	1/28/1954
A015784	SAGE CANYON LLC	Licensed	3/18/1954
A015934	JULIANA MUTUAL WATER COMPANY	Licensed	6/29/1954
A015975	YCFC&WCD	Permitted	8/2/1954
A016114	DANIEL SHEEHY	Licensed	10/25/1954
A016257	PEGGY DICKSON	Licensed	3/7/1955
A016267	JULIANA MUTUAL WATER COMPANY	Licensed	3/10/1955
A016268	WILLIAM F WRIGHT	Licensed	3/10/1955
A016488	KOKO NOR CORPORATION	Licensed	7/26/1955
A016922	WILLIAM A BELL	Licensed	3/8/1956
A016923	Mildred Jean Rappenecker-Howell	Licensed	3/8/1956
A016924	ERICA SMITHIES	Licensed	3/8/1956
A016925	PARADISE VALLEY RANCH COMPANY, LLC	Licensed	3/8/1956
A016960	AETNA SPRINGS PARTNERSHIP	Licensed	3/21/1956
A017295	R-RANCH AT THE LAKE	Licensed	9/25/1956
A017464	DENNIS E SWEENEY	Licensed	2/13/1957
A017555	BERGLUND FAMILY VINEYARDS	Licensed	4/22/1957
A017557	TRACY COPPIN	Licensed	4/22/1957
A017823	SAMUEL EAKLE	Licensed	9/13/1957
A017856	MYSTERIOUS VALLEY RANCH LLC	Licensed	10/22/1957
A017979	IDOLINA ALVAREZ	Licensed	2/6/1958
A017980	WW ACQUISITIONS	Licensed	2/6/1958
A018024	LAKE COUNTY LAND RESTORATION LLC	Licensed	3/4/2958
A018405	JULIANA MUTUAL WATER COMPANY	Licensed	11/12/1958

TABLE B.1-14. PUTAH CREEK AND YCFCWCD HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
A018493	DORA M RAINEY	Licensed	1/27/1959
A018494	PACIFIC GAS AND ELECTRIC COMPANY	Licensed	1/27/1959
A018496	JASON JONES	Licensed	1/27/1959
A018497	GALLO VINEYARDS INC	Licensed	1/27/1959
A018498	JAMES F ERASMY	Licensed	1/27/1959
A018499	EDWIN NUNNALLY	Licensed	1/27/1959
A018501	RUSSELL A TAPLIN	Licensed	1/27/1959
A018502	DOUGLAS A HAMILTON	Licensed	1/27/1959
A018503	PEGGY DICKSON	Licensed	1/27/1959
A018504	THE LAND TRUST OF NAPA COUNTY	Licensed	1/27/1959
A018506	JOHN E AHMANN	Licensed	1/27/1959
A018507	THOMAS W HOLLAND	Licensed	1/27/1959
A018510	USIBELLI VINEYARDS, INC	Licensed	1/29/1959
A018667	LAKE COUNTY WATERSHED PROTECTION DISTRICT	Licensed	4/27/1959
A018734	ENTRUST GROUP FOR BENEFIT OF MICHAEL R SMITH	Licensed	5/22/1959
A018834	UNIVERSAL LIFE CHURCH	Licensed	6/29/1959
A018866	ROBERT L HALL	Licensed	7/21/1959
A018939	MIDDLETOWN RANCHERIA	Licensed	8/26/1959
A018949	USIBELLI VINEYARDS, INC	Licensed	8/28/1959
A019074	Nanette Wheeler	Licensed	11/9/1959
A019127	GALLO VINEYARDS INC	Licensed	12/9/1959
A019374	LAMBENTZ VINEYARDS LLC	Licensed	4/21/1960
A019512	Lynnmarie Yamashita-Doran	Licensed	6/30/1960
A019567	ST SUPERY INC	Licensed	7/21/1960
A019582	EL RANCHO PROPERTIES INC	Licensed	7/26/1960
A019656	WW ACQUISITIONS	Licensed	8/12/1960
A019884	THOMAS H CLARK	Licensed	12/20/1960
A019885	JULIANA MUTUAL WATER COMPANY	Licensed	12/20/1960
A019890	LARRY M SLOAN	Licensed	12/21/1960
A019934	U.S. Bureau of Reclamation	Permitted	1/27/1961
A019964	FCC NORTH AMERICA, LLC	Licensed	2/6/1961
A020042	USIBELLI VINEYARDS, INC	Licensed	3/20/1961

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A020060	HIDDEN VALLEY LAKE COMMUNITY SERVICES DISTRICT	Licensed	3/30/1961
A020061	Langtry Farms, LLC	Licensed	3/30/1961
A020145	TOMMY YINING MEI	Licensed	5/23/1961
A020152	ST SUPERY INC	Licensed	5/31/1961
A020335	WILLIAM L BARTOLUCCI AND ARDYTH A BARTOLUCCI, TRUSTEES OF THE BARTOLUCCI FAMILY TRUST	Licensed	7/31/1961
A020370	ELFIE A NADELL	Licensed	8/29/1961
A020371	KOKO NOR CORPORATION	Licensed	8/29/1961
A020549	ST SUPERY INC	Licensed	1/8/1962
A020639	ELLEN MURPHY-WELK	Licensed	3/6/1962
A020695	F B ARCHER	Licensed	4/4/1962
A020774	LEE HOLLY	Licensed	5/17/1962
A020781A	PHILLIP MORRIS	Licensed	5/21/1962
A020781B	DAVID E THOMAS	Licensed	5/21/1962
A020781C	HAROLD I MOSKOWITE	Licensed	5/21/1962
A020876	HOMESTAKE MINING COMPANY OF CALIFORNIA	Licensed	7/27/1962
A020877	HELEN S MUNK	Licensed	7/27/1962
A020905	CHARLES C ROSS	Licensed	8/20/1962
A021075	FRANK D RHODA	Licensed	12/7/1962
A021157A	ROBERT W HOCKANSON	Licensed	2/13/1963
A021157B	SAGE CANYON LLC	Licensed	2/13/1963
A021160	PAUL M GRAMMENS	Licensed	2/14/1963
A021193	VINCENT WAYNE FRIGGE	Licensed	3/14/1963
A021242	GARY GUANELLA	Licensed	4/16/1963
A021367	FRANK GROSSMAN	Licensed	6/27/1963
A021421	Blake Fifield	Licensed	8/6/1963
A021433	MVP VINEYARDS LLC	Licensed	8/16/1963
A021434	GEYSERS POWER COMPANY LLC	Licensed	8/16/1963
A021722	F N LAND LLC	Licensed	4/1/1964
A021745	CORONA VINEYARD MGT	Licensed	4/16/1964
A021776	WW ACQUISITIONS	Licensed	5/19/1964
A021777	JOHN WESLEY DAVIS JR	Licensed	5/19/1964
A021778	SANDRA J PARODI	Licensed	5/19/1964

TABLE B.1-14. PUTAH CREEK AND YCFCWCD HRL WATER RIGHTS			
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A021805	STANLEY E ALBRIGHT	Licensed	confirmed
A021808	FRANCISCO FIGUEROA	Licensed	6/10/1964
A021849	DHARMA REALM BUDDHIST ASSOCIATION	Licensed	7/14/1964
A022033	Langtry Farms, LLC	Licensed	1/22/1965
A022224	HAROLD I MOSKOWITE	Licensed	7/15/1965
A022238	JULIANA MUTUAL WATER COMPANY	Licensed	7/26/1965
A022251	Langtry Farms, LLC	Licensed	8/3/1965
A022252	McDowell Family Revocable Trust	Licensed	8/3/1965
A022292	SCOTT BROWN	Licensed	9/22/1965
A022371	CLINTON R PRIDMORE	Licensed	1/26/1966
A022588	HENRY E EAKLE	Licensed	9/27/1966
A022599	CLINTON R PRIDMORE	Licensed	10/4/1966
A022698	RONALD GAUT	Licensed	2/10/1967
A022699	MONTESOL, LLC	Licensed	2/10/1967
A022736	ST SUPERY INC	Licensed	3/22/1967
A022737	Langtry Farms, LLC	Licensed	3/22/1967
A022738	ALKO RANCH, LLC	Licensed	3/22/1967
A022739	Langtry Farms, LLC	Licensed	3/22/1967
A022793	CHRIS HARNEY	Licensed	5/26/1967
A022836	ST SUPERY INC	Licensed	6/27/1967
A023026	BRUNO E GRADEK	Licensed	4/10/1968
A023085	JAYSON KIMBALL	Licensed	2/21/2002
A023246	GALLO VINEYARDS INC	Licensed	3/19/1969
A023247	AHST 173 LLC	Licensed	3/19/1969
A023248	CHRISTOPHER JOSEPH HARNEY AND CHRISTINA MARINO HARNEY REVOCABLE LIVING TRUST	Licensed	3/19/1969
A023249	JULIANA MUTUAL WATER COMPANY	Licensed	3/19/1969
A023256	JOHN E AHMANN	Licensed	4/10/1969
A023264	AETNA SPRINGS RESORTS LLC	Licensed	4/21/1969
A023267	MYSTERIOUS VALLEY RANCH LLC	Licensed	4/23/1969
A023348	RUSS TRUST	Licensed	9/24/1969
A023386	AETNA SPRINGS RESORTS LLC	Licensed	10/31/1969
A023460	LEROY YOUNG	Licensed	3/10/1970

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A023487	LAURA HOLMQUIST	Licensed	4/21/1970
A023532	JULIANA MUTUAL WATER COMPANY	Licensed	6/15/1970
A023586	MVP VINEYARDS LLC	Licensed	8/18/1970
A023587	HINE RANCH LLC	Licensed	8/18/1970
A023588	WW ACQUISITIONS	Licensed	8/18/1970
A023672	ST SUPERY INC	Permitted	1/14/1971
A023696	FCC NORTH AMERICA, LLC	Licensed	2/3/1971
A023724	Yocha Dehe Wintun Nation	Licensed	3/10/1971
A023761	F B ARCHER	Licensed	4/15/1971
A023762	NEMESIA PEARL KELLY	Licensed	4/15/1971
A023834	Langtry Farms, LLC	Permitted	8/2/1971
A024045	COBB CREEK HOLDINGS LLC	Licensed	4/17/1972
A024272	HAROLD I MOSKOWITE	Licensed	12/22/1972
A024296A	Langtry Farms, LLC	Permitted	2/1/1973
A024296B	HEITZ WINE CELLARS	Licensed	2/1/1973
A024296C	CHARLOTTE TEMPLE	Permitted	2/1/1973
A024297	ST SUPERY INC	Permitted	2/1/1973
A024330	STEPHEN PRATT	Licensed	3/20/1973
A024336	JAMES LUNDY	Permitted	4/4/1973
A024337	HEART CONSCIOUSNESS CHURCH INC	Licensed	4/4/1973
A024338	ALKO RANCH, LLC	Licensed	4/4/1973
A024339	THOMAS H CLARK	Licensed	4/4/1973
A024341	MYSTERIOUS VALLEY RANCH LLC	Licensed	4/4/1973
A024342	HAROLD I MOSKOWITE	Licensed	4/4/1973
A024343	NAPA COUNTY REGIONAL PARK AND OPEN SPACE DISTRICT	Licensed	4/4/1973
A024363	JEFFREY MARK	Licensed	5/2/1973
A024366	JANET L ROSENTHAL	Licensed	5/9/1973
A024432	ALAN HARDIN TRUST	Licensed	8/6/1973
A024475	STEPHEN PRATT	Licensed	9/26/1973
A024587	JANET L ROSENTHAL	Licensed	4/1/1974
A024597	GALLO VINEYARDS INC	Licensed	4/24/1974
A024598	JANET L ROSENTHAL	Permitted	4/24/1974
A024646	2003 MARINO FAMILY TRUST AND CHRISTOPHER JOSEPH	Licensed	7/19/1974

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	HARNEY AND CHRISTINA MARINO HARNEY REV LIVING TRUST		
A024664	MYSTERIOUS VALLEY RANCH LLC	Licensed	8/8/1974
A024667A	RUSSELL A TAPLIN	Licensed	8/31/1974
A024667B	MVP VINEYARDS LLC	Licensed	8/13/1974
A024673	CLINTON R PRIDMORE	Licensed	8/19/1974
A024674	MATTHEW BARASH	Licensed	8/19/1974
A024699	DANIEL DAMONTE	Licensed	10/17/1974
A024851	AETNA SPRINGS RESORTS LLC	Licensed	8/5/1975
A024934	SUTTER HOME VINEYARDS	Licensed	11/17/1975
A025249	DIAMOND LAKE PROPERTY OWNERS ASSN	Licensed	1/19/1977
A025258	CHARLOTTE TEMPLE	Licensed	2/11/1977
A025259	Whisky River Ranch Winery, LLC	Licensed	2/11/1977
A025260	GALLO VINEYARDS INC	Licensed	2/11/1977
A025366A	DONALD PRIDMORE JR	Licensed	5/16/1977
A025366B	VIET VAN QUOC NGUYEN	Licensed	5/16/1977
A025432	THE LAND TRUST OF NAPA COUNTY	Permitted	7/18/1977
A025433	JULIE JUTTE	Licensed	7/18/1977
A025599	ANDREW FOBERT	Licensed	12/15/1977
A025765	HAROLD I MOSKOWITE	Licensed	6/20/1978
A025893	PERSEPHONE RANCH AND PEJU PROVINCE WINERY	Licensed	12/29/1978
A025911	JAMES L PETERSON	Licensed	2/1/1979
A025912	EL RANCHO PROPERTIES INC	Licensed	2/1/1979
A026003A	JULIANA MUTUAL WATER COMPANY	Licensed	5/24/1979
A026003B	RUSS TRUST	Licensed	5/24/1979
A026035	THE LAND TRUST OF NAPA COUNTY	Licensed	6/26/1979
A026123	JAMES LUNDY	Licensed	11/1/1979
A026168	GAMBLE RANCH LLC	Licensed	1/9/1980
A026177	JARED BOBROW	Licensed	1/20/1980
A026260	STEVEN W BROWN	Licensed	3/20/1980
A026268	HENDRIK SMEDING	Licensed	3/28/1980
A026278	MARY ANN CASCIO	Licensed	4/8/1980
A026299	MONTESOL, LLC	Permitted	4/1/1968

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A026308	AETNA SPRINGS RESORTS LLC	Licensed	4/21/1980
A026310	JEAN M VARNER	Licensed	4/22/1980
A026311	KOKO NOR CORPORATION	Licensed	4/22/1980
A026313	MAMZIRP LLC	Permitted	4/22/1980
A026319	MID CITY NURSERY INC	Licensed	4/30/1978
A026322	KURT KRITIKOS	Permitted	5/7/1980
A026352	RED HAWK VINEYARDS LLC	Licensed	5/14/1980
A026353	TOM CLARK	Licensed	5/14/1980
A026354	Langtry Farms, LLC	Licensed	5/14/1980
A026356	JULIANA MUTUAL WATER COMPANY	Licensed	5/15/1980
A026357	SHAW WHITNEY	Licensed	5/15/1980
A026358	LEAH BRADLE	Licensed	5/15/1980
A026360	GAMBLE RANCH LLC	Licensed	5/15/1980
A026361	SCOTT BROWN	Licensed	5/15/1980
A026363	ERICKSON-CRAWFORD FAMILY TRUST	Licensed	5/15/1980
A026364	HINE RANCH LLC	Licensed	5/15/1980
A026366	POPE VALLEY UNION SCHOOL DISTRICT	Licensed	5/20/1980
A026381	Andrew P Amador	Licensed	5/23/1980
A026382	CHARLOTTE TEMPLE	Permitted	5/27/1980
A026383	JAMES HIGGINBOTTOM	Licensed	5/27/1980
A026387	RONALD MINUDRI	Licensed	5/28/1980
A026389	HEITZ WINE CELLARS	Licensed	5/29/1980
A026396	VICTOR Y CHANG	Licensed	6/2/1980
A026400	CHARLOTTE TEMPLE	Licensed	6/5/1980
A026409	VICTOR Y CHANG	Licensed	6/6/1980
A026416	JEFFREY MARK	Licensed	6/17/1980
A026418	JEFFREY MARK	Licensed	6/17/1980
A026428	JENNIFER BUCHWALD-BAERWALD	Licensed	6/24/1980
A026431	THOMAS W GOMEZ JR	Licensed	6/26/1980
A026439	DONALEE SHACKELFORD	Licensed	7/2/1980
A026443	JULIANA MUTUAL WATER COMPANY	Licensed	7/8/1980
A026452	HEITZ WINE CELLARS	Licensed	7/11/1980
A026469	YCFC&WCD	Permitted	7/25/1980
A026485	SHARON A SETTY	Licensed	8/6/1980

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A026492	HINE RANCH LLC	Licensed	8/13/1980
A026495	JANET L ROSENTHAL	Licensed	8/14/1980
A026496	JAMES BURGESS	Licensed	8/14/1980
A026509	HOMESTAKE MINING COMPANY OF CALIFORNIA	Licensed	8/27/1980
A026510	SAGE CANYON LLC	Licensed	8/27/1980
A026656	PERSEPHONE RANCH	Licensed	12/9/1980
A026727	HELEN HEIBEL GHIRINGHELLI NELSON	Licensed	2/25/1981
A026762	MYSTERIOUS VALLEY RANCH LLC	Licensed	3/25/1981
A026766	Jacob Pullman	Licensed	3/26/1981
A026783	MYSTERIOUS VALLEY RANCH LLC	Licensed	4/10/1981
A026994	ROBERT L OKIN	Licensed	9/10/1981
A027004	EL RANCHO MOTEL INC	Licensed	9/14/1981
A027013	GALLO VINEYARDS INC	Licensed	9/18/1981
A027028	DOUGLAS R ERICKSON	Licensed	9/30/1981
A027171	JAMES CLIFTON	Licensed	1/7/1982
A027209	JULIANA MUTUAL WATER COMPANY	Permitted	2/10/1982
A027281A	ROBERT L OKIN	Licensed	4/6/1982
A027281B	MYSTERIOUS VALLEY RANCH LLC	Permitted	4/6/1985
A027369	JOHN E AHMANN	Licensed	6/21/1982
A027370	THOMAS H CLARK	Licensed	6/21/1982
A027485	ST SUPERY INC	Permitted	8/24/1982
A027489	HOMESTAKE MINING COMPANY OF CALIFORNIA	Licensed	8/30/1982
A027499	HAROLD I MOSKOWITE	Permitted	9/2/1982
A027551	AETNA SPRINGS RESORTS LLC	Licensed	10/15/1982
A027552	JULIANA MUTUAL WATER COMPANY	Permitted	10/15/1982
A027599	DEBRA BOTTOMS	Permitted	12/1/1982
A027623	DONALEE SHACKELFORD	Licensed	1/7/1983
A027625	EDWARD R KUHN	Permitted	1/10/1983
A027641	ANDREW PHIPPS	Licensed	1/28/1983
A027677	LAKE COUNTY NATURAL HEALTH LLC	Licensed	3/4/1983
A027699	STEVE STRICKLER	Permitted	4/1/1983

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A027729	AETNA SPRINGS RESORTS LLC	Licensed	4/26/1983
A027798	STEPHEN P GARRETT	Licensed	7/18/1983
A027799	STEPHEN P GARRETT	Licensed	7/18/1983
A027813	KOKO NOR CORPORATION	Licensed	7/28/1983
A027852	PEJU PROVINCE WINERY	Permitted	8/29/1983
A027853	JULIANA MUTUAL WATER COMPANY	Permitted	8/29/1983
A027863	PV JUNCTION	Licensed	9/12/1983
A027934	BENMORE VALLEY RANCH LLC	Permitted	12/20/1983
A027973	HELEN S MUNK	Licensed	2/8/1984
A028193	ANDERSON ZACK & JEANNINE VAN TRUSTORS	Licensed	7/17/1984
A028414	KRISTI L TRIPP	Licensed	4/1/1985
A028415	SCOTT VALLEY ORGANICS	Licensed	4/1/1985
A028416	WILLIAM J LUNAS	Licensed	4/1/1985
A028417	ANDRES STEVEN REY	Licensed	5/2/1985
A028447	HUNT RYD LLC	Permitted	5/2/1985,
A028601	TERRE VERMEILLE, A CALIFORNIA GENERAL PARTNERSHIP	Licensed	10/24/1985
A028722	SUTTER HOME VINEYARDS	Licensed	1/14/1986
A028723	HINE RANCH LLC	Licensed	1/14/1986
A028825	DAVID E ORTIZ	Licensed	4/8/1986
A028891	Mark S Coffman	Licensed	9/8/1986
A028948	RECURSO LLC	Permitted	12/5/1986
A029107	SAMUEL EAKLE	Licensed	9/10/1987
A029148	Nanette Wheeler	Licensed	12/7/1987
A029155	STEVE STRICKLER	Licensed	12/17/1987
A029156	ANDERSON SPRINGS COMMUNITY SERVICE DISTRICT	Licensed	12/17/1987
A029211	STEPHEN J. MARCUSSEN	Permitted	3/18/1988
A029224	POPE VALLEY RANCHING COMPANY LLC	Licensed	4/14/1988
A029240	PARADISE VALLEY RANCH COMPANY, LLC	Permitted	5/5/1988
A029258	JULIANA MUTUAL WATER COMPANY	Licensed	6/1/1988
A029259	CHRISTOPHER JOSEPH HARNEY AND CHRISTINA	Licensed	6/1/1988

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	MARINO HARNEY REVOCABLE LIVING TRUST		
A029286	COBB CREEK HOLDINGS LLC	Licensed	6/28/1988
A029308	Langtry Farms, LLC	Licensed	7/27/1988
A029323	JOHN D KLUGE	Permitted	8/22/1988
A029324	JOHN D KLUGE	Permitted	8/22/1988
A029355	JAMES LUNDY	Permitted	10/17/1988
A029356	JAMES LUNDY	Permitted	10/17/1988
A029464	KENNETH R ELSTON	Permitted	4/11/1989
A029482	JAMES PATTERSON	Licensed	5/1/1989
A029483	STEVEN W BROWN	Licensed	5/1/1989
A029484	PEGGY DICKSON	Licensed	5/1/1989
A029485	Judith Whitney	Licensed	5/1/1989
A029513	PEGGY DICKSON	Licensed	7/5/1989
A029514	WW ACQUISITIONS	Licensed	7/5/1989
A029533	GAMBLE RANCH LLC	Permitted	7/27/1989
A029542	STEPHEN PRATT	Permitted	8/18/1989
A029607	USIBELLI VINEYARDS, INC	Permitted	11/1/1989
A029633	EL RANCHO PROPERTIES INC	Licensed	12/27/1989
A029686	CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE	Permitted	3/13/1990
A029687	WW ACQUISITION COMPANY LLC	Permitted	2/23/1990
A029747	WILLIAM HARDIN TRUST	Permitted	5/21/1990
A029871	CHARLOTTE TEMPLE	Permitted	12/3/1990
A029878	BENMORE VALLEY RANCH LLC	Permitted	12/17/1990
A029879	BENMORE VALLEY RANCH LLC	Permitted	12/17/1990
A029882	CLAIRE M CAMP	Permitted	12/17/1990
A029972	GALLO VINEYARDS INC	Permitted	7/1/1991
A030078	RICHARD C BRAND	Permitted	3/18/1992
A030118	2003 MARINO FAMILY TRUST AND CHRISTOPHER JOSEPH HARNEY AND CHRISTINA MARINO HARNEY REV LIVING TRUST	Permitted	4/28/1992
A030119B	ANDERSON SPRINGS COMMUNITY SERVICE DISTRICT	Permitted	4/28/1992
A030144	SAGE CANYON LLC	Permitted	6/15/1992

TABLE B.1-14. PUTAH CREEK AND YCFCWCD HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
A030232	MYSTERIOUS VALLEY RANCH LLC	Permitted	3/8/1993
A030322	RONALD MARTIN LO REAUX	Permitted	12/2/1993
A030323	GAMBLE RANCH LLC	Permitted	12/2/1993
A030384	Mark F Gaffney	Permitted	6/22/1994
A030495	JOBST E JESSE	Permitted	10/5/1995
A030496	BERGLUND FAMILY VINEYARDS	Permitted	10/5/1995
A030546	SUE P BELCHER	Permitted	3/21/1996
A030974	PATRICK W THOMPSON	Permitted	8/30/1999
A030976	DIMITRY TEN	Permitted	7/9/1999
A031452	ASELLUS SONOMA LLC	Permitted	10/8/1998
C000010	THOMAS HARDING	Stockpond	1/1/1968
C000011	EL RANCHO MOTEL INC	Stockpond	1/1/1966
C000044	JOHN E AHMANN	Stockpond	1/1/1967
C000109	POPE VALLEY RANCHING COMPANY LLC	Stockpond	1/1/1968
C000214	JAMES HIGGINBOTTOM	Stockpond	1/1/1967
C000261	2003 MARINO FAMILY TRUST AND CHRISTOPHER JOSEPH HARNEY AND CHRISTINA MARINO HARNEY REV LIVING TRUST	Stockpond	1/1/1956
C000262	JOHN R CARLSON	Stockpond	1/1/1956
C000263	PACIFIC LIVESTOCK INC	Stockpond	1/1/1960
C000264	JOHN E AHMANN	Stockpond	1/1/1951
C000265	CHARLES J LAMP	Stockpond	1/1/1946
C000266	DOMINGO NINO CRUZ	Stockpond	1/1/1951
C000267	WADE HANSON	Stockpond	1/1/1951
C000268	KEVIN W HARPER	Stockpond	1/1/1951
C000269	CLINT HALL	Stockpond	1/1/1950
C000270	FRANK BORGES JR	Stockpond	1/1/1950
C000271	CHRIS CARLISLE	Stockpond	1/1/1950
C000272	CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE	Stockpond	1/1/1950
C000273	WILLIAM R HARBOUR III	Stockpond	1/1/1961
C000274	ASELLUS SONOMA LLC	Stockpond	1/1/1967
C000275	EDWARD J AND EMILY M FREITAS - TRUSTEES	Stockpond	1/1/1960
C000276	PACIFIC LIVESTOCK INC	Stockpond	1/1/1960

TABLE B.1-14. PUTAH CREEK AND YCFCWCD HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
C000277	ELIZABETH KERSHAW	Stockpond	1/1/1960
C000278	Gunther Stein	Stockpond	1/1/1960
C000878	GERARD PARDUCCI	Stockpond	1/1/1954
C000959	JOHN E AHMANN	Stockpond	1/1/1953
C000960	DOUGLAS CROSS	Stockpond	1/1/1953
C001081	BARRY KESSEY	Stockpond	1/1/1966
C001082	CARLSON FAMILY TRUST	Stockpond	1/1/1966
C001429	NORDES E RODRIGUEZ	Stockpond	1/1/1962
C001430	DMITRY BELOTSERKOVSKY	Stockpond	1/1/1952
C001431	CHRISTIANSEN FAMILY TRUST	Stockpond	1/1/1948
C001432	STEFAN GIUSTINO	Stockpond	1/1/1948
C001433	SERVANDO GARCIA	Stockpond	1/1/1948
C001434	COBB CREEK HOLDINGS LLC	Stockpond	1/1/1961
C001435	CLINTON R PRIDMORE	Stockpond	1/1/1965
C001436	THE LAND TRUST OF NAPA COUNTY	Stockpond	1/1/1940
C001437	THE LAND TRUST OF NAPA COUNTY	Stockpond	1/1/1960
C001438	Dennis Alumbaugh	Stockpond	1/1/1960
C001439	KENNETH P SHYVERS	Stockpond	1/1/1925
C001440	PETER F KILKUS	Stockpond	1/1/1964
C001441	DMITRY BELOTSERKOVSKY	Stockpond	1/1/1964
C001442	UNIVERSITY OF CALIFORNIA NATURAL RESERVE SYSTEM	Stockpond	1/1/1963
C001443	THE LAND TRUST OF NAPA COUNTY	Stockpond	1/1/1968
C001444	THE LAND TRUST OF NAPA COUNTY	Stockpond	1/1/1963
C001445	ERIC WILMS	Stockpond	1/1/1963
C001446	CECIL L BROWN	Stockpond	1/1/1968
C001447	JACK PETERS TRUST	Stockpond	1/1/1964
C001448	JULIANA MUTUAL WATER COMPANY	Stockpond	1/1/1963
C001449	JULIANA MUTUAL WATER COMPANY	Stockpond	1/1/1964
C001450	JULIANA MUTUAL WATER COMPANY	Stockpond	1/1/1964
C001451	JULIANA MUTUAL WATER COMPANY	Stockpond	1/1/1968

TABLE B.1-14. PUTAH CREEK AND YCFCWCD HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
C001452	JULIANA MUTUAL WATER COMPANY	Stockpond	1/1/1964
C001453	JULIANA MUTUAL WATER COMPANY	Stockpond	1/1/1968
C001454	JULIANA MUTUAL WATER COMPANY	Stockpond	1/1/1968
C001455	JULIANA MUTUAL WATER COMPANY	Stockpond	1/1/1968
C001739	Langtry Farms, LLC	Stockpond	1/1/1963
C001740	Langtry Farms, LLC	Stockpond	1/1/1940
C001741	Langtry Farms, LLC	Stockpond	1/1/1940
C001742	Langtry Farms, LLC	Stockpond	1/1/1940
C001743	Langtry Farms, LLC	Stockpond	1/1/1940
C001744	Langtry Farms, LLC	Stockpond	1/1/1968
C002057	Langtry Farms, LLC	Stockpond	1/1/1949
C002058	Langtry Farms, LLC	Stockpond	1/1/1951
C002059	Langtry Farms, LLC	Stockpond	1/1/1950
C002060	Langtry Farms, LLC	Stockpond	1/1/1949
C002061	WILL GONSALVES	Stockpond	1/1/1946
C002062	JAMES H BREEDEN	Stockpond	1/1/1948
C002069	JAMES H BREEDEN	Stockpond	1/1/1940
C003128	THE LAND TRUST OF NAPA COUNTY	Stockpond	1/1/1958
C003129	THE LAND TRUST OF NAPA COUNTY	Stockpond	1/1/1950
C003130	WILLIAM HARDIN TRUST	Stockpond	1/1/1951
C003131	WILLIAM HARDIN TRUST	Stockpond	1/1/1958
C003132	WILLIAM HARDIN TRUST	Stockpond	1/1/1958
C003285	WILLIAM HARDIN TRUST	Stockpond	1/1/1963
C003286	WILLIAM HARDIN TRUST	Stockpond	1/1/1961
C003288	WILLIAM HARDIN TRUST	Stockpond	1/1/1955
C003292	WILLIAM HARDIN TRUST	Stockpond	1/1/1954
C003293	WILLIAM HARDIN TRUST	Stockpond	1/1/1940
C003417	WILLIAM HARDIN TRUST	Stockpond	1/1/1959
C003418	WILLIAM HARDIN TRUST	Stockpond	1/1/1966
C003419	ALAN HARDIN TRUST	Stockpond	1/1/1966
C003420	HUBERT PAUL LAUFFS	Stockpond	1/1/1957
C003421	HUBERT PAUL LAUFFS	Stockpond	1/1/1968
C003422	HUBERT PAUL LAUFFS	Stockpond	1/1/1968

TABLE B.1-14. PUTAH CREEK AND YCFCWCD HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	WATER RIGHT HOLDER	WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)	PRIORITY DATE
C003423	HUBERT PAUL LAUFFS	Stockpond	1/1/1968
C003425	HUBERT PAUL LAUFFS	Stockpond	1/1/1954
C003426	HUBERT PAUL LAUFFS	Stockpond	1/1/1954
C003427	HUBERT PAUL LAUFFS	Stockpond	1/1/1967
C003487	HUBERT PAUL LAUFFS	Stockpond	5/23/1980
C003488	HUBERT PAUL LAUFFS	Stockpond	5/23/1980
C003489	HUBERT PAUL LAUFFS	Stockpond	5/23/1980
C003490	HUBERT PAUL LAUFFS	Stockpond	5/23/1980
C003604	HUBERT PAUL LAUFFS	Stockpond	1/1/1949
C003607	HUBERT PAUL LAUFFS	Stockpond	1/1/1955
C003652	HUBERT PAUL LAUFFS	Stockpond	1/1/1967
C003653	HUBERT PAUL LAUFFS	Stockpond	1/1/1967
C003654	ANGELO TUVO	Stockpond	29964
C003921	HUBERT PAUL LAUFFS	Stockpond	1/1/1966
C003922	ASBILL VALLEY RANCH	Stockpond	1/1/1966
C003923	ASBILL VALLEY RANCH	Stockpond	1/1/1966
C003924	ASBILL VALLEY RANCH	Stockpond	1/1/1966
C003925	ASBILL VALLEY RANCH	Stockpond	1/1/1966
C003926	ASBILL VALLEY RANCH	Stockpond	1/1/1966
C003928	ASBILL VALLEY RANCH	Stockpond	1/1/1967
C003929	GUNN RANCH	Stockpond	1/1/1963
C003930	GUNN RANCH	Stockpond	3/8/1989
C003931	GUNN RANCH	Stockpond	1/1/1957
C003932	GUNN RANCH	Stockpond	1/1/1965
C003933	GUNN RANCH	Stockpond	1/1/1967
C003934	GUNN RANCH	Stockpond	1/1/1967
C003935	BERNICE L MEADE	Stockpond	1/1/1965
C003936	CONIT ESTABLISHMENT	Stockpond	1/1/1967
C003937	PACIFIC LIVESTOCK INC	Stockpond	1/1/1967
C003938	CUMAL LTD	Stockpond	1/1/1963
C003939	PACIFIC LIVESTOCK INC	Stockpond	1/1/1967
C003940	PACIFIC LIVESTOCK INC	Stockpond	1/1/1967
C003941	MARJORIE J CARLSON	Stockpond	1/1/1967
C003942	HERBERT J GREEN	Stockpond	1/1/1967
C003943	GIL PRIDMORE	Stockpond	1/1/1959
C003944	ROLAND CERIANI	Stockpond	1/1/1950
C003945	LAURA M ARROYO	Stockpond	1/1/1964
C003946	RICHARD P BARTHELEMY	Stockpond	1/1/1963

TABLE B.1-14. PUTAH CREEK AND YCFCWCD HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
C003947	JULIE CANDELARIO	Stockpond	1/1/1957
C003948	JULIE CANDELARIO	Stockpond	1/1/1965
C003949	GABRIELA MARTINEZ VASQUEZ	Stockpond	1/1/1968
C003951	REGENTS OF THE UNIVERSITY OF CALIFORNIA	Stockpond	1/1/1967
C003952	AETNA SPRINGS RESORTS LLC	Stockpond	1/1/1960
C003953	TOM RIDLEY	Stockpond	1/1/1963
C003954	E A POE	Stockpond	1/1/1963
C003955	E A POE	Stockpond	1/1/1967
C003956	DEBRA BOTTOMS	Stockpond	1/1/1965
C003957	GEORGE F GAMBLE	Stockpond	1/1/1965
C004005	DONLON J ARQUES	Stockpond	1/1/1957
C004006	Daniel Edmonds-Waters	Stockpond	1/1/1957
C004007	Daniel Edmonds-Waters	Stockpond	1/1/1957
C004008	Daniel Edmonds-Waters	Stockpond	1/1/1957
C004009	DONALEE SHACKELFORD	Stockpond	1/1/1957
C004010	HENRY G LESCHER	Stockpond	1/1/1957
C004011	PEGGY DICKSON	Stockpond	1/1/1957
C004026	PEGGY DICKSON	Stockpond	1/1/1954
C004027	JOHN E AHMANN	Stockpond	1/1/1968
C004028	JOHN E AHMANN	Stockpond	1/1/1960
C004034	JOHN E AHMANN	Stockpond	1/1/1962
C004058	JOHN E AHMANN	Stockpond	1/1/1946
C004059	JOHN E AHMANN	Stockpond	1/1/1965
C004060	CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE	Stockpond	1/1/1968
C004061	HOMESTAKE MINING COMPANY OF CALIFORNIA	Stockpond	1/1/1968
C004093	HOMESTAKE MINING COMPANY OF CALIFORNIA	Stockpond	1/1/1958
C004094	GEORGE F GAMBLE	Stockpond	1/1/1958
C004515	CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE	Stockpond	1/1/1950
C004569	CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE	Stockpond	1/1/1950
C004576	CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE	Stockpond	1/1/1966
C004577	HOMESTAKE MINING COMPANY OF CALIFORNIA	Stockpond	1/1/1948

TABLE B.1-14. PUTAH CREEK AND YCFCWCD HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
C004590	CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE	Stockpond	1/1/1966
C005076	CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE	Stockpond	1/1/1966
C005077	CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE	Stockpond	1/1/1966
C005078	CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE	Stockpond	1/1/1966
C005366	CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE	Stockpond	1/1/1961
C005367	CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE	Stockpond	1/1/1961
D029793	CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE	Registration Domestic	8/8/1990
D029796	CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE	Registration Domestic	8/14/1990
D030020	CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE	Registration Domestic	10/22/1991
D030030	CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE	Registration Domestic	11/4/1991
D030031	CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE	Registration Domestic	11/4/1991
D030116	CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE	Registration Domestic	4/27/1992
D030158	CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE	Registration Domestic	7/13/1992
D030201	GAMBLE RANCH LLC	Registration Domestic	12/10/1992
D030213	GEORGE F GAMBLE	Registration Domestic	1/25/1993
D030306	GAMBLE RANCH LLC	Registration Domestic	11/23/1993
D030347	GEORGE F GAMBLE	Registration Domestic	4/8/1994
D030403	GAMBLE RANCH LLC	Registration Domestic	9/6/1994
D030425	GEORGE F GAMBLE	Registration Domestic	1/20/1995
D030434	GAMBLE RANCH LLC	Registration Domestic	3/13/1995
D030435	GEORGE F GAMBLE	Registration Domestic	3/13/1995
D030575	ASELLUS SONOMA LLC	Registration Domestic	9/17/1996
D030589	ASELLUS SONOMA LLC	Registration Domestic	1/31/1997
D030625	ASELLUS SONOMA LLC	Registration Domestic	6/17/1997
D030665	ASELLUS SONOMA LLC	Registration Domestic	11/19/1997
D030669	ASELLUS SONOMA LLC	Registration Domestic	10/15/1997
D030729	ASELLUS SONOMA LLC	Registration Domestic	7/20/1998
D030833	ASELLUS SONOMA LLC	Registration Domestic	2/18/1999

TABLE B.1-14. PUTAH CREEK AND YCFCWCD HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
D030901	Usibelli Vineyards Inc	Registration Domestic	2/26/1999
D031863	Usibelli Vineyards Inc	Registration Domestic	11/3/2010
D032203	Usibelli Vineyards Inc	Registration Domestic	10/2/2013
D032205	LOLA L KOELLING	Registration Domestic	10/11/2013
D032293	THOMAS W GOMEZ	Registration Domestic	8/11/2014
L032065	THOMAS W GOMEZ	Registration Livestock	5/15/2013
L032066	THOMAS W GOMEZ	Registration Livestock	5/15/2013
L032173	KARL G VANORSDOL	Registration Livestock	7/26/2013
L032174	NORBERT J DICKMAN	Registration Livestock	7/26/2013
S000522	DAVID R FISCHER	Riparian	1/1/1895
S000608	YCFC&WCD	Riparian	1/1/1856
S000609	YCFC&WCD	Riparian	1/1/1859
S001063	YCFC&WCD	Riparian	1/1/1859
S001599	ETTAWA SPRINGS LLC	Riparian	1/1/1890
S004972	PAUL H DAVIS	Riparian	1/1/1913
S004994	PAUL H DAVIS	Riparian	1/1/1913
S010328	STEVE BIANCHI JR	Riparian	1/1/1906
S012499	REDS MOUNTAIN LLC	Riparian	1/1/1906
S012500	REDS MOUNTAIN LLC	Riparian	1/1/1906
S013478	MARGARET WAGNER	Riparian	1/1/1930
S014407	LAKE RANCH HOLDINGS LLC	Riparian	1/1/1883
S014986	YCFC&WCD	Riparian	1/1/1914
S014987	YCFC&WCD	Riparian	1/1/1985
S015687	LUCHETTI CHILDREN'S TRUST	Riparian	1/1/1870
S016899	Rumsey Water Users Association	Riparian	1/1/1874
S021469	HELEN HEIBEL GHIRINGHELLI NELSON	Riparian	1/1/1885
S024478	Solano County Water Agency	Riparian	1/1/1908
S024479	Solano County Water Agency	Riparian	1/1/1908
S028234	REYNOLDS SYSTEMS INC	Riparian	1/1/1913

Table B.1-15. Yuba River HRL Water Rights

TABLE B.1-15. YUBA RIVER HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
A000481	ORIGINAL SIXTEEN TO ONE MINE, INC	Licensed	7/31/1924
A001193	ORIGINAL SIXTEEN TO ONE MINE, INC	Licensed	2/25/1919
A002197	Yuba Water Agency	Licensed	2/11/1921
A003026	Yuba Water Agency	Licensed	9/7/1922
A003332	FAR VIEW ENTERPRISES INC	Licensed	3/27/1923
A004494	LAKE VERA MUTUAL WATER COMPANY	Licensed	3/6/1925
A005004	Yuba Water Agency	Licensed	4/30/1926
A005631	Yuba Water Agency	Licensed	7/30/1927
A005632	Yuba Water Agency	Permitted	7/30/1927
A005677	BRADLEY T SHARPE	Licensed	9/7/1927
A005719	LAKE VERA MUTUAL WATER COMPANY	Licensed	10/13/1927
A005880	COUGHLAN FAMILY RANCH	Licensed	4/16/1928
A006099	STACIA COVA	Licensed	10/19/1928
A007217	FLORENCE B VON PLATEN	Licensed	3/28/1932
A008343	RAINBOW LODGE LLC	Licensed	5/25/1935
A008794	Yuba Water Agency	Licensed	9/21/1936
A008984	RUBY DEVELOPMENT COMPANY	Licensed	6/2/1937
A008986	Browns Valley Irrigation District	Licensed	6/4/1937
A009516	Yuba Water Agency	Licensed	3/1/1939
A009617	JOHN PONTA	Licensed	9/26/1944
A009827	DOWNIEVILLE PUBLIC UTILITY DISTRICT	Licensed	5/15/2001
A009899	Hallwood Irrigation Company	Licensed	5/16/1940
A009927	Cordua Irrigation District	Licensed	6/10/1940
A010181	PAUL LADEIRA	Licensed	4/9/1941
A010282	Yuba Water Agency	Licensed	9/12/1941
A010839	Jana Burgess-Henry	Licensed	7/15/1944
A010856	TOM D HARBERT	Licensed	3/14/2001
A010980	MIA HOLLAND NARELL	Licensed	2/13/1945
A011106	THOMAS DE JONGHE	Licensed	7/13/1945
A011120	SIERRA WATER RESOURCES INC	Licensed	7/27/1945

TABLE B.1-15. YUBA RIVER HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
A011501	SIERRA WATER RESOURCES INC	Licensed	8/7/1946
A011596	YUBA INVESTMENT COMPANY	Licensed	10/28/1946
A012118	PAUL LADEIRA	Licensed	10/3/1947
A012154	BOB ROLAND	Licensed	11/14/1947
A012371	Cordua Irrigation District	Licensed	3/2/1948
A012700	PATRICIA L KEMBERLING-RIGGS	Licensed	9/15/1948
A013130	Browns Valley Irrigation District	Licensed	6/2/1949
A013399	BOY SCOUTS OF AMERICA, MARIN COUNCIL	Licensed	10/13/1949
A013594	WILLIAM D. SIPPL AND HANNAH MAE SIPPL, TRUSTEES OF THE WILLIAM D. AND HANNAH MAE SIPPL REVOCABLE TRU	Licensed	2/20/1950
A013689	OSHA B READER	Licensed	4/14/1950
A013772	WILLIAM D. SIPPL AND HANNAH MAE SIPPL, TRUSTEES OF THE WILLIAM D. AND HANNAH MAE SIPPL REVOCABLE TRU	Licensed	6/5/1950
A013873	Browns Valley Irrigation District	Licensed	7/31/1950
A013959	PRAIRIE CREEK RANCH 1	Licensed	9/21/1950
A014371	MICHELE SMITH-BARKER	Licensed	6/27/1951
A014930	TRI-LODGE ASSOCIATION	Licensed	7/28/1952
A014946	PAUL LADEIRA	Licensed	7/31/1952
A014951	RIO DEL ORO FARMS NO 2	Permitted	8/6/1952
A015204	Yuba Water Agency	Permitted	2/20/1953
A015205	Yuba Water Agency	Licensed	2/20/1953
A015542	LYNNE FLORENCE BUKENHOFER	Licensed	9/17/1953
A015563	Yuba Water Agency	Permitted	10/2/1953
A015574	Yuba Water Agency	Permitted	10/9/1953
A016151	FAR VIEW ENTERPRISES INC	Licensed	11/23/1954
A016725	ALLEGHANY COUNTY WATER DISTRICT	Licensed	4/18/2002
A016780	DENNIS G HEANEY	Licensed	6/19/1991
A016823	MANOJ DOSHI	Licensed	1/9/1956
A016874	CAROL B DARDICK	Licensed	1/31/1956

TABLE B.1-15. YUBA RIVER HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
A017285	CYNTHIA LYNN WELCH	Licensed	9/20/1956
A017407	GARY W DE MAR	Licensed	12/26/1956
A018176	PHILIP PERSONENI	Licensed	6/10/1958
A018252	SEGHEZZI INC	Licensed	3/20/1964
A018565	OLIVER G MILHOUS	Licensed	3/3/1959
A018663	THOMAS DE JONGHE	Licensed	4/24/1959
A018914	Katherine Greene	Licensed	8/14/1959
A019448	RUTH A SPIERS LATONDRESSE	Licensed	5/24/1960
A019647	JON E CHRISTENSEN	Licensed	8/4/1960
A019723	ERNEST LOCATELLI	Licensed	8/31/1960
A020263	EKDANTA INVESTMENTS LLC	Licensed	6/13/1961
A020291	MARLAINA STEWART	Licensed	5/12/1972
A020521	GEOSHIP	Licensed	12/11/1961
A021079	THE KRUMP LIMITED PARTNERSHIP	Licensed	12/11/1962
A021251	MICHAEL CIAFARDONI JR	Licensed	4/22/1963
A021554	CHARLES HOELTER	Licensed	11/27/1963
A021598	EUGENIA RAMSTETTER	Licensed	1/15/1964
A021672	WILLIAM ADASIEWICZ	Licensed	4/26/2024
A021727	SHERMAN D WINSHIP	Licensed	4/7/1964
A022395	REGULAR BAPTIST CAMP INCORPORATED	Licensed	2/18/1966
A022419	WASHINGTON COUNTY WATER DISTRICT	Licensed	3/11/1966
A022566	DIANE WHARFF	Licensed	4/14/1972
A022820	BOGLE VINEYARDS, INC	Licensed	6/15/1967
A023082	RUSSELL S CORKUM	Licensed	7/10/1968
A023315	KINGVALE PROPERTY OWNERS & WATER USERS INC	Licensed	11/27/2012
A023535	MARK LAISURE	Licensed	6/24/1970
A023757	Browns Valley Irrigation District	Permitted	4/12/1971
A023778	SIERRA WATER RESOURCES INC	Permitted	5/4/1971
A023795	MAPLE GROVE MUTUAL WATER COMPANY	Permitted	6/2/1971
A023893	MAGGIE PHILIPSBORN	Licensed	10/7/1971
A024530	DANIEL CAROTHERS	Licensed	1/21/1974
A024824	ANDERSON AND ANDERSON INC	Licensed	6/25/1975

TABLE B.1-15. YUBA RIVER HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
A024857	LOUIS CLIFFORD LESTER SR	Licensed	8/14/1975
A025086	ANANDA CHURCH OF SELF REALIZATION	Licensed	6/16/1976
A025105	DAVID W MARKS	Licensed	7/19/1976
A025503	JOE W ALEXANDER	Licensed	9/12/1977
A025584	PAUL JORDAN	Licensed	11/29/1977
A025719	JEANETTE M HOLLAND	Licensed	4/17/1978
A025865	FELLOWSHIP OF FRIENDS, INC	Licensed	7/17/2003
A025997	GARY YARBOROUGH	Licensed	5/16/1979
A026067	STARDUSTER LAKE ASSOCIATION	Permitted	8/17/1979
A026074	LA PORTE PINES COUNTRY CLUB	Permitted	8/24/1979
A026522	JAMES NELSON DEGLANDON	Licensed	9/11/1980
A026605	LINDA BIRGE	Licensed	1/5/2011
A026619	SALMON CREEK HYDROELECTRIC COMPANY, LLC	Licensed	11/13/1980
A027000	MAURICE ALTSHULER	Licensed	5/28/2009
A027042	FELLOWSHIP OF FRIENDS, INC	Licensed	7/17/2003
A027043	FELLOWSHIP OF FRIENDS, INC	Permitted	7/17/2003
A027178	EIF Haypress, LLC	Permitted	1/14/1982
A027273	LA PORTE PINES COUNTRY CLUB	Permitted	9/17/2002
A027302	Browns Valley Irrigation District	Permitted	4/27/1982
A027542	RICHARDS LAND & CATTLE CO	Licensed	9/30/1982
A027603	RICHARDS LAND & CATTLE CO	Permitted	12/3/1982
A028104	EIF Haypress, LLC	Permitted	4/5/1984
A028147	GREENE ACRES PROPERTY OWNERS ASSOCIATION	Permitted	6/4/1984
A028187	SUSAN B MURPHY, TRUSTEE	Permitted	7/10/1984
A028615	DIANA K. CALLAHAN	Permitted	11/8/1985
A028616	DIANA K. CALLAHAN	Permitted	11/8/1985
A028680	ANANDA CHURCH OF SELF REALIZATION	Permitted	12/24/1985
A028988	COLTON CRUMP	Permitted	3/16/1987
A029837	HYDRO SIERRA ENERGY LLC	Permitted	10/11/1990
A030074	SUGAR BOWL CORPORATION	Permitted	6/15/1995
A030234	AUBURN SKI CLUB INC	Permitted	3/15/1993

TABLE B.1-15. YUBA RIVER HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
A030332	DONNER SUMMIT PUBLIC UTILITY DISTRICT	Permitted	2/8/1994
A030359	SUGAR BOWL CORPORATION	Permitted	6/15/1995
S000012	GLEN HAUBL	Pre-1914 Appropriative	1/1/1898
S000013	GLEN HAUBL	Pre-1914 Appropriative	1/1/1898
S000034	JASON DANIELSON	Pre-1914 Appropriative	1/1/1896
S000315	SUN PACIFIC FARMING	Riparian	9/21/1966
S000316	SUN PACIFIC FARMING	Riparian	9/21/1966
S000317	SUN PACIFIC FARMING	Riparian	9/21/1966
S004707	Yuba Water Agency	Pre-1914 Appropriative	1/1/1901
S007708	QUINCO CORP	Riparian	1/1/1974
S007791	Darice Harlan	Pre-1914 Appropriative	1/1/1876
S008312	KATHERINE SILLER TRUST JULY 2010	Riparian	5/6/1974
S008406	MARK J BAUMAN	Riparian	1/1/1974
S008426	DAVID C BREWER	Riparian	11/18/1974
S008493	GARY THOMPSON	Riparian, Pre-1914 Appropriative	1/1/1893
S009141	Goodyears Bar Water Company	Riparian, Pre-1914 Appropriative	1/1/1852
S009142	Everett A Smart	Riparian, Pre-1914 Appropriative	1/1/1852
S009317	WASHINGTON COUNTY WATER DISTRICT	Pre-1914 Appropriative	1/1/1856
S010261	THOMAS ZEHNDER	Pre-1914 Appropriative	1/1/1900
S010838	Yuba Water Agency	Riparian	NA
S011559	LEAH M STOCKER	Riparian, Pre-1914 Appropriative	1/1/1865
S012424	DIANE E PENDOLA	Riparian, Pre-1914 Appropriative	1/1/1900
S013110	SAN JUAN RIDGE COUNTY WATER DISTRICT	Pre-1914 Appropriative	1/1/1857
S015511	CAMPTONVILLE COMMUNITY SERVICES DISTRICT	Pre-1914 Appropriative	1/1/1848
S016332	Hallwood Irrigation Company	Pre-1914 Appropriative	1/1/1909
S020579	Browns Valley Irrigation District	Pre-1914 Appropriative	1/1/1890
S020580	Browns Valley Irrigation District	Pre-1914 Appropriative	1/1/1890
S020721	Browns Valley Irrigation District	Pre-1914 Appropriative	1/1/1890
S021673	SIERRA PACIFIC INDUSTRIES	Riparian	6/29/2010
S022513	Cordua Irrigation District	Riparian	1/1/1870

TABLE B.1-15. YUBA RIVER HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
S022514	Cordua Irrigation District	Riparian	1/1/1930
S022572	Cordua Irrigation District	Pre-1914 Appropriative	1/1/1870
S024912	DOWNIEVILLE PUBLIC UTILITY DISTRICT	Pre-1914 Appropriative	1/1/1849
S025547	DEMARTINI LAND CATTLE	Other	7/1/2016
S027787	Browns Valley Irrigation District	Pre-1914 Appropriative	1/1/1907

Table B.1-16. NID HRL Water Rights

TABLE B.1-16. NID HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
A001270	Nevada Irrigation District	Licensed	5/7/1919
A001614	Nevada Irrigation District	Permitted	1/8/1920
A001615	Nevada Irrigation District	Licensed	1/8/1920
A002275	Nevada Irrigation District	Licensed	3/25/1921
A002276	Nevada Irrigation District	Licensed	3/25/1921
A002372	Nevada Irrigation District	Licensed	6/3/1921
A002652A	Nevada Irrigation District	Licensed	11/22/1921
A002652B	Nevada Irrigation District	Permitted	11/22/1921
A004309	Nevada Irrigation District	Licensed	11/7/1924
A004310	Nevada Irrigation District	Licensed	11/7/1924
A005193	Nevada Irrigation District	Permitted	9/8/1926
A006229	Nevada Irrigation District	Licensed	3/26/1929
A006529	Nevada Irrigation District	Licensed	1/9/1930
A006701	Nevada Irrigation District	Licensed	6/16/1930
A006702	Nevada Irrigation District	Licensed	6/16/1930
A008177	Nevada Irrigation District	Licensed	11/27/1934
A008178	Nevada Irrigation District	Licensed	11/27/1934
A008179	Nevada Irrigation District	Licensed	11/27/1924
A008180	Nevada Irrigation District	Permitted	11/27/1924

TABLE B.1-16. NID HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
A015525	Nevada Irrigation District	Licensed	9/3/1953
A020017	Nevada Irrigation District	Permitted	3/6/1961
A020072	Nevada Irrigation District	Permitted	4/6/1961
A021151	Nevada Irrigation District	Licensed	2/5/1963
A021152	Nevada Irrigation District	Licensed	2/5/1963
A024983	Nevada Irrigation District	Permitted	1/29/1976
A026866	Nevada Irrigation District	Permitted	6/3/1981
A027132	Nevada Irrigation District	Permitted	12/3/1981
A027559	Nevada Irrigation District	Permitted	10/22/1982
S000965	Nevada Irrigation District	Pre-1914 Appropriative	1/1/1853
S000970	Nevada Irrigation District	Pre-1914 Appropriative	1/1/1853
S004716	Nevada Irrigation District	Pre-1914 Appropriative	1/1/1873
S004717	Nevada Irrigation District	Pre-1914 Appropriative	1/1/1859
S010591	Nevada Irrigation District	Riparian	NA
S010592	Nevada Irrigation District	Riparian	NA
S010794	Nevada Irrigation District	Pre-1914 Appropriative	1/1/1880
S012949	Nevada Irrigation District	Pre-1914 Appropriative	1/1/1851
S012950	Nevada Irrigation District	Pre-1914 Appropriative	1/1/1851
S012951	Nevada Irrigation District	Pre-1914 Appropriative	1/1/1851
S012952	Nevada Irrigation District	Pre-1914 Appropriative	1/1/1850
S012953	Nevada Irrigation District	Pre-1914 Appropriative	1/1/1851
S013330	Nevada Irrigation District	Pre-1914 Appropriative	1/1/1854
S013790	Nevada Irrigation District	Pre-1914 Appropriative	1/1/1853
S013791	Nevada Irrigation District	Pre-1914 Appropriative	1/1/1853
S013800	Nevada Irrigation District	Pre-1914 Appropriative	1/1/1872
S013801	Nevada Irrigation District	Pre-1914 Appropriative	1/1/1872
S013809	Nevada Irrigation District	Pre-1914 Appropriative	1/1/1853
S013926	Nevada Irrigation District	Pre-1914 Appropriative	1/1/1859
S013927	Nevada Irrigation District	Pre-1914 Appropriative	1/1/1874
S013928	Nevada Irrigation District	Pre-1914 Appropriative	1/1/1874
S014353	Nevada Irrigation District	Riparian, Pre-1914 Appropriative	1/1/1851
S014354	Nevada Irrigation District	Riparian, Pre-1914 Appropriative	1/1/1853
S014355	Nevada Irrigation District	Pre-1914 Appropriative	1/1/1853
S014356	Nevada Irrigation District	Pre-1914 Appropriative	1/1/1872
S016092	Nevada Irrigation District	Pre-1914 Appropriative	1/1/1859
S016095	Nevada Irrigation District	Riparian	NA

Table B.1-17. SSWD HRL Water Rights

TABLE B.1-17. SSWD HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
A010221	SOUTH SUTTER WATER DISTRICT	Licensed	6/13/1941
A014804	SOUTH SUTTER WATER DISTRICT	Licensed	5/12/1952
A026162	SOUTH SUTTER WATER DISTRICT	Permitted	1/4/1980
A014430	SOUTH SUTTER WATER DISTRICT	Licensed	8/15/1951
A022102	SOUTH SUTTER WATER DISTRICT	Licensed	4/12/1965
A023838	SOUTH SUTTER WATER DISTRICT	Licensed	8/11/1971
A003843	CAMP FAR WEST IRRIGATION DISTRICT	Licensed	2/11/1924
A000959	CAMP FAR WEST IRRIGATION DISTRICT	Licensed	4/1/1918
A002881	CAMP FAR WEST IRRIGATION DISTRICT	Licensed	6/13/1922
A010190	CAMP FAR WEST IRRIGATION DISTRICT	Licensed	4/28/1941

Table B.1-18. Forgone Exports HRL Water Rights

TABLE B.1-18. FORGONE EXPORTS HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
A001150	CALIF DEPT OF WATER RESOURCES	Licensed	10/28/1924
A003914	CALIF DEPT OF WATER RESOURCES	Licensed	4/8/1933
A004123	CALIF DEPT OF WATER RESOURCES	Licensed	11/28/1933

TABLE B.1-18. FORGONE EXPORTS HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
A004124	CALIF DEPT OF WATER RESOURCES	Licensed	12/21/1970
A005626	Bureau of Reclamation	Permitted	7/30/1927
A005941	Contra Costa Water District	Licensed	6/13/1928
A009363	Bureau of Reclamation	Permitted	8/2/1938
A009364	Bureau of Reclamation	Permitted	8/2/1938
A009366	Bureau of Reclamation	Permitted	8/2/1938
A009367	Bureau of Reclamation	Permitted	8/2/1938
A009368	Bureau of Reclamation	Permitted	8/2/1938
A010068B	CALIF DEPT OF WATER RESOURCES	Licensed	1/4/2010
A013371	Bureau of Reclamation	Permitted	10/1/1949
A014174	CALIF DEPT OF WATER RESOURCES	Licensed	2/26/1951
A014443	CALIF DEPT OF WATER RESOURCES	Permitted	8/24/1951
A014445A	CALIF DEPT OF WATER RESOURCES	Permitted	8/25/1951
A015764	Bureau of Reclamation	Permitted	3/8/1954
A016950	CALIF DEPT OF WATER RESOURCES	Permitted	3/20/1956
A016951	CALIF DEPT OF WATER RESOURCES	Licensed	3/20/1956
A016952	CALIF DEPT OF WATER RESOURCES	Licensed	3/20/1956
A017376	Bureau of Reclamation	Permitted	11/28/1956
A017512	CALIF DEPT OF WATER RESOURCES	Permitted	3/15/1957
A017514A	CALIF DEPT OF WATER RESOURCES	Permitted	3/15/1957
A018844	CALIF DEPT OF WATER RESOURCES	Licensed	7/6/1959
A020117	CALIF DEPT OF WATER RESOURCES	Licensed	5/9/1961
A020245	Contra Costa Water District	Permitted	6/5/1961
A021443	CALIF DEPT OF WATER RESOURCES	Permitted	8/23/1963
A022316	Bureau of Reclamation	Permitted	10/13/1965
A025516A	Contra Costa Water District	Permitted	9/30/1977
A027893	Contra Costa Water District	Permitted	9/28/1983

TABLE B.1-18. FORGONE EXPORTS HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
S006311	CALIF DEPT OF WATER RESOURCES	Riparian	1/1/1946
S016572	CALIF DEPT OF WATER RESOURCES	Pre-1914 Appropriative	1/1/1880
S016573	CALIF DEPT OF WATER RESOURCES	Pre-1914 Appropriative	
S016574	CALIF DEPT OF WATER RESOURCES	Pre-1914 Appropriative	
S017971	CALIF DEPT OF WATER RESOURCES	Riparian	NA
S019732	CALIF DEPT OF WATER RESOURCES	Riparian	NA
S020095	CALIF DEPT OF WATER RESOURCES	Riparian	NA
S020099	CALIF DEPT OF WATER RESOURCES	Riparian	1/1/2003
S020103	CALIF DEPT OF WATER RESOURCES	Pre-1914 Appropriative	
S020107	CALIF DEPT OF WATER RESOURCES	Pre-1914 Appropriative	
S020111	CALIF DEPT OF WATER RESOURCES	Riparian	1/1/2003
S020115	CALIF DEPT OF WATER RESOURCES	Riparian	1/1/2003
S020119	CALIF DEPT OF WATER RESOURCES	Pre-1914 Appropriative	
S020123	CALIF DEPT OF WATER RESOURCES	Pre-1914 Appropriative	
S020127	CALIF DEPT OF WATER RESOURCES	Riparian	NA
S020154	CALIF DEPT OF WATER RESOURCES	Riparian	NA
S020599	CALIF DEPT OF WATER RESOURCES	Riparian	NA
S021075	CALIF DEPT OF WATER RESOURCES	Riparian	1/1/1949
S021934	CALIF DEPT OF WATER RESOURCES	Riparian, Pre-1914 Appropriative	1/1/1930
S022019	CALIF DEPT OF WATER RESOURCES	Riparian	1/1/1906
S024288	CALIF DEPT OF WATER RESOURCES	Pre-1914 Appropriative	1/1/1914

TABLE B.1-18. FORGONE EXPORTS HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
S024289	CALIF DEPT OF WATER RESOURCES	Pre-1914 Appropriative	1/1/1914
S024290	CALIF DEPT OF WATER RESOURCES	Pre-1914 Appropriative	1/1/1914
S024291	CALIF DEPT OF WATER RESOURCES	Pre-1914 Appropriative	1/1/1914
S024292	CALIF DEPT OF WATER RESOURCES	Pre-1914 Appropriative	1/1/1914
S024293	CALIF DEPT OF WATER RESOURCES	Pre-1914 Appropriative	1/1/1914
S024294	CALIF DEPT OF WATER RESOURCES	Pre-1914 Appropriative	1/1/1914
S024295	CALIF DEPT OF WATER RESOURCES	Pre-1914 Appropriative	1/1/1914
S024296	CALIF DEPT OF WATER RESOURCES	Pre-1914 Appropriative	1/1/1914
S024297	CALIF DEPT OF WATER RESOURCES	Pre-1914 Appropriative	1/1/1914
S024298	CALIF DEPT OF WATER RESOURCES	Pre-1914 Appropriative	1/1/1914
S024299	CALIF DEPT OF WATER RESOURCES	Pre-1914 Appropriative	1/1/1914
S024300	CALIF DEPT OF WATER RESOURCES	Pre-1914 Appropriative	1/1/1914
S024301	CALIF DEPT OF WATER RESOURCES	Pre-1914 Appropriative	1/1/1914
S024302	CALIF DEPT OF WATER RESOURCES	Pre-1914 Appropriative	1/1/1914
S024303	CALIF DEPT OF WATER RESOURCES	Pre-1914 Appropriative	1/1/1914
S024304	CALIF DEPT OF WATER RESOURCES	Pre-1914 Appropriative	1/1/1914
S024305	CALIF DEPT OF WATER RESOURCES	Pre-1914 Appropriative	1/1/1914
S024306	CALIF DEPT OF WATER RESOURCES	Pre-1914 Appropriative	1/1/1914
S024307	CALIF DEPT OF WATER RESOURCES	Pre-1914 Appropriative	1/1/1914
S024308	CALIF DEPT OF WATER RESOURCES	Pre-1914 Appropriative	1/1/1914
S024309	CALIF DEPT OF WATER RESOURCES	Pre-1914 Appropriative	1/1/1914

TABLE B.1-18. FORGONE EXPORTS HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
S024310	CALIF DEPT OF WATER RESOURCES	Pre-1914 Appropriative	1/1/1914
S024311	CALIF DEPT OF WATER RESOURCES	Pre-1914 Appropriative	1/1/1914
S024312	CALIF DEPT OF WATER RESOURCES	Pre-1914 Appropriative	1/1/1914
S024313	CALIF DEPT OF WATER RESOURCES	Pre-1914 Appropriative	1/1/1914
S024314	CALIF DEPT OF WATER RESOURCES	Pre-1914 Appropriative	1/1/1914
S024315	CALIF DEPT OF WATER RESOURCES	Pre-1914 Appropriative	1/1/1914
S024316	CALIF DEPT OF WATER RESOURCES	Pre-1914 Appropriative	1/1/1914
S024317	CALIF DEPT OF WATER RESOURCES	Pre-1914 Appropriative	1/1/1914
S024318	CALIF DEPT OF WATER RESOURCES	Pre-1914 Appropriative	1/1/1914
S024319	CALIF DEPT OF WATER RESOURCES	Pre-1914 Appropriative	1/1/1914
S024320	CALIF DEPT OF WATER RESOURCES	Pre-1914 Appropriative	1/1/1914
S024321	CALIF DEPT OF WATER RESOURCES	Pre-1914 Appropriative	1/1/1914
S024322	CALIF DEPT OF WATER RESOURCES	Pre-1914 Appropriative	1/1/1914
S024323	CALIF DEPT OF WATER RESOURCES	Pre-1914 Appropriative	1/1/1914
S024324	CALIF DEPT OF WATER RESOURCES	Pre-1914 Appropriative	1/1/1914
S024325	CALIF DEPT OF WATER RESOURCES	Pre-1914 Appropriative	1/1/1914
S024326	CALIF DEPT OF WATER RESOURCES	Pre-1914 Appropriative	1/1/1914
S024327	CALIF DEPT OF WATER RESOURCES	Pre-1914 Appropriative	1/1/1914
S024328	CALIF DEPT OF WATER RESOURCES	Pre-1914 Appropriative	1/1/1914
S024329	CALIF DEPT OF WATER RESOURCES	Pre-1914 Appropriative	1/1/1914
S024330	CALIF DEPT OF WATER RESOURCES	Pre-1914 Appropriative	1/1/1914

TABLE B.1-18. FORGONE EXPORTS HRL WATER RIGHTS			
WATER RIGHT IDENTIFICATION NUMBER	**WATER RIGHT HOLDER**	**WATER RIGHT TYPE (LICENSED, PERMITTED, STOCKPOND, REGISTRATION DOMESTIC, FEDERAL CLAIMS, REGISTRATION LIVESTOCK, PRE-1914 APPROPRIATIVE, RIPARIAN)**	**PRIORITY DATE**
S024331	CALIF DEPT OF WATER RESOURCES	Pre-1914 Appropriative	1/1/1914
S024332	CALIF DEPT OF WATER RESOURCES	Pre-1914 Appropriative	1/1/1914
S024333	CALIF DEPT OF WATER RESOURCES	Pre-1914 Appropriative	1/1/1914
S024334	CALIF DEPT OF WATER RESOURCES	Pre-1914 Appropriative	1/1/1914
S025015	CALIF DEPT OF WATER RESOURCES	Riparian	NA
S027285	CALIF DEPT OF WATER RESOURCES	Riparian	1/1/2016
S027978	CALIF DEPT OF WATER RESOURCES	Riparian	NA
S027979	CALIF DEPT OF WATER RESOURCES	Riparian	NA
S028264	CALIF DEPT OF WATER RESOURCES	Riparian, Pre-1914 Appropriative	NA