

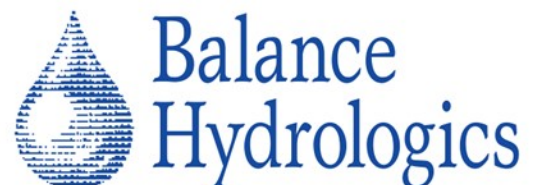


WATER AVAILABILITY ANALYSIS FOR THE EAST FORK RUSSIAN RIVER PERMIT APPLICATIONS A012919C AND A012920B

Prepared for:

Russian River Flood Control and
Water Conservation Improvement District
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A REPORT PREPARED FOR:

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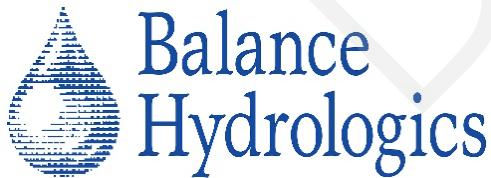
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1 INTRODUCTION

This report provides an overview of the methodology, data sources, and calculations used to assess water availability from the East Fork Russian River and impacts to downstream users associated with pending Applications A012919C and A012920B previously filed with the State Water Resources Control Board. These applications were submitted by the Russian River Flood Control & Water Conservation Improvement District ("District") and request additional diversion rights of 2,600 acre-feet and 3,400 acre-feet respectively as associated with the current rights currently held by the District under License 13898 (Application A0129919B, Permit 012947B).

The report format begins with a discussion of the methodology employed to simplify the analysis for a watershed as large as that of the Russian River. That is followed by discussion of how existing and pending rights were compiled, classified, and quantified. Subsequent sections of the report summarize the input and framework for the water supply analysis on the East Fork and the cumulative demand analysis for downstream reaches that would potentially be impacted by increased diversions of flows originating in the East Fork. The final section summarizes key results from the analysis that can be used in the decision-making process related to the District's request.

2 METHODOLOGY

2.1 Watershed Context

The additional rights being requested by the District pertain to water flowing into and stored in Lake Mendocino on the East Fork Russian River. The pending applications are associated with existing License 13898, which authorizes both direct diversion and storage of flows, noting that essentially all the points of diversion are downstream of the confluence with the West Fork along the mainstem Russian River within the service area of the District. A notable exception is for diversion for use by the Redwood Valley Water District, which is made directly from Lake Mendocino.

2.2 Points of Comparison

The Russian River watershed is large and includes numerous pre-1914, riparian, and appropriative rights that present challenges in developing a workable framework for conducting a water availability analysis. To simplify the calculational framework an important bounding assumption was made that still allows for meaningful conclusions regarding the availability of unallocated water.

This assumption is that impacts to rights holders diverting directly from the mainstem of the river from The Forks (confluence of the East Fork and West Fork somewhat downstream of Coyote Dam/Lake Mendocino) can be appropriately framed by completing a full cumulative demand analysis at three downstream points corresponding to the comprehensive unimpaired flow record prepared by the United States Geological Survey (see **Section 4**). Those points correspond to existing gaging stations at Hopland, Cloverdale, and Healdsburg respectively.

2.3 Minimum Flow Requirements

In other stream systems and per policy regarding instream flows, a water availability analysis should identify and discuss a number of aspects related to aquatic habitat and, particularly, fisheries concerns. However, the Russian River presents a case where such issues have already been extensively studied, leading to clearly defined minimum flow requirements through the year. Therefore, this water availability analysis will account for the demands resulting from the most recent biological opinion regarding fisheries under the assumption that those minimum flow requirements encompass the pertinent environmental concerns.

3 EXISTING AND PENDING RIGHTS

3.1 Record Compilation

All water rights reviewed and used in this WAA were sourced from the California Open Data Portal of the Electronic Water Rights Information Management System ("eWRIMS") managed by the State Water Resources Control Board. Both the eWRIMS Database System and the Web Mapping Application were utilized.

Rights for the overall study domain were first downloaded from the Open Data Portal after which fields not pertinent to the quantification of available supply and demand were removed. The data downloaded included all right types (Applications, Certifications, Registrations, Statements of Diversion and Use, etc.). Rights were then sorted into the various reaches (see **Section 5**) using Point of Diversion location data accessed from the Web Mapping Application. Rights for the East Fork of the Russian River included all those upstream of the confluence with the West Fork, which is located just downstream of Lake Mendocino.

3.2 Pre- and Post-1949 Rights

The existing right held by RRFC&WCID (Application A012919B) has a priority date of January 28, 1949. In case that priority date has bearing on the permitting of new rights, the overall data sets for each reach were further divided into two sets identified as pre-1949 and post-1949.

The pre-1949 datasets included all rights with an application date earlier than January 28, 1949, as well as all the Statements of Diversion and Use located within the respective reach regardless of date. Therefore, the pre-1949 datasets include all records of claimed riparian and pre-1914 rights. The post-1949 datasets were generated by removing the identified pre-1949 rights from the compiled list of all rights for each reach. It is important to note that all Applications were included in the post-1949 datasets regardless of the water right status (i.e., Permitted, Licensed, or Pending) along with all Certifications and Registrations.

3.3 Classification and Temporal Distribution of Demands

Post processing of each dataset included review of each record for consistency and units of measure. Specific data for each water right were downloaded from the eWRIMS database. In the case of the Statements of Diversion and Use, the available documents

were downloaded and manually reviewed, particularly where data on direct diversion rates and quantities was missing or ambiguous in the original data download. For those rights citing use for irrigation where data on actual use could not be found through review of the documents, the use was simply quantified using an assumed value of 2 acre-feet per acre based on the cited acreage under irrigation. For rights citing diversion to storage, the full volume of the storage reservoir was generally used unless more specific data could be found. Claimed riparian rights citing diversion to storage were typically retained in the analysis (though not technically an allowed riparian right), although efforts were made, where practical, to confirm such uses were not already included in pending applications for appropriative rights.

As expected, the various rights included a wide range of time of use for the water diverted or stored. To simplify the quantification of use by month, standard temporal demand distributions were used following the guidance in the Policy for Maintaining Instream Flows in Northern California Streams (2014). Therefore, all demands were classified into four groups including:

- Domestic. This group included right sub-types identified as domestic, municipal, and industrial. Demand was assumed to be uniformly distributed throughout the year. Actual monthly demands will therefore vary depending on the actual patterns of use, but overall annual demand reflects the aggregate demand. In the case of Applications, the cited face value amounts were used with few exceptions.
- Irrigation. This group included all right sub-types that were identified or confirmed to be primarily for irrigation. Demand was assumed to be uniformly distributed from April 1 to October 31 in the year. Many such rights have a more restrictive diversion period, and the distribution used will generally overestimate demand in April and May, but overall annual use will reflect the aggregate demand. Rights that were identified as for fire-protection and stockwatering were assigned to this group where other information could not be found, though most of these also cited diversion to storage (see below).
- Frost Protection. This group included those rights that were identified as for frost protection purposes. Demand was assumed to be confined to the month of March. This assumption likely overstates demand in March, while understating demand in other months, though aggregate annual demand will reflect all such rights.

- Storage. This group included all diversion to storage. Demand was assumed to be in the period from December 15 to March 31 and the total storage volume was used (i.e., the storage capacity was assumed to be dry on December 15). This temporal distribution likely understates demand in the early winter, but overall maximum annual demand reflects aggregate face value and claimed storage within each reach.

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4 WATER SUPPLY ASSESSMENT

The assessment of unallocated water supply for the District's pending applications included the entire East Fork of the Russian River upstream of Coyote Dam. Calculations were completed using a water balance framework on a monthly basis. A summary of the calculations by month is provided in **Appendix A** and in the Excel workbook files submitted in association with this report. Several components of the water balance are discussed below.

4.1 Unimpaired Flow Record

Total water available within the East Fork watershed prior to use by right holders was based on the unimpaired flow record data generated by the United States Geological Survey using the Basin Characterization Model (BCM) developed for the overall Russian River watershed and provided by Sonoma Water. Monthly average flow was calculated for the most recent 19-year period that includes Water Year 1999 through Water Year 2017. This range of water years was selected as representative of recent climate trends and reflects a period where the mean rainfall as measured at Ukiah, 37.1 inches, is very close to the long-term value at the same site, 37.3 inches.

The BCM model includes two sub-watersheds upstream of Coyote Dam, identified as Capella and Lake Mendocino in the dataset, and both of these were used to generate the total potential unimpaired inflow to Lake Mendocino, which is the proposed point of storage associated with the District's pending applications.

4.2 Inter-Basin Transfers via the Potter Valley Project

Actual water availability in the East Fork watershed is also impacted by diversions from the Eel River watershed via the Potter Valley Project ("PVP"). The future annual and seasonal pattern of PVP diversions, and even the continuation of such diversions, is currently clouded by the decision by Pacific Gas & Electric to not pursue relicensing of the Project. Therefore, the supply water balance calculations were completed in two forms, one with and one without PVP diversions.

For the calculations including PVP diversions, monthly diverted flow quantities observed in WY 2017 were used in lieu of actual diversions for Water Years 1999 to 2006 given the very significant reduction in diversions observed over recent years. This implies that the diverted PVP quantities, where used in the supply and demand impacts, are markedly

less than those that prevailed prior to Water Year 2006 and more nearly reflect the total observed diversions in Water Year 2017 of 67,000 acre-feet.

4.3 Demands in the East Fork Russian River Watershed

Demands of right holders at and upstream of Lake Mendocino were classified and distributed as discussed in **Section 3**. Summaries of the classification and quantification of those rights are included in **Appendix B**. A map of upstream points of diversion is included as **Figure 1**.

The separation of all rights into the pre-1949 and post-1949 groups allowed for separate water balance calculations based on a priority date of 1949. Therefore, there are separate calculation tracks based on pre-1949 rights and based on all rights (i.e., pre-1949 plus post-1949 including pending applications). Coupled with the with-PVP and without-PVP conditions, **Appendix A** includes water balances for the following scenarios:

- *Pre-1949 rights with PVP diversions*
- *All rights with PVP diversions*
- *Pre-1949 rights without PVP diversions*
- *All rights without PVP diversions*

It is worth noting that some of the East Fork rights pertain only to diverted flows associated with the PVP. Where that was identified to be the case, the respective rights were not included in the “without PVP” water balance calculations.

In all of the above cases, the total allowed direct diversion demand in the District's licensed Application A012919B was counted as occurring at Lake Mendocino (the point of storage) even though almost all the associated points of diversion are located downstream along the mainstem Russian River, a conservative assumption. Likewise, the total allowed direct diversions held by Sonoma Water under permitted Application A012919A were counted as occurring at Lake Mendocino.

Detailed routing of flows through Lake Mendocino was not part of the analysis, though typical losses from the lake due to evaporation and releases required per minimum flow maintenance criteria (see discussion in **Section 5**) were included. Months with excess net

WATER AVAILABILITY ANALYSIS FOR THE EAST FORK RUSSIAN RIVER
PERMIT APPLICATIONS A012919C AND A012920B

inflow to Lake Mendocino represent water available for storage under the storage rights included in the pertinent prior applications.

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5 CUMULATIVE DIVERSION ANALYSIS

The cumulative diversion analysis to assess the availability of flows at downstream points of diversion followed the overall water balance framework discussed previously carried out in a stepwise downstream manner. Details of the calculations for each of the points of comparison are included in **Appendix A**.

5.1 Unimpaired Flow Calculations

The unimpaired flow records for the reach above each point of comparison were taken from the same set of BCM model results that was used to assess water availability at Lake Mendocino. These were handled cumulatively in a downstream manner utilizing the results from the pertinent upstream point. For example, the unimpaired flow at the Hopland point of comparison was derived by adding the unimpaired flow data for the West Fork reach to that for the Hopland reach and the East Fork reach.¹ The latter reach included the demands as calculated in the availability of water at Lake Mendocino.

The overall framework, which assesses water availability both with and without diversions via the PVP, was maintained in the stepwise downstream calculations.

5.2 Downstream Demands

Demands used in the downstream analysis were classified and quantified as discussed in **Section 3**. Summaries of the pre-1949 and post-1949 rights are provided in **Appendices C, D, E, and F** for the West Fork, Hopland, Cloverdale, and Healdsburg reaches respectively. Mapping of the downstream points of diversion along the mainstem of the river (i.e., those points subject to reduced flow per the pending District applications) is provided in **Figures 2, 3, and 4**. Labeling of points was reduced for the purposes of clarity and more detailed mapping including labeling of all points can be provided as needed. Similarly, only the points of diversion along the mainstem are included, other points of

¹ It should be noted that a separate availability calculation was not completed for the West Fork Russian River above the confluence with the East Fork at The Forks. This stems from the fact that the points of diversion included in the District's Applications A012919C and A012920B are either at Lake Mendocino and therefore included in the East Fork analysis or downstream of The Forks and therefore included in the analysis at the Hopland point of comparison. The District's applications would have no impact to water availability in the West Fork watershed, though demands in the West Fork are included in the analysis downstream of the Forks.

diversion along tributary streams were included in the analysis but are not illustrated for the purposes of clarity.

All downstream demands were handled in a cumulative manner at each of the downstream points of comparison in a manner analogous to the unimpaired flow record using the monthly temporal distributions as discussed in **Section 3**.

5.3 Minimum Flow Requirements at Points of Comparison

As noted in **Section 2**, the Russian River system is subject to minimum flow requirements recognized in existing permit applications, and the methodology assumes that those minimum flow requirements are representative of the flows needed to maintain aquatic ecosystem health, particularly with respect to anadromous fish species. Therefore, the WAA includes monthly minimum flow volume requirements at each point of comparison. Specifically, the minimum flow requirements used are those cited in the Biological Opinion for Water Supply, Flood Control Operations, and Channel Maintenance conducted by the U.S. Army Corps of Engineers, the Sonoma County Water Agency, and the Mendocino County Russian River Flood Control and Water Conservation Improvement District in the Russian River Watershed (2008).

The monthly minimum flow requirements used in the analysis were essentially those for "normal" year type conditions as defined in the Biological Opinion for the mainstem river upstream of Dry Creek, with a modest weighting for dry year conditions (2 out of 17 years in the unimpaired flow record, critical conditions were not factored in). The only exception was for the East Fork availability where the monthly minimum flow requirements were based on the 25 cfs minimum release criteria for the East Fork upstream of The Forks. Therefore, the difference between the mainstem minimum flow volumes and the smaller East Fork minimum release volumes in the calculation framework would have to come (at least in part) from the stored volume in Lake Mendocino.

6 RESULTS OF THE ANALYSES

The results of the analyses for each point of comparison and combination of flow assumption (with or without PVP diversions) and water right priority (pre-1949 or all rights) are tabulated in **Appendix A**. Key results are discussed below.

6.1 Water Availability at Lake Mendocino

The results of the analysis of water availability at Lake Mendocino for the four conditions analyzed are summarized in **Table 6-1**.

Table 6-1 Water availability for the East Fork Russian River at Lake Mendocino.

Month	With PVP Inflows		Without PVP Inflows	
	<u>Pre-1949 Rights</u>	<u>All Rights</u>	<u>Pre-1949 Rights</u>	<u>All Rights</u>
Oct	-3,273	-5,598	-7,195	-7,512
Nov	-126	-127	-3,102	-3,102
Dec	21,148	21,066	15,395	15,313
Jan	18,622	18,473	13,187	13,038
Feb	18,813	18,679	14,055	13,921
Mar	12,600	12,292	8,952	8,769
Apr	4,743	2,493	584	277
May	1,287	-1,038	-5,359	-5,677
Jun	190	-2,060	-7,106	-7,413
Jul	-551	-2,876	-7,943	-8,260
Aug	-651	-2,976	-7,998	-8,316
Sep	-1,276	-3,526	-7,709	-8,016
Total	71,525	54,803	5,761	3,022

All values are remaining unappropriated water in acre-feet

As shown in **Table 6-1**, the water balance at Lake Mendocino with PVP inflow indicates an overall annual surplus of approximately 54,800 acre-feet when accounting for all upstream rights holders, allowed total annual diversions from surplus at the lake, and the minimum flow requirements immediately downstream of Coyote Dam. However, a portion of the noted surplus is required seasonally to meet minimum flow requirements downstream of The Forks (see discussion below). Naturally, the overall annual surplus with PVP inflow is larger, approximately 71,500 acre-feet, if only pre-1949 rights are used to define upstream demand.

Though the analysis shows an overall annual surplus of unallocated flow to Lake Mendocino, the monthly values confirm a water availability deficit for the months of May through October. That result is not unexpected and is consistent with the East Fork being previously identified as seasonally fully appropriated.

Given that the above results are based on recent trends in PVP inflow to the East Fork with an annual addition of approximately 65,800 acre-feet, it is not unexpected that the analysis shows there would be only a very small annual surplus of approximately 3,000 acre-feet if diversions from the Eel River watershed ceased completely and all upstream rights are included.²

6.2 Water Availability for Downstream Diversifiers

Key results of the analysis at each of the three points of comparison are summarized in **Table 6-2**.

Table 6-2 Water availability at downstream points of comparison

Month	East Fork	Hopland	Cloverdale	Healdsburg
Oct	-5,598	-14,099	-14,161	-18,323
Nov	-127	-3,101	596	5,281
Dec	21,066	69,105	100,673	163,937
Jan	18,473	66,939	99,040	170,176
Feb	18,679	66,916	101,525	173,572
Mar	12,292	43,385	68,791	119,151
Apr	2,493	12,670	26,210	48,045
May	-1,038	-7,765	-5,116	-3,971
Jun	-2,060	-9,754	-9,520	-12,925
Jul	-2,876	-12,034	-12,418	-17,182
Aug	-2,976	-12,468	-13,030	-18,135
Sep	-3,526	-12,738	-13,295	-18,050
Total	54,803	187,057	329,295	591,576

All values are remaining unappropriated water in acre-feet assuming all rights and PVP inflow

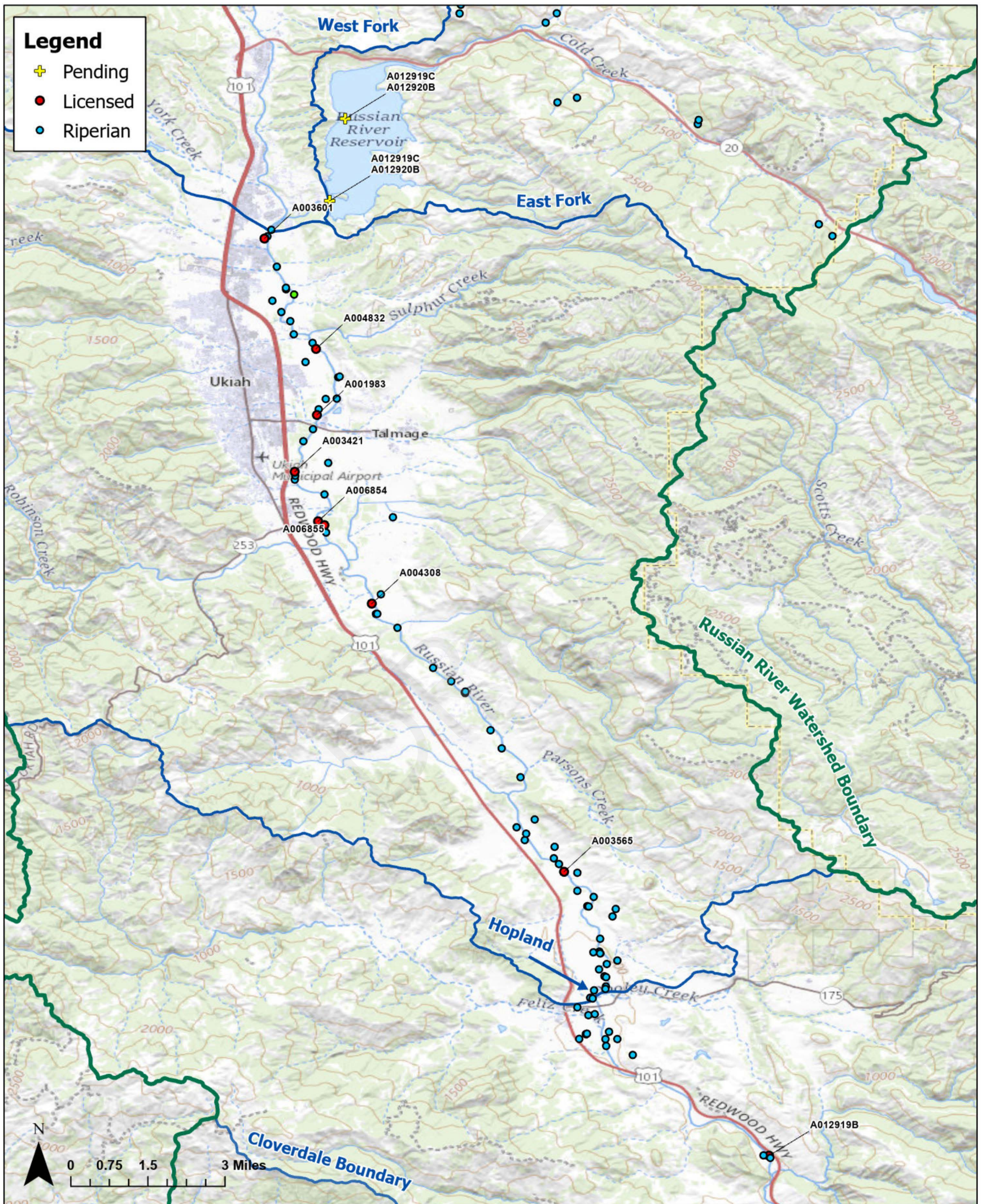
² The surplus in this case is not simply the difference of the surplus with the PVP inflow less the actual annual PVP inflow due to some upstream rights being based on PVP diversions from the Eel River and therefore not strictly applicable to East Fork flows.

Table 6-2 does not include consideration of the “no-PVP” inflow cases, since the East Fork calculations showed that there would be minimal opportunity for additional diversions without some level of continued diversions from the Eel River given existing upstream and minimum flow maintenance requirements. It is also important to note that the values in **Table 6-2** include consideration of all downstream rights. Surplus annual flows would be higher if the analysis is limited to only pre-1949 (including riparian) rights and those results are included in **Appendix A**. That said, the results in **Table 6-2** indicate that there is a large surplus volume available on an annual basis at each of the downstream points of comparison ranging from just over 187,000 acre-feet at Hopland to approximately 591,600 acre-feet at Healdsburg.

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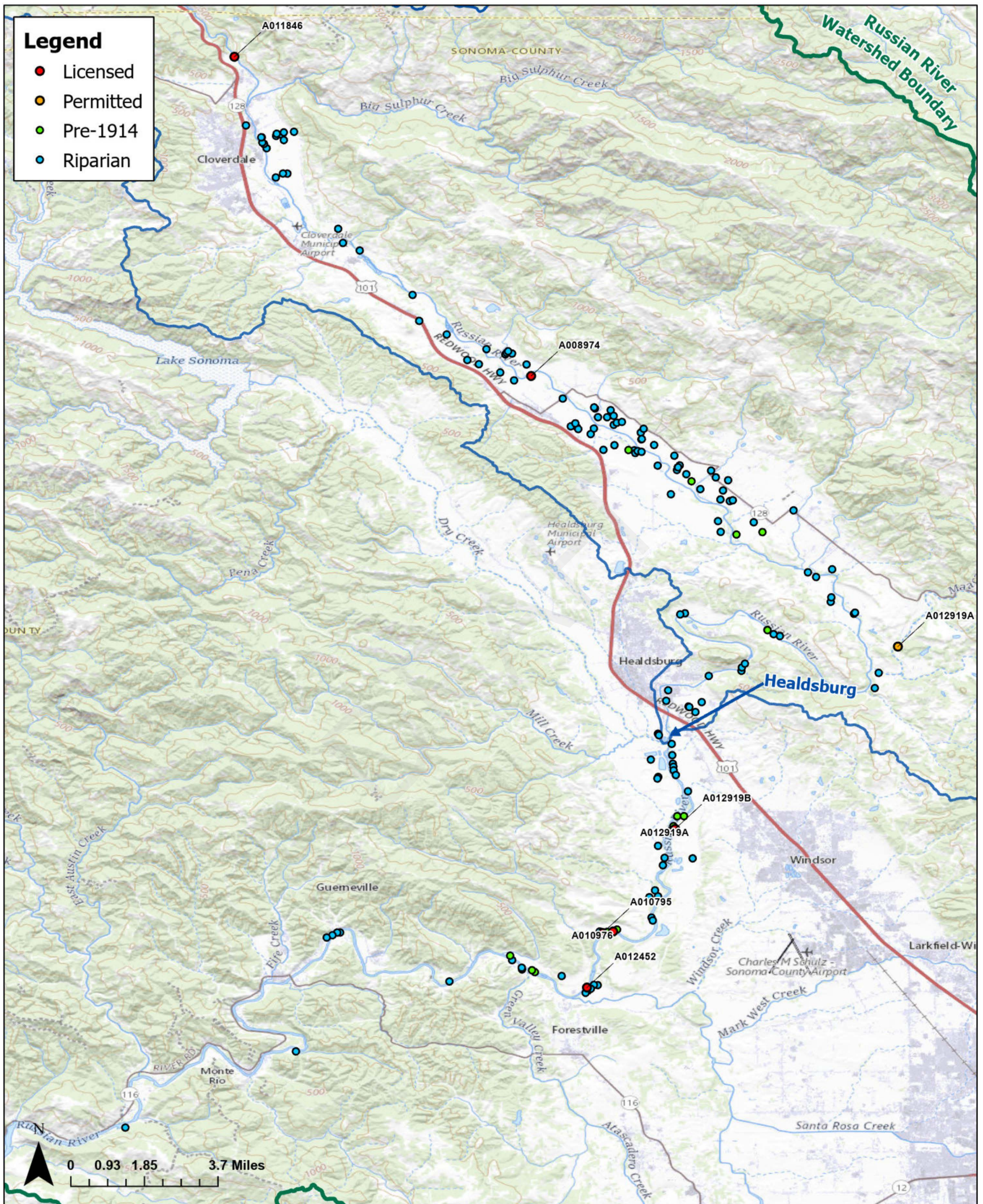
FIGURES

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Source: Balance Hydrologics, 2022

Figure 3. Downstream POD locations near Hopland and watershed boundaries, East Fork Russian River Water Availability Analysis Russian River, Mendocino County, California



Source: Balance Hydrologics, 2022

Figure 4. Downstream POD locations near Healdsburg and watershed boundaries, East Fork Russian River Water Availability Analysis Russian River, Mendocino County, California

APPENDICES

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APPENDIX A

Water Supply and Cumulative Diversion Analysis

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East Branch

All Rights with PVP Project

Month	Avg Monthly Water Supply				Avg Monthly Water Demands					Remaining Unappropriated Water
	PVP Inflow	Unimpaired Capella	Unimpaired LM Below Capella	Total Supply	East Fork Water Rights	Lake Mendocino Water Rights	Lake Mendocino Evaporation	Minimum Required Fish Flows	Total Demand	
	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	
Oct	3,922	463	60	4,445	3,915	4,163	428	1,537	10,043	-5,598
Nov	2,975	2,318	318	5,611	3	4,029	218	1,488	5,738	-127
Dec	5,753	19,376	2,626	27,755	89	4,942	120	1,537	6,688	21,066
Jan	5,435	18,012	2,419	25,866	159	5,583	114	1,537	7,393	18,473
Feb	4,758	18,107	2,504	25,368	144	5,043	115	1,388	6,690	18,679
Mar	3,648	14,412	2,002	20,062	451	5,583	199	1,537	7,770	12,292
Apr	4,159	6,981	967	12,106	3,788	4,029	308	1,488	9,613	2,493
May	6,647	2,116	295	9,057	3,915	4,163	480	1,537	10,095	-1,038
Jun	7,296	554	78	7,927	3,788	4,029	682	1,488	9,987	-2,060
Jul	7,392	156	22	7,570	3,915	4,163	831	1,537	10,446	-2,876
Aug	7,347	36	7	7,390	3,915	4,163	751	1,537	10,366	-2,976
Sep	6,433	27	10	6,469	3,788	4,029	690	1,488	9,995	-3,526

All Rights without PVP Project

Month	Unimpaired Avg Monthly Runoff Volume				Avg Monthly Water Demands					Remaining Unappropriated Water
	PVP Inflow	Unimpaired Capella	Unimpaired LM Below Capella	Total Supply	East Fork Water Rights	Lake Mendocino Water Rights	Lake Mendocino Evaporation	Minimum Required Fish Flows	Total Demand	
	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	
Oct	0	463	60	523	1,907	4,163	428	1,537	8,036	-7,512
Nov	0	2,318	318	2,636	3	4,029	218	1,488	5,738	-3,102
Dec	0	19,376	2,626	22,001	89	4,942	120	1,537	6,688	15,313
Jan	0	18,012	2,419	20,431	159	5,583	114	1,537	7,393	13,038
Feb	0	18,107	2,504	20,611	144	5,043	115	1,388	6,690	13,921
Mar	0	14,412	2,002	16,413	325	5,583	199	1,537	7,645	8,769
Apr	0	6,981	967	7,947	1,846	4,029	308	1,488	7,670	277
May	0	2,116	295	2,411	1,907	4,163	480	1,537	8,087	-5,677
Jun	0	554	78	632	1,846	4,029	682	1,488	8,044	-7,413
Jul	0	156	22	178	1,907	4,163	831	1,537	8,439	-8,260
Aug	0	36	7	43	1,907	4,163	751	1,537	8,359	-8,316
Sep	0	27	10	36	1,846	4,029	690	1,488	8,052	-8,016

Pre-1949 Rights with PVP Project

Month	Unimpaired Avg Monthly Runoff Volume				Avg Monthly Water Demands					Remaining Unappropriated Water
	PVP Inflow	Unimpaired Capella	Unimpaired LM Below Capella	Total Supply	East Fork Water Rights	Lake Mendocino Water Rights	Lake Mendocino Evaporation	Minimum Required Fish Flows	Total Demand	
	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	
Oct	3,922	463	60	4,445	1,590	4,163	428	1,537	7,718	-3,273
Nov	2,975	2,318	318	5,611	3	4,029	218	1,488	5,738	-126
Dec	5,753	19,376	2,626	27,755	7	4,942	120	1,537	6,606	21,148
Jan	5,435	18,012	2,419	25,866	10	5,583	114	1,537	7,244	18,622
Feb	4,758	18,107	2,504	25,368	9	5,043	115	1,388	6,556	18,813
Mar	3,648	14,412	2,002	20,062	142	5,583	199	1,537	7,462	12,600
Apr	4,159	6,981	967	12,106	1,538	4,029	308	1,488	7,363	4,743
May	6,647	2,116	295	9,057	1,590	4,163	480	1,537	7,770	1,287
Jun	7,296	554	78	7,927	1,538	4,029	682	1,488	7,737	190
Jul	7,392	156	22	7,570	1,590	4,163	831	1,537	8,121	-551
Aug	7,347	36	7	7,390	1,590	4,163	751	1,537	8,041	-651
Sep	6,433	27	10	6,469	1,538	4,029	690	1,488	7,745	-1,276

Pre-1949 Rights without PVP Project

Month	Unimpaired Avg Monthly Runoff Volume				Avg Monthly Water Demands					Remaining Unappropriated Water
	PVP Inflow	Unimpaired Capella	Unimpaired LM Below Capella	Total Supply	East Fork Water Rights	Lake Mendocino Water Rights	Lake Mendocino Evaporation	Minimum Required Fish Flows	Total Demand	
	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	
Oct	0	463	60	523	1,590	4,163	428	1,537	7,718	-7,195
Nov	0	2,318	318	2,636	3	4,029	218	1,488	5,738	-3,102
Dec	0	19,376	2,626	22,001	7	4,942	120	1,537	6,606	15,395
Jan	0	18,012	2,419	20,431	10	5,583	114	1,537	7,244	13,187
Feb	0	18,107	2,504	20,611	9	5,043	115	1,388	6,556	14,055
Mar	0	14,412	2,002	16,413	142	5,583	199	1,537	7,462	8,952
Apr	0	6,981	967	7,947	1,538	4,029	308	1,488	7,363	584
May	0	2,116	295	2,411	1,590	4,163	480	1,537	7,770	-5,359
Jun	0	554	78	632	1,538	4,029	682	1,488	7,737	-7,106
Jul	0	156	22	178	1,590	4,163	831	1,537	8,121	-7,943
Aug	0	36	7	43	1,590	4,163	751	1,537	8,041	-7,998
Sep	0	27	10	36	1,538	4,029	690	1,488	7,745	-7,709

Hopland

All Rights with PVP Project

Month	Avg Monthly Water Supply				Avg Monthly Water Demands				Remaining Unappropriated Water
	East Fork Inflow	Unimpaired West Fork	Unimpaired Hopland	Total Supply	West Fork Water Rights	Hopland Water Rights	Minimum Required Fish Flows	Total Demand	
	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft
Oct	-4,061	577	543	-2,941	347	3,448	7,362	11,157	-14,099
Nov	1,361	2,975	2,710	7,045	150	1,540	8,456	10,146	-3,101
Dec	22,604	27,147	30,751	80,502	754	1,905	8,738	11,397	69,105
Jan	20,010	25,875	33,204	79,089	1,248	2,164	8,738	12,149	66,939
Feb	20,067	24,865	32,958	77,890	1,127	1,955	7,892	10,974	66,916
Mar	13,829	20,064	25,968	59,861	2,019	5,719	8,738	16,476	43,385
Apr	3,981	10,091	12,591	26,662	336	3,336	10,319	13,992	12,670
May	500	2,834	3,359	6,693	347	3,448	10,663	14,458	-7,765
Jun	-572	738	878	1,043	336	3,336	7,125	10,797	-9,754
Jul	-1,339	213	248	-877	347	3,448	7,362	11,157	-12,034
Aug	-1,439	54	73	-1,311	347	3,448	7,362	11,157	-12,468
Sep	-2,038	55	42	-1,941	336	3,336	7,125	10,797	-12,738

All Rights without PVP Project

Month	Avg Monthly Water Supply				Avg Monthly Water Demands				Remaining Unappropriated Water
	East Fork Inflow	Unimpaired West Fork	Unimpaired Hopland	Total Supply	West Fork Water Rights	Hopland Water Rights	Minimum Required Fish Flows	Total Demand	
	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft
Oct	-5,975	577	543	-4,856	347	3,448	7,362	11,157	-16,013
Nov	-1,615	2,975	2,710	4,070	150	1,540	8,456	10,146	-6,076
Dec	16,850	27,147	30,751	74,749	754	1,905	8,738	11,397	63,352
Jan	14,575	25,875	33,204	73,653	1,248	2,164	8,738	12,149	61,504
Feb	15,309	24,865	32,958	73,132	1,127	1,955	7,892	10,974	62,159
Mar	10,306	20,064	25,968	56,338	2,019	5,719	8,738	16,476	39,862
Apr	1,765	10,091	12,591	24,446	336	3,336	10,319	13,992	10,455
May	-4,140	2,834	3,359	2,053	347	3,448	10,663	14,458	-12,405
Jun	-5,925	738	878	-4,310	336	3,336	7,125	10,797	-15,107
Jul	-6,723	213	248	-6,262	347	3,448	7,362	11,157	-17,419
Aug	-6,778	54	73	-6,651	347	3,448	7,362	11,157	-17,808
Sep	-6,528	55	42	-6,431	336	3,336	7,125	10,797	-17,228

Pre-1949 Rights with PVP Project

Month	Avg Monthly Water Supply				Avg Monthly Water Demands				Remaining Unappropriated Water
	East Fork Inflow	Unimpaired West Fork	Unimpaired Hopland	Total Supply	West Fork Water Rights	Hopland Water Rights	Minimum Required Fish Flows	Total Demand	
	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft
Oct	-1,736	577	543	-617	169	141	7,362	7,673	-8,289
Nov	1,361	2,975	2,710	7,046	18	128	8,456	8,602	-1,556
Dec	22,685	27,147	30,751	80,584	25	450	8,738	9,213	71,371
Jan	20,159	25,875	33,204	79,237	30	573	8,738	9,341	69,896
Feb	20,201	24,865	32,958	78,024	27	592	7,892	8,512	69,513
Mar	14,137	20,064	25,968	60,170	129	573	8,738	9,440	50,730
Apr	6,230	10,091	12,591	28,912	163	592	10,319	11,075	17,837
May	2,824	2,834	3,359	9,017	169	592	10,663	11,424	-2,407
Jun	1,678	738	878	3,293	163	573	7,125	7,861	-4,568
Jul	986	213	248	1,448	169	592	7,362	8,123	-6,676
Aug	886	54	73	1,014	169	59	7,362	7,591	-6,577
Sep	212	55	42	309	163	105	7,125	7,394	-7,085

Pre-1949 Rights without PVP Project

Month	Avg Monthly Water Supply				Avg Monthly Water Demands				Remaining Unappropriated Water
	East Fork Inflow	Unimpaired West Fork	Unimpaired Hopland	Total Supply	West Fork Water Rights	Hopland Water Rights	Minimum Required Fish Flows	Total Demand	
	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft
Oct	-5,658	577	543	-4,538	169	141	7,362	7,673	-12,211
Nov	-1,614	2,975	2,710	4,070	18	128	8,456	8,602	-4,531
Dec	16,932	27,147	30,751	74,831	25	450	8,738	9,213	65,618
Jan	14,724	25,875	33,204	73,802	30	573	8,738	9,341	64,461
Feb	15,444	24,865	32,958	73,267	27	592	7,892	8,512	64,755
Mar	10,489	20,064	25,968	56,521	129	573	8,738	9,440	47,081
Apr	2,072	10,091	12,591	24,753	163	592	10,319	11,075	13,678
May	-3,822	2,834	3,359	2,371	169	592	10,663	11,424	-9,054
Jun	-5,618	738	878	-4,003	163	573	7,125	7,861	-11,864
Jul	-6,406	213	248	-5,944	169	592	7,362	8,123	-14,068
Aug	-6,461	54	73	-6,334	169	59	7,362	7,591	-13,924
Sep	-6,221	55	42	-6,124	163	105	7,125	7,394	-13,518

Cloverdale

All Rights with PVP Project

Month	Avg Monthly Water Supply			Avg Monthly Water Demands			Remaining Unappropriated Water
	Hopland Inflow	Unimpaired Cloverdale	Total Supply	Cloverdale Water Rights	Minimum Required Fish Flows	Total Demand	
	<i>ac-ft</i>	<i>ac-ft</i>	<i>ac-ft</i>	<i>ac-ft</i>	<i>ac-ft</i>	<i>ac-ft</i>	<i>ac-ft</i>
Oct	-6,736	560	-6,177	622	7,362	7,985	-14,161
Nov	5,355	3,715	9,070	18	8,456	8,474	596
Dec	77,843	32,451	110,294	883	8,738	9,620	100,673
Jan	75,677	33,695	109,372	1,594	8,738	10,332	99,040
Feb	74,808	36,048	110,857	1,440	7,892	9,332	101,525
Mar	52,123	29,440	81,562	4,034	8,738	12,772	68,791
Apr	22,990	14,141	37,131	602	10,319	10,921	26,210
May	2,898	3,272	6,170	622	10,663	11,285	-5,116
Jun	-2,629	836	-1,793	602	7,125	7,727	-9,520
Jul	-4,672	239	-4,433	622	7,362	7,985	-12,418
Aug	-5,106	60	-5,045	622	7,362	7,985	-13,030
Sep	-5,613	46	-5,568	602	7,125	7,727	-13,295

All Rights without PVP Project

Month	Avg Monthly Water Supply			Avg Monthly Water Demands			Remaining Unappropriated Water
	Hopland Inflow	Unimpaired Cloverdale	Total Supply	Cloverdale Water Rights	Minimum Required Fish Flows	Total Demand	
	<i>ac-ft</i>	<i>ac-ft</i>	<i>ac-ft</i>	<i>ac-ft</i>	<i>ac-ft</i>	<i>ac-ft</i>	<i>ac-ft</i>
Oct	-8,650	560	-8,091	622	7,362	7,985	-16,075
Nov	2,380	3,715	6,095	18	8,456	8,474	-2,379
Dec	72,090	32,451	104,541	883	8,738	9,620	94,920
Jan	70,242	33,695	103,937	1,594	8,738	10,332	93,605
Feb	70,051	36,048	106,099	1,440	7,892	9,332	96,767
Mar	48,600	29,440	78,040	4,034	8,738	12,772	65,268
Apr	20,774	14,141	34,915	602	10,319	10,921	23,994
May	-1,741	3,272	1,531	622	10,663	11,285	-9,755
Jun	-7,982	836	-7,146	602	7,125	7,727	-14,873
Jul	-10,056	239	-9,817	622	7,362	7,985	-17,802
Aug	-10,446	60	-10,385	622	7,362	7,985	-18,370
Sep	-10,103	46	-10,058	602	7,125	7,727	-17,785

Pre-1949 Rights with PVP Project

Month	Avg Monthly Water Supply			Avg Monthly Water Demands			Remaining Unappropriated Water
	Hopland Inflow	Unimpaired Cloverdale	Total Supply	Cloverdale Water Rights	Minimum Required Fish Flows	Total Demand	
	<i>ac-ft</i>	<i>ac-ft</i>	<i>ac-ft</i>	<i>ac-ft</i>	<i>ac-ft</i>	<i>ac-ft</i>	<i>ac-ft</i>
Oct	-927	560	-367	83	7,362	7,445	-7,812
Nov	6,900	3,715	10,615	1	8,456	8,457	2,158
Dec	80,109	32,451	112,560	80	8,738	8,818	103,742
Jan	78,634	33,695	112,329	146	8,738	8,883	103,446
Feb	77,405	36,048	113,453	131	7,892	8,024	105,430
Mar	59,467	29,440	88,907	226	8,738	8,963	79,944
Apr	28,156	14,141	42,298	80	10,319	10,399	31,898
May	8,256	3,272	11,528	83	10,663	10,746	782
Jun	2,557	836	3,393	80	7,125	7,205	-3,812
Jul	687	239	925	83	7,362	7,445	-6,519
Aug	785	60	846	83	7,362	7,445	-6,599
Sep	40	46	86	80	7,125	7,205	-7,119

Pre-1949 Rights without PVP Project

Month	Avg Monthly Water Supply			Avg Monthly Water Demands			Remaining Unappropriated Water
	Hopland Inflow	Unimpaired Cloverdale	Total Supply	Cloverdale Water Rights	Minimum Required Fish Flows	Total Demand	
	<i>ac-ft</i>	<i>ac-ft</i>	<i>ac-ft</i>	<i>ac-ft</i>	<i>ac-ft</i>	<i>ac-ft</i>	<i>ac-ft</i>
Oct	-4,849	560	-4,289	83	7,362	7,445	-11,734
Nov	3,924	3,715	7,639	1	8,456	8,457	-817
Dec	74,356	32,451	106,807	80	8,738	8,818	97,989
Jan	73,199	33,695	106,894	146	8,738	8,883	98,010
Feb	72,647	36,048	108,696	131	7,892	8,024	100,672
Mar	55,819	29,440	85,259	226	8,738	8,963	76,295
Apr	23,998	14,141	38,139	80	10,319	10,399	27,740
May	1,610	3,272	4,882	83	10,663	10,746	-5,864
Jun	-4,739	836	-3,903	80	7,125	7,205	-11,108
Jul	-6,705	239	-6,466	83	7,362	7,445	-13,911
Aug	-6,562	60	-6,502	83	7,362	7,445	-13,947
Sep	-6,393	46	-6,347	80	7,125	7,205	-13,552

Healdsburg

All Rights with PVP Project

Month	Avg Monthly Water Supply			Avg Monthly Water Demands			Remaining Unappropriated Water
	Cloverdale Inflow	Unimpaired Healdsburg	Total Supply	Healdsburg Water Rights	Minimum Required Fish Flows	Total Demand	
	<i>ac-ft</i>	<i>ac-ft</i>	<i>ac-ft</i>	<i>ac-ft</i>	<i>ac-ft</i>	<i>ac-ft</i>	<i>ac-ft</i>
Oct	-6,799	1,067	-5,731	5,229	7,362	12,591	-18,323
Nov	9,052	6,922	15,973	2,237	8,456	10,693	5,281
Dec	109,411	66,631	176,042	3,368	8,738	12,106	163,937
Jan	107,778	75,374	183,152	4,238	8,738	12,975	170,176
Feb	109,417	75,875	185,292	3,828	7,892	11,720	173,572
Mar	77,528	57,461	134,989	7,100	8,738	15,838	119,151
Apr	36,529	26,896	63,425	5,060	10,319	15,380	48,045
May	5,547	6,374	11,921	5,229	10,663	15,892	-3,971
Jun	-2,395	1,655	-740	5,060	7,125	12,185	-12,925
Jul	-5,055	464	-4,591	5,229	7,362	12,591	-17,182
Aug	-5,668	125	-5,543	5,229	7,362	12,591	-18,135
Sep	-6,170	305	-5,865	5,060	7,125	12,185	-18,050

All Rights without PVP Project

Month	Avg Monthly Water Supply			Avg Monthly Water Demands			Remaining Unappropriated Water
	Cloverdale Inflow	Unimpaired Healdsburg	Total Supply	Healdsburg Water Rights	Minimum Required Fish Flows	Total Demand	
	<i>ac-ft</i>	<i>ac-ft</i>	<i>ac-ft</i>	<i>ac-ft</i>	<i>ac-ft</i>	<i>ac-ft</i>	<i>ac-ft</i>
Oct	-8,713	1,067	-7,646	5,229	7,362	12,591	-20,237
Nov	6,076	6,922	12,998	2,237	8,456	10,693	2,305
Dec	103,658	66,631	170,289	3,368	8,738	12,106	158,184
Jan	102,342	75,374	177,717	4,238	8,738	12,975	164,741
Feb	104,659	75,875	180,534	3,828	7,892	11,720	168,814
Mar	74,006	57,461	131,467	7,100	8,738	15,838	115,629
Apr	34,313	26,896	61,209	5,060	10,319	15,380	45,829
May	908	6,374	7,282	5,229	10,663	15,892	-8,610
Jun	-7,748	1,655	-6,093	5,060	7,125	12,185	-18,278
Jul	-10,440	464	-9,975	5,229	7,362	12,591	-22,567
Aug	-11,008	125	-10,883	5,229	7,362	12,591	-23,474
Sep	-10,660	305	-10,355	5,060	7,125	12,185	-22,540

Pre-1949 Rights with PVP Project

Month	Avg Monthly Water Supply			Avg Monthly Water Demands			Remaining Unappropriated Water
	Cloverdale Inflow	Unimpaired Healdsburg	Total Supply	Healdsburg Water Rights	Minimum Required Fish Flows	Total Demand	
	<i>ac-ft</i>	<i>ac-ft</i>	<i>ac-ft</i>	<i>ac-ft</i>	<i>ac-ft</i>	<i>ac-ft</i>	<i>ac-ft</i>
Oct	-450	1,067	617	1,558	7,362	8,920	-8,302
Nov	10,614	6,922	17,535	553	8,456	9,009	8,526
Dec	112,480	66,631	179,111	612	8,738	9,350	169,761
Jan	112,183	75,374	187,558	645	8,738	9,382	178,175
Feb	113,322	75,875	189,196	582	7,892	8,474	180,722
Mar	88,681	57,461	146,142	1,008	8,738	9,745	136,397
Apr	42,218	26,896	69,114	1,507	10,319	11,827	57,287
May	11,446	6,374	17,819	1,558	10,663	12,221	5,598
Jun	3,313	1,655	4,968	1,507	7,125	8,632	-3,664
Jul	843	464	1,307	1,558	7,362	8,920	-7,613
Aug	763	125	888	1,558	7,362	8,920	-8,032
Sep	6	305	311	1,507	7,125	8,632	-8,321

Pre-1949 Rights without PVP Project

Month	Avg Monthly Water Supply			Avg Monthly Water Demands			Remaining Unappropriated Water
	Cloverdale Inflow	Unimpaired Healdsburg	Total Supply	Healdsburg Water Rights	Minimum Required Fish Flows	Total Demand	
	<i>ac-ft</i>	<i>ac-ft</i>	<i>ac-ft</i>	<i>ac-ft</i>	<i>ac-ft</i>	<i>ac-ft</i>	<i>ac-ft</i>
Oct	-4,372	1,067	-3,304	1,558	7,362	8,920	-12,224
Nov	7,638	6,922	14,560	553	8,456	9,009	5,551
Dec	106,727	66,631	173,358	612	8,738	9,350	164,008
Jan	106,748	75,374	182,122	645	8,738	9,382	172,740
Feb	108,564	75,875	184,439	582	7,892	8,474	175,964
Mar	85,033	57,461	142,494	1,008	8,738	9,745	132,749
Apr	38,059	26,896	64,955	1,507	10,319	11,827	53,128
May	4,799	6,374	11,173	1,558	10,663	12,221	-1,048
Jun	-3,983	1,655	-2,328	1,507	7,125	8,632	-10,960
Jul	-6,549	464	-6,085	1,558	7,362	8,920	-15,004
Aug	-6,584	125	-6,460	1,558	7,362	8,920	-15,380
Sep	-6,427	305	-6,122	1,507	7,125	8,632	-14,754

APPENDIX B

East Fork Points of Diversion

DRAFT

East Fork Pre-1949 Rights

Right #	Application #	Right Type	Right Status	Acceptance	Sub Type	Face Value	Review Code	Associated	Direct Diversion	Storage (afy)	Use Code
				Date		Amount			(afy)		
3278	A012919B	Appropriative	Licensed	1/28/1949	NA	130500	DR-MU		7,940.0		Domestic
3277	A012919A	Appropriative	Permitted	1/28/1949	NA	160044	DR-MU		41,080.0		Domestic
3280	A012920SF	State Filing	Pending	1/28/1949	NA	598188	DR-MU		---		Domestic
32257	S008714	Statement	Claimed	3/11/1976	PRE1914,	0	DR-LU		31.9		Domestic
37988	S015147	Statement	Claimed	10/3/2001	RIPERIAN,	0	DR-MU		0.3		Domestic
64572	S026633	Statement	Claimed	8/3/2017	RIPERIAN,	0	LVU		0.0		Domestic
64889	S026879	Statement	Claimed	8/18/2017	RIPERIAN,	0	LVU		0.0		Domestic
65065	S027032	Statement	Claimed	8/29/2017	RIPERIAN,	0	LVU		---	1.7	Domestic
65068	S027035	Statement	Claimed	8/29/2017	RIPERIAN,	0	LVU		0.5		Domestic
72971	S028309	Statement	Claimed	12/26/2019	RIPERIAN,	0	LVU		0.1		Domestic
56617	S023468	Statement	Inactive	10/14/2013	RIPERIAN,	0	DR-MU	S021388	---		Domestic
64662	S026714	Statement	Inactive	8/7/2017	RIPERIAN,	0	DR-MU		0.9		Domestic
65066	S027033	Statement	Inactive	8/29/2017	RIPERIAN,	0	LVU		0.2		Domestic
65070	S027037	Statement	Inactive	8/29/2017	RIPERIAN,	0	LVU		1.0		Domestic
65071	S027038	Statement	Inactive	8/29/2017	RIPERIAN,	0	LVU		0.1		Domestic
65235	S027135	Statement	Inactive	9/5/2017	RIPERIAN,	0	DR-MU	S027137	---		Domestic
65304	S027172	Statement	Inactive	9/8/2017	RIPERIAN,	0	DR-MU	S027032	---		Domestic
31883	S008184	Statement	Claimed	1/1/1973	RIPERIAN,	0	DR-MU		14.7		Frost Protection
32075	S008451	Statement	Claimed	1/1/1974	RIPERIAN,	0	DR-LU		0.4		Frost Protection
37223	S014373	Statement	Claimed	4/10/1995	RIPERIAN,	0	DR-MU		44.3		Frost Protection
37224	S014374	Statement	Claimed	4/10/1995	RIPERIAN,	0	DR-MU		44.3		Frost Protection
47723	S016911	Statement	Claimed	6/30/2010	RIPERIAN,	0	DR-MU		2.9		Frost Protection
51835	S017474	Statement	Claimed	4/13/2012	RIPERIAN,	0	DR-LU		8.8		Frost Protection
52565	S018387	Statement	Claimed	6/21/2012	RIPERIAN,	0	DR-LU		12.0		Frost Protection
56619	S023470	Statement	Claimed	10/14/2013	RIPERIAN,	0	DR-MU		---		Frost Protection
56320	S023205	Statement	Inactive	9/24/2013	RIPERIAN,	0	DR-LU		4.1		Frost Protection
	A005661						PVP		4,500.0		
	A006594						PVP		4,908.0		
2647	A011383	Appropriative	Licensed	4/23/1946	NA	667.8	DR-LU		649.8		Irrigation
31807	S008071	Statement	Claimed	3/9/1973	RIPERIAN,	0	DR-MU		520.0		Irrigation
32077	S008453	Statement	Claimed	1/1/1974	RIPERIAN,	0	DR-MU		76.0		Irrigation
36798	S013947	Statement	Claimed	11/6/1992	RIPERIAN,	0	DR-MU		12.0		Irrigation
37163	S014313	Statement	Claimed	1/31/1995	RIPERIAN,	0	PVP		---		Irrigation
37863	S015023	Statement	Claimed	10/28/1998	RIPERIAN,	0	DR-LU	A030967	---		Irrigation
44657	S016093	Statement	Claimed	11/26/2007	RIPERIAN,	0	DR-MU	A017881	---		Irrigation
47930	S017348	Statement	Claimed	7/1/2010	RIPERIAN,	0	DR-MU		75.0		Irrigation
52860	S018277	Statement	Claimed	7/10/2012	RIPERIAN,	0	DR-MU		8.0		Irrigation
50796	S019287	Statement	Claimed	1/18/2012	RIPERIAN,	0	DR-MU		100.0		Irrigation
51531	S016698	Statement	Claimed	3/28/2012	RIPERIAN,	0	DR-LU	564, A022433, A030560	---		Irrigation
51550	S016707	Statement	Claimed	3/29/2012	RIPERIAN,	0	DR-MU		---	15.0	Irrigation

East Fork Pre-1949 Rights

Right #	Application #	Right Type	Right Status	Acceptance	Sub Type	Face Value	Review Code	Associated	Direct Diversion	Storage (afy)	Use Code
				Date		Amount			(afy)		
53455	S021387	Statement	Claimed	8/8/2012	RIPERIAN,	0	DR-LU		8.9		Irrigation
53458	S021390	Statement	Inactive	8/8/2012	RIPERIAN,	0	DR-MU		25.7		Irrigation
57525	S024188	Statement	Claimed	1/17/2014	RIPERIAN,	0	DR-LU		#REF!		Irrigation
54790	S022335	Statement	Claimed	11/15/2012	RIPERIAN,	0	DR-MU		0.6		Irrigation
63436	S026091	Statement	Claimed	4/25/2017	RIPERIAN,	0	DR-LU		0.5		Irrigation
65018	S026992	Statement	Claimed	8/28/2017	RIPERIAN,	0	DR-MU			1.4	Irrigation
65237	S027137	Statement	Claimed	9/5/2017	RIPERIAN,	0	LVU		1.1		Irrigation
72969	S028307	Statement	Claimed	12/26/2019	RIPERIAN,	0	DR-MU			7.7	Irrigation
53457	S021389	Statement	Inactive	8/8/2012	RIPERIAN,	0	DR-MU		8.6		Irrigation
56618	S023469	Statement	Inactive	10/14/2013	RIPERIAN,	0	DR-MU		---		Irrigation
51588	S016812	Statement	Claimed	4/2/2012	RIPERIAN,	0	DR-MU	S024104?	50.0		Irrigation
53456	S021388	Statement	Claimed	8/8/2012	RIPERIAN,	0	DR-MU		0.5		Irrigation
63806	S026217	Statement	Claimed	6/15/2017	RIPERIAN,	0	DR-MU		6.7		Irrigation
3276	A012919SF	State Filing	Pending	1/28/1949	NA	388810	DR-MU		---		Municipal
38431	S015604	Statement	Inactive	7/9/2001	RIPERIAN,	0	DR-MU		---		NA
68217	S027894	Statement	Claimed	8/27/2018	RIPERIAN,PRE19	0	DR-MU		---		Stockwatering

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East Fork Post-1949 Rights

Right #	Application #	Right Type	Right Status	Acceptance	Sub Type	Face Value	Review Code	Associated	Diversersion	Storage (afy)	Use Code
				Date		Amount			(afy)		
11685	A026938	Appropriative	Licensed	8/4/1981	NA	14	DR-LU			14	Domestic
3279	A012919C	Appropriative	Pending	2/9/2007	NA	2600	DR-MU		---		Domestic
3281	A012920B	Appropriative	Pending	2/9/2007	NA	3400	DR-MU		---		Domestic
10340	A024955	Appropriative	Permitted	12/10/1975	NA	4900	DR-MU			4,900.0	Domestic
70142	D033025	Domestic	Registered	3/12/2019	NA	0.67	DR-MU			0.7	Domestic
72471	D033083	Domestic	Registered		NA	0.17	DR-MU		0.2		Domestic
38467	S015664	Statement	Inactive	6/15/2002	NA	0	DR-LU		4.2		Domestic
64308	S026430	Statement	Inactive	7/18/2017	OTHER,	0	DR-MU		---		Domestic
67687	H500832	Cannabis	Registered		NA	0.14	DR-MU		0.1		Irrigation
67979	H501505	Cannabis	Registered		NA	0.58	DR-MU		0.6		Irrigation
73031	H505997	Cannabis	Registered		NA	1.55	DR-MU		1.6		Irrigation
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10389	A025019	Appropriative	Licensed	3/12/1976	NA	24	DR-LU			24.0	Fire Protection
10528	A025201	Appropriative	Licensed	11/23/1976	NA	5	DR-LU			5.0	Fire Protection
11595	A026769	Appropriative	Licensed	3/31/1981	NA	5	DR-LU			5.0	Fire Protection
14058	A030560	Appropriative	Licensed	8/22/1996	NA	80	DR-MU		11.0	69.0	Fire Protection
14544	A031504	Appropriative	Pending	4/29/2004	NA	49	DR-MU	S022895		49.0	Fire Protection
84779	H510424	Cannabis	Registered		NA	0.29	DR-LU			0.3	Fire Protection
58619	S024452	Statement	Claimed	7/11/2014	OTHER,	0	DR-MU			2.0	Fire Protection
5892	A017871	Appropriative	Licensed	11/4/1957	NA	13.5	DR-LU			13.5	Fish and Wildlife
9800	A024173	Appropriative	Licensed	9/8/1972	NA	1.4	DR-LU			1.4	Fish and Wildlife
12895	A028824	Appropriative	Licensed	4/8/1986	NA	23	DR-LU			23.0	Fish and Wildlife
14522	A031461	Appropriative	Permitted	11/10/2003	NA	36.9	DR-LU	S016708		36.9	Fish and Wildlife
9898	A024318	Appropriative	Licensed	3/9/1973	NA	23.5	DR-LU		14.7		Frost Protection
14061	A030564	Appropriative	Licensed	8/28/1996	NA	100	DR-LU		8.6		Frost Protection
57111	A032220	Appropriative	Pending	2/6/2014	NA	49.7	DR-MU	S024104		---	Frost Protection
9824	A024209B	Appropriative	Permitted	10/17/1972	NA	173	PVP		86.0		Frost Protection
10069	A024571B	Appropriative	Permitted	3/5/1974	NA	173	PVP		39.7		Frost Protection
3571	A013529	Appropriative	Licensed	1/3/1950	NA	110.4	PVP		109.8		Irrigation
3589	A013557	Appropriative	Licensed	1/31/1950	NA	22711.1	PVP	A005661, A006594	13,262.0		Irrigation
3655	A013706	Appropriative	Licensed	4/26/1950	NA	10.7	DR-LU		10.6		Irrigation
3936	A014259A	Appropriative	Licensed	4/18/1951	NA	60.4	DR-LU		60.0		Irrigation
4434	A015329A	Appropriative	Licensed	5/1/1953	NA	32.2	DR-LU		32.1		Irrigation

East Fork Post-1949 Rights

Right #	Application #	Right Type	Right Status	Acceptance	Sub Type	Face Value	Review Code	Associated	Diverersion	Storage (afy)	Use Code
				Date		Amount			(afy)		
4435	A015329B	Appropriative	Licensed	5/1/1953	NA	22.4	DR-LU		22.3		Irrigation
4809	A016086	Appropriative	Licensed	10/8/1954	NA	89.6	DR-LU			89.6	Irrigation
4970	A016381	Appropriative	Licensed	5/17/1955	NA	110.4	DR-LU			110.4	Irrigation
5013	A016472	Appropriative	Licensed	7/19/1955	NA	328.5	DR-LU		326.7		Irrigation
5513	A017271	Appropriative	Licensed	9/7/1956	NA	91	DR-LU		90.4		Irrigation
5663	A017508	Appropriative	Licensed	3/14/1957	NA	154	DR-LU		154.0		Irrigation
5895	A017881	Appropriative	Licensed	11/14/1957	NA	270	DR-LU		270.0		Irrigation
6619	A019071	Appropriative	Licensed	11/9/1959	NA	57	DR-LU		57.0		Irrigation
8657	A022378	Appropriative	Licensed	2/1/1966	NA	144	DR-LU		144.0		Irrigation
8689	A022433	Appropriative	Licensed	3/29/1966	NA	11.9	DR-LU		12.0		Irrigation
9171	A023213	Appropriative	Licensed	1/21/1969	NA	307	DR-LU		307.0		Irrigation
9260	A023338	Appropriative	Licensed	8/26/1969	NA	150	DR-LU		150.0		Irrigation
9261	A023339	Appropriative	Licensed	8/26/1969	NA	24	DR-LU		24.0		Irrigation
9337	A023481	Appropriative	Licensed	4/6/1970	NA	67.5	DR-LU		67.5		Irrigation
9454	A023670	Appropriative	Licensed	1/12/1971	NA	26	DR-LU		26.0		Irrigation
9474	A023700	Appropriative	Licensed	2/9/1971	NA	29	DR-LU		29.0		Irrigation
9627	A023916	Appropriative	Licensed	11/10/1971	NA	18	DR-LU		18.0		Irrigation
9793	A024163	Appropriative	Licensed	8/25/1972	NA	13.9	DR-LU		13.9		Irrigation
10332	A024946	Appropriative	Licensed	11/28/1975	NA	0.1	DR-LU		0.1		Irrigation
10369	A024995	Appropriative	Licensed	2/18/1976	NA	38	DR-LU		38.0		Irrigation
10427	A025070	Appropriative	Licensed	5/21/1976	NA	28	DR-LU			28.0	Irrigation
11139	A026016	Appropriative	Licensed	6/6/1979	NA	3.8	DR-LU		3.8		Irrigation
12388	A028116	Appropriative	Licensed	4/18/1984	NA	17	DR-LU	A025070		12.0	Irrigation
13711	A029995	Appropriative	Licensed	8/26/1991	NA	21	DR-LU			21.0	Irrigation
33077	S009774	Statement	Inactive	5/11/1979	NA	0	DR-MU		4.0		Irrigation
51552	S016708	Statement	Claimed	3/29/2012	OTHER,	0	DR-MU	A031461	---		Irrigation
54531	S022156	Statement	Claimed	11/6/2012	OTHER,	0	DR-MU	A022378	---		Irrigation
65765	S027405	Statement	Claimed	10/6/2017	OTHER,	0	PVP		---		Irrigation
64433	S026513	Statement	Inactive	7/26/2017	OTHER,	0	DR-MU		---		Irrigation
8207	A021569	Appropriative	Licensed	12/5/1963	NA	46.9	DR-MU		46.7		Irrigation
8208	A021570	Appropriative	Licensed	12/5/1963	NA	25.6	DR-MU		25.5		Irrigation
38540	S015789	Statement	Inactive	5/1/2002	NA	0	DR-MU		0.3		Irrigation
9371	A023534A	Appropriative	Licensed	6/18/1970	NA	19.8	DR-LU		20.0		Irrigation
9372	A023534B	Appropriative	Licensed	6/18/1970	NA	99.7	DR-LU		100.0		Irrigation
9431	A023629	Appropriative	Licensed	10/14/1970	NA	84	DR-LU		84.0		Irrigation
57392	S024104	Statement	Claimed	1/9/2014	OTHER,	0	DR-MU	A032220	49.7		Irrigation
9823	A024209A	Appropriative	Permitted	10/17/1972	NA	225	PVP		223.1		Irrigation
10068	A024571A	Appropriative	Permitted	3/5/1974	NA	263	PVP		263.0		Irrigation
20857	E000005	Power	Certified		NA	0	DR-MU		---		NA
20875	E000024	Power	Certified		NA	0	DR-MU		---		NA
27639	L031457	Livestock	Registered	37908	NA	3.3	DR-LU			3.3	Other

East Fork Post-1949 Rights

Right #	Application #	Right Type	Right Status	Acceptance	Sub Type	Face Value	Review Code	Associated	Diverersion	Storage (afy)	Use Code
				Date		Amount			(afy)		
10919	A025691	Appropriative	Licensed	28556	NA	289591	DR-MU		---		Power
11431	A026470	Appropriative	Licensed	29427	NA	50000	DR-MU		---		Power
12782	A028668	Appropriative	Licensed	31399	NA	89321	DR-MU		---		Power
27649	L031582	Livestock	Registered	38569	NA	9.7	DR-LU			3.3	Stockwatering
58511	L032271	Livestock	Registered	42853	NA	0.6	PVP		0.6		Stockwatering
55982	S022895	Statement	Claimed	41493	PENDING,	0	DR-MU	A031504	---		Stockwatering
19910	C005834	Stockpond	Certified	35787	NA	5	DR-MU		---		Stockwatering

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APPENDIX C

West Fork Points of Diversion

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West Fork Pre-1949 Rights

Right #	Application #	Right Type	Right Status	Acceptance	Sub Type	Face Value	Review Code	Associated	Diversersion	Storage (afy)	Use Code
				Date		Amount			(afy)		
64189	S026323	Statement	Claimed	7/12/2017	RIPERIAN,	0	DR-MU		0.7		Domestic
64097	S026284	Statement	Claimed	7/10/2017	PENDING,	0	DR-LU		1.0		Domestic
34116	S011135	Statement	Claimed	3/29/1983	RIPERIAN,	0	DR-MU		24.4		Domestic
37142	S014292	Statement	Claimed	12/12/1994	RIPERIAN,	0	DR-MU		8.0		Domestic
37143	S014293	Statement	Claimed	12/12/1994	RIPERIAN,	0	DR-MU		9.5		Domestic
37701	S014861	Statement	Claimed	1/29/1998	RIPERIAN,	0	DR-MU		0.2		Domestic
37702	S014862	Statement	Claimed	1/29/1998	RIPERIAN,	0	DR-MU		0.1		Domestic
37703	S014863	Statement	Claimed	1/29/1998	RIPERIAN,	0	DR-MU		0.1		Domestic
37704	S014864	Statement	Claimed	1/29/1998	RIPERIAN,	0	DR-MU		0.2		Domestic
37705	S014865	Statement	Claimed	1/29/1998	RIPERIAN,	0	DR-MU		0.1		Domestic
37706	S014866	Statement	Claimed	1/29/1998	RIPERIAN,	0	DR-MU		0.2		Domestic
52199	S017742	Statement	Claimed	5/9/2012	RIPERIAN,	0	DR-MU		6.2		Domestic
52201	S017745	Statement	Claimed	5/9/2012	RIPERIAN,	0	DR-MU		9.8		Domestic
52203	S017748	Statement	Claimed	5/9/2012	RIPERIAN,	0	DR-MU		0.8		Domestic
52246	S017751	Statement	Claimed	5/15/2012	RIPERIAN,	0	DR-MU		5.9		Domestic
52662	S018457	Statement	Claimed	6/27/2012	RIPERIAN,	0	DR-LU		16.4		Domestic
52727	S019594	Statement	Claimed	7/2/2012	RIPERIAN,	0	DR-MU		---		Domestic
52864	S019924	Statement	Claimed	7/10/2012	RIPERIAN,	0	DR-MU		0.1		Domestic
52976	S020096	Statement	Claimed	7/11/2012	RIPERIAN,	0	DR-MU		4.8		Domestic
53009	S020523	Statement	Claimed	7/13/2012	RIPERIAN,	0	DR-MU		---		Domestic
56609	S023462	Statement	Claimed	10/14/2013	RIPERIAN,	0	DR-LU		7.3		Domestic
64637	S026690	Statement	Claimed	8/7/2017	RIPERIAN,	0	DR-MU		---		Domestic
64639	S026692	Statement	Claimed	8/7/2017	RIPERIAN,	0	DR-LU		3.2		Domestic
65325	S027190	Statement	Claimed	9/8/2017	RIPERIAN,	0	DR-MU		0.8		Domestic
66067	S027502	Statement	Claimed	11/2/2017	RIPERIAN,	0	DR-MU		0.1		Domestic
75283	S028364	Statement	Claimed	9/15/2020	RIPERIAN,	0	DR-MU		0.1		Domestic
61673	S025401	Statement	Claimed	4/1/2016	RIPERIAN,PRE19	0	DR-LU		4.6		Domestic
27829	S000272	Statement	Inactive	2/14/1967	PRE1914,	0	DR-MU		59.0		Domestic
53424	S021358	Statement	Claimed	8/8/2012	RIPERIAN,	0	DR-MU		55.0		Domestic
38344	S015509	Statement	Claimed	2/19/2004	PRE1914,	0	DR-MU		10.0		Frost Protection
31815	S008080	Statement	Claimed	1/1/1973	RIPERIAN,	0	DR-MU		14.0		Frost Protection
33587	S010433	Statement	Claimed	7/10/1981	RIPERIAN,	0	DR-LU		2.7		Frost Protection
37835	S014996	Statement	Claimed	8/12/1998	RIPERIAN,	0	DR-MU		11.8		Frost Protection
38512	S015746	Statement	Claimed	12/11/2002	RIPERIAN,	0	DR-MU		11.8		Frost Protection
47982	S017203	Statement	Claimed	6/30/2010	RIPERIAN,	0	DR-MU		5.9		Frost Protection
53375	S019039	Statement	Claimed	8/7/2010	RIPERIAN,	0	DR-MU		9.2		Frost Protection
53378	S021321	Statement	Claimed	8/7/2012	RIPERIAN,	0	DR-MU		3.2		Frost Protection
53418	S021352	Statement	Claimed	8/8/2012	RIPERIAN,	0	DR-MU		0.6		Frost Protection
53454	S021386	Statement	Claimed	8/8/2012	RIPERIAN,	0	DR-MU		9.0		Frost Protection
53638	S021482	Statement	Claimed	8/15/2012	RIPERIAN,	0	DR-MU		5.0		Frost Protection
53639	S021483	Statement	Claimed	8/15/2012	RIPERIAN,	0	DR-MU		8.8		Frost Protection
54504	S022130	Statement	Claimed	10/9/2012	RIPERIAN,	0	DR-MU		2.2		Frost Protection

West Fork Pre-1949 Rights

Right #	Application #	Right Type	Right Status	Acceptance	Sub Type	Face Value	Review Code	Associated	Diversersion	Storage (afy)	Use Code
				Date		Amount			(afy)		
56851	S023681	Statement	Claimed	10/30/2013	RIPERIAN,	0	DR-MU		5.0		Frost Protection
56855	S023685	Statement	Claimed	10/30/2013	RIPERIAN,	0	DR-MU		---		Frost Protection
755	A004307	Appropriative	Licensed	11/7/1924	NA	67.8	DR-LU		66.6		Irrigation
1274	A006464	Appropriative	Licensed	10/21/1929	NA	86.3	DR-LU		79.1		Irrigation
1318	A006642	Appropriative	Licensed	4/16/1930	NA	365	DR-LU		357.0		Irrigation
1354	A006805A	Appropriative	Licensed	9/26/1930	NA	15.2	DR-LU		14.9		Irrigation
2084	A009832A	Appropriative	Licensed	2/20/1940	NA	43.4	DR-LU		21.4		Irrigation
52036	S019389	Statement	Claimed	4/23/2012	PRE1914,	0	DR-MU			25.0	Irrigation
32212	S008659	Statement	Claimed	1/1/1975	RIPERIAN,	0	DR-MU		15.0	15.0	Irrigation
32345	S008824	Statement	Claimed	6/24/1976	RIPERIAN,	0	DR-MU		2.1		Irrigation
36866	S014016	Statement	Claimed	6/22/1993	RIPERIAN,	0	DR-MU		22.0		Irrigation
50645	S018523	Statement	Claimed	1/10/2012	RIPERIAN,	0	DR-MU		---		Irrigation
52038	S019392	Statement	Claimed	4/23/2012	RIPERIAN,	0	DR-MU		50.0		Irrigation
52040	S019395	Statement	Claimed	4/23/2012	RIPERIAN,	0	DR-MU		75.0		Irrigation
53010	S020527	Statement	Claimed	7/13/2012	RIPERIAN,	0	DR-MU		---		Irrigation
53449	S021382	Statement	Claimed	8/8/2012	RIPERIAN,	0	DR-MU		43.5		Irrigation
53640	S021484	Statement	Claimed	8/15/2012	RIPERIAN,	0	DR-MU		11.7		Irrigation
56857	S023687	Statement	Claimed	10/30/2013	RIPERIAN,	0	DR-MU		11.4		Irrigation
62176	S025576	Statement	Claimed	8/1/2016	RIPERIAN,	0	DR-MU		10.0		Irrigation
64634	S026687	Statement	Claimed	8/7/2017	RIPERIAN,	0	DR-MU		---		Irrigation
64781	S026792	Statement	Claimed	8/11/2017	RIPERIAN,	0	DR-MU			0.0	Irrigation
64783	S026794	Statement	Claimed	8/11/2017	RIPERIAN,	0	DR-MU			0.2	Irrigation
50910	S017020	Statement	Claimed	1/26/2012	PRE1914,	0	DR-LU		0.8		Irrigation
33199	S009905	Statement	Claimed	5/30/1979	PRE1914,	0	DR-MU		50.0		Irrigation
2085	A009832B	Appropriative	Licensed	2/20/1940	NA	159.7	DR-MU		157.1		Irrigation
411	A002723	Appropriative	Licensed	1/16/1922	NA	46.7	DR-LU		45.2		Irrigation
52608	S018456	Statement	Claimed	6/22/2012	RIPERIAN,	0	DR-MU		4.6		Irrigation

West Fork Post-1949 Rights

Right #	Application #	Right Type	Right Status	Acceptance	Sub Type	Face Value	Review Code	Associated	Diversersion	Storage (afy)	Use Code
				Date		Amount			(afy)		
5489	A017240	Appropriative	Licensed	8/15/1956	NA	4.1	DR-MU		0.3	3.8	Domestic
5710	A017587	Appropriative	Permitted	5/8/1957	NA	1440	Lvu		1,440.0		Domestic
6150	A018274A	Appropriative	Licensed	8/19/1958	NA	8.3	Lvu			8.3	Domestic
6362	A018648	Appropriative	Licensed	4/17/1959	NA	5	Lvu			5.0	Domestic
7731	A020791	Appropriative	Licensed	5/24/1962	NA	9	Lvu			9.0	Domestic
8129	A021429A	Appropriative	Licensed	8/15/1963	NA	290	Lvu			290.0	Domestic
8130	A021429B	Appropriative	Licensed	8/15/1963	NA	290	Lvu			290.0	Domestic
8131	A021429C	Appropriative	Licensed	8/15/1963	NA	290	Lvu			290.0	Domestic
9704	A024028	Appropriative	Licensed	4/13/1972	NA	39	Lvu			39.0	Domestic
10169	A024725	Appropriative	Licensed	12/17/1974	NA	20	Lvu			20.0	Domestic
12755	A028632	Appropriative	Licensed	12/3/1985	NA	1.4	Lvu			1.4	Domestic
12756	A028633	Appropriative	Licensed	12/3/1985	NA	1.9	Lvu			1.9	Domestic
12758	A028636	Appropriative	Licensed	12/3/1985	NA	2.2	Lvu			2.2	Domestic
12761	A028640	Appropriative	Licensed	12/3/1985	NA	5	Lvu		2.5	2.5	Domestic
12762	A028641	Appropriative	Permitted	12/3/1985	NA	4	Lvu			4.0	Domestic
12763	A028642	Appropriative	Licensed	12/3/1985	NA	1.7	Lvu			1.7	Domestic
12764	A028643	Appropriative	Permitted	12/3/1985	NA	6	Lvu			6.0	Domestic
12767	A028647	Appropriative	Licensed	12/3/1985	NA	0.7	Lvu			0.7	Domestic
12769	A028649	Appropriative	Licensed	12/3/1985	NA	1.1	Lvu			1.0	Domestic
12770	A028650	Appropriative	Licensed	12/3/1985	NA	4.2	Lvu			4.2	Domestic
12772	A028653	Appropriative	Licensed	12/4/1985	NA	2.3	Lvu			2.3	Domestic
12788	A028676	Appropriative	Licensed	12/23/1985	NA	3.8	Lvu			3.8	Domestic
12814	A028715	Appropriative	Licensed	1/14/1986	NA	2.3	Lvu		1.6	0.7	Domestic
12872	A028786	Appropriative	Permitted	1/28/1986	NA	24.6	Lvu		4.6	20.0	Domestic
14138	A030683	Appropriative	Pending	2/27/1998	NA	41	Lvu			41.0	Domestic
14465	A031339	Appropriative	Pending	6/27/2002	NA	136	Lvu			136.0	Domestic
14526	A031467	Appropriative	Pending	11/25/2003	NA	46	Lvu			46.0	Domestic
27569	D032022	Domestic	Registered	4/16/2013	NA	3.2	DR-LU			3.2	Domestic
62901	D032762	Domestic	Registered	1/8/2018	NA	2.5	DR-LU			2.5	Domestic
65326	D032859	Domestic	Registered	2/13/2018	NA	0.31	DR-LU			0.3	Domestic
84818	D033272	Domestic	Pending		NA	1.79	DR-LU			1.4	Domestic
84819	D033273	Domestic	Pending		NA	0.9	Lvu		0.9		Domestic
4604	A015663	Appropriative	Licensed	12/28/1953	NA	159.3	DR-LU		159.3		Domestic
6151	A018274B	Appropriative	Licensed	8/19/1958	NA	5.3	Lvu			5.3	Fire Protection
10628	A025334	Appropriative	Licensed	4/21/1977	NA	12	Lvu			12.0	Fire Protection
11229	A026143	Appropriative	Licensed	12/3/1979	NA	3.6	Lvu			3.6	Fire Protection
11740	A027036	Appropriative	Licensed	10/7/1981	NA	5.5	Lvu			5.5	Fire Protection
11945	A027460	Appropriative	Licensed	7/29/1982	NA	14	Lvu			14.0	Fire Protection
12399	A028127	Appropriative	Licensed	4/30/1984	NA	49	Lvu			49.0	Fire Protection
12757	A028635	Appropriative	Licensed	12/3/1985	NA	0.4	Lvu			0.4	Fire Protection
12771	A028651	Appropriative	Permitted	12/3/1985	NA	6	Lvu			6.0	Fire Protection
12830	A028738	Appropriative	Licensed	1/17/1986	NA	1.3	Lvu			1.3	Fire Protection

West Fork Post-1949 Rights

Right #	Application #	Right Type	Right Status	Acceptance	Sub Type	Face Value	Review Code	Associated	Diversersion	Storage (afy)	Use Code
				Date		Amount			(afy)		
12873	A028787	Appropriative	Licensed	1/28/1986	NA	8.3	Lvu			8.3	Fire Protection
12974	A028925	Appropriative	Licensed	10/22/1986	NA	2.2	Lvu			2.2	Fire Protection
12975	A028926	Appropriative	Licensed	10/22/1986	NA	8	Lvu			8.0	Fire Protection
12976	A028927	Appropriative	Licensed	10/22/1986	NA	36	Lvu			36.0	Fire Protection
13344	A029401	Appropriative	Licensed	1/19/1989	NA	10	Lvu			10.0	Fire Protection
13397	A029480	Appropriative	Licensed	4/28/1989	NA	7.3	Lvu			7.3	Fire Protection
13917	A030349	Appropriative	Permitted	4/13/1994	NA	8.3	Lvu			8.3	Fire Protection
14509	A031435	Appropriative	Permitted	7/29/2003	NA	9	Lvu			9.0	Fire Protection
14511	A031437	Appropriative	Pending	7/30/2003	NA	47	Lvu			47.0	Fire Protection
14515	A031445	Appropriative	Pending	9/11/2003	NA	148	DR-MU			148.0	Fire Protection
67457	H500522	Cannabis	Registered		NA	1.38	Lvu			1.4	Fire Protection
9343	A023489	Appropriative	Licensed	4/27/1970	NA	7	Lvu			7.0	Fish and Wildlife
9593	A023869	Appropriative	Licensed	9/20/1971	NA	9.4	Lvu			9.4	Fish and Wildlife
12161	A027791	Appropriative	Licensed	7/6/1983	NA	36.7	Lvu			36.7	Fish and Wildlife
12768	A028648	Appropriative	Licensed	12/3/1985	NA	2.8	Lvu			2.8	Fish and Wildlife
13471	A029595	Appropriative	Licensed	10/26/1989	NA	28	Lvu			28.0	Fish and Wildlife
5388	A017091B	Appropriative	Licensed	5/14/1956	NA	49	Lvu			49.0	Frost Protection
5389	A017091C	Appropriative	Licensed	5/14/1956	NA	13	Lvu			13.0	Frost Protection
8421	A021966	Appropriative	Licensed	11/19/1964	NA	8.6	Lvu			8.6	Frost Protection
8595	A022277	Appropriative	Licensed	8/31/1965	NA	32	DR-MU		32.0		Frost Protection
9223	A023282	Appropriative	Licensed	5/20/1969	NA	14.5	Lvu			14.5	Frost Protection
9259	A023337	Appropriative	Licensed	8/25/1969	NA	31.5	Lvu			31.5	Frost Protection
9293	A023399	Appropriative	Licensed	11/17/1969	NA	6	Lvu			6.0	Frost Protection
9296	A023408	Appropriative	Licensed	12/9/1969	NA	4.4	Lvu			4.4	Frost Protection
9318	A023451	Appropriative	Licensed	2/18/1970	NA	15	Lvu			15.0	Frost Protection
9342	A023488	Appropriative	Licensed	4/27/1970	NA	10.4	Lvu			10.4	Frost Protection
9374	A023536	Appropriative	Licensed	6/24/1970	NA	11	Lvu			11.0	Frost Protection
9392	A023558	Appropriative	Licensed	7/14/1970	NA	11	Lvu			11.0	Frost Protection
9413	A023605	Appropriative	Licensed	9/11/1970	NA	8.6	Lvu			8.6	Frost Protection
9421	A023615	Appropriative	Licensed	9/22/1970	NA	17	Lvu			17.0	Frost Protection
9446	A023654A	Appropriative	Licensed	12/14/1970	NA	31.9	DR-MU		20.9	11.0	Frost Protection
9505	A023737	Appropriative	Licensed	3/24/1971	NA	41	DR-MU		28.0	12.0	Frost Protection
9510	A023748	Appropriative	Licensed	4/5/1971	NA	70	Lvu			70.0	Frost Protection
9548	A023802	Appropriative	Licensed	6/8/1971	NA	34	Lvu			34.0	Frost Protection
9570	A023836	Appropriative	Licensed	8/4/1971	NA	8	Lvu			8.0	Frost Protection
9592	A023868	Appropriative	Licensed	9/17/1971	NA	28	DR-MU		28.0		Frost Protection
9615	A023895	Appropriative	Licensed	10/13/1971	NA	28	Lvu			28.0	Frost Protection
9652	A023949	Appropriative	Licensed	26281	NA	36	Lvu		36.0		Frost Protection
9690	A024010	Appropriative	Licensed	26389	NA	9.4	Lvu		0.9	8.5	Frost Protection

West Fork Post-1949 Rights

Right #	Application #	Right Type	Right Status	Acceptance		Face Value		Review Code	Associated	Diversersion (afy)	Storage (afy)	Use Code
				Date	Sub Type	Amount						
9701	A024025	Appropriative	Licensed	26399	NA	23		LVU			23.0	Frost Protection
9717	A024044	Appropriative	Licensed	26403	NA	25		LVU			25.0	Frost Protection
9726	A024056	Appropriative	Licensed	26420	NA	40		LVU			40.0	Frost Protection
9755	A024104	Appropriative	Licensed	26480	NA	7		LVU			7.0	Frost Protection
9771	A024126	Appropriative	Licensed	26504	NA	31		LVU			31.0	Frost Protection
9775	A024130	Appropriative	Licensed	26507	NA	39.3		LVU			39.3	Frost Protection
9917	A024344	Appropriative	Licensed	26759	NA	6		LVU			6.0	Frost Protection
9970	A024425	Appropriative	Permitted	26876	NA	250		LVU			250.0	Frost Protection
10016	A024488	Appropriative	Licensed	26947	NA	3		LVU			3.0	Frost Protection
10023	A024502	Appropriative	Licensed	26984	NA	10		LVU			10.0	Frost Protection
10343	A024959	Appropriative	Licensed	27745	NA	4.2		LVU			4.2	Frost Protection
10370	A024996	Appropriative	Licensed	27808	NA	0.9		LVU			0.9	Frost Protection
11009	A025823B	Appropriative	Permitted	28747	NA	95.6		LVU		95.6		Frost Protection
11143	A026022A	Appropriative	Permitted	29018	NA	49.5		LVU			49.5	Frost Protection
11144	A026022B	Appropriative	Permitted	29018	NA	200		LVU		200.0		Frost Protection
11165	A026055A	Appropriative	Licensed	29062	NA	28		LVU			28	Frost Protection
11166	A026055B	Appropriative	Permitted	29062	NA	73		LVU		73		Frost Protection
11185	A026079	Appropriative	Licensed	29097	NA	4.4		LVU			4.4	Frost Protection
11268	A026201	Appropriative	Licensed	29264	NA	2		LVU			2	Frost Protection
11300	A026250	Appropriative	Licensed	29290	NA	8		LVU			8	Frost Protection
11677	A026927	Appropriative	Licensed	29788	NA	12		LVU			12	Frost Protection
11870	A027301	Appropriative	Licensed	30064	NA	4.1		LVU			4.1	Frost Protection
13180	A029202	Appropriative	Permitted	32212	NA	130		LVU			130	Frost Protection
13181	A029203	Appropriative	Permitted	32212	NA	120		LVU		120		Frost Protection
13929	A030363	Appropriative	Permitted	34464	NA	10		LVU			10	Frost Protection
14325	A031059	Appropriative	Permitted	36682	NA	5		DR-MU	A031060	3.5		Frost Protection
14326	A031060	Appropriative	Permitted	36682	NA	17		LVU			17	Frost Protection
14342	A031086	Appropriative	Pending	36738	NA	31		LVU		31		Frost Protection
14365	A031138	Appropriative	Pending	36921	NA	160		LVU		3.9		Frost Protection
14427	A031258	Appropriative	Pending	37242	NA	60		LVU			60	Frost Protection
14428	A031259	Appropriative	Permitted	37243	NA	38		DR-MU			38	Frost Protection
14429	A031260	Appropriative	Pending	37243	NA	109		LVU			109	Frost Protection
14501	A031418	Appropriative	Pending	37735	NA	116.3		LVU			116.3	Frost Protection
14552	A031513	Appropriative	Pending	38133	NA	72.7		LVU			72.7	Frost Protection
47975	A031843	Appropriative	Pending	40401	NA	14.7		LVU			14.7	Frost Protection
55139	H032009	Registration Irrigator	Registered	41327	NA	20		DR-MU			20	Frost Protection
59369	H032331	Registration Irrigator	Registered		NA	20		LVU			20	Frost Protection
9447	A023654B	Appropriative	Licensed	25916	NA	53.8		LVU				Heat Control
4582	A015610	Appropriative	Licensed	19675	NA	16.7		LVU		16.7		Irrigation
4946	A016347	Appropriative	Licensed	20206	NA	20.9		DR-MU		20.9		Irrigation
5890	A017868	Appropriative	Licensed	21124	NA	53		DR-MU		73.7851212		Irrigation
7637	A020657	Appropriative	Licensed	22721	NA	35		LVU			35	Irrigation

West Fork Post-1949 Rights

Right #	Application #	Right Type	Right Status	Acceptance	Sub Type	Face Value	Review Code	Associated	Diversersion	Storage (afy)	Use Code
				Date		Amount			(afy)		
7832	A020963	Appropriative	Licensed	22921	NA	47.8	LVU		3.8	44	Irrigation
7928	A021121	Appropriative	Licensed	23027	NA	10.9	LVU		10.9		Irrigation
8221	A021596	Appropriative	Licensed	23390	NA	0.4	LVU		0.4		Irrigation
8332	A021809	Appropriative	Licensed	23538	NA	23.1	LVU			23.1	Irrigation
8414	A021950	Appropriative	Licensed	23679	NA	29	LVU			29	Irrigation
9478	A023707	Appropriative	Licensed	25987	NA	8	LVU			8	Irrigation
9955	A024405	Appropriative	Licensed	26844	NA	24	LVU		8	16	Irrigation
11202	A026110	Appropriative	Licensed	29138	NA	16.2	LVU		5	11.2	Irrigation
13560	A029719	Appropriative	Permitted	32974	NA	51	LVU		25	26	Irrigation
14343	A031087	Appropriative	Pending	36738	NA	52	LVU			52	Irrigation
14368	A031141	Appropriative	Pending	36921	NA	320	LVU		120	200	Irrigation
68214	H500399	Cannabis	Registered		NA	0.97	DR-LU		0.97		Irrigation
70493	H505968	Cannabis	Registered		NA	0.77	DR-LU		0.77		Irrigation
74210	H508419	Cannabis	Registered		NA	0.68	DR-LU		0.68		Irrigation
75813	H509523	Cannabis	Registered		NA	0.09	DR-LU			0.09	Irrigation
6179	A018328	Appropriative	Licensed	21450	NA	5	LVU			5	Recreational
6773	A019336	Appropriative	Licensed	22007	NA	6.7	LVU			6.7	Recreational
5387	A017091A	Appropriative	Licensed	20589	NA	8	LVU			8	Stockwatering
27623	L031378	Livestock	Registered	37607	NA	8	LVU			8	Stockwatering
27629	L031414	Livestock	Registered	37728	NA	9.8	LVU			9.8	Stockwatering
27631	L031420	Livestock	Registered	37728	NA	3.1	LVU			3.1	Stockwatering
27647	L031528	Livestock	Registered	38208	NA	7.7	LVU			7.7	Stockwatering
27648	L031573	Livestock	Registered	38506	NA	0.3	LVU			0.3	Stockwatering
27653	L031605	Livestock	Registered	38743	NA	5.5	LVU			5.5	Stockwatering
58612	L032279	Livestock	Registered	42804	NA	0.56	LVU			0.56	Stockwatering

APPENDIX D

Hopland Points of Diversion

DRAFT

Hopland Pre-1949 Rights

Right #	Application #	Right Type	Right Status	Acceptance		Face Value		Review Code	Associated	Direct	Storage (afy)	Use Code
				Date	Sub Type	Amount	Diverversion (afy)					
36037	S013153	Statement	Claimed	2/16/1988	RIPERIAN,	0		DR-MU		---		Aquaculture
3278	A012919B	Appropriative	Licensed	1/28/1949	NA	130500		DR-MU		---		Domestic
35670	S012751	Statement	Claimed	10/23/1986	RIPERIAN,	0		DR-MU		2.2		Domestic
53056	S020709	Statement	Claimed	7/19/2012	PRE1914,	0		DR-LU		51.5		Domestic
53622	S021466	Statement	Claimed	8/15/2012	RIPERIAN,	0		DR-MU		0.1		Domestic
53631	S021475	Statement	Claimed	8/15/2012	RIPERIAN,	0		DR-MU	A031553, A031554	---		Domestic
58889	S024597	Statement	Claimed	9/5/2014	RIPERIAN,	0		DR-MU			0.2	Domestic
64625	S026678	Statement	Claimed	8/7/2017	RIPERIAN,	0		DR-LU		0.1		Domestic
64919	S026905	Statement	Claimed	8/21/2017	RIPERIAN,	0		DR-LU		0.0		Domestic
65537	S027304	Statement	Claimed	9/22/2017	RIPERIAN,	0		DR-LU		0.6		Domestic
65727	S027382	Statement	Claimed	10/2/2017	RIPERIAN,	0		DR-LU		0.9		Domestic
66054	S027491	Statement	Claimed	11/1/2017	RIPERIAN,	0		DR-LU		0.1		Domestic
38069	S015228	Statement	Claimed	4/22/2002	RIPERIAN,	0		DR-MU		668.1		Domestic
35352	S012429	Statement	Claimed	2/13/1986	RIPERIAN,	0		DR-LU			1.5	Fire Protection
35353	S012430	Statement	Claimed	2/13/1986	RIPERIAN,	0		DR-LU			1.5	Fire Protection
35354	S012431	Statement	Claimed	2/13/1986	RIPERIAN,	0		DR-LU			4.0	Fire Protection
35355	S012432	Statement	Claimed	2/13/1986	RIPERIAN,	0		DR-LU			5.0	Fire Protection
35356	S012433	Statement	Claimed	2/13/1986	RIPERIAN,	0		DR-LU			1.5	Fire Protection
35516	S012593	Statement	Claimed	12/27/1985	RIPERIAN,	0		DR-LU			1.5	Fish and Wildlife
31816	S008081	Statement	Claimed	1/1/1973	RIPERIAN,	0		DR-MU	Lic 12649			Frost Protection
31817	S008082	Statement	Claimed	1/1/1973	RIPERIAN,	0		DR-MU	Lic 12648			Frost Protection
33974	S010889	Statement	Claimed	7/19/1982	RIPERIAN,	0		DR-MU	Lic 11394			Frost Protection
36069	S013187	Statement	Claimed	9/13/1988	RIPERIAN,	0		DR-MU		---		Frost Protection
38079	S015238	Statement	Claimed	6/4/2001	RIPERIAN,	0		DR-MU		100.0		Frost Protection
38041	S015200	Statement	Claimed	10/21/2001	RIPERIAN,	0		DR-MU	018093B, A023926B, A0:	---		Frost Protection
38043	S015202	Statement	Claimed	10/21/2001	RIPERIAN,	0		DR-MU	018093B, A023926B, A0:	---		Frost Protection
38240	S015404	Statement	Claimed	1/28/2003	RIPERIAN,	0		DR-MU		---		Frost Protection
38198	S015362	Statement	Claimed	3/10/2003	RIPERIAN,	0		DR-MU		23.0		Frost Protection
38314	S015479	Statement	Claimed	1/14/2004	RIPERIAN,	0		DR-MU		24.3		Frost Protection
38315	S015480	Statement	Claimed	1/14/2004	RIPERIAN,	0		DR-MU		34.1		Frost Protection
38367	S015532	Statement	Claimed	7/28/2004	RIPERIAN,	0		DR-MU	A004832	15.0		Frost Protection
47418	S016370	Statement	Claimed	5/19/2010	RIPERIAN,	0		DR-LU		18.0		Frost Protection
47428	S016369	Statement	Claimed	5/19/2010	RIPERIAN,	0		DR-MU		7.0		Frost Protection
47429	S016368	Statement	Claimed	5/19/2010	RIPERIAN,	0		DR-MU		19.5		Frost Protection
47430	S016367	Statement	Claimed	5/19/2010	RIPERIAN,	0		DR-LU	Lic 3789	17.0		Frost Protection
47433	S016366	Statement	Claimed	5/19/2010	RIPERIAN,	0		DR-MU	Lic 11033	7.8		Frost Protection
47435	S016364	Statement	Claimed	5/19/2010	RIPERIAN,	0		DR-MU		5.0		Frost Protection

Hopland Pre-1949 Rights

Right #	Application #	Right Type	Right Status	Acceptance		Face Value		Review Code	Associated	Direct	Storage (afy)	Use Code
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47436	S016363	Statement	Claimed	5/19/2010	RIPERIAN,	0		DR-MU	A029512	30.0		Frost Protection
52367	S018139	Statement	Claimed	5/31/2012	RIPERIAN,	0		DR-MU	A030988	---		Frost Protection
53297	S020788	Statement	Claimed	8/2/2012	RIPERIAN,	0		DR-LU		1.5		Frost Protection
53396	S021339	Statement	Claimed	8/7/2012	RIPERIAN,	0		DR-MU		2.0		Frost Protection
53466	S021398	Statement	Claimed	8/8/2012	RIPERIAN,	0		DR-MU		3.4		Frost Protection
55692	S022724	Statement	Claimed	6/12/2013	RIPERIAN,	0		DR-MU	S022725	---	20.0	Frost Protection
55964	S022877	Statement	Claimed	8/6/2013	RIPERIAN,	0		DR-MU	Lic 08542	---		Frost Protection
55969	S022882	Statement	Claimed	8/7/2013	RIPERIAN,	0		DR-MU	Lic 08542	---		Frost Protection
58104	S024370	Statement	Claimed	3/19/2014	RIPERIAN,	0		DR-MU	A015157	1.2		Frost Protection
539	A003421	Appropriative	Licensed	5/16/1923	NA	118.9				118.9		Irrigation
568	A003565	Appropriative	Licensed	8/3/1923	NA	128.3				128.3		Irrigation
756	A004308	Appropriative	Licensed	11/7/1924	NA	91.3				91.3		Irrigation
889	A004832	Appropriative	Licensed	11/12/1925	NA	36.5		DR-MU	A012958	36.5		Irrigation
1366	A006854	Appropriative	Licensed	12/26/1930	NA	29.4				29.4		Irrigation
1367	A006855	Appropriative	Licensed	12/26/1930	NA	110.7				110.7		Irrigation
3020	A012232	Appropriative	Licensed	1/8/1948	NA	96.5					96.5	Irrigation
29552	S002341	Statement	Claimed	1/1/1967	RIPERIAN,	0		DR-MU		28.0		Irrigation
32022	S008380	Statement	Claimed	1/1/1974	RIPERIAN,	0				4.1		Irrigation
32026	S008384	Statement	Claimed	1/1/1974	RIPERIAN,	0		DR-LU		27.9		Irrigation
32032	S008392	Statement	Claimed	1/1/1974	RIPERIAN,	0		DR-MU		4.0		Irrigation
32298	S008766	Statement	Claimed	5/5/1976	RIPERIAN,	0		DR-MU		32.0		Irrigation
35668	S012749	Statement	Claimed	8/26/1986	RIPERIAN,	0		DR-LU		1.2		Irrigation
38473	S015677	Statement	Claimed	7/29/2001	RIPERIAN,	0		DR-MU	A017911A	417.0		Irrigation
38201	S015365	Statement	Claimed	9/28/2001	RIPERIAN,	0		DR-MU		56.0		Irrigation
38484	S015690	Statement	Claimed	2/4/2002	RIPERIAN,	0		DR-LU		1.4	1	Irrigation
38485	S015691	Statement	Claimed	2/4/2002	RIPERIAN,	0		DR-MU		74.3		Irrigation
38549	S015805	Statement	Claimed	5/28/2002	RIPERIAN,	0		DR-LU		40.2		Irrigation
38511	S015745	Statement	Claimed	12/11/2002	RIPERIAN,	0		DR-LU		3.2		Irrigation
38312	S015477	Statement	Claimed	1/14/2004	RIPERIAN,	0		DR-MU	A013661	226.4		Irrigation
38442	S015621	Statement	Claimed	11/5/2004	RIPERIAN,	0		DR-LU		150.0		Irrigation
38636	S015924	Statement	Claimed	4/27/2005	RIPERIAN,	0		DR-LU		70.0		Irrigation
51434	S020069	Statement	Claimed	3/8/2012	RIPERIAN,	0		DR-MU		---		Irrigation
51914	S016781	Statement	Claimed	4/18/2012	RIPERIAN,	0		DR-MU	A031386	---		Irrigation
51921	S016782	Statement	Claimed	4/18/2012	RIPERIAN,	0		DR-MU	A031386	---		Irrigation
51923	S016783	Statement	Claimed	4/18/2012	RIPERIAN,	0		DR-MU	A031386	---		Irrigation
52108	S019769	Statement	Claimed	4/26/2012	PRE1914,	0		DR-MU	A015704	---		Irrigation
52112	S019766	Statement	Claimed	4/26/2012	PRE1914,	0		DR-MU	A015704	---		Irrigation
52362	S018133	Statement	Claimed	5/30/2012	RIPERIAN,	0		DR-MU	A030988		20.0	Irrigation
52371	S018151	Statement	Claimed	41060	RIPERIAN,	0		DR-MU	A030988		6.0	Irrigation
53363	S021309	Statement	Claimed	41128	RIPERIAN,	0		DR-MU	A030986	---		Irrigation
53448	S021381	Statement	Claimed	41129	RIPERIAN,	0		DR-MU	591, A029592, A030036	---		Irrigation
53452	S021384	Statement	Claimed	41129	RIPERIAN,	0		DR-MU	591, A029592, A030036	---		Irrigation

Hopland Pre-1949 Rights

Right #	Application #	Right Type	Right Status	Acceptance		Face Value		Review Code	Associated	Direct	Storage (afy)	Use Code
				Date	Sub Type	Amount	Diverersion (afy)					
53453	S021385	Statement	Claimed	41129	RIPERIAN,	0	DR-MU	591, A029592, A030036	---			Irrigation
58393	S024410	Statement	Claimed	41775	RIPERIAN,	0	DR-MU		0.0			Irrigation
64583	S026644	Statement	Claimed	42950	RIPERIAN,	0	DR-MU			3.3		Irrigation
65538	S027305	Statement	Claimed	43000	RIPERIAN,	0	DR-LU		2.2			Irrigation
65689	S027372	Statement	Claimed	43006	RIPERIAN,	0	DR-MU		---			Irrigation
66092	S027519	Statement	Claimed	43047	RIPERIAN,	0	DR-LU		0.0			Irrigation
66211	S027572	Statement	Claimed	43056	RIPERIAN,	0	LVU		0.1			Irrigation
67201	S027644	Statement	Claimed	43196	RIPERIAN,	0	DR-MU			3.0		Irrigation
73332	S028323	Statement	Claimed	43871	RIPERIAN,	0	DR-MU		70.0			Irrigation
32297	S008765	Statement	Claimed	27885	RIPERIAN,	0	DR-MU		31.0			Irrigation
32414	S008910	Statement	Claimed	27991	RIPERIAN,	0	DR-MU		40.0			Irrigation
33928	S010843	Statement	Claimed	30007	RIPERIAN,	0	DR-MU		42.0			Irrigation
34054	S010997	Statement	Claimed	30274	RIPERIAN,	0	DR-MU		18.1			Irrigation
36828	S013977	Statement	Claimed	33997	RIPERIAN,	0	DR-MU		14.0			Irrigation
37172	S014322	Statement	Claimed	34737	RIPERIAN,	0	DR-LU		108.0			Irrigation
37567	S014724	Statement	Claimed	35544	RIPERIAN,	0	DR-MU		25.0			Irrigation
37592	S014749	Statement	Claimed	35544	RIPERIAN,	0	DR-MU		63.2			Irrigation
38550	S015806	Statement	Claimed	37404	RIPERIAN,	0	DR-MU		280.0			Irrigation
38149	S015313	Statement	Claimed	37568	RIPERIAN,	0	DR-MU		60.0			Irrigation
38185	S015349	Statement	Claimed	37617	RIPERIAN,	0	DR-MU		82.0			Irrigation
38250	S015414	Statement	Claimed	37638	RIPERIAN,	0	DR-MU		30.0			Irrigation
38239	S015403	Statement	Claimed	37649	RIPERIAN,	0	DR-MU		270.0			Irrigation
47371	S016329	Statement	Claimed	40263	RIPERIAN,	0	DR-MU	A017911A/B	190.0			Irrigation
38545	S015800	Statement	Claimed	37713	NA	0	DR-MU		34.8			Irrigation
52284	S017791	Statement	Claimed	41051	RIPERIAN,	0	DR-MU	A014997B	13.0			Irrigation
55697	S022725	Statement	Claimed	41442	RIPERIAN,	0	DR-MU	S022724	21.0			Irrigation
55698	S022726	Statement	Claimed	41442	RIPERIAN,	0	DR-MU	S022724/5	42.0			Irrigation
298	A001983	Appropriative	Licensed	7544	NA	369.2	DR-LU		369.2			Irrigation
576	A003601	Appropriative	Licensed	8633	NA	27.1	DR-LU		27.1			Irrigation
31811	S008075	Statement	Claimed	26665	RIPERIAN,	0	DR-LU		15.6			Irrigation
32159	S008596	Statement	Claimed	27395	RIPERIAN,	0	DR-LU	Lic 10399	23.9			Irrigation
32878	S009525	Statement	Claimed	31772	RIPERIAN,	0	DR-LU		1.7			Irrigation
51939	S017657	Statement	Claimed	41018	RIPERIAN,	0	DR-MU		0.2			Irrigation
58822	S024552	Statement	Claimed	41872	RIPERIAN,	0	DR-MU		0.2			Irrigation
38483	S015689	Statement	Claimed	37291	RIPERIAN,	0	DR-MU	Lic 9559	38.5			Irrigation
38313	S015478	Statement	Claimed	38000	RIPERIAN,	0	DR-MU		100.0			Irrigation
51741	S017157	Statement	Claimed	41009	PRE1914,	0	DR-MU			85.0		Recreational
51743	S017160	Statement	Claimed	41009	PRE1914,	0	DR-MU			27.0		Recreational

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				Date	Sub Type	Amount	Diversion (afy)			Storage (afy)			
56123	D032187	Domestic	Registered	8/23/2013	NA	10				0.0	10	Aesthetic	
59112	D032314	Domestic	Registered	10/31/2014	NA	2.09				0.0	2.09	Aesthetic	
4364	A015187	Appropriative	Licensed	2/4/1953	NA	0.5				0.5		Domestic	
5710	A017587	Appropriative	Permitted	5/8/1957	NA	1440				1,440.0		Domestic	
6651	A019135	Appropriative	Licensed	12/14/1959	NA	1				1.0		Domestic	
8078	A021345	Appropriative	Licensed	6/17/1963	NA	1.1				1.1		Domestic	
8409	A021939	Appropriative	Licensed	10/15/1964	NA	0.3				0.3		Domestic	
8840	A022692	Appropriative	Licensed	1/30/1967	NA	7.2				7.2		Domestic	
13468	A029592	Appropriative	Permitted	10/23/1989	NA	180		S021385		180.0		Domestic	
13891	A030290	Appropriative	Pending	10/12/1993	NA	17				0.0	17.0	Domestic	
14350	A031094	Appropriative	Permitted	8/22/2000	NA	91				91.0		Domestic	
14354	A031105	Appropriative	Pending	9/5/2000	NA	52				32.0	20.0	Domestic	
14488	A031386	Appropriative	Pending	1/22/2003	NA	46		S016781		0.0	46.0	Dust Control	
5742	A017642	Appropriative	Licensed	6/11/1957	NA	7				0.0	7.0	Fire Protection	
8684	A022426	Appropriative	Licensed	3/17/1966	NA	1.1				1.1	0.0	Fire Protection	
10117	A024645	Appropriative	Licensed	7/17/1974	NA	5.2				0.0	5.2	Fire Protection	
10227	A024807	Appropriative	Licensed	5/7/1975	NA	1				0.0	1.0	Fire Protection	
10412	A025052	Appropriative	Licensed	4/20/1976	NA	9				0.0	9.0	Fire Protection	
13289	A029338	Appropriative	Licensed	9/28/1988	NA	13.4				0.0	13.4	Fire Protection	
13396	A029479	Appropriative	Licensed	4/28/1989	NA	3.1				0.0	3.1	Fire Protection	
14095	A030615	Appropriative	Pending	4/24/1997	NA	45				0.0	45.0	Fire Protection	
14492	A031398	Appropriative	Pending	2/21/2003	NA	49				0.0	49.0	Fire Protection	
14504	A031426	Appropriative	Pending	5/15/2003	NA	45				0.0	45.0	Fire Protection	
14557	A031519	Appropriative	Pending	6/21/2004	NA	70				0.0	70.0	Fire Protection	
48380	A031877	Appropriative	Permitted	4/14/2011	NA	67.9				0.0	67.9	Fire Protection	
77796	H033201	Registration Irrigator	Pending	12/3/2019	NA	20				0.0	20.0	Fire Protection	
9573	A023839	Appropriative	Licensed	8/11/1971	NA	6.3				0.0	6.3	Fish and Wildlife	
9574	A023840	Appropriative	Licensed	8/11/1971	NA	16				0.0	16.0	Fish and Wildlife	
11203	A026111	Appropriative	Licensed	10/10/1979	NA	7				0.0	7.0	Fish and Wildlife	
55342	D032041	Domestic	Registered	4/30/2013	NA	2				2.0	0.0	Fish and Wildlife	
9062	A023040	Appropriative	Licensed	5/2/1968	NA	190		S016366		190.0	####	0.0	Frost Protection
9315	A023446B	Appropriative	Permitted	2/6/1970	NA	232				232.0	####	0.0	Frost Protection
9452	A023663	Appropriative	Licensed	12/21/1970	NA	26.1				22.1	22.1	4.0	Frost Protection

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				Date	Sub Type	Amount	Diversion (afy)			Storage (afy)			
9544	A023794	Appropriative	Licensed	6/1/1971	NA	12.5				0.0	0.0	12.5	Frost Protection
9557	A023817	Appropriative	Licensed	6/29/1971	NA	4.8				4.8	4.8	0.0	Frost Protection
9601	A023880	Appropriative	Licensed	9/30/1971	NA	80.9				31.0	31.0	49.9	Frost Protection
9634	A023926A	Appropriative	Licensed	11/22/1971	NA	19.8				19.8	19.8	0.0	Frost Protection
9635	A023926B	Appropriative	Licensed	11/23/1971	NA	80	DR-MU	A017145		80.0	80.0	0.0	Frost Protection
9693	A024014	Appropriative	Licensed	4/3/1972	NA	18.5				18.5		0.0	Frost Protection
9724	A024053	Appropriative	Licensed	4/27/1972	NA	13.2				0.0		13.2	Frost Protection
9780	A024139	Appropriative	Licensed	8/8/1972	NA	50		S008081		0.0		50.0	Frost Protection
9781	A024140	Appropriative	Permitted	8/8/1972	NA	600				550.0		50.0	Frost Protection
9958	A024409	Appropriative	Permitted	7/6/1973	NA	20				15.0		5.0	Frost Protection
10000	A024457	Appropriative	Licensed	9/13/1973	NA	24			185	4.0		20.0	Frost Protection
10097	A024617	Appropriative	Licensed	6/6/1974	NA	108				108.0		0.0	Frost Protection
10147	A024691A	Appropriative	Licensed	9/19/1974	NA	76				54.0		22.0	Frost Protection
10148	A024691B	Appropriative	Permitted	9/19/1974	NA	221				221.0		0.0	Frost Protection
10178	A024741	Appropriative	Licensed	1/21/1975	NA	18				0.0		18.0	Frost Protection
10189	A024763B	Appropriative	Licensed	2/28/1975	NA	86				86.0		0.0	Frost Protection
10212	A024789B	Appropriative	Permitted	3/27/1975	NA	23				23.0		0.0	Frost Protection
10294	A024898	Appropriative	Licensed	10/10/1975	NA	25				0.0		25.0	Frost Protection
10466	A025123	Appropriative	Licensed	8/4/1976	NA	11.2		S010889		0.0		11.2	Frost Protection
10581	A025268	Appropriative	Licensed	2/28/1977	NA	18.5				18.5		0.0	Frost Protection
11006	A025822A	Appropriative	Licensed	9/13/1978	NA	38.3				12.3		26.0	Frost Protection
11007	A025822B	Appropriative	Licensed	9/13/1978	NA	96				96.0		0.0	Frost Protection
11760	A027075	Appropriative	Licensed	11/2/1981	NA	5.4				0.0		5.4	Frost Protection
12009	A027582	Appropriative	Licensed	11/12/1982	NA	115				91.0		24.0	Frost Protection
12011	A027584	Appropriative	Licensed	11/12/1982	NA	105				105.0		0.0	Frost Protection
12008	A027581	Appropriative	Permitted	11/12/1982	NA	30				30.0		0.0	Frost Protection
12284	A027992	Appropriative	Licensed	3/14/1984	NA	16				0.0		16.0	Frost Protection
12919	A028854	Appropriative	Permitted	6/9/1986	NA	100				100.0		0.0	Frost Protection
12945	A028886	Appropriative	Licensed	9/8/1986	NA	6				0.0		6.0	Frost Protection
13416	A029512	Appropriative	Permitted	7/6/1989	NA	33	DR-LU	S016363		0.0		33.0	Frost Protection
13426	A029526	Appropriative	Pending	7/25/1989	NA	24.7				24.7		0.0	Frost Protection
13467	A029591	Appropriative	Permitted	10/23/1989	NA	30		S021385		30.0		0.0	Frost Protection
13563	A029723	Appropriative	Licensed	4/23/1990	NA	8.7				8.7		0.0	Frost Protection
13584	A029763	Appropriative	Pending	6/15/1990	NA	139				0.0		139.0	Frost Protection
13726	A030036	Appropriative	Permitted	11/12/1991	NA	74.4		S021385		74.4		0.0	Frost Protection
14054	A030553	Appropriative	Pending	7/1/1996	NA	40				0.0		40.0	Frost Protection
59767	A030877B	Appropriative	Pending	4/27/1999	NA	15.8				15.8		0.0	Frost Protection
59768	A030878B	Appropriative	Pending	4/27/1999	NA	15.2				15.2		0.0	Frost Protection
14279	A030986	Appropriative	Pending	11/22/1999	NA	122.6		S021309		122.6		0.0	Frost Protection
14280	A030987	Appropriative	Pending	11/22/1999	NA	322.7				322.7		0.0	Frost Protection
14323	A031057	Appropriative	Pending	5/12/2000	NA	45				0.0		45.0	Frost Protection
14347	A031091	Appropriative	Pending	8/21/2000	NA	50				50.0		0.0	Frost Protection
14348	A031092	Appropriative	Pending	36760	NA	72				72.0		0.0	Frost Protection
14349	A031093	Appropriative	Pending	36760	NA	338				338.0		0.0	Frost Protection
14392	A031183	Appropriative	Permitted	37021	NA	49.5				0.0		49.5	Frost Protection

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14424	A031255	Appropriative	Permitted	37236	NA	31.7				0.0	31.7	Frost Protection
14525	A031465	Appropriative	Pending	37950	NA	60				60.0	0.0	Frost Protection
48260	A031870	Appropriative	Permitted	40648	NA	274	DR-MU	023926B, A018093B		0.0	274.0	Frost Protection
59433	H032345	Registration Irrigator	Registered	42041	NA	4.9				0.0	4.9	Frost Protection
3795	A013974	Appropriative	Licensed	18538	NA	144.4				144.4	0.0	Industrial
3294	A012958	Appropriative	Licensed	17960	NA	455.2	DR-MU			455.2	0.0	Irrigation
3322	A013030A	Appropriative	Licensed	18006	NA	120				120.0	0.0	Irrigation
3323	A013030B	Appropriative	Licensed	18006	NA	179.9				179.9	0	Irrigation
3431	A013270	Appropriative	Licensed	18108	NA	109.8	DR-LU	S016367		109.8	0	Irrigation
3447	A013287	Appropriative	Licensed	18119	NA	170.6				170.6	0	Irrigation
3448	A013288	Appropriative	Licensed	18119	NA	190.2				190.2	0	Irrigation
3570	A013528	Appropriative	Licensed	18266	NA	344.9				344.9	0	Irrigation
3794	A013973	Appropriative	Licensed	18538	NA	62.4				62.4	0	Irrigation
3895	A014160	Appropriative	Licensed	18672	NA	72.7				72.7	0	Irrigation
3915	A014206	Appropriative	Licensed	18707	NA	3				3	0	Irrigation
3960	A014304	Appropriative	Licensed	18762	NA	69				69	0	Irrigation
4071	A014539	Appropriative	Licensed	18930	NA	204.7				204.7	0	Irrigation
4105	A014624	Appropriative	Licensed	19014	NA	105.5				105.5	0	Irrigation
4236	A014916A	Appropriative	Licensed	19196	NA	69.7				69.7	0	Irrigation
4237	A014916B	Appropriative	Licensed	19196	NA	113.8				113.8	0	Irrigation
4272	A014997A	Appropriative	Licensed	19233	NA	70				70	0	Irrigation
4273	A014997B	Appropriative	Licensed	19233	NA	57	DR-LU	S017791		57	0	Irrigation
4349	A015157	Appropriative	Licensed	19379	NA	336				336	0	Irrigation
4354	A015168	Appropriative	Licensed	19381	NA	88				88	0	Irrigation
4611	A015677	Appropriative	Licensed	19735	NA	78.1				78.1	0	Irrigation
4612	A015678	Appropriative	Licensed	19735	NA	61				61	0	Irrigation
4676	A015780	Appropriative	Licensed	19800	NA	300.9				300.9	0	Irrigation
4677	A015781	Appropriative	Licensed	19800	NA	56				56	0	Irrigation
4678	A015782	Appropriative	Licensed	19800	NA	322.9				322.9	0	Irrigation
4686	A015796	Appropriative	Licensed	19808	NA	68.2				68.2	0	Irrigation
4851	A016155	Appropriative	Licensed	20057	NA	101.8				101.8	0	Irrigation
4927	A016308	Appropriative	Licensed	20190	NA	152.7				152.7	0	Irrigation
4986	A016416	Appropriative	Licensed	20253	NA	54				54	0	Irrigation
5063	A016561	Appropriative	Licensed	20331	NA	583.9				583.9	0	Irrigation
5161	A016758	Appropriative	Licensed	20423	NA	366.7				366.7	0	Irrigation
5565	A017366	Appropriative	Licensed	20778	NA	27				27	0	Irrigation
5730	A017622	Appropriative	Licensed	20964	NA	60				60	0	Irrigation
5732	A017624	Appropriative	Licensed	20964	NA	192		S008082		192	0	Irrigation
5915	A017911A	Appropriative	Licensed	21164	NA	288	DR-MU	S015677		---	0	Irrigation

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5916	A017911B	Appropriative	Licensed	21164	NA	94			S016392	94	0	Irrigation
6039	A018093A	Appropriative	Licensed	21286	NA	50				50	0	Irrigation
6103	A018200	Appropriative	Licensed	21362	NA	67				67	0	Irrigation
7641	A020662	Appropriative	Licensed	22725	NA	89			S015689	89	0	Irrigation
7918	A021106	Appropriative	Licensed	23014	NA	128.4	DR-LU		S022877	128.4	0	Irrigation
7929	A021126	Appropriative	Licensed	23032	NA	215				215	0	Irrigation
7930	A021127	Appropriative	Licensed	23032	NA	199.9				199.9	0	Irrigation
8347	A021838	Appropriative	Licensed	23566	NA	34.4				34.4	0	Irrigation
8365	A021870	Appropriative	Licensed	23606	NA	89				89	0	Irrigation
8401	A021927	Appropriative	Licensed	23658	NA	42				42	0	Irrigation
8402	A021928	Appropriative	Licensed	23658	NA	157				157	0	Irrigation
8447	A022005B	Appropriative	Licensed	23728	NA	7.1				7.1	0	Irrigation
8552	A022208	Appropriative	Licensed	23924	NA	56				56	0	Irrigation
8611	A022306	Appropriative	Licensed	24021	NA	43				43	0	Irrigation
8910	A022802	Appropriative	Licensed	24628	NA	327				327	0	Irrigation
8917	A022815	Appropriative	Licensed	24632	NA	101				101	0	Irrigation
8963	A022881	Appropriative	Licensed	24694	NA	63				63	0	Irrigation
9059	A023035	Appropriative	Licensed	24954	NA	74				74	0	Irrigation
9135	A023163	Appropriative	Licensed	25160	NA	208				208	0	Irrigation
9248	A023326	Appropriative	Licensed	25427	NA	11				0	11	Irrigation
9455	A023671	Appropriative	Licensed	25946	NA	244				244	0	Irrigation
10211	A024789A	Appropriative	Licensed	27480	NA	12.4				12.4	0	Irrigation
10237	A024820	Appropriative	Licensed	27557	NA	40				40	0	Irrigation
11029	A025850	Appropriative	Licensed	28775	NA	45				45	0	Irrigation
12010	A027583	Appropriative	Permitted	30267	NA	40				20	20	Irrigation
13425	A029525	Appropriative	Pending	32714	NA	5.6				5.6	0	Irrigation
14377	A031159	Appropriative	Pending	36964	NA	160				100	60	Irrigation
14383	A031171	Appropriative	Permitted	36976	NA	30				0	30	Irrigation
14489	A031387	Appropriative	Pending	37643	NA	27				0	27	Irrigation
14524	A031464	Appropriative	Pending	37950	NA	206				128	78	Irrigation
14579	A031553	Appropriative	Pending	38349	NA	167				167	0	Irrigation
14580	A031554	Appropriative	Pending	38349	NA	665				665	0	Irrigation
73208	A015158A	Appropriative	Licensed		NA	19				19	0	Irrigation
73209	A015158B	Appropriative	Licensed		NA	34				34	0	Irrigation
67990	H501586	Cannabis	Registered		NA	0.35				0	0.35	Irrigation
70495	H505765	Cannabis	Registered		NA	0.81				0.59	0.22	Irrigation
70670	H505809	Cannabis	Registered		NA	0.15				0	0.15	Irrigation
6040	A018093B	Appropriative	Licensed	21286	NA	279	DR-MU	.7145, 23926B, 31870		279	0	Irrigation
9061	A023039	Appropriative	Licensed	24960	NA	86			S008596	86	0	Irrigation
13349	A029406	Appropriative	Licensed	32540	NA	14.8				14.8	0	Heat Control
4630	A015704	Appropriative	Permitted	19749	NA	14479.6			S019769	14479.6	0	Municipal
4640	A015721	Appropriative	Licensed	19766	NA	724				724	0	Municipal

Hopland Post-1949 Rights

Right #	Application #	Right Type	Right Status	Acceptance	Sub Type	Face Value	Review Code	Associated	Direct	Storage (afy)	Use Code
				Date		Amount			Diversion (afy)		
5484	A017232	Appropriative	Permitted	20677	NA	884.8			884.8	0	Municipal
9453	A023664	Appropriative	Licensed	25925	NA	24			24	0	Municipal
55813	D032143	Domestic	Registered	41458	NA	5			0	5	Other
27633	L031422	Livestock	Registered	37743	NA	2.1			0	2.1	Stockwatering
27634	L031423	Livestock	Registered	37743	NA	5			0	5	Stockwatering
27635	L031424	Livestock	Registered	37743	NA	7			0	7	Stockwatering
27654	L031607	Livestock	Registered	38743	NA	4			0	4	Stockwatering
27664	L031669	Livestock	Registered	39315	NA	9			0	9	Stockwatering
49225	L031908	Livestock	Registered	40840	NA	6.1			0	6.1	Stockwatering
14833	C000222	Stockpond	Certified	27841	NA	0			0	1	Stockwatering
14834	C000223	Stockpond	Certified	27841	NA	0			0	1	Stockwatering

DRAFT

APPENDIX E

Cloverdale Points of Diversion

DRAFT

Cloverdale Pre-1949 Rights

Right #	Application #	Right Type	Right Status	Acceptance		Face Value		Review Code	Associated	Direct	Storage (afy)	Use Code
				Date	Sub Type	Amount	Diversion (afy)					
57115	S023888	Statement	Claimed	12/11/2013	PRE1914,	0		DR-LU			49	Aesthetic
72309	S028257	Statement	Claimed	10/9/2019	RIPERIAN,	0		DR-LU			2.195	Aesthetic
72310	S028258	Statement	Claimed	10/9/2019	RIPERIAN,	0		DR-LU			2.444	Aesthetic
3278	A012919B	Appropriative	Licensed	1/28/1949	NA	130500		DR-MU		---		Domestic
52590	S018187	Statement	Claimed	6/21/2012	RIPERIAN,	0		DR-MU		2.0		Domestic
55297	S022490	Statement	Claimed	4/29/2013	RIPERIAN,	0		DR-MU		0.0		Domestic
57263	S023995	Statement	Claimed	12/24/2013	OTHER,	0		DR-MU			3.3	Domestic
57264	S023996	Statement	Claimed	12/24/2013	OTHER,	0		DR-MU			0.2	Domestic
57265	S023997	Statement	Claimed	12/24/2013	OTHER,	0		DR-MU			3.4	Domestic
64584	S026645	Statement	Claimed	8/3/2017	RIPERIAN,	0		LVU		0.4		Domestic
64786	S026797	Statement	Claimed	8/11/2017	RIPERIAN,	0		LVU		1.3		Domestic
65154	S027089	Statement	Claimed	8/31/2017	RIPERIAN,	0		DR-LU		7.9		Domestic
65155	S027090	Statement	Claimed	8/31/2017	RIPERIAN,	0		LVU		0.3		Domestic
65280	S027159	Statement	Claimed	9/7/2017	RIPERIAN,	0		LVU		0.4		Domestic
65687	S027371	Statement	Claimed	9/28/2017	RIPERIAN,	0		DR-MU			0.0	Domestic
67303	S027664	Statement	Claimed	4/25/2018	RIPERIAN,	0		LVU		0.2		Domestic
53462	S021394	Statement	Claimed	8/8/2012	RIPERIAN,	0		DR-LU			20.0	Fire Protection
53463	S021395	Statement	Claimed	8/8/2012	RIPERIAN,	0		DR-LU			25.0	Fire Protection
55862	S022799	Statement	Claimed	7/18/2013	OTHER,	0		DR-LU			1.1	Fire Protection
55865	S022800	Statement	Claimed	7/18/2013	OTHER,	0		DR-LU			1.2	Fire Protection
55866	S022801	Statement	Claimed	7/18/2013	OTHER,	0		DR-LU			4.7	Fire Protection
55868	S022803	Statement	Claimed	7/18/2013	OTHER,	0		LVU			1.8	Fire Protection
55869	S022804	Statement	Claimed	7/18/2013	OTHER,	0		LVU			0.6	Fire Protection
56002	S022914	Statement	Claimed	8/9/2013	OTHER,	0		LVU			24.0	Fire Protection
64595	S026656	Statement	Claimed	8/3/2017	RIPERIAN,	0		LVU			2.0	Fire Protection
65146	S027081	Statement	Claimed	8/31/2017	RIPERIAN,	0		LVU			3.5	Fire Protection
35518	S012595	Statement	Claimed	12/27/1985	OTHER,	0		LVU			1.5	Fish and Wildlife
52540	S021080	Statement	Claimed	6/20/2012	OTHER,	0		LVU			24.0	Fish and Wildlife
57091	S023870	Statement	Claimed	12/6/2013	OTHER,	0		LVU			5.0	Fish and Wildlife
57385	S024097	Statement	Claimed	1/8/2014	RIPERIAN,	0		LVU			122.5	Fish and Wildlife
67877	S027865	Statement	Claimed	7/18/2018	RIPERIAN,	0		LVU			9.0	Fish and Wildlife
37881	S015041	Statement	Claimed	2/10/1999	RIPERIAN,	0		DR-MU	A013755, S015047	---		Frost Protection
37882	S015042	Statement	Claimed	2/10/1999	RIPERIAN,	0		DR-MU	A013755, S015047	---		Frost Protection

Cloverdale Pre-1949 Rights

Right #	Application #	Right Type	Right Status	Acceptance		Face Value		Review Code	Associated	Direct	Storage (afy)	Use Code
				Date	Sub Type	Amount	Diversion (afy)					
38040	S015199	Statement	Claimed	10/21/2001	RIPERIAN,	0		DR-MU		---		Frost Protection
38042	S015201	Statement	Claimed	10/21/2001	RIPERIAN,	0		DR-MU		---		Frost Protection
47595	S016885	Statement	Claimed	6/25/2010	RIPERIAN,	0		DR-MU	A029783	---		Frost Protection
51654	S016886	Statement	Claimed	4/4/2012	RIPERIAN,	0		DR-MU	A031446	---		Frost Protection
51655	S016887	Statement	Claimed	4/4/2012	RIPERIAN,	0		DR-MU	A029783	---		Frost Protection
47656	S017050	Statement	Claimed	6/25/2010	RIPERIAN,	0		DR-MU	A031184	---		Frost Protection
47659	S017052	Statement	Claimed	6/25/2010	RIPERIAN,	0		DR-MU	A031184	---		Frost Protection
51959	S017309	Statement	Claimed	4/19/2012	RIPERIAN,	0		DR-MU			15.0	Frost Protection
51970	S017312	Statement	Claimed	4/19/2012	RIPERIAN,	0		DR-MU			49.0	Frost Protection
52357	S018130	Statement	Claimed	5/30/2012	RIPERIAN,	0		DR-MU	A030988?		18.0	Frost Protection
52364	S018136	Statement	Claimed	5/30/2012	RIPERIAN,	0		DR-MU	A030988?		20.0	Frost Protection
52536	S018154	Statement	Claimed	6/20/2012	RIPERIAN,	0		DR-MU	A030988?		25.0	Frost Protection
52593	S018193	Statement	Claimed	6/21/2012	RIPERIAN,	0		DR-MU	A029760	---		Frost Protection
52401	S018208	Statement	Claimed	6/6/2012	RIPERIAN,	0		DR-MU	A029760	---		Frost Protection
52421	S018217	Statement	Claimed	6/7/2012	RIPERIAN,	0		DR-MU	A031336	---		Frost Protection
52423	S018220	Statement	Claimed	6/7/2012	RIPERIAN,	0		DR-MU	A031336	---		Frost Protection
52427	S018223	Statement	Claimed	6/7/2012	RIPERIAN,	0		DR-MU	A031336	---		Frost Protection
52625	S018474	Statement	Claimed	6/25/2012	RIPERIAN,	0		DR-MU	A030015	---		Frost Protection
52627	S018477	Statement	Claimed	6/25/2012	RIPERIAN,	0		DR-MU	A030015	---		Frost Protection
52632	S018480	Statement	Claimed	6/26/2012	RIPERIAN,	0		DR-MU	A030015	---		Frost Protection
54355	S022008	Statement	Claimed	9/24/2012	RIPERIAN,	0		DR-LU	A013749	1.4		Frost Protection
54876	S022386	Statement	Claimed	11/28/2012	OTHER,	0		DR-LU			17.8	Frost Protection
56924	S023711	Statement	Claimed	11/18/2013	OTHER,	0		DR-LU	A032002	4.6		Frost Protection
56925	S023712	Statement	Claimed	11/18/2013	OTHER,	0		DR-LU	A032002	4.6		Frost Protection
57124	S023896	Statement	Claimed	12/12/2013	RIPERIAN,	0		DR-LU		9.0		Frost Protection
57125	S023897	Statement	Claimed	12/12/2013	RIPERIAN,	0		LVU		9.0		Frost Protection
58680	S024464	Statement	Claimed	7/25/2014	OTHER,	0		DR-MU	A031093, A031159	7.2		Frost Protection
58683	S024467	Statement	Claimed	7/25/2014	OTHER,	0		DR-MU	A031093, A031159	---		Frost Protection
53464	S021396	Statement	Claimed	8/8/2012	RIPERIAN,	0		DR-MU		8.0		Frost Protection
53465	S021397	Statement	Claimed	8/8/2012	RIPERIAN,	0		DR-MU		8.0		Frost Protection
38567	S015830	Statement	Claimed	2/28/2005	RIPERIAN,	0		DR-LU		12.1		Frost Protection
58498	S024445	Statement	Claimed	6/10/2014	NA	0		DR-MU	A031093, A031159	16.3		Frostd Protection
29307	S002059	Statement	Claimed	1/1/1967	RIPERIAN,	0		DR-MU		5.0		Irrigation
31997	S008348	Statement	Claimed	1/1/1974	RIPERIAN,	0		DR-LU		1.4		Irrigation
36979	S014129	Statement	Claimed	10/25/1993	PRE1914,	0		DR-MU	755, A030982, A031311	48.0		Irrigation
37402	S014554	Statement	Claimed	2/28/1996	RIPERIAN,	0		DR-MU		0.9		Irrigation
37887	S015047	Statement	Claimed	36201	PERIAN,OTHE	0		DR-MU	A013755, S015042	---		Irrigation
38025	S015184	Statement	Claimed	37272	RIPERIAN,	0		DR-MU		90.0		Irrigation
38541	S015790	Statement	Claimed	38012	RIPERIAN,	0		DR-MU		2.7		Irrigation
47557	S016670	Statement	Claimed	40989	RIPERIAN,	0		DR-MU	A030779	---		Irrigation
51595	S016819	Statement	Claimed	41001	OTHER,	0		DR-MU	A031040	---		Irrigation
51618	S016837	Statement	Claimed	41002	RIPERIAN,	0		DR-MU	A030780	---		Irrigation

Cloverdale Pre-1949 Rights

Right #	Application #	Right Type	Right Status	Acceptance		Face Value		Review Code	Associated	Direct	Storage (afy)	Use Code
				Date	Sub Type	Amount	Diversion (afy)					
51620	S016838	Statement	Claimed	41002	RIPERIAN,	0	DR-MU	A030780	---			Irrigation
51623	S016839	Statement	Claimed	41003	RIPERIAN,	0	DR-MU	A030780	---			Irrigation
51624	S016840	Statement	Claimed	41003	RIPERIAN,	0	DR-MU	A030780	---			Irrigation
51625	S016841	Statement	Claimed	41003	RIPERIAN,	0	DR-MU	A030780	---			Irrigation
51626	S016842	Statement	Claimed	41003	RIPERIAN,	0	DR-MU	A030780	---			Irrigation
52419	S018214	Statement	Claimed	41067	RIPERIAN,	0	DR-MU	A031336	---			Irrigation
53467	S021399	Statement	Claimed	41129	RIPERIAN,	0	DR-MU		20.3			Irrigation
57090	S023869	Statement	Claimed	41614	OTHER,	0	DR-MU				33.0	Irrigation
57160	S023932	Statement	Claimed	41624	OTHER,	0	DR-MU				10.0	Irrigation
64372	S026464	Statement	Claimed	42940	RIPERIAN,	0	DR-LU		0.1			Irrigation
64582	S026643	Statement	Claimed	42950	RIPERIAN,	0	DR-LU		0.178			Irrigation
64591	S026652	Statement	Claimed	42950	RIPERIAN,	0	LVU		0.193			Irrigation
64729	S026745	Statement	Claimed	42956	OTHER,	0	LVU		0.346			Irrigation
64739	S026754	Statement	Claimed	42956	OTHER,	0	LVU		0.236			Irrigation
64899	S026889	Statement	Claimed	42965	RIPERIAN,	0	LVU		0.0289			Irrigation
64948	S026934	Statement	Claimed	42969	RIPERIAN,	0	LVU		2.8234			Irrigation
66282	S027597	Statement	Claimed	43067	RIPERIAN,	0	LVU		0.068			Irrigation
67289	S027650	Statement	Claimed	43213	RIPERIAN,	0	LVU		0.116			Irrigation
72832	S028280	Statement	Claimed	43812	RIPERIAN,	0	LVU		1.4384			Irrigation
65153	S027088	Statement	Claimed	42978	RIPERIAN,	0	LVU				4.5	Irrigation
65156	S027091	Statement	Claimed	42978	RIPERIAN,	0	DR-MU		0.58			Irrigation
31810	S008074	Statement	Claimed	26665	RIPERIAN,	0	DR-MU	?	123.57			Irrigation
37883	S015043	Statement	Claimed	36201	RIPERIAN,	0	DR-MU		23.5			Irrigation
38150	S015314	Statement	Claimed	37568	RIPERIAN,	0	DR-MU		100			Irrigation
38151	S015315	Statement	Claimed	37568	RIPERIAN,	0	DR-MU		11.2			Irrigation
38152	S015316	Statement	Claimed	37568	RIPERIAN,	0	DR-MU		26			Irrigation
38153	S015317	Statement	Claimed	37568	RIPERIAN,	0	DR-MU		40			Irrigation
38154	S015318	Statement	Claimed	37568	RIPERIAN,	0	DR-MU		27			Irrigation
38343	S015508	Statement	Claimed	38037	PRE1914,	0	DR-MU		3.1			Irrigation
38345	S015510	Statement	Claimed	38036	PRE1914,	0	DR-MU		3.1			Irrigation
38568	S015831	Statement	Claimed	38411	RIPERIAN,	0	DR-MU		12			Irrigation
52869	S019932	Statement	Claimed	41100	OTHER,	0	DR-MU	A030982, A031311	19.1			Irrigation
50835	S019220	Statement	Claimed	40927	OTHER,	0	DR-MU	A030912	---			Recreational
47639	S017049	Statement	Claimed	40354	OTHER,	0	DR-MU	A031040				Stockwatering

Cloverdale Post-1949 Rights

Right #	Application #	Right Type	Right Status	Acceptance Date	Sub Type	Face Value Amount	Review Code	Associated	Direct		Use Code
									Diverversion (afy)	Storage (afy)	
66606	A032898	Appropriative	Pending		NA	72.8	LVU		0.0	72.8	Aesthetic
5104	A016655	Appropriative	Licensed	10/10/1955	NA	30	LVU		0.0	30	Aquaculture
4841	A016141	Appropriative	Licensed	11/17/1954	NA	43.4	LVU		43.4	0	Domestic
4997	A016443	Appropriative	Licensed	6/28/1955	NA	144.8	LVU		144.8	0.0	Domestic
8406	A021932	Appropriative	Licensed	10/8/1964	NA	12	LVU		12.0	0.0	Domestic
8410	A021941	Appropriative	Licensed	10/15/1964	NA	0.4	LVU		0.4	0.0	Domestic
8802	A022615	Appropriative	Licensed	10/18/1966	NA	14	LVU		0.0	14.0	Domestic
9569	A023835	Appropriative	Licensed	8/3/1971	NA	5.3	LVU		5.3	0.0	Domestic
12218	A027892	Appropriative	Permitted	9/28/1983	NA	346	LVU		0.0	346.0	Domestic
14240	A030912	Appropriative	Pending	7/1/1999	NA	22.1	LVU	S019220	0.0	22.1	Domestic
55761	D032140	Domestic	Registered	6/26/2013	NA	7.78	DR-LU		1.3	6.5	Domestic
55783	D032141	Domestic	Registered	6/28/2013	NA	4.78	LVU		0.0	4.8	Domestic
70147	D033030	Domestic	Pending		NA	2.21	LVU		0.0	3.7	Domestic
70320	D033034	Domestic	Pending		NA	3.68	LVU		0.9	2.8	Domestic
14055	A030554	Appropriative	Pending	7/1/1996	NA	45	LVU		0.0	45.0	Fire Protection
14463	A031336	Appropriative	Pending	6/20/2002	NA	35	LVU	S018214	0.0	35.0	Fire Protection
48380	A031877	Appropriative	Permitted	4/14/2011	NA	67.9	LVU		0.0	67.9	Fire Protection
54811	A031988	Appropriative	Pending	1/22/2013	NA	22.2	LVU			31.0	Fire Protection
57691	D032238	Domestic	Registered	1/31/2014	NA	7.7	LVU		0.0	7.7	Fire Protection
71050	H507504	Cannabis	Registered		NA	3.88	LVU		0.0	3.9	Fire Protection
72029	H507549	Cannabis	Registered		NA	3.2	LVU		0.0	3.2	Fire Protection
70226	L033031	Livestock	Pending		NA	4.5	LVU		0.0	4.5	Fire Protection
10256	A024854	Appropriative	Licensed	8/8/1975	NA	7	LVU		0.0	7.0	Fish and Wildlife
55429	D032057	Domestic	Registered	5/9/2013	NA	5	LVU		0.0	5.0	Fish and Wildlife
9543	A023793	Appropriative	Licensed	5/28/1971	NA	341	LVU		106.0	235.0	Frost Protection
9722	A024050	Appropriative	Licensed	4/24/1972	NA	38.5	LVU		38.5	0.0	Frost Protection
9782	A024141	Appropriative	Permitted	8/16/1972	NA	106	LVU		106.0	0.0	Frost Protection
9954	A024404	Appropriative	Licensed	6/28/1973	NA	105	LVU		0.0	105.0	Frost Protection
10041	A024522B	Appropriative	Permitted	1/11/1974	NA	87	LVU		80.0	7.0	Frost Protection
10083	A024593A	Appropriative	Permitted	4/12/1974	NA	1700	LVU		0.0	1,700.0	Frost Protection
10084	A024593B	Appropriative	Permitted	4/12/1974	NA	320	LVU		320.0	0.0	Frost Protection
10957	A025749A	Appropriative	Licensed	5/26/1978	NA	16.8	LVU		0.0	16.8	Frost Protection
10958	A025749B	Appropriative	Permitted	5/26/1978	NA	26	LVU		26.0	0.0	Frost Protection
11055	A025887A	Appropriative	Licensed	12/19/1978	NA	122	LVU		0.0	122.0	Frost Protection
11056	A025887B	Appropriative	Licensed	12/19/1978	NA	12	LVU		12.0	0.0	Frost Protection
11057	A025888A	Appropriative	Permitted	12/19/1978	NA	415	LVU		159.0	256.0	Frost Protection

Cloverdale Post-1949 Rights

Right #	Application #	Right Type	Right Status	Acceptance Date	Sub Type	Face Value Amount	Review Code	Associated	Direct	Storage (afy)	Use Code
									Diverversion (afy)		
11058	A025888B	Appropriative	Permitted	12/19/1978	NA	208	LVU		208.0	0.0	Frost Protection
13594	A029783	Appropriative	Pending	7/31/1990	NA	24.1	LVU	S016885		70.0	Frost Protection
13720	A030015	Appropriative	Pending	10/10/1991	NA	101	LVU	S018474		123.0	Frost Protection
14054	A030553	Appropriative	Pending	7/1/1996	NA	40	LVU		0.0	40.0	Frost Protection
14120	A030656	Appropriative	Pending	10/21/1997	NA	328	LVU		328.0	0.0	Frost Protection
14177	A030779	Appropriative	Pending	10/2/1998	NA	182	LVU	S016670	0.0	182.0	Frost Protection
14178	A030780	Appropriative	Pending	10/2/1998	NA	151	LVU	S016837/8	0.0	151.0	Frost Protection
14280	A030987	Appropriative	Pending	11/22/1999	NA	322.7	LVU		322.7	0.0	Frost Protection
14308	A031040	Appropriative	Pending	4/13/2000	NA	97	LVU	S016819	0.0	97.0	Frost Protection
14349	A031093	Appropriative	Pending	8/22/2000	NA	338	LVU	S024464	338.0	0.0	Frost Protection
14388	A031179	Appropriative	Pending	5/1/2001	NA	258	LVU		258.0	0.0	Frost Protection
14393	A031184	Appropriative	Pending	5/15/2001	NA	50	LVU	S017050	0.0	50.0	Frost Protection
14422	A031253	Appropriative	Pending	12/10/2001	NA	21.5	LVU		21.5	0.0	Frost Protection
14437	A031282	Appropriative	Pending	1/23/2002	NA	30	LVU		0.0	30.0	Frost Protection
14443	A031296	Appropriative	Pending	2/19/2002	NA	123	LVU		0.0	123.0	Frost Protection
14454	A031311	Appropriative	Pending	3/26/2002	NA	36	LVU		36.0	0.0	Frost Protection
14516	A031446	Appropriative	Pending	9/11/2003	NA	7	LVU	S016886	0.0	7.0	Frost Protection
48260	A031870	Appropriative	Permitted	4/15/2011	NA	274	LVU		0.0	274.0	Frost Protection
48478	A031888	Appropriative	Pending	6/2/2011	NA	14.8	LVU		0.0	14.8	Frost Protection
51063	A031923	Appropriative	Pending	10/25/2012	NA	28.2	LVU		0.0	28.2	Frost Protection
51065	A031924	Appropriative	Pending	10/24/2012	NA	53.9	LVU		0.0	53.9	Frost Protection
55097	A032002	Appropriative	Pending	5/14/2013	NA	9	LVU	S023711	0.0	9.0	Frost Protection
5114	A016670	Appropriative	Licensed	10/17/1955	NA	93	LVU		93.0	0.0	Heat Control
5428	A017145	Appropriative	Licensed	6/21/1956	NA	78	LVU		78.0	0.0	Heat Control
3618	A013633	Appropriative	Licensed	3/15/1950	NA	160.6	LVU		160.6	0.0	Irrigation
3633	A013661	Appropriative	Licensed	3/30/1950	NA	229.3	LVU		229.3	0.0	Irrigation
3677	A013749	Appropriative	Licensed	5/22/1950	NA	88.1	LVU	S022008	88.1	0.0	Irrigation
3681	A013753	Appropriative	Licensed	5/24/1950	NA	73.3	LVU		73.3	0.0	Irrigation
3682	A013755	Appropriative	Licensed	5/24/1950	NA	86.6	DR-MU	S015041	86.6	0.0	Irrigation
4655	A015743	Appropriative	Licensed	2/23/1954	NA	47.7	LVU		47.7	0.0	Irrigation
4902	A016249	Appropriative	Licensed	2/28/1955	NA	844	LVU		844.0	0.0	Irrigation
5059	A016557	Appropriative	Licensed	8/29/1955	NA	313	LVU		313.0	0.0	Irrigation
5203	A016825	Appropriative	Licensed	1/12/1956	NA	140.4	LVU		140.4	0.0	Irrigation
5301	A016973	Appropriative	Licensed	3/27/1956	NA	80.6	LVU		31.6	49.0	Irrigation
5897	A017885	Appropriative	Licensed	11/19/1957	NA	66.7	LVU		66.7	0.0	Irrigation
7760	A020846	Appropriative	Licensed	7/6/1962	NA	31	LVU		0.0	31.0	Irrigation
8176	A021516	Appropriative	Licensed	10/31/1963	NA	105	LVU		105.0	0.0	Irrigation
8403	A021929	Appropriative	Licensed	10/8/1964	NA	61	LVU		61.0	0.0	Irrigation
8404	A021930	Appropriative	Licensed	10/8/1964	NA	34	LVU		34.0	0.0	Irrigation
8405	A021931	Appropriative	Licensed	23658	NA	49	LVU		49.0	0.0	Irrigation
8819	A022652	Appropriative	Licensed	24443	NA	30	LVU		0.0	30.0	Irrigation
8847	A022702	Appropriative	Licensed	24517	NA	4	LVU		4.0	0.0	Irrigation

Cloverdale Post-1949 Rights

Right #	Application #	Right Type	Right Status	Acceptance	Sub Type	Face Value	Review Code	Associated	Direct	Storage (afy)	Use Code
				Date		Amount			Diverversion (afy)		
9202	A023250	Appropriative	Licensed	25283	NA	25	LVU		25.0	0.0	Irrigation
9286	A023387	Appropriative	Licensed	25507	NA	19	LVU		19.0	0.0	Irrigation
9397	A023563	Appropriative	Licensed	25770	NA	155	LVU		155.0	0.0	Irrigation
10040	A024522A	Appropriative	Permitted	27040	NA	87	LVU		80.0	7.0	Irrigation
10848	A025596	Appropriative	Licensed	28471	NA	598	LVU		598.0	0.0	Irrigation
13498	A029632	Appropriative	Permitted	32869	NA	94	LVU		0.0	94.0	Irrigation
13583	A029760	Appropriative	Pending	33035	NA	237	LVU	S018193	95.0	142.0	Irrigation
14276	A030982	Appropriative	Pending	36486	NA	24.5	LVU		24.5	0.0	Irrigation
14377	A031159	Appropriative	Pending	36964	NA	160	LVU		100.0	60.0	Irrigation
67054	H500244	Cannabis	Registered		NA	0.23	LVU		0.0	0.2	Irrigation
68914	H500658	Cannabis	Registered		NA	3.09	LVU		0.0	3.1	Irrigation
68618	H500889	Cannabis	Registered		NA	0.74	LVU		0.0	0.7	Irrigation
69290	H501328	Cannabis	Registered		NA	0.17	LVU		0.0	0.2	Irrigation
68172	H501536	Cannabis	Registered		NA	0.18	LVU		0	0.18	Irrigation
68887	H502560	Cannabis	Registered		NA	0.37	LVU		0	0.37	Irrigation
69354	H503838	Cannabis	Registered		NA	0.32	LVU		0	0.32	Irrigation
70682	H506245	Cannabis	Registered		NA	0.24	LVU		0	0.57	Irrigation
74931	H507821	Cannabis	Registered		NA	0.13	LVU		0	0.13	Irrigation
72708	H507877	Cannabis	Registered		NA	0.82	LVU		0	0.82	Irrigation
9461	A023681	Appropriative	Licensed	25955	NA	5.6	LVU		0	5.6	Recreational
56681	A032207	Appropriative	Pending	41579	NA	49.5	LVU		0	49.5	Recreational
19277	C005161	Stockpond	Certified	35786	NA	2	LVU		0	2	Stockwatering
19278	C005162	Stockpond	Certified	35786	NA	5	LVU		0	5	Stockwatering
19279	C005163	Stockpond	Certified	35786	NA	5	LVU		0	5	Stockwatering
19280	C005164	Stockpond	Certified	35786	NA	9	LVU		0	9	Stockwatering
19281	C005165	Stockpond	Certified	35786	NA	4	LVU		0	4	Stockwatering
19282	C005166	Stockpond	Certified	35786	NA	4.5	LVU		0	4.5	Stockwatering
19459	C005343	Stockpond	Certified	35786	NA	4	LVU		0	4	Stockwatering
19734	C005624	Stockpond	Certified	35786	NA	9.5	LVU		0	9.5	Stockwatering
27621	L031353	Livestock	Registered	37503	NA	1	LVU		0	1	Stockwatering
45375	L031764	Livestock	Registered	39931	NA	2	LVU		0	2	Stockwatering
48473	L031885	Livestock	Registered	40659	NA	0.8	LVU		0	0.8	Stockwatering
55108	L032006	Livestock	Registered	41324	NA	1.3	LVU		0	1.3	Stockwatering
55272	L032027	Livestock	Registered	41386	NA	1.3	LVU		0	1.3	Stockwatering
55706	L032128	Livestock	Registered	41442	NA	2.22	LVU		0	2.22	Stockwatering
70321	L033035	Livestock	Pending		NA	6.32	LVU		1.53	4.79	Stockwatering

APPENDIX F

Healdsburg Points of Diversion1

DRAFT

Healdsburg Pre-1949 Rights

Right #	Application #	Right Type	Right Status	Acceptance	Sub Type	Face Value	Review Code	Associated	Direct	Storage (afy)	Use Code
				Date		Amount			Diversion (afy)		
38194	S015358	Statement	Claimed	8/16/2002	RIPERIAN,	0	DR-MU		325.0		Aquaculture
3277	A012919A	Appropriative	Permitted	1/28/1949	NA	160044	DR-MU		---		Domestic
32061	S008430	Statement	Claimed	1/1/1974	PRE1914,	0	DR-MU		165.4		Domestic
32185	S008628	Statement	Claimed	1/1/1975	PRE1914,	0	DR-MU		18.2		Domestic
35456	S012533	Statement	Claimed	10/16/1985	OTHER,	0	DR-LU		0.5		Domestic
36267	S013392	Statement	Claimed	11/4/1988	PRE1914,	0	DR-MU		0.4		Domestic
36624	S013755	Statement	Claimed	10/15/1991	PRE1914,	0	DR-MU		0.3		Domestic
36661	S013792	Statement	Claimed	3/9/1992	RIPERIAN,	0	DR-MU		4.5		Domestic
37055	S014205	Statement	Claimed	7/22/1994	RIPERIAN,	0	DR-MU		0.4		Domestic
37812	S014973	Statement	Claimed	7/3/1998	RIPERIAN,	0	DR-MU		11.3		Domestic
37813	S014974	Statement	Claimed	7/3/1998	RIPERIAN,	0	DR-MU		---		Domestic
37814	S014975	Statement	Claimed	7/3/1998	RIPERIAN,	0	DR-MU		---		Domestic
37815	S014976	Statement	Claimed	7/3/1998	RIPERIAN,	0	DR-MU		---		Domestic
37816	S014977	Statement	Claimed	7/3/1998	RIPERIAN,	0	DR-MU		---		Domestic
37817	S014978	Statement	Claimed	7/3/1998	RIPERIAN,	0	DR-MU		8.1		Domestic
37818	S014979	Statement	Claimed	7/3/1998	RIPERIAN,	0	DR-MU		4.8		Domestic
37819	S014980	Statement	Claimed	7/3/1998	RIPERIAN,	0	DR-MU		---		Domestic
38174	S015338	Statement	Claimed	2/20/2001	RIPERIAN,	0	DR-LU		25.4		Domestic
38038	S015197	Statement	Claimed	7/2/2001	RIPERIAN,	0	DR-MU		0.2		Domestic
38039	S015198	Statement	Claimed	7/2/2001	RIPERIAN,	0	DR-MU		2.9		Domestic
38254	S015418	Statement	Claimed	1/2/2002	PRE1914,	0	DR-MU		5.2		Domestic
38516	S015751	Statement	Claimed	7/15/2002	RIPERIAN,	0	DR-MU		6.1		Domestic
38523	S015758	Statement	Claimed	6/28/2004	RIPERIAN,	0	DR-LU		12.0		Domestic
38606	S015884	Statement	Claimed	3/25/2005	RIPERIAN,	0	DR-MU	A024993	---		Domestic
38640	S015950	Statement	Claimed	5/6/2005	RIPERIAN,	0	DR-MU		1.1		Domestic
41743	S015952	Statement	Claimed	6/3/2005	RIPERIAN,	0	DR-MU		0.2		Domestic
45717	S016165	Statement	Claimed	11/17/2005	RIPERIAN,	0	DR-LU	A024310A	2.0		Domestic
45719	S016167	Statement	Claimed	11/17/2005	RIPERIAN,	0	DR-LU		1.0		Domestic
51213	S020240	Statement	Claimed	2/14/2010	RIPERIAN,	0	DR-MU			13.0	Domestic
51502	S016690	Statement	Claimed	3/23/2012	RIPERIAN,	0	DR-MU		0.2		Domestic
51940	S016790	Statement	Claimed	4/19/2012	RIPERIAN,	0	DR-MU	A030955	---		Domestic
51956	S017301	Statement	Claimed	4/19/2012	RIPERIAN,	0	DR-MU		0.3		Domestic
52319	S017993	Statement	Claimed	5/25/2012	RIPERIAN,	0	DR-MU		2.0		Domestic
52622	S018470	Statement	Claimed	6/25/2012	RIPERIAN,	0	DR-MU		4.4		Domestic
52927	S019908	Statement	Claimed	7/11/2012	RIPERIAN,	0	DR-MU		0.9		Domestic
55327	S022512	Statement	Claimed	4/30/2013	OTHER,	0	DR-MU			12.0	Domestic
55945	S022867	Statement	Claimed	7/29/2013	RIPERIAN,	0	DR-MU	---	---		Domestic
55973	S022886	Statement	Claimed	8/7/2013	RIPERIAN,	0	DR-MU	D031668R	0.3		Domestic
56945	S023728	Statement	Claimed	11/21/2013	OTHER,	0	DR-MU			5.7	Domestic
56946	S023729	Statement	Claimed	11/21/2013	OTHER,	0	DR-MU			13.5	Domestic
57188	S023954	Statement	Claimed	12/18/2013	RIPERIAN,	0	DR-MU		39.6		Domestic
57189	S023955	Statement	Claimed	12/18/2013	RIPERIAN,	0	DR-MU	A023213A	40.6		Domestic
58108	S024372	Statement	Claimed	3/19/2014	PERIAN,OTHE	0	DR-MU			14.5	Domestic
58383	S024404	Statement	Claimed	5/13/2014	RIPERIAN,	0	DR-MU			9.3	Domestic
58384	S024405	Statement	Claimed	5/13/2014	RIPERIAN,	0	DR-MU			9.3	Domestic

Healdsburg Pre-1949 Rights

Right #	Application #	Right Type	Right Status	Acceptance Date	Sub Type	Face Value Amount	Review Code	Associated	Direct Diversion (afy)	Storage (afy)	Use Code
37081	S014231	Statement	Claimed	10/4/1994	RIPERIAN,	0	DR-MU			8.5	Fire Protection
37697	S014857	Statement	Claimed	1/12/1998	PRE1914,	0	DR-LU			2.0	Fire Protection
52973	S019914	Statement	Claimed	7/11/2012	RIPERIAN,	0	LVU			9.9	Fire Protection
52977	S019911	Statement	Claimed	7/11/2012	RIPERIAN,	0	LVU			9.6	Fire Protection
52979	S019917	Statement	Claimed	7/11/2012	RIPERIAN,	0	LVU			13.0	Fire Protection
55126	S020291	Statement	Claimed	2/19/2013	RIPERIAN,	0	LVU			2.0	Fire Protection
47444	S016399	Statement	Claimed	6/8/2010	OTHER,	0	DR-MU	A030805	---		Fish and Wildlife
52737	S021081	Statement	Claimed	7/3/2012	OTHER,	0	DR-MU	A030744	---		Fish and Wildlife
52739	S021082	Statement	Claimed	7/3/2012	OTHER,	0	DR-MU	A030744	---		Fish and Wildlife
35407	S012484	Statement	Claimed	5/16/1985	RIPERIAN,	0	DR-MU	A021674,A027596	---		Frost Protection
38499	S015721	Statement	Claimed	5/7/2002	RIPERIAN,	0	DR-MU	A016467,A021666	---		Frost Protection
38500	S015722	Statement	Claimed	5/7/2002	RIPERIAN,	0	DR-MU	S015721	---		Frost Protection
38501	S015723	Statement	Claimed	5/7/2002	RIPERIAN,	0	DR-MU	S015721	---		Frost Protection
42041	S015935	Statement	Claimed	4/7/2005	RIPERIAN,	0	DR-MU	A014720	5.1		Frost Protection
38573	S015840	Statement	Claimed	4/25/2005	RIPERIAN,	0	DR-MU		0.1		Frost Protection
38570	S015833	Statement	Claimed	7/1/2005	RIPERIAN,	0	DR-MU	A021783B	1.2		Frost Protection
38653	S015989	Statement	Claimed	6/7/2006	RIPERIAN,	0	DR-MU		0.3		Frost Protection
44264	S016064	Statement	Claimed	8/15/2006	RIPERIAN,	0	DR-MU		10.0		Frost Protection
38684	S016023	Statement	Claimed	3/30/2007	RIPERIAN,	0	DR-MU	S016024	25.0		Frost Protection
38685	S016024	Statement	Claimed	3/30/2007	RIPERIAN,	0	DR-MU	S016023	25.0		Frost Protection
50025	S019738	Statement	Claimed	12/20/2011	OTHER,	0	DR-MU	A015521, A020333	---		Frost Protection
50882	S019202	Statement	Claimed	1/24/2012	RIPERIAN,	0	DR-MU	A031622	---		Frost Protection
50946	S019893	Statement	Claimed	1/26/2012	OTHER,	0	DR-MU	A031262	---		Frost Protection
51458	S016632	Statement	Claimed	3/15/2012	RIPERIAN,	0	DR-MU	A013331	8.8		Frost Protection
51851	S016773	Statement	Claimed	4/16/2012	RIPERIAN,	0	DR-MU	A030955	---		Frost Protection
51859	S016774	Statement	Claimed	4/16/2012	RIPERIAN,	0	DR-MU	A030955	---		Frost Protection
51860	S016775	Statement	Claimed	4/16/2012	RIPERIAN,	0	DR-MU	A030955	---		Frost Protection
51864	S016776	Statement	Claimed	4/16/2012	RIPERIAN,	0	DR-MU	A030955	---		Frost Protection
51865	S016777	Statement	Claimed	4/16/2012	RIPERIAN,	0	DR-MU	A030955	---		Frost Protection
52303	S017987	Statement	Claimed	5/23/2012	RIPERIAN,	0	DR-LU		7.4		Frost Protection
52315	S017990	Statement	Claimed	5/25/2012	RIPERIAN,	0	DR-LU		7.4		Frost Protection
52318	S017992	Statement	Claimed	5/25/2012	RIPERIAN,	0	DR-LU		29.4		Frost Protection
52320	S017995	Statement	Claimed	5/25/2012	RIPERIAN,	0	DR-LU		58.9		Frost Protection
52620	S018467	Statement	Claimed	41085	RIPERIAN,	0	DR-LU	Lic 4843	11.0		Frost Protection
52642	S018490	Statement	Claimed	41086	RIPERIAN,	0	DR-LU	Lic 4843	17.7		Frost Protection
54353	S022006	Statement	Claimed	41176	RIPERIAN,	0	DR-LU			5.0	Frost Protection

Healdsburg Pre-1949 Rights

Right #	Application #	Right Type	Right Status	Acceptance		Face Value		Review Code	Associated	Direct	Storage (afy)	Use Code
				Date	Sub Type	Amount	Diversion			(afy)		
54356	S022009	Statement	Claimed	41177	RIPERIAN,	0		DR-LU		13.2		Frost Protection
54361	S022012	Statement	Claimed	41177	RIPERIAN,	0		DR-LU		8.6		Frost Protection
54363	S022014	Statement	Claimed	41177	RIPERIAN,	0		DR-LU	A016357	11.2		Frost Protection
54780	S022326	Statement	Claimed	41227	RIPERIAN,	0		DR-LU			57.3	Frost Protection
54978	S022408	Statement	Claimed	41289	RIPERIAN,	0		DR-LU		7.4		Frost Protection
54981	S022411	Statement	Claimed	41289	RIPERIAN,	0		DR-LU		4.4		Frost Protection
55127	S020293	Statement	Claimed	41324	RIPERIAN,	0		DR-MU	A031621	---		Frost Protection
55128	S020294	Statement	Claimed	41324	RIPERIAN,	0		DR-MU	A031621	---		Frost Protection
55125	S020290	Statement	Claimed	41352	RIPERIAN,	0		DR-MU	A031621	---		Frost Protection
55976	S022889	Statement	Claimed	41493	RIPERIAN,	0		DR-LU		73.6		Frost Protection
56596	S023451	Statement	Claimed	41561	RIPERIAN,	0		DR-LU		14.7		Frost Protection
61920	S025481	Statement	Claimed	42527	RIPERIAN,	0		DR-LU		11.3		Frost Protection
61921	S025482	Statement	Claimed	42527	RIPERIAN,	0		DR-LU		11.3		Frost Protection
66536	S027620	Statement	Claimed	43096	ERIAN,PENDII	0		DR-LU			5.8	Frost Protection
38654	S015990	Statement	Claimed	38876	RIPERIAN,	0		DR-MU		12.0		Industrial
47671	S017041	Statement	Claimed	40358	RIPERIAN,	0		DR-MU		262.2		Industrial
47672	S017040	Statement	Claimed	40358	RIPERIAN,	0		DR-MU		76.6		Industrial
54338	S021993	Statement	Claimed	41176	RIPERIAN,	0		DR-LU		322.4		Industrial
54339	S021994	Statement	Claimed	41176	RIPERIAN,	0		DR-MU		35.2		Industrial
54340	S021995	Statement	Claimed	41176	RIPERIAN,	0		DR-LU		202.8		Industrial
54341	S021996	Statement	Claimed	41176	RIPERIAN,	0		DR-MU		11.0		Industrial
54342	S021997	Statement	Claimed	41176	RIPERIAN,	0		DR-LU		315.1		Industrial
54343	S021998	Statement	Claimed	41176	RIPERIAN,	0		DR-MU		48.7		Industrial
54344	S021999	Statement	Claimed	41176	RIPERIAN,	0		DR-LU		724.4		Industrial
54345	S022000	Statement	Claimed	41176	RIPERIAN,	0		DR-LU		398.4		Industrial
54346	S022001	Statement	Claimed	41176	RIPERIAN,	0		DR-MU		2.4		Industrial
54348	S022002	Statement	Claimed	41176	RIPERIAN,	0		DR-MU		4.5		Industrial
54349	S022003	Statement	Claimed	41176	RIPERIAN,	0		DR-LU		119.5		Industrial
54350	S022004	Statement	Claimed	41176	RIPERIAN,	0		DR-MU		4.3		Industrial
1824	A008974	Appropriative	Licensed	13652	NA	183.5		DR-LU		183.5		Irrigation
2838	A011846	Appropriative	Licensed	17285	NA	106.2		LVU		106.2		Irrigation
3127	A012525	Appropriative	Licensed	17680	NA	21.8		LVU		21.8		Irrigation
31848	S008118	Statement	Claimed	26798	RIPERIAN,	0		DR-MU		10.0		Irrigation
31375	S006298	Statement	Claimed	25569	RIPERIAN,	0		DR-MU		2.0		Irrigation
31445	S006491	Statement	Claimed	25934	RIPERIAN,	0		DR-MU		37.7		Irrigation
37080	S014230	Statement	Claimed	34611	RIPERIAN,	0		DR-MU		0.4		Irrigation
37691	S014851	Statement	Claimed	35765	RIPERIAN,	0		DR-MU		60.0		Irrigation
37786	S014946	Statement	Claimed	35877	RIPERIAN,	0		DR-MU		120.0		Irrigation
38037	S015196	Statement	Claimed	37074	ERIAN,PRE19	0		DR-MU		4.8		Irrigation

Healdsburg Pre-1949 Rights

Right #	Application #	Right Type	Right Status	Acceptance		Face Value		Review Code	Associated	Direct	Storage (afy)	Use Code
				Date	Sub Type	Amount	Diversions (afy)					
38380	S015549	Statement	Claimed	38231	RIPERIAN,	0	DR-MU			9.2		Irrigation
38637	S015925	Statement	Claimed	38497	RIPERIAN,	0	DR-LU			27.6		Irrigation
41721	S015953	Statement	Claimed	38532	RIPERIAN,	0	DR-MU	A011664		23.0		Irrigation
52955	S020083	Statement	Claimed	41101	RIPERIAN,	0	DR-MU			69.3		Irrigation
55938	S022861	Statement	Claimed	41484	RIPERIAN,	0	DR-MU	S022864		58.1		Irrigation
55939	S022862	Statement	Claimed	41484	RIPERIAN,	0	DR-MU	S022861		23.2		Irrigation
55941	S022864	Statement	Claimed	41484	RIPERIAN,	0	DR-MU	S022861		87.1		Irrigation
55942	S022865	Statement	Claimed	41484	RIPERIAN,	0	DR-MU	S022861		17.4		Irrigation
55944	S022860	Statement	Claimed	41484	RIPERIAN,	0	DR-MU	S022861		116.1		Irrigation
55946	S022868	Statement	Claimed	41484	RIPERIAN,	0	DR-MU	A014393		13.8		Irrigation
55947	S022869	Statement	Claimed	41484	RIPERIAN,	0	DR-MU			11.1		Irrigation
55948	S022870	Statement	Claimed	41484	RIPERIAN,	0	DR-MU			1.1		Irrigation
69314	S028034	Statement	Claimed	43438	RIPERIAN,	0	DR-MU			53.7		Irrigation
38518	S015753	Statement	Claimed	37452	RIPERIAN,	0	DR-MU			25.0		Irrigation
38524	S015759	Statement	Claimed	38166	RIPERIAN,	0	DR-MU			0.1		Irrigation
51190	S020175	Statement	Claimed	40949	RIPERIAN,	0	DR-MU			35.0		Irrigation
34282	S011330	Statement	Claimed	30641	RIPERIAN,	0	DR-MU	S011331			13.0	Irrigation
34283	S011331	Statement	Claimed	30641	RIPERIAN,	0	DR-MU	S011330		57.0		Irrigation
36856	S014005	Statement	Claimed	34100	RIPERIAN,	0	DR-MU			350.0		Irrigation
36911	S014061	Statement	Claimed	34185	RIPERIAN,	0	DR-MU			76.0		Irrigation
36912	S014062	Statement	Claimed	34185	RIPERIAN,	0	DR-MU	S014063		31.4		Irrigation
36913	S014063	Statement	Claimed	34185	RIPERIAN,	0	DR-MU	S014062		31.4		Irrigation
36914	S014064	Statement	Claimed	34185	RIPERIAN,	0	DR-MU	S014062		31.4		Irrigation
36915	S014065	Statement	Claimed	34185	RIPERIAN,	0	DR-MU	S014062		31.4		Irrigation
36916	S014066	Statement	Claimed	34185	RIPERIAN,	0	DR-MU	S014062		31.4		Irrigation
36921	S014071	Statement	Claimed	34191	RIPERIAN,	0	DR-MU	S014072		52.7		Irrigation
36922	S014072	Statement	Claimed	34191	RIPERIAN,	0	DR-MU	S014071		52.7		Irrigation
36923	S014073	Statement	Claimed	34191	RIPERIAN,	0	DR-MU	S014071		52.7		Irrigation
36924	S014074	Statement	Claimed	34191	RIPERIAN,	0	DR-MU			44.0		Irrigation
36927	S014077	Statement	Claimed	34191	RIPERIAN,	0	DR-MU	S014078		60.7		Irrigation
36928	S014078	Statement	Claimed	34191	RIPERIAN,	0	DR-MU	S014077		60.7		Irrigation
36929	S014079	Statement	Claimed	34191	RIPERIAN,	0	DR-MU	S014077		60.7		Irrigation
36936	S014086	Statement	Claimed	34191	RIPERIAN,	0	DR-MU			127.0		Irrigation
36937	S014087	Statement	Claimed	34191	RIPERIAN,	0	DR-MU	S014086		127.0		Irrigation
36938	S014088	Statement	Claimed	34191	RIPERIAN,	0	DR-MU			152.0		Irrigation
36939	S014089	Statement	Claimed	34191	RIPERIAN,	0	DR-MU			47.0		Irrigation
36942	S014092	Statement	Claimed	34191	RIPERIAN,	0	DR-MU	S014089		47.0		Irrigation
36944	S014094	Statement	Claimed	34191	RIPERIAN,	0	DR-MU			228.0		Irrigation
37050	S014200	Statement	Claimed	34551	RIPERIAN,	0	DR-MU	021200, A021201?		21.1		Irrigation
37242	S014392	Statement	Claimed	34842	RIPERIAN,	0	DR-MU			55.8		Irrigation
37243	S014393	Statement	Claimed	34842	RIPERIAN,	0	DR-MU			60.0		Irrigation
37762	S014922	Statement	Claimed	35835	RIPERIAN,	0	DR-MU			28.0		Irrigation
37763	S014923	Statement	Claimed	35873	RIPERIAN,	0	DR-MU	S014057		35.0		Irrigation
37860	S015020	Statement	Claimed	36117	RIPERIAN,	0	DR-MU			34.0		Irrigation
37884	S015044	Statement	Claimed	36181	RIPERIAN,	0	DR-MU			80.0		Irrigation

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Right #	Application #	Right Type	Right Status	Acceptance		Face Value		Review Code	Associated	Direct	Storage (afy)	Use Code
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37878	S015038	Statement	Claimed	36189	RIPERIAN,	0	DR-MU			15.0		Irrigation
37934	S015093	Statement	Claimed	36256	RIPERIAN,	0	DR-MU	S015094		33.0		Irrigation
37935	S015094	Statement	Claimed	36256	RIPERIAN,	0	DR-MU	S015093		33.0		Irrigation
38087	S015246	Statement	Claimed	36586	RIPERIAN,	0	DR-MU			108.0		Irrigation
37948	S015107	Statement	Claimed	36829	RIPERIAN,	0	DR-MU			44.0		Irrigation
38172	S015336	Statement	Claimed	36942	RIPERIAN,	0	DR-MU	S015337		71.0		Irrigation
38173	S015337	Statement	Claimed	36942	RIPERIAN,	0	DR-MU	S015336		71.0		Irrigation
38307	S015472	Statement	Claimed	37993	RIPERIAN,	0	DR-MU			80.0		Irrigation
38357	S015522	Statement	Claimed	38063	RIPERIAN,	0	DR-MU			22.3		Irrigation
41943	S015945	Statement	Claimed	38567	RIPERIAN,	0	DR-MU			102.0		Irrigation
38641	S015962	Statement	Claimed	38806	RIPERIAN,	0	DR-MU	S015965		310.5		Irrigation
38644	S015965	Statement	Claimed	38806	RIPERIAN,	0	DR-MU	S015962		310.5		Irrigation
49161	S016900	Statement	Claimed	40833	PRE1914,	0	DR-MU			62.0		Irrigation
52110	S019763	Statement	Claimed	41025	RIPERIAN,	0	DR-MU	Lic 11991?		50.8		Irrigation
53626	S021470	Statement	Claimed	41136	RIPERIAN,	0	DR-MU			10.7		Irrigation
53627	S021471	Statement	Claimed	41136	RIPERIAN,	0	DR-MU			200.0		Irrigation
53636	S021480	Statement	Claimed	41136	RIPERIAN,	0	DR-MU			27.0		Irrigation
54362	S022013	Statement	Claimed	41177	RIPERIAN,	0	DR-MU			9.0		Irrigation
55931	S022853	Statement	Claimed	41481	RIPERIAN,	0	DR-MU			76.7		Irrigation
55934	S022856	Statement	Claimed	41481	RIPERIAN,	0	DR-MU			38.3		Irrigation
56908	S023695	Statement	Claimed	41592	RIPERIAN,	0	DR-MU			6.0		Irrigation
56909	S023696	Statement	Claimed	41592	RIPERIAN,	0	DR-MU			23.6		Irrigation
59416	S024728	Statement	Claimed	42040	RIPERIAN,	0	DR-MU			105.0		Irrigation
60365	S025029	Statement	Claimed	42206	RIPERIAN,	0	DR-MU			13.5		Irrigation
61928	S025489	Statement	Claimed	42529	RIPERIAN,	0	DR-MU			20.0		Irrigation
67863	S027851	Statement	Claimed	43298	RIPERIAN,	0	DR-MU			9.5		Irrigation
76380	S028502	Statement	Claimed	44180	RIPERIAN,	0	DR-MU			14.3		Irrigation
45716	S016164	Statement	Claimed	38673	RIPERIAN,	0	DR-LU			10.0		Irrigation
45718	S016166	Statement	Claimed	38673	RIPERIAN,	0	DR-LU	A0240310A/B		20.0		Irrigation
55343	S022523	Statement	Claimed	41395	RIPERIAN,	0	DR-MU	A013863		9.6		Irrigation
30969	S004997	Statement	Claimed	25569	RIPERIAN,	0	DR-MU			14.0		Irrigation
31856	S008128	Statement	Claimed	26814	RIPERIAN,	0	DR-MU			160.0		Irrigation
34056	S010999	Statement	Claimed	30278	RIPERIAN,	0	DR-MU			23.3		Irrigation
35166	S012241	Statement	Claimed	31299	RIPERIAN,	0	DR-MU			0.6		Irrigation
36127	S013246	Statement	Claimed	32707	RIPERIAN,	0	DR-MU			32.6		Irrigation
36565	S013696	Statement	Claimed	33403	RIPERIAN,	0	DR-MU			25.0		Irrigation
36593	S013724	Statement	Claimed	33445	RIPERIAN,	0	DR-MU			80.0		Irrigation
36907	S014057	Statement	Claimed	34185	RIPERIAN,	0	DR-MU	S014923		35.0		Irrigation
36910	S014060	Statement	Claimed	34185	RIPERIAN,	0	DR-MU			76.0		Irrigation
37875	S015035	Statement	Claimed	36189	RIPERIAN,	0	DR-MU			15.0		Irrigation
37876	S015036	Statement	Claimed	36189	RIPERIAN,	0	DR-MU	S015035		15.0		Irrigation
37877	S015037	Statement	Claimed	36189	RIPERIAN,	0	DR-MU	S015035		15.0		Irrigation
38517	S015752	Statement	Claimed	37452	RIPERIAN,	0	DR-MU			40.0		Irrigation
38624	S015910	Statement	Claimed	38434	PRE1914,	0	DR-MU	A024682?		3.0		Irrigation
38554	S015813	Statement	Claimed	38436	RIPERIAN,	0	DR-MU			4.2		Irrigation

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38598	S015874	Statement	Claimed	38453	RIPERIAN,	0	DR-MU			19.0		Irrigation
38579	S015850	Statement	Claimed	38456	RIPERIAN,	0	DR-MU			51.0		Irrigation
38556	S015816	Statement	Claimed	38457	RIPERIAN,	0	DR-MU	A013862		4.4		Irrigation
38590	S015863	Statement	Claimed	38474	RIPERIAN,	0	DR-MU				23.0	Irrigation
38596	S015871	Statement	Claimed	38474	RIPERIAN,	0	DR-MU			43.0		Irrigation
38617	S015903	Statement	Claimed	38483	RIPERIAN,	0	DR-LU	A029327		6.0		Irrigation
41701	S015951	Statement	Claimed	38713	RIPERIAN,	0	DR-LU			298.2		Irrigation
44123	S016045	Statement	Claimed	38944	RIPERIAN,	0	DR-LU			22.0		Irrigation
44263	S016063	Statement	Claimed	38944	RIPERIAN,	0	DR-LU			30.0		Irrigation
38682	S016021	Statement	Claimed	39171	RIPERIAN,	0	LVU			35.0		Irrigation
38683	S016022	Statement	Claimed	39171	RIPERIAN,	0	LVU			35.0		Irrigation
44993	S016118	Statement	Claimed	39608	RIPERIAN,	0	LVU			9.5		Irrigation
47344	S016304	Statement	Claimed	39853	RIPERIAN,	0	LVU			14.0		Irrigation
47497	S016633	Statement	Claimed	39926	RIPERIAN,	0	DR-MU			14.0		Irrigation
47674	S017039	Statement	Claimed	40358	RIPERIAN,	0	DR-MU			4.8		Irrigation
50731	S018710	Statement	Claimed	40920	RIPERIAN,	0	DR-MU			35.0		Irrigation
51054	S018763	Statement	Claimed	40939	RIPERIAN,	0	DR-MU	A031618		---		Irrigation
51147	S020102	Statement	Claimed	40946	RIPERIAN,COURT,	0	DR-MU			60.4		Irrigation
51173	S018787	Statement	Claimed	40948	RIPERIAN,	0	DR-MU			10.0		Irrigation
51428	S020356	Statement	Claimed	40974	RIPERIAN,	0	DR-MU			282.0		Irrigation
52163	S017281	Statement	Claimed	41033	RIPERIAN,	0	DR-MU			5.5		Irrigation
52233	S021071	Statement	Claimed	41043	OTHER,	0	DR-MU	A031049		---		Irrigation
52408	S018211	Statement	Claimed	41067	RIPERIAN,	0	DR-MU	A030259		---		Irrigation
52635	S018483	Statement	Claimed	41086	OTHER,	0	DR-MU	A030781		---		Irrigation
52638	S018486	Statement	Claimed	41086	OTHER,	0	DR-MU	A030781		---		Irrigation
52958	S020086	Statement	Claimed	41101	RIPERIAN,	0	DR-MU			3.3		Irrigation
52970	S020090	Statement	Claimed	41101	RIPERIAN,	0	DR-MU	S020091		25.0		Irrigation
52971	S020091	Statement	Claimed	41101	RIPERIAN,	0	DR-MU	S020090		25.0		Irrigation
52974	S020094	Statement	Claimed	41101	RIPERIAN,	0	DR-MU			---		Irrigation
52980	S020098	Statement	Claimed	41101	RIPERIAN,	0	DR-MU			---		Irrigation
54758	S022316	Statement	Claimed	41221	RIPERIAN,	0	DR-MU				12.0	Irrigation
54814	S022339	Statement	Claimed	41233	RIPERIAN,	0	DR-MU	A024790A		---		Irrigation
54977	S022407	Statement	Claimed	41289	RIPERIAN,	0	DR-MU			0.6		Irrigation
54979	S022409	Statement	Claimed	41289	RIPERIAN,	0	DR-MU			0.5		Irrigation
54980	S022410	Statement	Claimed	41289	RIPERIAN,	0	DR-MU			1.8		Irrigation
55094	S022464	Statement	Claimed	41311	RIPERIAN,	0	DR-MU			7.5		Irrigation
55977	S022890	Statement	Claimed	41493	RIPERIAN,	0	DR-MU			5.9		Irrigation
56910	S023697	Statement	Claimed	41592	RIPERIAN,	0	DR-MU			6.7		Irrigation
57081	S023862	Statement	Claimed	41613	RIPERIAN,	0	DR-MU			14.6		Irrigation
58697	S024481	Statement	Claimed	41848	RIPERIAN,	0	DR-MU			6.1		Irrigation
58744	S024509	Statement	Claimed	41857	RIPERIAN,	0	DR-MU			14.6		Irrigation
58773	S024526	Statement	Claimed	41862	RIPERIAN,	0	DR-MU			22.0		Irrigation
58916	S024621	Statement	Claimed	41891	RIPERIAN,	0	DR-MU	A023086		2.4		Irrigation
59092	S024681	Statement	Claimed	41940	RIPERIAN,	0	DR-MU			15.6		Irrigation
59093	S024682	Statement	Claimed	41940	RIPERIAN,	0	DR-MU			15.6		Irrigation

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Right #	Application #	Right Type	Right Status	Acceptance	Sub Type	Face Value	Review Code	Associated	Direct	Storage (afy)	Use Code
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65810	S027413	Statement	Claimed	43018	RIPERIAN,	0	DR-MU		3.0		Irrigation
43804	S015942	Statement	Claimed		RIPERIAN,	0	DR-MU	Lic 11653	---		Irrigation
44122	S016044	Statement	Claimed		RIPERIAN,	0	DR-MU		27.0		Irrigation
50802	S019235	Statement	Claimed		OTHER,	0	DR-MU	A030912	---		Irrigation
37087	S014237	Statement	Claimed	34624	PRE1914,	0	DR-MU		3,510.4		Municipal
53197	S020433	Statement	Claimed	41116	OTHER,	0	DR-MU			8.5	Recreational
29577	S002379	Statement	Claimed	24656	RIPERIAN,	0	DR-MU		0.2	0.0	Stockwatering
32249	S008703	Statement	Claimed	27800	RIPERIAN,	0	DR-MU		---		Stockwatering
51691	S016901	Statement	Claimed	41008	OTHER,	0	DR-MU			4.5	Stockwatering

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Right #	Application #	Right Type	Right Status	Acceptance		Face Value		Review Code	Associated	Direct		Use Code
				Date	Sub Type	Amount				Diverversion (afy)	Storage (afy)	
55207	D032013	Domestic	Registered	3/14/2013	NA	4		LVU		0.0	4	Aesthetic
59464	D032346	Domestic	Registered	7/25/2017	NA	2		LVU		0.0	2	Aesthetic
3594	A013578	Appropriative	Licensed	2/10/1950	NA	485.1		LVU		485.1	0	Aquaculture
3660	A013716	Appropriative	Licensed	5/2/1950	NA	50		LVU		0.0	50.0	Aquaculture
4801	A016077	Appropriative	Licensed	10/4/1954	NA	20		LVU		0.0	20.0	Aquaculture
9097	A023098	Appropriative	Licensed	7/26/1968	NA	156		LVU		156.0	0.0	Aquaculture
9819	A024205	Appropriative	Licensed	10/11/1972	NA	49.7		LVU		0.0	49.7	Aquaculture
7970	A021181SF	State Filing	Pending	3/7/1963	NA	300000		DR-MU		---	0.0	Aquaculture
7971	A021182SF	State Filing	Pending	3/7/1963	NA	800000		DR-MU		---	0.0	Aquaculture
3708	A013810	Appropriative	Licensed	6/22/1950	NA	22.4		LVU		22.4	0.0	Domestic
3834	A014045	Appropriative	Licensed	11/13/1950	NA	20.3		LVU		20.3	0.0	Domestic
4043	A014467	Appropriative	Licensed	9/6/1951	NA	7.3		LVU		7.3	0.0	Domestic
4219	A014872	Appropriative	Licensed	6/24/1952	NA	6		LVU		0.0	6.0	Domestic
4422	A015314	Appropriative	Licensed	4/24/1953	NA	36		LVU		0.0	36.0	Domestic
4646	A015728A	Appropriative	Licensed	2/16/1954	NA	53.5		LVU		53.5	0.0	Domestic
4647	A015728B	Appropriative	Licensed	2/16/1954	NA	19.4		LVU		19.4	0.0	Domestic
4652	A015736	Appropriative	Permitted	2/18/1954	NA	14479.6		DR-MU		---	0.0	Domestic
4653	A015737	Appropriative	Permitted	2/18/1954	NA	21778.8		DR-MU		---	0.0	Domestic
4765	A015984	Appropriative	Licensed	8/6/1954	NA	8.9		LVU		8.9	0.0	Domestic
5807	A017745	Appropriative	Licensed	7/29/1957	NA	5.6		LVU		5.6	0.0	Domestic
5962	A017978	Appropriative	Licensed	2/5/1958	NA	73.3		LVU	S015953	73.3	0.0	Domestic
7794	A020901	Appropriative	Licensed	8/15/1962	NA	0.3		LVU		0.3	0.0	Domestic
7974	A021187	Appropriative	Licensed	3/11/1963	NA	9		LVU		0.0	9.0	Domestic
8276	A021711	Appropriative	Licensed	3/20/1964	NA	26.5		LVU		26.5	0.0	Domestic
8296	A021756	Appropriative	Licensed	4/27/1964	NA	70		LVU		70.0	0.0	Domestic
8399	A021925	Appropriative	Licensed	10/8/1964	NA	12		LVU		0.0	12.0	Domestic
8688	A022432	Appropriative	Licensed	3/29/1966	NA	12.5		LVU		0.0	12.5	Domestic
8801	A022614	Appropriative	Licensed	10/18/1966	NA	43.4		LVU		43.4	0.0	Domestic
9093	A023092	Appropriative	Licensed	7/22/1968	NA	1.3		LVU		1.3	0.0	Domestic
10140	A024682	Appropriative	Licensed	8/29/1974	NA	15		LVU		0.0	15.0	Domestic
10283	A024889	Appropriative	Licensed	9/29/1975	NA	0.2		LVU		0.2	0.0	Domestic
10284	A024890	Appropriative	Permitted	9/30/1975	NA	182		LVU		182.0	0.0	Domestic
10303	A024909	Appropriative	Licensed	10/21/1975	NA	2.9		LVU		2.9	0.0	Domestic
10304	A024912	Appropriative	Permitted	10/22/1975	NA	35		LVU		35.0	0.0	Domestic
10309	A024919	Appropriative	Licensed	10/27/1975	NA	1.3		LVU		1.3	0.0	Domestic
10320	A024932	Appropriative	Licensed	11/17/1975	NA	0.2		LVU		0.2	0.0	Domestic
10322	A024935	Appropriative	Licensed	11/18/1975	NA	0.4		LVU		0.4	0.0	Domestic
10336	A024951	Appropriative	Licensed	12/5/1975	NA	11		LVU		11.0	0.0	Domestic
10367	A024993	Appropriative	Licensed	2/9/1976	NA	17		LVU	S015884	17.0	0.0	Domestic
10379	A025005	Appropriative	Licensed	2/25/1976	NA	1.3		LVU		1.3	0.0	Domestic
10387	A025015	Appropriative	Licensed	3/2/1976	NA	1.6		LVU		1.6	0.0	Domestic
10394	A025025	Appropriative	Licensed	3/22/1976	NA	55		LVU		55.0	0.0	Domestic

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									Diverversion (afy)	Storage (afy)	
10436	A025084	Appropriative	Licensed	6/14/1976	NA	0.2	LVU		0.2	0.0	Domestic
10454	A025110	Appropriative	Licensed	7/21/1976	NA	0.3	LVU		0.3	0.0	Domestic
10495	A025157	Appropriative	Licensed	9/21/1976	NA	1.3	LVU		1.3	0.0	Domestic
10533	A025207	Appropriative	Licensed	12/7/1976	NA	1.2	LVU		1.2	0.0	Domestic
10634	A025344	Appropriative	Licensed	4/27/1977	NA	282	LVU		282.0	0.0	Domestic
10912	A025682	Appropriative	Licensed	2/23/1978	NA	24.3	LVU		24.3	0.0	Domestic
13278	A029327	Appropriative	Permitted	8/22/1988	NA	6.4	LVU	S015903	0.0	6.4	Domestic
13789	A030126	Appropriative	Pending	5/11/1992	NA	11	LVU		0.0	11.0	Domestic
13959	A030412	Appropriative	Permitted	11/10/1994	NA	20	LVU		20.0	0.0	Domestic
14166	A030744	Appropriative	Pending	8/7/1998	NA	25	LVU	S021081	0.0	25.0	Domestic
14179	A030781	Appropriative	Pending	10/2/1998	NA	44	LVU	S018483	0.0	93.0	Domestic
14197	A030805	Appropriative	Pending	11/2/1998	NA	14	LVU	S016399	0.0	14.0	Domestic
14203	A030815	Appropriative	Permitted	11/20/1998	NA	23	LVU		0.0	23.0	Domestic
14240	A030912	Appropriative	Pending	7/1/1999	NA	22.1	LVU	S019235	0.0	22.1	Domestic
14260	A030954	Appropriative	Pending	10/14/1999	NA	198	LVU		0.0	198.0	Domestic
14261	A030955	Appropriative	Pending	10/14/1999	NA	355	LVU	S016773	0.0	355.0	Domestic
14322	A031056	Appropriative	Pending	5/12/2000	NA	25	LVU		0.0	25.0	Domestic
58374	D032262	Domestic	Registered	5/8/2014	NA	3	LVU		0.0	10.0	Domestic
58134	D032249	Domestic	Registered	5/10/2016	NA	10	LVU		0.0	10.0	Domestic
3356	A013126A	Appropriative	Licensed	6/1/1949	NA	342.2	LVU		342.2	0.0	Fire Protection
3731	A013864	Appropriative	Licensed	7/25/1950	NA	4.3	LVU		2.8	1.5	Fire Protection
4200	A014842	Appropriative	Licensed	6/5/1952	NA	48	LVU		0.0	48.0	Fire Protection
4221	A014880	Appropriative	Licensed	6/26/1952	NA	1448	LVU		1,448.0	0.0	Fire Protection
6066	A018138	Appropriative	Licensed	5/16/1958	NA	117	LVU		0.0	117.0	Fire Protection
6363	A018649	Appropriative	Licensed	4/17/1959	NA	960	LVU		960.0	0.0	Fire Protection
7142	A019921	Appropriative	Licensed	1/17/1961	NA	7	LVU		0.0	7.0	Fire Protection
7485	A020436	Appropriative	Licensed	10/16/1961	NA	31	LVU		0.0	31.0	Fire Protection
7798	A020907	Appropriative	Licensed	8/24/1962	NA	11	LVU		0.0	11.0	Fire Protection
8149	A021466	Appropriative	Licensed	9/18/1963	NA	43.5	LVU		0.0	43.5	Fire Protection
8171	A021506	Appropriative	Licensed	10/17/1963	NA	18	LVU		0.0	18.0	Fire Protection
8256	A021666	Appropriative	Licensed	3/3/1964	NA	41	LVU	S015721	0.0	41.0	Fire Protection
9207	A023255	Appropriative	Licensed	4/9/1969	NA	20	LVU		0.0	20.0	Fire Protection
9229	A023290	Appropriative	Licensed	6/11/1969	NA	2.8	LVU		0.0	2.8	Fire Protection
9459	A023678	Appropriative	Licensed	1/22/1971	NA	1.4	LVU		0.0	1.4	Fire Protection
9460	A023679	Appropriative	Licensed	1/22/1971	NA	7	LVU		0.0	7.0	Fire Protection
9462	A023682	Appropriative	Licensed	1/22/1971	NA	9.7	LVU		0.0	9.7	Fire Protection
9696	A024017	Appropriative	Licensed	4/4/1972	NA	23	LVU		0.0	23.0	Fire Protection
10968	A025762	Appropriative	Licensed	6/15/1978	NA	16	LVU		0.0	16.0	Fire Protection
11254	A026181	Appropriative	Licensed	1/22/1980	NA	5.2	LVU		2.9	2.3	Fire Protection
11255	A026182	Appropriative	Licensed	29242	NA	1.5	LVU		0.4	1.1	Fire Protection
11256	A026183	Appropriative	Licensed	29242	NA	21.6	LVU		16.8	4.8	Fire Protection
11257	A026184	Appropriative	Licensed	29242	NA	2.4	LVU		0.9	1.5	Fire Protection

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11278	A026224	Appropriative	Licensed	29271	NA	245	LVU		0.0	245.0	Fire Protection
11515	A026600	Appropriative	Licensed	29528	NA	5.4	LVU		0.0	5.4	Fire Protection
11550	A026672	Appropriative	Licensed	29578	NA	1.7	LVU		0.7	1.0	Fire Protection
11987	A027541	Appropriative	Licensed	30224	NA	3.4	LVU		0.0	3.4	Fire Protection
11999	A027557	Appropriative	Licensed	30245	NA	14	LVU		0.0	14.0	Fire Protection
12248	A027941	Appropriative	Permitted	30690	NA	591	LVU		542.0	49.0	Fire Protection
12920	A028855	Appropriative	Licensed	31572	NA	16	LVU		0.0	20.0	Fire Protection
13086	A029086	Appropriative	Licensed	31999	NA	12.5	LVU		0.0	12.5	Fire Protection
13318	A029372	Appropriative	Licensed	32465	NA	6.9	LVU		0.0	6.9	Fire Protection
13389	A029467	Appropriative	Licensed	32616	NA	13	LVU		0.0	13.0	Fire Protection
13582	A029755	Appropriative	Licensed	33023	NA	49	LVU		0.0	49.0	Fire Protection
13598	A029789	Appropriative	Permitted	33088	NA	483	LVU		483.0	0.0	Fire Protection
13672	A029912	Appropriative	Licensed	33304	NA	37	LVU		0.0	37.0	Fire Protection
13887	A030282	Appropriative	Licensed	34234	NA	9.8	LVU		0	9.8	Fire Protection
14160	A030730	Appropriative	Pending	35996	NA	15	LVU		0	15	Fire Protection
14198	A030806	Appropriative	Pending	36102	NA	15.2	LVU		0	15.2	Fire Protection
14199	A030807	Appropriative	Pending	36102	NA	19	LVU		0	19	Fire Protection
14250	A030931	Appropriative	Permitted	36390	NA	82	LVU		0	82	Fire Protection
14351	A031095	Appropriative	Permitted	36767	NA	24	LVU		0	24	Fire Protection
14598	A031618	Appropriative	Pending	38876	NA	14.85	LVU	S018763	0	15	Fire Protection
14602	A031623	Appropriative	Pending	38891	NA	32.4	LVU		0	40	Fire Protection
14601	A031622	Appropriative	Pending	38896	NA	63	LVU	S019202	0	63	Fire Protection
55554	D032081	Domestic	Registered	41415	NA	10	LVU		0	10	Fire Protection
56616	D032206	Domestic	Registered	41558	NA	5.7	LVU		0	5.7	Fire Protection
9232	A023297	Appropriative	Licensed	25371	NA	4.5	LVU		0	4.5	Fish and Wildlife
13438	A029547	Appropriative	Licensed	32742	NA	56.2	LVU		0	56.2	Fish and Wildlife
3651	A013695	Appropriative	Licensed	18372	NA	150	LVU		0	150	Frost Protection
3718	A013831	Appropriative	Licensed	18449	NA	46.9	LVU		46.9	0	Frost Protection
4146	A014735	Appropriative	Licensed	19084	NA	156	LVU		0	156	Frost Protection
4220	A014875	Appropriative	Licensed	19170	NA	294	LVU		294	0	Frost Protection
8310	A021783A	Appropriative	Licensed	23519	NA	26	LVU		26	0	Frost Protection
9170	A023212B	Appropriative	Licensed	25224	NA	49	LVU		49	0	Frost Protection
9376	A023539	Appropriative	Licensed	25748	NA	7.5	LVU		0	7.5	Frost Protection
9723	A024051	Appropriative	Licensed	26413	NA	78	LVU		48	30	Frost Protection
9753	A024101	Appropriative	Licensed	26473	NA	13	LVU		0	13	Frost Protection
9853	A024266B	Appropriative	Permitted	26654	NA	50	LVU		50	0	Frost Protection
9857	A024269B	Appropriative	Permitted	26655	NA	13	LVU		13	0	Frost Protection
9893	A024310B	Appropriative	Licensed	26723	NA	25	LVU	S016166	25	0	Frost Protection
9895	A024311B	Appropriative	Licensed	26723	NA	35.5	LVU		35.5	0	Frost Protection

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9950	A024391	Appropriative	Licensed	26821	NA	3	LVU		0	3	Frost Protection
10138	A024678B	Appropriative	Permitted	27267	NA	110	LVU		110	0	Frost Protection
10214	A024790A	Appropriative	Permitted	27484	NA	60	LVU	S022339	0	60	Frost Protection
10262	A024864B	Appropriative	Permitted	27631	NA	50	LVU		50	0	Frost Protection
10274	A024877	Appropriative	Licensed	27647	NA	22	LVU		22	0	Frost Protection
10289	A024893B	Appropriative	Permitted	27667	NA	150	LVU		150	0	Frost Protection
10342	A024958B	Appropriative	Permitted	27744	NA	43	LVU		43	0	Frost Protection
10398	A025032	Appropriative	Licensed	27850	NA	23	LVU		10.2	12.8	Frost Protection
10493	A025154	Appropriative	Licensed	28024	NA	176	LVU	S015942	176	0	Frost Protection
10923	A025694	Appropriative	Licensed	28562	NA	17	LVU		0	17	Frost Protection
11381	A026402	Appropriative	Permitted	29377	NA	94	LVU		0	94	Frost Protection
11388	A026412	Appropriative	Licensed	29383	NA	163	LVU		0	163	Frost Protection
11389	A026413	Appropriative	Licensed	29383	NA	60	LVU		60	0	Frost Protection
11879	A027327	Appropriative	Licensed	30076	NA	3	LVU		0	3	Frost Protection
12249	A027942	Appropriative	Permitted	30690	NA	160	LVU		160	0	Frost Protection
12256	A027955	Appropriative	Licensed	30704	NA	12.2	LVU		12.2	0	Frost Protection
12427	A028176	Appropriative	Permitted	30859	NA	46	LVU		0	46	Frost Protection
13105	A029108	Appropriative	Licensed	32031	NA	11.6	LVU		0	11.6	Frost Protection
13118	A029122	Appropriative	Licensed	32056	NA	15	LVU		0	15	Frost Protection
13235	A029267	Appropriative	Permitted	32309	NA	35	LVU		0	35	Frost Protection
13358	A029418	Appropriative	Permitted	32567	NA	400	LVU		400	0	Frost Protection
13359	A029419	Appropriative	Permitted	32567	NA	688	LVU		400	288	Frost Protection
13369	A029437	Appropriative	Permitted	32581	NA	300	LVU		300	0	Frost Protection
13420	A029517	Appropriative	Permitted	32695	NA	14	LVU		14	0	Frost Protection
13704	A029983	Appropriative	Pending	33452	NA	26	LVU		0	26	Frost Protection
13875	A030259	Appropriative	Pending	34130	NA	17.3	LVU	S018211	0	22	Frost Protection
13931	A030365	Appropriative	Permitted	34472	NA	5	LVU		5	0	Frost Protection
14316	A031050	Appropriative	Permitted	36658	NA	156	LVU		0	156	Frost Protection
58417	A032265	Appropriative	Pending	42529	NA	108	LVU		0	108	Frost Protection
66326	A032889	Appropriative	Pending		NA	6	LVU		0	6	Frost Protection
4644	A015727	Appropriative	Licensed	19771	NA	144.8	LVU		144.8	0	Industrial
10677	A025394	Appropriative	Licensed	28291	NA	1896	LVU		1896	0	Industrial
11807	A027177	Appropriative	Permitted	29962	NA	5000	LVU		5000	0	Industrial
13087	A029087	Appropriative	Licensed	31999	NA	1.9	LVU		0	1.9	Industrial
12530	A028319	Appropriative	Licensed	30995	NA	3222	LVU		3222	0	Industrial
12531	A028320	Appropriative	Licensed	30995	NA	2902	LVU		2902	0	Industrial
3292	A012951	Appropriative	Licensed	17953	NA	28	LVU		0	28	Irrigation
3389	A013182A01	Appropriative	Licensed	18078	NA	13	LVU		13	0	Irrigation
3390	A013182A02	Appropriative	Licensed	18078	NA	13	LVU		13	0	Irrigation

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3391	A013182B	Appropriative	Licensed	18078	NA	77.7		LVU		77.7	0	Irrigation
3437	A013277	Appropriative	Licensed	18114	NA	75		LVU		75	0	Irrigation
3444	A013281B	Appropriative	Licensed	18118	NA	20.5		LVU		20.5	0	Irrigation
3449	A013289	Appropriative	Licensed	18119	NA	46.7		LVU		46.7	0	Irrigation
3469	A013331	Appropriative	Licensed	18147	NA	348.6		LVU	S016632	348.6	0	Irrigation
3507	A013391	Appropriative	Licensed	18178	NA	63.9		LVU		63.9	0	Irrigation
3540	A013468	Appropriative	Licensed	18219	NA	58.3		LVU		58.3	0	Irrigation
3542	A013474	Appropriative	Licensed	18223	NA	218.7		LVU		218.7	0	Irrigation
3573	A013533	Appropriative	Licensed	18272	NA	102.2		LVU		102.2	0	Irrigation
3595	A013579	Appropriative	Licensed	18308	NA	82.6		LVU		82.6	0	Irrigation
3666	A013729	Appropriative	Licensed	18393	NA	101.8		LVU		101.8	0	Irrigation
3683	A013758	Appropriative	Licensed	18408	NA	45.9		LVU		45.9	0	Irrigation
3697	A013789	Appropriative	Licensed	18428	NA	44		LVU		44	0	Irrigation
3709	A013811	Appropriative	Licensed	18436	NA	118.6		LVU		118.6	0	Irrigation
3719	A013832	Appropriative	Licensed	18449	NA	24.2		LVU		24.2	0	Irrigation
3729	A013862	Appropriative	Licensed	18469	NA	51.2		LVU	S015816	51.2	0	Irrigation
3730	A013863	Appropriative	Licensed	18469	NA	83.9		LVU	S022523	83.9	0	Irrigation
3734	A013874	Appropriative	Licensed	18475	NA	259.1		LVU		259.1	0	Irrigation
3768	A013932	Appropriative	Licensed	18511	NA	76.8		LVU		76.8	0	Irrigation
3769	A013933	Appropriative	Licensed	18511	NA	426.5		LVU		426.5	0	Irrigation
3789	A013967	Appropriative	Licensed	18533	NA	28		LVU		0	28	Irrigation
3801	A013985	Appropriative	Licensed	18545	NA	80.7		LVU		80.7	0	Irrigation
3802	A013987	Appropriative	Licensed	18545	NA	17		LVU		17	0	Irrigation
3804	A013989	Appropriative	Licensed	18545	NA	34.1		LVU		34.1	0	Irrigation
3828	A014033	Appropriative	Licensed	18575	NA	348.5		LVU		348.5	0	Irrigation
3829	A014034	Appropriative	Licensed	18575	NA	66.1		LVU		66.1	0	Irrigation
3832	A014044A	Appropriative	Licensed	18580	NA	72.5		LVU		72.5	0	Irrigation
3833	A014044B	Appropriative	Licensed	18580	NA	59.7		LVU		59.7	0	Irrigation
3835	A014047	Appropriative	Licensed	18581	NA	72.5		LVU		72.5	0	Irrigation
3836	A014048	Appropriative	Licensed	18581	NA	62.4		LVU		62.4	0	Irrigation
3837	A014049	Appropriative	Licensed	18581	NA	174.9		LVU		174.9	0	Irrigation
3841	A014051	Appropriative	Licensed	18581	NA	131.2		LVU		131.2	0	Irrigation
3848	A014065	Appropriative	Licensed	18589	NA	330.5		LVU		330.5	0	Irrigation
3889	A014144	Appropriative	Licensed	18661	NA	179.8		LVU		179.8	0	Irrigation
3899	A014172	Appropriative	Licensed	18685	NA	166.3		LVU		166.3	0	Irrigation
3917	A014215	Appropriative	Licensed	18713	NA	213.2		LVU		213.2	0	Irrigation
3929	A014245	Appropriative	Licensed	18729	NA	59.7		LVU		59.7	0	Irrigation
3930	A014246	Appropriative	Licensed	18729	NA	38.4		LVU		38.4	0	Irrigation
3973	A014339	Appropriative	Licensed	18786	NA	383.8		LVU		383.8	0	Irrigation
3999	A014393	Appropriative	Licensed	18825	NA	152.6		LVU	S022868	152.6	0	Irrigation
4038	A014459	Appropriative	Licensed	18871	NA	243		LVU		243	0	Irrigation
4042	A014466	Appropriative	Licensed	18877	NA	30		LVU		0	30	Irrigation
4054	A014492	Appropriative	Licensed	18890	NA	72.5		LVU		72.5	0	Irrigation
4135	A014715	Appropriative	Licensed	19070	NA	29.9		LVU		6.9	23	Irrigation
4138	A014720	Appropriative	Licensed	19073	NA	88.2		LVU	S015935	88.2	0	Irrigation

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4153	A014749	Appropriative	Licensed	19099	NA	26		LVU		0	26	Irrigation
4154	A014750	Appropriative	Licensed	19099	NA	38.4		LVU		38.4	0	Irrigation
4167	A014777	Appropriative	Licensed	19109	NA	127.3		LVU		127.3	0	Irrigation
4199	A014841	Appropriative	Licensed	19150	NA	4.5		LVU		0	4.5	Irrigation
4206	A014855	Appropriative	Licensed	19157	NA	340.2		LVU		340.2	0	Irrigation
4207	A014856	Appropriative	Licensed	19157	NA	14.7		LVU		14.7	0	Irrigation
4232	A014904	Appropriative	Licensed	19185	NA	72.2		LVU		72.2	0	Irrigation
4310	A015075	Appropriative	Licensed	19304	NA	4		LVU		4	0	Irrigation
4388	A015233	Appropriative	Licensed	19430	NA	228.4		LVU		228.4	0	Irrigation
4406	A015277	Appropriative	Licensed	19455	NA	64		LVU		64	0	Irrigation
4457	A015370	Appropriative	Licensed	19515	NA	252.7		LVU		252.7	0	Irrigation
4471	A015397	Appropriative	Licensed	19541	NA	24.4		LVU		24.4	0	Irrigation
4544	A015521	Appropriative	Licensed	19604	NA	97		LVU	S019738	0	97	Irrigation
4643	A015726	Appropriative	Licensed	19771	NA	154.1		LVU		154.1	0	Irrigation
4648	A015729	Appropriative	Licensed	19771	NA	86.8		LVU		86.8	0	Irrigation
4709	A015854	Appropriative	Licensed	19844	NA	101		LVU		0	101	Irrigation
4764	A015983	Appropriative	Licensed	19942	NA	73.4		LVU		73.4	0	Irrigation
4931	A016319	Appropriative	Licensed	20198	NA	194.4		LVU		194.4	0	Irrigation
4938	A016334	Appropriative	Licensed	20204	NA	3.4		LVU		3.4	0	Irrigation
4950	A016357	Appropriative	Licensed	20213	NA	140.7		LVU	S022014	140.7	0	Irrigation
4976	A016398	Appropriative	Licensed	20236	NA	68.2		LVU		68.2	0	Irrigation
4981	A016405	Appropriative	Licensed	20243	NA	146.8		LVU		146.8	0	Irrigation
5010	A016467	Appropriative	Licensed	20288	NA	25		LVU	S015721	0	25	Irrigation
5040	A016525	Appropriative	Licensed	20316	NA	23.9		LVU		23.9	0	Irrigation
5116	A016673	Appropriative	Licensed	20379	NA	238.8		LVU		238.8	0	Irrigation
5200	A016821	Appropriative	Licensed	20460	NA	42.6		LVU		42.6	0	Irrigation
5295	A016961	Appropriative	Licensed	20535	NA	410		LVU		0	410	Irrigation
5396	A017100	Appropriative	Licensed	20598	NA	60		LVU		60	0	Irrigation
6128	A018241	Appropriative	Licensed	21396	NA	43.8		LVU		43.8	0	Irrigation
6478	A018835	Appropriative	Licensed	21730	NA	14		LVU		0	14	Irrigation
6540	A018948	Appropriative	Licensed	21790	NA	45		LVU		0	45	Irrigation
6775	A019339	Appropriative	Licensed	22010	NA	74		LVU		74	0	Irrigation
6826	A019427	Appropriative	Licensed	22046	NA	15		LVU		0	15	Irrigation
7413	A020333	Appropriative	Licensed	22493	NA	16		LVU	S019738	0	16	Irrigation
7612	A020624	Appropriative	Licensed	22698	NA	23		LVU		23	0	Irrigation
7742	A020813	Appropriative	Licensed	22808	NA	28		LVU		0	28	Irrigation
7773	A020870	Appropriative	Licensed	22852	NA	12		LVU		0	12	Irrigation
7825	A020953	Appropriative	Licensed	22910	NA	20		LVU		0	20	Irrigation
8014	A021245	Appropriative	Licensed	23119	NA	50		LVU		50	0	Irrigation
8120	A021419	Appropriative	Licensed	23228	NA	107		LVU		0	107	Irrigation
8259	A021674	Appropriative	Licensed	23441	NA	29.7		LVU	S012484	29.7	0	Irrigation
8275	A021710	Appropriative	Licensed	23456	NA	43		LVU		0	43	Irrigation
8311	A021783B	Appropriative	Licensed	23519	NA	42		LVU	S015833	42	0	Irrigation
8379	A021889	Appropriative	Licensed	23620	NA	12		LVU		12	0	Irrigation
8488	A022070	Appropriative	Licensed	23811	NA	12.5		LVU		0	12.5	Irrigation

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8493	A022079	Appropriative	Licensed	23823	NA	49		LVU		0	49	Irrigation
8520	A022145	Appropriative	Licensed	23872	NA	4		LVU		0	4	Irrigation
8541	A022188	Appropriative	Licensed	23907	NA	46.7		LVU		0	46.7	Irrigation
8697	A022445	Appropriative	Licensed	24208	NA	18		LVU		18	0	Irrigation
9029	A022993	Appropriative	Licensed	24894	NA	0.1		LVU		0.1	0	Irrigation
9169	A023212A	Appropriative	Licensed	25224	NA	75		LVU		75	0	Irrigation
9619	A023902	Appropriative	Licensed	26227	NA	42		LVU		42	0	Irrigation
9852	A024266A	Appropriative	Licensed	26654	NA	9.2		LVU		9.2	0	Irrigation
9856	A024269A	Appropriative	Licensed	26655	NA	26		LVU		26	0	Irrigation
3441	A013281A01	Appropriative	Licensed	26829	NA	199		LVU		199	0	Irrigation
3443	A013281A03	Appropriative	Licensed	26829	NA	70.3		LVU		70.3	0	Irrigation
10091	A024604	Appropriative	Licensed	27156	NA	19		LVU		0	19	Irrigation
10216	A024791	Appropriative	Licensed	27484	NA	9.8		LVU		9.8	0	Irrigation
10261	A024864A	Appropriative	Licensed	27631	NA	21		LVU		21	0	Irrigation
10288	A024893A	Appropriative	Licensed	27667	NA	42		LVU		42	0	Irrigation
10290	A024894	Appropriative	Licensed	27667	NA	51.1		LVU		51.1	0	Irrigation
10295	A024899	Appropriative	Licensed	27681	NA	12.6		LVU		12.6	0	Irrigation
10341	A024958A	Appropriative	Permitted	27744	NA	41.8		LVU		41.8	0	Irrigation
10395	A025028	Appropriative	Licensed	27843	NA	7.4		LVU		7.4	0	Irrigation
10589	A025282	Appropriative	Licensed	28191	NA	49		LVU		0	49	Irrigation
11934	A027440	Appropriative	Licensed	30152	NA	23		LVU		0	23	Irrigation
12023	A027596	Appropriative	Permitted	30284	NA	50		LVU	S012484	28	22	Irrigation
12874	A028790	Appropriative	Licensed	31442	NA	7		LVU		0	7	Irrigation
13353	A029411	Appropriative	Permitted	32553	NA	4		LVU		4	0	Irrigation
13354	A029412	Appropriative	Permitted	32553	NA	21		LVU		21	0	Irrigation
13487	A029616	Appropriative	Permitted	32829	NA	400		LVU		0	400	Irrigation
13517	A029662	Appropriative	Permitted	32924	NA	27.6		LVU		27.6	0	Irrigation
13534	A029682	Appropriative	Permitted	32939	NA	200		LVU		0	200	Irrigation
13792	A030132	Appropriative	Permitted	33745	NA	15		LVU		0	15	Irrigation
13930	A030364	Appropriative	Permitted	34472	NA	23		LVU		0	23	Irrigation
13951	A030397	Appropriative	Permitted	34584	NA	4		LVU		4	0	Irrigation
14167	A030745	Appropriative	Permitted	35877	NA	85		LVU		0	85	Irrigation
14315	A031049	Appropriative	Pending	36629	NA	25		LVU	S021071	0	25	Irrigation
14604	A031629	Appropriative	Pending	38938	NA	13		LVU		0	13	Irrigation
47533	A031836	Appropriative	Permitted	40358	NA	8.6		LVU		0	8.6	Irrigation
55619	A032115	Appropriative	Permitted	41436	NA	1.3		LVU		0	1.3	Irrigation
67993	A032959	Appropriative	Pending	43704	NA	17.45		LVU		17.45	0	Irrigation
3442	A013281A02	Appropriative	Licensed		NA	76.4		LVU		76.4	0	Irrigation
71988	H033072	Registration Irrigator	Registered	44278	NA	11		LVU		0	12	Irrigation
85798	H033302	Registration Irrigator	Pending		NA	20		LVU		0	20	Irrigation
67190	H032924	Registration Irrigator	Registered		NA	20		LVU		0	20	Irrigation
9894	A024311A	Appropriative	Licensed	26703	NA	54.5		LVU		54.5	0	Heat Control
9892	A024310A	Appropriative	Licensed	26723	NA	43.5		LVU	S016166	43.5	0	Heat Control

Healdsburg Post-1949 Rights

Right #	Application #	Right Type	Right Status	Acceptance	Sub Type	Face Value	Review Code	Associated	Direct	Storage (afy)	Use Code
				Date		Amount			Diverversion (afy)		
3409	A013217	Appropriative	Permitted	18087	NA	2171.933	LVU		2171.933	0	Municipal
5409	A017121	Appropriative	Permitted	20617	NA	2895.9	LVU		2895.9	0	Municipal
5734	A017632	Appropriative	Permitted	20969	NA	578	LVU		578	0	Municipal
73248	A033106	Appropriative	Pending		NA	198	LVU		198	0	NA
73249	A033107	Appropriative	Pending		NA	355	LVU		355	0	NA
20865	E000013	Power	Certified		NA	0	LVU		0	0	NA
4192	A014826	Appropriative	Licensed	19141	NA	166.7	LVU		41.7	125	Recreational
4675	A015779	Appropriative	Licensed	19800	NA	75	LVU		0	75	Recreational
7250	A020100	Appropriative	Licensed	22396	NA	100	LVU		0	100	Recreational
7589	A020582	Appropriative	Licensed	22678	NA	10	LVU		0	10	Recreational
8007	A021235	Appropriative	Licensed	23113	NA	23	LVU		0	23	Recreational
8805	A022623	Appropriative	Licensed	24407	NA	7	LVU		0	7	Recreational
9092	A023086	Appropriative	Licensed	25035	NA	15	LVU	S024621	0	15	Recreational
14431	A031262	Appropriative	Pending	37244	NA	52	LVU	S019893	0	52	Recreational
14600	A031621	Appropriative	Pending	38890	NA	96.1	LVU	S020293	0	96.1	Recreational
51014	A031920	Appropriative	Pending	41201	NA	19.17	LVU		1.14	18.03	Recreational
6653	A019140	Appropriative	Licensed	21902	NA	0.1	LVU		0.1	0	Stockwatering
10684	A025405	Appropriative	Licensed	28300	NA	1.9	LVU		0	1.9	Stockwatering
12250	A027943	Appropriative	Licensed	30690	NA	40	LVU		0	40	Stockwatering
27610	L031319	Livestock	Registered	37385	NA	5	LVU		0	5	Stockwatering
27624	L031391	Livestock	Registered	37649	NA	10	LVU		0	10	Stockwatering
27626	L031393	Livestock	Registered	37649	NA	5	LVU		0	5	Stockwatering
27625	L031392	Livestock	Registered	37650	NA	10	LVU		0	10	Stockwatering
55296	L032032	Livestock	Registered	41388	NA	4.5	LVU		0	4.5	Stockwatering
55819	L032146	Livestock	Registered	41460	NA	0.5	LVU		0	0.5	Stockwatering
55821	L032147	Livestock	Registered	41460	NA	1.5	LVU		0	1.5	Stockwatering
55826	L032148	Livestock	Registered	41460	NA	0.5	LVU		0	0.5	Stockwatering
17513	C002935	Stockpond	Certified	28493	NA	0	LVU		0	2	Stockwatering
17514	C002936	Stockpond	Certified	28493	NA	0	LVU		0	4.2	Stockwatering
19996	C005922	Stockpond	Pending	35782	NA	1.4	LVU		0	1.4	Stockwatering
19637	C005521	Stockpond	Certified	35793	NA	0.7	LVU		0	0.7	Stockwatering
19638	C005522	Stockpond	Certified	35793	NA	2.8	LVU		0	2.8	Stockwatering
20122	C006052	Stockpond	Certified	35793	NA	1.4	LVU		0	1.4	Stockwatering

Technical Memorandum

To: Elizabeth Salomone, General Manager, Mendocino County Russian River Flood Control & Water Conservation Improvement District

From: Edward D. Ballman, P.E., Johnny Caspers, P.E. and Eric Riedner, P.E.

Date: February 8, 2023

Subject: Supplemental Information to the Water Availability Analysis for the East Fork Russian River Permit Applications A012919C and A012920B

This technical memorandum provides additional information to the Water Availability Analysis for the East Fork Russian River Permit Applications A012919C and A012920B (Balance Hydrologics, 2022) in response to feedback from the Sonoma County Water Agency. The memo specifically addresses concerns that the one-month time step used in the analysis is insufficiently detailed and that the impact of flow routing through Lake Mendocino was not considered.

To address these concerns Balance Hydrologics partnered with Sonoma Water to utilize their HEC-ResSim model of the Russian River watershed to perform a more complete Water Availability Analysis. The ResSim model routes unimpaired flow hydrographs through the Russian River watershed, including at Lake Mendocino and along river reaches downstream to the Healdsburg USGS Gage, at a daily time step over a 107-year period. This model was adapted by Sonoma Water to reflect the face value water rights losses that are described in our 2022 report and used to update the monthly reach losses that are plotted on the attached Table 1. Two scenarios were considered in the model including 1) current diversions from the Potter Valley Project (current operations without discretionary power releases), and 2) no diversions from the Potter Valley Project.

Output from the ResSim model was used to identify locations and periods where modeled flow rates exceed minimum instream flow requirements identified in the 2008 Biological Opinion at downstream points of compliance including at the confluence of the East and West Forks, Hopland USGS gage location, Cloverdale USGS gage location, and Healdsburg USGS gage location. Two river reaches, the West Fork of the Russian River and East Fork, were identified as having periods of flow that exceed the minimum criteria and therefore have potential for diversion¹.

At these two locations, daily model output across the 107-year simulation period was consolidated in terms of diversion days per month and median potential diversion flow per

¹ The analysis and reporting refer to flow that originated in the East Fork - released from Coyote Dam - as “East Fork Flows Downstream of the Forks” to highlight that we are quantifying the available water that originated in the East Fork, while also calling attention to the fact that any future diversion of East Fork water would occur downstream of the confluence of the two rivers.

month for both the with and without Potter Valley Diversion scenarios. The summary values are presented in Tables 2 and 3.

Table 1. Monthly reach losses updated to reflect face value diversions

Month	Calpella		RVCWD	West Fork	Hopland		Cloverdale		Healdsburg	
	Wet Years	Dry Years	Wet & Dry Years	Wet & Dry Years	Wet Years	Dry Years	Wet Years	Dry Years	Wet Years	Dry Years
	<i>ac-ft</i>	<i>ac-ft</i>	<i>ac-ft</i>	<i>ac-ft</i>	<i>ac-ft</i>	<i>ac-ft</i>	<i>ac-ft</i>	<i>ac-ft</i>	<i>ac-ft</i>	<i>ac-ft</i>
Jan	159	159	865	1,248	2,839	2,839	1,594	1,594	7,426	7,426
Feb	144	144	781	1,127	2,564	2,564	1,440	1,440	6,708	6,708
Mar	451	451	2,499	2,019	6,393	6,393	4,034	4,034	10,289	10,289
Apr	3,788	3,788	2,418	336	3,989	3,989	602	602	8,146	8,146
May	3,915	3,915	694	347	4,122	4,122	622	622	8,418	8,418
Jun	3,788	3,788	672	336	3,989	3,989	602	651	8,146	8,146
Jul	3,915	3,915	694	347	4,233	4,212	622	682	8,418	8,418
Aug	3,915	3,915	694	347	4,122	4,214	622	656	8,418	8,418
Sep	3,788	3,788	672	336	3,989	3,989	602	617	8,146	8,146
Oct	3,915	3,915	694	347	4,122	4,122	704	666	8,418	8,418
Nov	3	3	837	150	2,192	2,192	18	18	5,323	5,323
Dec	89	89	865	754	2,580	2,580	883	883	6,557	6,557

Table 2. Potential diversion days per month

West Fork, with PVP Scenario

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2008	22	20	0	0	0	0	0	0	0	0	0	7
2009	0	18	10	0	8	0	0	0	0	0	0	1
2010	20	20	19	24	7	0	0	0	0	7	15	31
2011	13	14	31	6	0	0	0	0	0	0	1	0
2012	8	4	21	15	3	0	0	0	0	0	5	31
2013	9	0	0	0	0	0	0	0	0	0	0	0
2014	0	16	22	15	0	0	0	0	0	0	2	31
2015	4	11	0	0	0	0	0	0	0	0	0	20
2016	30	12	27	0	0	0	0	0	0	3	14	24
2017	29	28	29	22	0	0	0	0	0	-	-	-
107 year Avg	18	18	15	6	2	0	0	0	0	0	6	15

West Fork, without PVP Scenario

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2008	22	20	0	0	0	0	0	0	0	0	0	7
2009	0	18	10	0	5	0	0	0	0	0	0	1
2010	20	20	19	24	7	0	0	0	0	7	15	31
2011	13	14	31	6	0	0	0	0	0	0	1	0
2012	8	4	21	15	3	0	0	0	0	0	5	31
2013	9	0	0	0	0	0	0	0	0	0	0	0
2014	0	16	22	15	0	0	0	0	0	0	2	31
2015	4	11	0	0	0	0	0	0	0	0	0	20
2016	30	12	27	0	0	0	0	0	0	3	14	25
2017	29	28	29	22	0	0	0	0	0	-	-	-
107 year Avg	18	18	15	6	1	0	0	0	0	0	6	15

East Fork Flows Downstream of the Forks, with PVP Scenario

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2008	22	20	0	0	0	0	0	0	0	0	0	7
2009	0	18	10	0	8	0	0	0	0	0	0	1
2010	20	20	19	24	7	0	0	0	0	7	15	31
2011	13	14	31	6	0	0	0	0	0	0	1	0
2012	8	4	21	15	3	0	0	0	0	0	5	31
2013	9	0	0	0	0	0	0	0	0	0	0	0
2014	0	16	22	15	0	0	0	0	0	0	2	31
2015	4	11	0	0	0	0	0	0	0	0	0	20
2016	30	12	27	0	0	0	0	0	0	3	14	24
2017	29	28	29	22	0	0	0	0	0	-	-	-
107 year Avg	18	18	15	6	2	0	0	0	0	0	6	15

East Fork Flows Downstream of the Forks, without PVP Scenario

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2008	22	20	0	0	0	0	0	0	0	0	0	7
2009	0	18	10	0	5	0	0	0	0	0	0	1
2010	20	20	19	24	7	0	0	0	0	7	15	31
2011	13	14	31	6	0	0	0	0	0	0	1	0
2012	8	4	21	15	3	0	0	0	0	0	5	31
2013	9	0	0	0	0	0	0	0	0	0	0	0
2014	0	16	22	15	0	0	0	0	0	0	2	31
2015	4	11	0	0	0	0	0	0	0	0	0	20
2016	30	12	27	0	0	0	0	0	0	3	14	25
2017	29	28	29	22	0	0	0	0	0	-	-	-
107 year Avg	18	18	15	6	1	0	0	0	0	0	6	15

Table 3. Median flow rate within potential diversion days

West Fork, with PVP Scenario

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2008	610	202										56
2009		322	252		14							163
2010	663	206	129	271	26					170	141	393
2011	143	271	447	60							57	
2012	556	60	332	207	13						284	452
2013	48											
2014		77	303	71							203	401
2015	26	233										326
2016	638	101	410							188	232	258
2017	624	827	135	73						-	-	-
107 year Avg	441	374	221	105	29	26	69			163	146	290

West Fork, without PVP Scenario

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2008	610	202										49
2009		322	252		41							163
2010	663	206	129	271	26					170	141	393
2011	143	271	402	60							57	
2012	556	60	332	207	13						284	452
2013	48											
2014		77	303	71							203	401
2015	26	233										326
2016	638	101	322							188	232	284
2017	624	827	104	73						-	-	-
107 year Avg	439	368	213	103	52	26	108			162	153	287

East Fork Flows Downstream of the Forks, with PVP Scenario

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2008	25	25										25
2009		25	25		25							25
2010	25	25	25	25	25					25	25	25
2011	25	25	25	25							25	
2012	25	25	25	25	246						25	25
2013	25											
2014		25	25	25							25	25
2015	25	25										25
2016	25	25	25							25	25	25
2017	25	683	25	25						-	-	-
107 year Avg	58	123	61	33	191	25	123			25	25	27

East Fork Flows Downstream of the Forks, without PVP Scenario

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2008	25	25										25
2009		25	25		25							25
2010	25	25	25	25	25					25	25	25
2011	25	25	25	25							25	
2012	25	25	25	25	246						25	25
2013	25											
2014		25	25	25							25	25
2015	25	25										25
2016	25	25	25							25	25	25
2017	25	638	25	25						-	-	-
107 year Avg	48	98	51	30	90	25				24	25	25