State Water Resources Control Board Order of June 14, 2021

# Term 12

# Lake Sonoma and Lower Russian River

# Water Accounting Methodology



July 19, 2021

Prepared by

Sonoma County Water Agency 404 Aviation Blvd Santa Rosa, CA 95403

# 1 Introduction

On May 13, 2021, the Sonoma County Water Agency (Sonoma Water) submitted a temporary urgency change petitions requesting modifications to water right Permits 12947A, 12949, 12950 and 16596. The requested changes were to establish the water supply conditions in the Russian River system as *Critical*, thereby setting minimum instream flow requirements in the Upper and Lower Russian River to more appropriate flow rates given the water supply constraints and drought severity in the watershed. On June 14, 2021, the State Water Resources Control Board (State Water Board) issued the order (Order) approving Sonoma Water's petitions. Under the requirements of Term 12 of the Order, Sonoma Water was directed to develop a methodology for water accounting in Lake Sonoma on Dry Creek and the Lower Russian River. This term requires the methodology be used to issue weekly reports to the State Water Board Deputy Director and publish to a public website. An accounting methodology for the Upper Russian River was developed and weekly reports implemented under the requirements of Term 11 of the amended order issued on February 11, 2021 on Sonoma Water's temporary urgency change petition filed on January 7, 2021. Term 13 of the Order continues the weekly reporting of the Upper Russian River water accounting.

Term 12 requires the following to be submitted by July 15, 2021:

'...a proposed accounting methodology to the Deputy Director that characterizes water flowing into (inflow) and released from Lake Sonoma, flows in the Lower Russian River, and the rediversion of water by Sonoma Water or its contractors. The accounting methodology shall be sufficient to define, distinguish, and quantify the following:

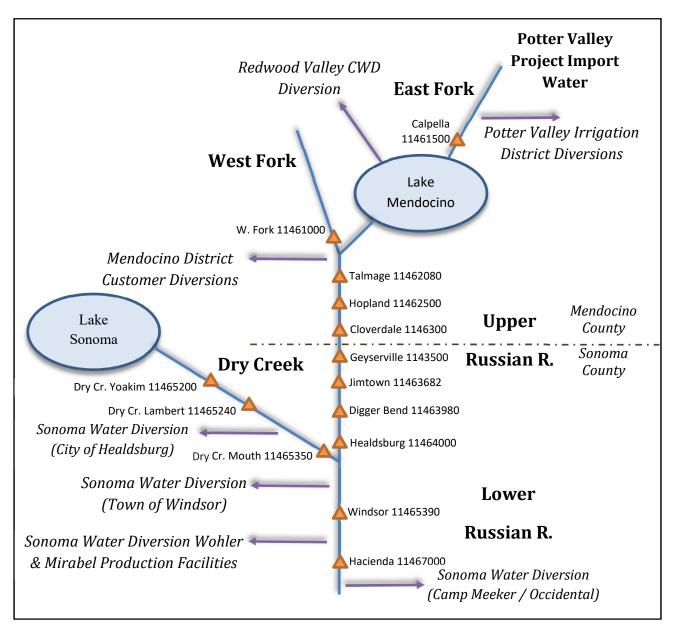
- a. Inflows from water native to the watershed.
- b. Releases from Lake Sonoma that constitute bypass of water, water released from storage for downstream deliveries, or water released from storage to maintain instream flows.
- c. Releases from Lake Sonoma that are rediverted by Sonoma Water or its water contractors or purchasers.
- d. Flows in the Lower Russian River that originate from Lake Mendocino releases.
- e. Reach losses in Dry Creek and the Lower Russian River.
- f. Sonoma Water may choose to include additional inflow or outflow categories not listed under a, b, and c in the accounting methodology. Explanations for each category and how it is defined shall be included in the proposed accounting methodology. '

Sonoma Water understands that the State Water Board may submit requested revisions to the accounting methodology. Any revisions requested by the State Water Board shall be implemented within 30 days. The water accounting reports will be published to Sonoma Water's website at <a href="https://www.sonomawater.org/tucp">https://www.sonomawater.org/tucp</a>.

# 2 Russian River System

The Russian River is approximately 110 miles long with a watershed that spans more than 1,485 square miles. A schematic of the major features and reaches of the Russian River related to the water accounting effort is presented in Figure 1. The headwaters of the East and West Forks of the Russian River are north of the City of Ukiah in Mendocino County. The East Fork originates in Potter Valley and receives transfers from the Eel River watershed to the north through the Potter Valley Project, a hydroelectric project operated by PG&E. The Potter Valley Irrigation District has a water supply contract with PG&E that serves as their primary water supply. The Coyote Valley Dam that forms Lake Mendocino is located further downstream on the East Fork just prior to the confluence with the West Fork. In the most general terms, the river can be divided into two reaches, the Upper Russian and the Lower Russian with the confluence of Dry Creek as the boundary between the two reaches. The Warm Springs Dam that forms Lake Sonoma lies on Dry Creek. Lake Sonoma and Lake Mendocino are operated by Sonoma Water for water supply. Storage releases from the two reservoirs are used to meet minimum instream flow requirements and satisfy downstream diversions for water users authorized to redivert project water (reservoir releases of stored water).

Figure 1: Schematic of Russian River Reaches



# 3 Lake Sonoma Operations

Sonoma Water is the local sponsor for Lake Sonoma, a U.S. Army Corps of Engineers (USACE) facility, and is responsible for making water supply releases in compliance with its water right permits. As the local sponsor, Sonoma Water has the exclusive right to control releases from the water supply pool. Under flood control operations, reservoir releases are performed by the USACE.

Sonoma Water makes releases from Warm Springs Dam at Lake Sonoma to maintain the minimum instream flow requirements specified in its water right permits and support Sonoma Water diversions from points downstream in Dry Creek and the Russian River. These releases are made by Sonoma Water

when reservoir storage levels are in the water supply pool, defined currently as below 245,000 acre-feet as documented in the facility's Water Control Manual.

Under standard operations, Sonoma Water makes release decisions from Lake Sonoma based on compliance with minimum instream flow requirements in its water right permits at compliance gage locations in Dry Creek and the Lower Russian River. Lake Sonoma and Lake Mendocino are operated conjunctively, but because Lake Sonoma is significantly larger, compliance with minimum instream flow requirements in the Lower Russian River is largely met by releases from Lake Sonoma, particularly under *Dry* and *Critical* water year classifications.

The minimum instream flow requirement for Dry Creek downstream of Lake Sonoma varies by time of year and water-year type (Table 1), ranging from 25 cfs during the period of April 1 to October 31 under *Critical* conditions to 105 cfs from November 1 to December 31 under *Normal* conditions. The minimum instream flow requirements for the Lower Russian River that apply year-round are 125 cfs under *Normal* conditions, 85 cfs under *Dry* conditions, and 35 cfs under *Critical* conditions.

Water Supply Conditions	Minimum Instream Flow Requirement (CFS)	Date Range		
	75	1/1-4/30		
Normal	80	5/1–10/31		
	105	11/1–12/31		
Dry	25	4/1-10/31		
	75	11/1–3/31		
Critical	25	4/1-10/31		
	75	11/1–3/31		

#### Table 1: Dry Creek minimum instream flow requirements

## 4 Watershed Water Rights

To perform a proper water accounting in the Russian River, a methodology must account for the amount of the various water sources types in each reservoir and reach and the transactions of inflows and outflows for each water source. Diversions under water rights in the watershed are a major component of the outflows or reach losses observed during the dry season. The accounting methodology report for Lake Mendocino and the Upper Russian River prepared under the requirements of Term 11 for the February 11, 2021 Order addresses the categories of water rights present in the Russian River watershed and their relative priorities to the three main types of water present downstream of Lake Mendocino— natural flow, imported water and reservoir storage water. For Lake Sonoma and Dry Creek, the water

accounting is less complex as there is only natural flow and reservoir storage water. Additionally, Sonoma Water is the sole entity authorized to redivert storage water released from Lake Sonoma. Stored water releases are also used to meet minimum instream flow requirements.

In the Lower Russian River, downstream of the confluence of the Upper Russian River and Dry Creek, water accounting includes all water source types from the upstream reaches.

## 5 Water Accounting

Sonoma Water has developed an updated water accounting methodology to be implemented in producing a weekly report that characterizes the inflows and releases from Lake Sonoma, as well as the origin and reach losses of flows in the Lower Russian River and Dry Creek. The water accounting methodology outlined below augments the methodology developed to characterize the inflows and releases of Lake Mendocino under Term 11 of the order dated February 11, 2021. The methodology uses available measured data, estimated data, and assumptions to provide estimates of water availability by source on a daily basis. The weekly water accounting report includes a review of all three reaches: the Upper Russian, Dry Creek, and the Lower Russian.

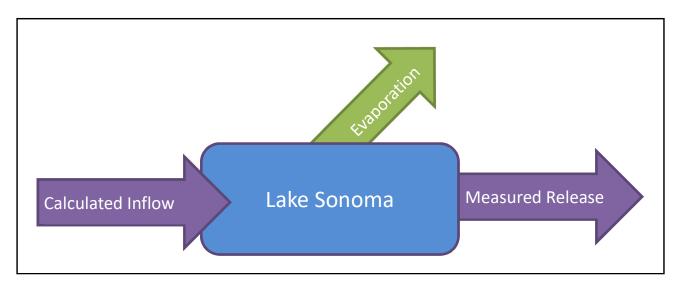
## Lake Sonoma Inflow

Unlike Lake Mendocino, which includes imported water from the Eel River via the Potter Valley Project, inflow into Lake Sonoma is comprised solely of natural flow native to the Dry Creek watershed. The USACE calculates natural inflow for Lake Sonoma based on a water balance for the reservoir, similar to the approach used for Lake Mendocino. Figure 2 documents the components of the water balance considered in the USACE calculation. The simplified equation for the water balance is:

$$V_{Inflow} = \left(\Delta S_{Lake\ Sonom} + \left(V_{Release} + V_{Evaporation}\right)\right)$$

The volume of the inflow is calculated as the daily change in storage plus the volume of the reservoir release plus the calculated reservoir evaporation. This is a simplification of the complete water balance that would also include reservoir seepage, which is assumed to be negligible.

#### Figure 2: General Reservoir Water Balance for Lake Sonoma



### Lake Sonoma Reservoir Releases

The USACE maintains and publishes the release gage data for the Warm Springs Dam. The components of those releases can be characterized as pass-through water, water released from storage for downstream Sonoma Water rediversions, and water released from storage to maintain instream flows. To determine the components of the releases from the reservoir, it is important to characterize the state of the reservoir as operating under collection, withdrawal, or regulation. For our approach, it is assumed that any increases in storage are collection and decreases in storage are withdrawals that pass-through all natural flow and any additional withdrawals are releases of stored water. Attachment 1 shows an example of the complete water accounting report to be issued by Sonoma Water that satisfies Terms 12 and 13 of the Order.

### Lake Sonoma Storage Withdrawals

Sonoma Water has four water right permits--Permits 12947A, 12949, 12950 and 16596--from which to claim authorized diversions. Under the current drought conditions, Sonoma Water diversions are anticipated to be fulfilled solely under Permit 16596, which authorizes direct diversion and rediversion of stored water releases from Lake Sonoma. Under Term 14 of the Order, Sonoma Water and its customers are prohibited from rediverting storage releases from Lake Mendocino under Permit 12947A. Permits 12949 and 12950 are direct diversion rights that authorize diversions of non-project water which is anticipated to remain in low supply.

Under water supply agreements, Sonoma Water provides water to four water systems that may divert water under Sonoma Water's water rights. Table 2 summarizes the details of water use under Sonoma Water water rights and the terms associated water supply agreements. Of the four water systems, only the Town of Windsor water supply agreement is used on a continual basis as its primary water source. The City of Healdsburg and the communities of Camp Meeker and Occidental have water supply agreements that serve as a backup supply for times when their water rights are deficient.

Ent	ity	POD(s)	Permit / Agreement Max Rate (gpm)	Actual Production Capacity (gpm)	Actual Limit (ac-ft)	Typical Diversions under Sonoma Water Rights
Son	noma Water	Wohler & Mirabel Collector Wells	41,290	64,000	37,544	Year-round primary supply source
a)	Town of Windsor	Russian River Wellfield	5,000	5,000	4,725	Year-round primary supply source
b)	City of Healdsburg	Gauntlett & Fitch Mountain Wellfields (Russian River); Dry Creek Wellfield	4,375	2,825	425	None on Russian River; Limited use on Dry Creek from Nov 1 – Mar 31
c)	Camp Meeker / Occidental	River Well (Russian River)	100	100	35	Limited use from Nov 1 – Jun 30 under dry conditions

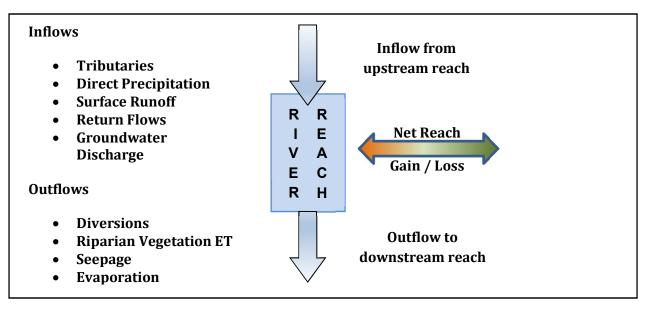
Operationally, Sonoma Water makes releases from Coyote Valley Dam to meet the demands and minimum instream flow requirements on the Upper Russian River reach only. Withdrawals from Warm Springs Dam augment these flows at the confluence of Dry Creek to maintain minimum instream flows on the Lower Russian River and satisfy diversions by Sonoma Water and its customers.

### **Reach Losses**

A combination of reservoir release data and streamflow measurements from stream gages distributed throughout the Russian River watershed are used to delineate stream sub-reaches in the Upper and Lower Russian River and Dry Creek (Fig. 1). With these measurements, net streamflow losses for each sub-reach are estimated by calculating travel-time adjusted differences in streamflow between upstream and downstream gages. Reach travel times were developed based on relationships established with stream flow rates. Curves plotting travel time versus stream discharge were extrapolated from observed travel times using a power law function<sup>1</sup> fitted to travel-time observations for each stream gage (Attachments 2 through 4). Net reach losses are the cumulative gain/loss comprised of many potential inflows and outflows, shown conceptually in Figure 3. Estimating individual reach loss components on the Russian River and Dry Creek remains a challenge given the large number of diverters, as well as the spatially and temporally dynamic nature of diversions, tributary contributions, riparian evapotranspiration, and groundwater/surface-water interactions.

<sup>&</sup>lt;sup>1</sup> Jobson, Harvey E. *Estimating the variation of travel time in rivers by use of wave speed and hydraulic characteristics*. No. 4187. US Department of the Interior, US Geological Survey, 2000.

#### Figure 3: Reach Water Balance



### 5.1.1 Reach Losses—Upper Russian River

The Upper Russian River, from the Forks to the Dry Creek confluence, has seven USGS stream gages (USGS 11462080, 11462500, 11463000, 11463500, 11463682, 11463980, 1146400; Fig. 1). Using six of these gages, six sub-reaches can be delineated along the Upper River, for which reach losses can be estimated. Travel time estimates<sup>1</sup> used to calculate net reach losses between gages are provided in Attachment 2.

### 5.1.2 Reach Losses—Dry Creek

For Dry Creek, the Warm Springs Dam release gage and three additional USGS stream gages (USGS 11465200, 11465240, 11465350; Fig. 1) comprise four gage observations on Dry Creek and delineate three sub-reaches between Warm Springs Dam and the confluence with the Russian River. Travel time estimates<sup>1</sup> used to calculate net reach losses between gages are provided in Attachment 3.

### 5.1.3 Reach Losses—Lower Russian River

The Lower Russian River has two USGS stream gages (USGS 1145390, 11467000; Fig. 1) downstream of the Dry Creek confluence. These gages combined with the calculated flow that is estimated downstream of the confluence from USGS 11465350 (Dry Creek Mouth) and 11464000 (Russian River at Healdsburg) delineate the two sub-reaches for analysis. Similar to the Upper Russian River and Dry Creek, reach losses are estimated for the sub-reaches between stream gages using estimated travel times (Attachment 4). Estimated travel times from 11464000 (Russian River at Healdsburg) to 11465390 (Russian River at Windsor) are not calibrated with observed travel times (Attachment 3) because 11465390 is operated seasonally, and thus has a limited period of record to calculate observed travel times.

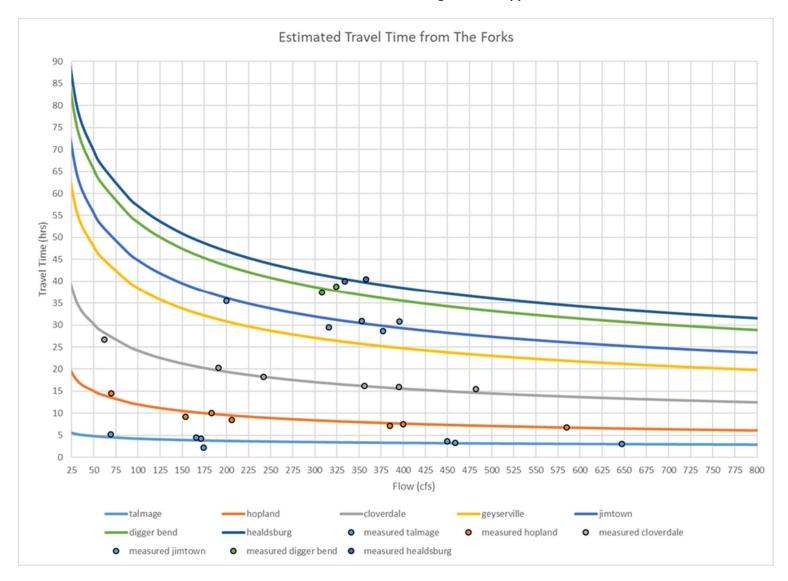
Units are cfs unless noted otherwise								
		7/9/2021	7/10/2021	7/11/2021	7/12/2021	7/13/2021	7/14/2021	7/15/202
I. Upper East Fork Reach								
Potter Valley Project								
Tunnel Diversion		30.0	30.0	30.0	30.0	30.0	30.0	30.
PVID Requested Delivery		25.0	25.0	25.0	25.6	30.0	30.5	35.
PVID Canals Actual Delivery		10.8	10.8	10.8	10.8	16.3	16.4	17.
East Fork Release		19.2	19.2	19.2	19.2	13.7	13.6	12.
PVID E Fork Diversions		14.2 25.0 0.0	14.2	14.2 25.0	14.8 25.6	13.7 30.0	14.1 30.5	17.9
PVID Water Use - PG&E Contract			25.0					35.
PVID Water Use - License 5264			0.0	0.0	0.0	0.0	0.0	0.
East Fork Downstream of PVID		5.0	5.0	5.0	4.4	0.0	-0.5	-5.
PVID Canal Net Return Flow (assumed)		3.8	2.9	7.4	8.4	9.2	8.6	14.
East Fork / Potter Valley Reach Analysis								
USGS E Fork @ Calpella		8.8	7.9	12.4	12.8	9.2	8.2	9.
Net Reach Loss(-)/Gain(+)		-21.2	-22.1	-17.6	-17.2	-20.8	-21.8	-20.
Unimpaired Natural Flow @ Calpella (est.)		0.0	0.0	0.0	0.0	0.0	0.0	0.
Non-PVID East Fork Net Reach Losses (est.)		0.0	0.0	0.0	0.0	0.0	0.0	0.
Natural Flow		0.0	0.0	0.0	0.0	0.0	0.0	0.
Import (neg. value is return flow)		0.0	0.0	0.0	0.0	0.0	0.0	0.
I. Lake Mendocino								
Resrvoir Operations								
Calculated Inflow (ac-ft)		34.5	12.5	29.6	8.1	4.9	27.9	6
(cfs)		17	6	15	4	2	14	
Natural Flow		0	0	0	0	ō	0	
Import		17	6	15	4	2	14	
Storage Change (ac-ft)		-158.0	-179.0	-155.0	-188.0	-198.0	-175.0	-195
(cfs)		-80	-90	-78	-95	-100	-88	-9
Stored Natural Flow (cfs)		0	0	0	0	0	0	
Stored Import Water (cfs)		0	0	0	0	o	0	
Evaporation (ac-ft)		25.9	25.0	25.6	24.7	23.9	22.4	20
RVCWD Diversion (ac-ft) (est.)		0	0	0	0	0	0	
CVD Release Gage		84	84	80	86	90	91	9
Storage (Project Water)		67	78	65	82	88	77	8
Natural Flow		0	0	0	0	0	0	
Import Water		17	6	15	4	2	14	
East Fork Min Instream Flow Requirement		25	25	25	25	25	25	2
Compliance Gage	Rwr mi.							
CVD Release	99.9	84	84	80	86	90	91	9
CVD Project Water Release to Meet Min Flow	v Requirer	nent						
Total Pass-through Water		17	6	15	4	2	14	
Project Water Release Required		Yes	Yes	Yes	Yes	Yes	Yes	Ye
III. Upper Russian River Reach								
Minimum Instream Flow Requirement		15	15	15	15	15	15	1
Controlling Compliance Gage								
Min Gage Flow		28	25	24	25	25	26	2
Controlling Gage		Healdsburg	Healdsburg	Healdsburg	Healdsburg	Healdsburg	Healdsburg	Healdsbur
Contraction of the Contraction o	Rvr mi.				4010 MODE 100 MODE			NOT THE REPORT OF
All Compliance Gages					86	90	91	9
All Compliance Gages Forks (CVD + USGS 11461000)	99.0	84	84	80	00	50		
	99.0 96.1	84 68	84 67	80 68	69	71	71	7
Forks (CVD + USGS 11461000)							71 62	7
Forks         (CVD + USGS 11461000)           Talmage         (USGS 11462080)	96.1	68	67	68	69	71		
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Forks         (CVD + USGS 11461000)           Talmage         (USGS 11462080)           Hopland         (USGS 11462500)           Cloverdale         (USGS 11463000)	96.1 84.8 70.9	68 56 56	67 55 55	68 56 55	69 59 58	71 59 62	62 63	5
Forks         (CVD + USGS 11461000)           Talmage         (USGS 11462060)           Hopland         (USGS 11462500)           Cloverdale         (USGS 11463000)           Geyserville         (USGS 11463500)	96.1 84.8 70.9 54.4	68 56 56 41	67 55 55 39	68 56 55 39	69 59 58 38	71 59 62 42	62 63 44	5
Forks         (CVD + USGS 11461000)           Talmage         (USGS 11462060)           Hopland         (USGS 11462500)           Cloverdale         (USGS 11463000)           Geyserville         (USGS 11463500)           Jimtown         (USGS 11463682)	96.1 84.8 70.9 54.4 48.5	68 56 41 33	67 55 55 39 30	68 56 55 39 30	69 59 58 38 31	71 59 62 42 31	62 63 44 33	
Forks         (CVD + USGS 11461000)           Talmage         (USGS 11462060)           Hopland         (USGS 11463000)           Cloverdale         (USGS 11463000)           Geyserville         (USGS 11463500)           Jimtown         (USGS 11463682)           Digger Bend         (USGS 11463980)           Healdsburg         (USGS 11464000)	96.1 84.8 70.9 54.4 48.5 38.2	68 56 41 33 30	67 55 39 30 26	68 56 55 39 30 26	69 59 58 38 31 26	71 59 62 42 31 27	62 63 44 33 27	5
Forks         (CVD + USGS 11461000)           Talmage         (USGS 11462060)           Hopland         (USGS 11462500)           Cloverdale         (USGS 11463000)           Geyserville         (USGS 11463500)           Jimtown         (USGS 11463682)           Digger Bend         (USGS 11463980)           Healdsburg         (USGS 11464000)	96.1 84.8 70.9 54.4 48.5 38.2	68 56 41 33 30	67 55 39 30 26	68 56 55 39 30 26	69 59 58 38 31 26	71 59 62 42 31 27	62 63 44 33 27	
Forks         (CVD + USGS 11461000)           Talmage         (USGS 11462060)           Hopland         (USGS 1146200)           Cloverdale         (USGS 11463000)           Geyserville         (USGS 11463500)           Jimtown         (USGS 11463682)           Digger Bend         (USGS 11463980)           Healdsburg         (USGS 11463000)	96.1 84.8 70.9 54.4 48.5 38.2	68 56 41 33 30 28	67 55 39 30 26 25	68 56 55 39 30 26 24	69 59 58 38 31 26 25	71 59 62 42 31 27 25	62 63 44 33 27 26	
Forks         (CVD + USGS 11461000)           Talmage         (USGS 11462000)           Hopland         (USGS 11462000)           Cloverdale         (USGS 11463000)           Geyserville         (USGS 11463000)           Jimtown         (USGS 11463000)           Digger Bend         (USGS 11463000)           Healdsburg         (USGS 11463000)           Vet Reach Loss(-)/Gain(+)         Forks - Talmage	96.1 84.8 70.9 54.4 48.5 38.2	68 56 41 33 30 28 -16	67 55 39 30 26 25 -16	68 56 55 39 30 26 24 -13	69 59 58 38 31 26 25 -16	71 59 62 42 31 27 25 -19	62 63 44 33 27 26 -20	
Forks         (CVD + USGS 11461000)           Talmage         (USGS 11462080)           Hopland         (USGS 1146200)           Cloverdale         (USGS 11463000)           Geyserville         (USGS 11463000)           Jimtown         (USGS 11463980)           Healdsburg         (USGS 11463980)           Wet Reach Loss[-]/Gain(+)	96.1 84.8 70.9 54.4 48.5 38.2	68 56 41 33 30 28 -16 -12	67 55 39 30 26 25 -16 -12	68 56 55 39 30 26 24 -13 -12	69 59 58 38 31 26 25 -16 -9	71 59 62 42 31 27 25 -19 -11	62 63 44 33 27 26 -20 -12	5 5 6 7 7 7 7
Forks         (CVD + USGS 11461000)           Talmage         (USGS 11462080)           Hopland         (USGS 11462000)           Cloverdale         (USGS 11463000)           Geyserville         (USGS 11463500)           Jimtown         (USGS 11463980)           Healdsburg         (USGS 11463980)           Healdsburg         (USGS 11463980)           Forks - Talmage         Talmage - Hopland           Hopland - Cloverdale         Line - Kopland - Cloverdale	96.1 84.8 70.9 54.4 48.5 38.2	68 56 41 33 30 28 -16 -12 -5	67 55 39 30 26 25 -16 -12 -4	68 56 55 39 30 26 24 -13 -12 -5	69 59 58 38 31 26 25 -16 -9 -5	71 59 62 42 31 27 25 -19 -11 -3	62 63 44 33 27 26 -20 -12 -3	
Forks         (CVD + USGS 11461000)           Talmage         (USGS 11462080)           Hopland         (USGS 11462000)           Cloverdale         (USGS 11463000)           Geyserville         (USGS 11463000)           Jimtown         (USGS 11463980)           Healdsburg         (USGS 11463980)           Healdsburg         (USGS 11464000)           Net Reach Loss[-]/Gain[+]         Forks - Talmage           Talmage - Hopland         Hopland - Cloverdale           Cloverdale - Jimtown         Jimtown	96.1 84.8 70.9 54.4 48.5 38.2	68 56 41 33 30 28 -16 -12 -5 -22	67 55 39 30 26 25 -16 -12 -4 -23	68 55 39 30 26 24 -13 -12 -5 -22	69 58 38 31 26 25 -16 -9 -5 -20	71 59 62 42 31 27 25 -19 -11 -3 -19	62 63 44 33 27 26 -20 -12 -3 -23	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
Forks     (CVD + USGS 11461000)       Talmage     (USGS 11462080)       Hopland     (USGS 11463000)       Cloverdale     (USGS 11463000)       Geyserville     (USGS 11463000)       Jimtown     (USGS 11463682)       Digger Bend     (USGS 11463980)       Healdsburg     (USGS 11464000)       Net Reach Loss[-]/Gain(+)       Forks - Talmage       Talmage - Hopland       Hopland - Cloverdale       Cloverdale - Jimtown       Jimtown - Digger Bend	96.1 84.8 70.9 54.4 48.5 38.2	68 56 41 33 30 28 -16 -12 -5 -22 -4	67 55 39 30 26 25 -16 -12 -4 -23 -5	68 56 55 39 30 26 24 -13 -12 -5 -22 -4	69 59 58 38 31 26 25 -16 -9 -5 -20 -4	71 59 62 42 31 27 25 -19 -11 -3 -19 -4	62 63 44 33 27 26 -20 -12 -3 -23 -23 -5	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Forks       (CVD + USGS 11461000)         Talmage       (USGS 11462000)         Hopland       (USGS 11463000)         Cloverdale       (USGS 11463000)         Geyserville       (USGS 11463000)         Jimtown       (USGS 11463000)         Digger Bend       (USGS 11463980)         Healdsburg       (USGS 11463980)         Healdsburg       (USGS 11464000)         Vet Reach Loss/.//Gain(±)       Forks - Talmage         Talmage - Hopland       Hopland - Cloverdale         Cloverdale - Jimtown       Jimtown - Digger Bend         Digger Bend - Healdsburg       Upper Russian Net Reach Loss//Gain	96.1 84.8 70.9 54.4 48.5 38.2 35.6	68 56 41 33 30 28 -16 -12 -5 -22 -4 -2 -2 -63	67 55 39 30 26 25 -16 -12 4 -23 -5 -2	68 56 55 39 30 26 24 -13 -12 -5 -5 -22 -4 -2	69 59 58 38 31 26 25 -16 -9 -5 -20 -4 -1	71 59 62 42 31 27 25 -19 -11 -3 -19 -4 -1	62 63 44 33 27 26 -20 -12 -3 -23 -23 -5 -1	
Forks       (CVD + USGS 11461000)         Talmage       (USGS 11462000)         Hopland       (USGS 11463000)         Cloverdale       (USGS 11463000)         Geyserville       (USGS 11463000)         Jimtown       (USGS 11463000)         Digger Bend       (USGS 11463980)         Healdsburg       (USGS 11463980)         Healdsburg       (USGS 11464000)         Vet Reach Loss/.//Gain(±)       Forks - Talmage         Talmage - Hopland       Hopland - Cloverdale         Cloverdale - Jimtown       Jimtown - Digger Bend         Digger Bend - Healdsburg       Upper Russian Net Reach Loss//Gain	96.1 84.8 70.9 54.4 48.5 38.2 35.6 35.6	68 56 41 33 30 28 -16 -12 -5 -22 -4 -2 -2 -63	67 55 39 30 26 25 -16 -12 4 -23 -5 -2	68 56 55 39 30 26 24 -13 -12 -5 -5 -22 -4 -2	69 59 58 38 31 26 25 -16 -9 -5 -20 -4 -1	71 59 62 42 31 27 25 -19 -11 -3 -19 -4 -1	62 63 44 33 27 26 -20 -12 -3 -23 -23 -5 -1	
Forks       (CVD + USGS 11461000)         Talmage       (USGS 11462080)         Hopland       (USGS 11462000)         Cloverdale       (USGS 11463000)         Geyserville       (USGS 11463000)         Jimtown       (USGS 11463000)         Digger Bend       (USGS 11463980)         Healdsburg       (USGS 11463980)         Vet Reach Loss(-)/Gain(+)       Vet Reach Loss(-)/Gain(+)         Forks - Talmage       Talmage - Hopland         Hopland - Cloverdale       Cloverdale - Jimtown         Jimtown - Digger Bend       Digger Bend - Healdsburg         Upper Russian Net Reach Loss/Gain       CVD Project Water Release to Meet Min Floc         Net Reach Loss(-)/Gain(+) to Controlling Gain       Vet Reach Loss(-)/Gain(+) to Controlling Gain	96.1 84.8 70.9 54.4 48.5 38.2 35.6 35.6	68 56 41 33 30 28 -16 -12 -5 -22 -4 -2 -4 -2 -63	67 55 39 30 26 25 -16 -12 -4 -23 -5 -2 -62	68 56 55 39 30 26 24 -13 -12 -5 -22 -4 -2 -4 -2 -56	69 59 58 31 26 25 -16 -9 -5 -20 -4 -1 -55	71 59 62 42 31 27 25 -19 -11 -3 -19 -4 -1 -58	62 63 44 33 27 26 -20 -12 -3 -23 -23 -5 -1 -64	1 10 10 10 10 10 10 10 10 10 10 10 10 10
Forks       (CVD + USGS 11461000)         Talmage       (USGS 11462060)         Hopland       (USGS 11462000)         Cloverdale       (USGS 11463000)         Geyserville       (USGS 11463000)         Jimtown       (USGS 11463682)         Digger Bend       (USGS 11463980)         Healdsburg       (USGS 11463980)         Healdsburg       (USGS 11463000)         Vet Reach Loss(-)/Gain(+)       Forks - Talmage         Talmage - Hopland       Hopland - Cloverdale         Cloverdale - Jimtown       Jimtown - Digger Bend         Digger Rend - Healdsburg       Upper Russian Net Reach Loss/Gain         CVD Project Water Release to Meet Min Floc	96.1 84.8 70.9 54.4 48.5 38.2 35.6 35.6	68 56 41 33 30 28 -16 -12 -5 -22 4 -2 -63 ement 63	67 55 39 30 26 25 -16 -12 4 -23 -5 -2 -62 -62	68 56 55 39 30 26 24 -13 -12 -5 -22 -4 -2 -56 -56	69 59 58 38 31 26 25 -16 -9 -5 -20 -4 -1 -55 -55	71 59 62 42 31 27 25 -19 -11 -3 -19 -4 -1 -58 -58	62 63 44 33 27 26 -20 -12 -3 -23 -5 -1 -64	
Forks       (CVD + USGS 11461000)         Talmage       (USGS 11462080)         Hopland       (USGS 11462000)         Cloverdale       (USGS 11463000)         Geyserville       (USGS 11463000)         Jimtown       (USGS 11463000)         Jimtown       (USGS 11463900)         Jigger Bend       (USGS 11463980)         Healdsburg       (USGS 11463980)         Vet Reach Loss(-)/Gain(+)       Forks - Talmage         Talmage - Hopland       Hopland - Cloverdale         Cloverdale - Jimtown       Jimtown - Digger Bend         Digger Bend - Healdsburg       Upper Russian Net Reach Loss/Gain         VD Project Water Release to Meet Min Floc         Net Reach Loss(-)/Gain(+) to Controlling Gain (+) to Controlling (-) (+) to Controlling (-) (+) to Controlling (-) (+	96.1 84.8 70.9 54.4 48.5 38.2 35.6 35.6	68 56 41 33 28 -16 -12 -5 -22 -4 -2 -63 -5 -23 -4 -63 -63 +63	67 55 39 30 26 25 -16 -12 4 -23 -5 -2 -62 -62 +62	68 56 55 39 30 26 24 -13 -12 -5 -22 -4 -2 -56 -56 +56	69 59 58 38 31 26 25 -16 -9 -5 -20 -4 -1 -55 -55 +55	71 59 62 42 31 27 25 -19 -11 -3 -19 -4 -1 -58 -58 +58	62 63 44 33 27 26 -20 -12 -3 -23 -5 -1 -64 -64 +64	жы т. ос. 2. 6. состание 

Notes: - Water Accounting for the Upper Russian River is an analysis that approximates the current conditions based on methodology in Term 11 (2/11/21 Order) report and modified by Term 12 (6/14/21 Order) report. Values listed include estimated values where measurements are not currently available (red italics).

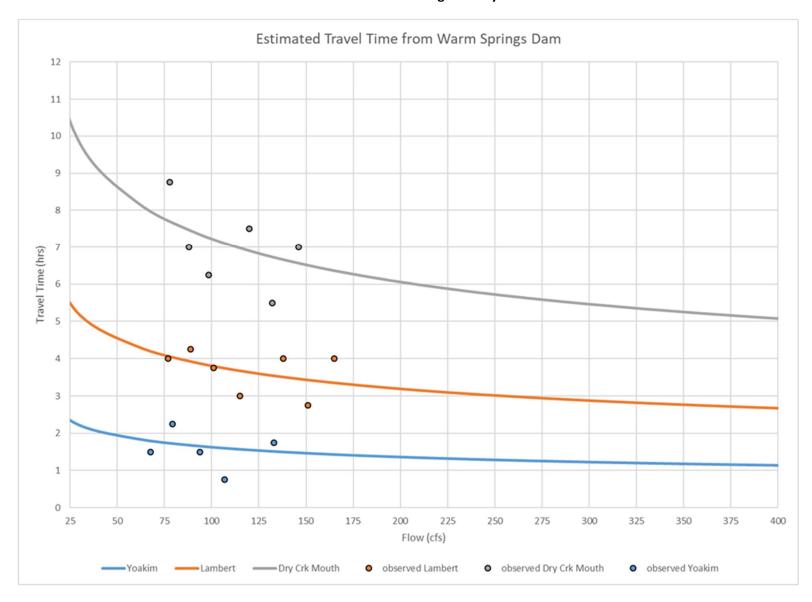
### Attachment 1 – Example Weekly Accounting Report: Lake Sonoma – Dry Creek - Lower Russian

IV. Lake Sonoma Lake Sonoma Storage Change (ac-ft) (cfs) Evaporation (ac-ft) Inflow (Natural Flow) WSD Release Gage Storage (Project Water Natural Flow V. Lower Dry Creek R Minimum Instream Flow Re Controlling Compliance Gages WSD Release Yoakim (uses ±: Dry Crk Mouth (uses ±: Dry Creek Flow (Mouth Gage L Sonoma Project Water Natural Flow Russian River flow (Mouth Gage L Sonoma Project Water Natural Flow Russian River d/s of Conflue L Mendocino Project Water Natural Flow Russian River d/s of Conflue L Mendocino Project Water Natural Flow VII. Lower Russian Riv Min Gage Flow Controlling Gage All Compliance Gages Windsor (uses ±: Hacienda (uses	each auirement 463200) 463240) 463300] tence Reach Analys to Meet Min Flow throlling Gage uired y Creek Confluc ealdsburg Gage) ir + Import Water	Requirement	-273.0 -138 26.8 0 102 0 25 87 fourth De 102 108 110 87 0 +7 +2 -22 -14 -14 Yes	-255.0 -129 27.9 0 101 101 0 25 88 ry Crk Mouth D 101 108 110 88 0 47 +3 -13 -13 Yes	101 109 111 89 0 +8 +3 -22 -11 -11	-221.0 -111 25.7 6 104 98 6 25 90 bry Crk Mouth Dry 104 111 113 90 6 +7 +2 -22 -13 -7	-203.0 -102 24.6 14 104 90 14 25 92 (Crk Mouth D 104 112 115 92 14 +8 +3 -23 -12	-255.0 -129 24.5 0 103 103 0 25 93 0 ry Crk Mouth Dr 103 111 115 93 0 +8 +4 -22 -10	-338 -1 24 y Crk Mouth 1 1
Storage Change (ac-ft) (cfs) Evaporation (ac-ft) Inflow (Natural Flow) WSD Release Gage Storage (Project Water Natural Flow V. Lower Dry Creek R Minimum Instream Flow Re Controlling Compliance Gage Min Gage Flow Controlling Gage All Compliance Gages WSD Release Yoakim (USGS 11 Lambert (USGS 12 Lambert (USGS 12 Lambert (USGS 12 Lambert (USGS 12 Dry Crk Mouth (USGS 12 WSD to Russian River Compliance Notal Pass-through Water Net Reach Loss(-)/Gain(+) WSD - Yoakim Yoakim - Lambert Lambert - Dry Crk Mouth WSD - Yoakim Yoakim Picet Water Release Net Reach Loss/Gain to Co Project Water Release Req VI. Russian River Flow (I) L Mendocino Project Water Natural Flow Dry Creek Flow (Mouth Gage L Sonoma Project Water Natural Flow WIL Lower Russian River Natural Flow VII. Lower Russian River Min Gage Flow Controlling Gage All Compliance Gages Windsor (USS 12 Hacienda (USS 12)	each auirement 463200) 463240) 463300] tence Reach Analys to Meet Min Flow throlling Gage uired y Creek Confluc ealdsburg Gage) ir + Import Water	rami 14.3 11.1 6.5 0.1 Siš	-138 26.8 0 102 00 25 87 fourth Dr 102 108 110 87 0 +7 +2 -22 -14 -14 Yes	-129 27.9 0 101 101 25 88 ry Crk Mouth D 101 108 110 88 0 +7 +3 -22 -13	-129 25.7 0 101 0 25 89 0ry Crk Mouth 0 101 109 111 89 0 +8 +3 -22 -11	-111 25.7 6 104 98 6 25 90 hry Crk Mouth Dr 104 111 113 90 6 +7 +2 -22 -13	-102 24.6 14 104 90 14 25 92 7 Crk Mouth D 104 112 115 92 14 +8 +3 -23	-129 24.5 0 103 103 0 25 93 ry Crk Mouth Dr 103 111 115 93 0 +8 +4 +4 -22	-1 24 y Crk Mouth 1 1
(cfs) Evaporation (ac-ft) Inflow (Natural Flow) WSD Release Gage Storage (Project Water Natural Flow V. Lower Dry Creek R Minimum Instream Flow Re Controlling Compliance Gage Min Gage Flow Controlling Compliance Gage Min Gage Flow Controlling Compliance Gage WSD Release Yoakim (USGS 11 Lambert (USGS 11 Lambert (USGS 11 Dry Crk Mouth (USGS 11 Dry Crk Mouth (USGS 11 Total Pass-through Water Vest Reach Loss(-)/Gain(+) WSD - Yoakim Yoakim - Lambert Lambert - Dry Crk Mouth WSD - Project Water Release Net Reach Loss/Gain to Co Project Water Release Req VI. Russian River Flow (H Dry Creek Flow (Mouth Gage L Sonoma Project Water Natural Flow Zustian River d/s of Conflue L Mendocino Project Water Natural Flow Zustian River flow (Auth Confling Compliance Gage Min Gage Flow Controlling Compliance Gage Min Gage Flow Controlling Gage All Compliance Gage	each auirement 463200) 463240) 463300] tence Reach Analys to Meet Min Flow throlling Gage uired y Creek Confluc ealdsburg Gage) ir + Import Water	rami 14.3 11.1 6.5 0.1 Siš	-138 26.8 0 102 00 25 87 fourth Dr 102 108 110 87 0 +7 +2 -22 -14 -14 Yes	-129 27.9 0 101 101 25 88 ry Crk Mouth D 101 108 110 88 0 +7 +3 -22 -13	-129 25.7 0 101 0 25 89 0ry Crk Mouth 0 101 109 111 89 0 +8 +3 -22 -11	-111 25.7 6 104 98 6 25 90 hry Crk Mouth Dr 104 111 113 90 6 +7 +2 -22 -13	-102 24.6 14 104 90 14 25 92 7 Crk Mouth D 104 112 115 92 14 +8 +3 -23	-129 24.5 0 103 103 0 25 93 ry Crk Mouth Dr 103 111 115 93 0 +8 +4 +4 -22	-1 24 y Crk Mouth 1 1
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VSD to Russian River Conflu Total Pass-through Water let Reach Loss(-)/Gain(+) WSD - Yoakim Yoakim - Lambert Lambert - Dry Crk Mouth WSD - Dry Crk Mouth General Water Release Req /I. Russian River - Dr Project Water Release Req /I. Russian River - Dr Project Water Release Req /I. Russian River Flow (H L Mendocino Project Water Natural Flow Wry Creek Flow (Mouth Gag L Sonoma Project Water Natural Flow USSian River d/s of Conflue L Sonoma Project Water Natural Flow /II. Lower Russian Riv Autral Flow Res /II. Lower Russian Riv /II. Russian	to Meet Min Flow htrolling Gage uired y Creek Confluc ealdsburg Gage) r + Import Water	sis Requirement	0 +7 +2 -22 -14 -14 Yes	0 +7 +3 -22 -13 -13	0 +8 +3 -22 -11	6 +7 +2 -22 -13	14 +8 +3 -23	0 +8 +4 -22	
Total Pass-through Water let Reach Loss[-]/Gain(+) WSD - Voakim Yoakim - Lambert Lambert - Dry Crk Mouth WSD - Dry Crk Mouth Water Release Req /I. Russian River - Dr Ipper Russian River - Dr Ipper Russian River Flow (f L. Mendocino Project Water Natural Flow ry Creek Flow (Mouth Gag L. Sonoma Project Water Natural Flow USA of Conflue L. Mendocino Project Water Natural Flow USA of Conflue L. Sonoma Project Water Natural Flow Water Russian River Autral Flow (II. Lower Russian River finimum Instream Flow Reg ontrolling Compliance Gage II Compliance Gage	to Meet Min Flow htrolling Gage uired y Creek Confluc ealdsburg Gage) er + Import Water	Requirement	+7 +2 -22 -14 -14 Yes	+7 +3 -22 -13 -13	+8 +3 -22 -11	+7 +2 -22 -13	+8 +3 -23	+8 +4 -22	
et Reach Loss[-]/Gain(+) WSD - Yoakim Yoakim - Lambert Lambert - Dry Crk Mouth WSD - Dry Crk Mouth WSD - Dry Crk Mouth VSD Project Water Release Net Reach Loss/Gain to Co Project Water Release Req /I. Russian River - Dr Ipper Russian River Flow (H L. Mendocino Project Water Natural Flow Usian River d/s of Conflue L. Sonoma Project Water Natural Flow Usian River d/s of Conflue L. Sonoma Project Water Natural Flow Windsor Project Water Natural Flow Controlling Compliance Gage II Compliance Gages Windsor (USS 11 Hacienda (USS 11)	ntrolling Gage uired y Creek Conflue (ealdsburg Gage) er + Import Water		+7 +2 -22 -14 -14 Yes	+7 +3 -22 -13 -13	+8 +3 -22 -11	+7 +2 -22 -13	+8 +3 -23	+8 +4 -22	
WSD - Yoakim Yoakim - Lambert Lambert - Dry Crk Mouth WSD - Dry Crk Mouth WSD - Dry Crk Mouth VSD Project Water Release Net Reach Loss/Gain to Co Project Water Release Req /I. Russian River - Dr Ipper Russian River - Dr Ipper Russian River - Dr Ipper Russian River Flow (H L. Mendocino Project Water Natural Flow ury Creek Flow (Mouth Gag L. Sonoma Project Water Natural Flow Usian River d/s of Conflue L. Mendocino Project Water Natural Flow VII. Lower Russian Riv tinimum Instream Flow Re ontrolling Compliance Gage Min Gage Flow Controlling Gage II Compliance Gages Windsor (USS 11 Hacienda (USS 11	ntrolling Gage uired y Creek Conflue (ealdsburg Gage) er + Import Water		+2 -22 -14 -14 Yes	+3 -22 -13 -13	+3 -22 -11 -11	+2 -22 -13	+3 -23	+4 -22	
Yoakim - Lambert Lambert - Dry Crk Mouth WSD - Dry Crk Mouth <i>ISD Project Water Release</i> Net Reach Loss/Gain to Co Project Water Release Req <b>1.</b> Russian River - Dr pper Russian River Flow (H L Mendocino Project Water Natural Flow ry Creek Flow (Mouth Gag L Sonoma Project Water Natural Flow ussian River d/s of Conflue L Mendocino Project Water Natural Flow <b>21.</b> Sonoma Project Water Natural Flow <b>21.</b> Sonoma Project Water Natural Flow <b>21.</b> Lower Russian Riv <b>21.</b> Lower Russian Riv <b>21.</b> Lower Russian Riv <b>21.</b> Lower Russian Riv <b>21.</b> Controlling Gage <b>21.</b> Compliance Gages Windsor <b>21.</b> Sonoma (USGS 11. Hacienda <b>21.</b> Sonoma (USGS 11.)	ntrolling Gage uired y Creek Conflue (ealdsburg Gage) er + Import Water		+2 -22 -14 -14 Yes	+3 -22 -13 -13	+3 -22 -11 -11	+2 -22 -13	+3 -23	+4 -22	
Lambert - Dry Crk Mouth WSD - Dry Crk Mouth /SD Project Water Release Net Reach Loss/Gain to Co Project Water Release Req /I. Russian River - Dr pper Russian River - Dr pper Russian River Flow (H L Mendocino Project Water Natural Flow ry Creek Flow (Mouth Gag L Sonoma Project Water Natural Flow ussian River d/s of Conflue L Mendocino Project Water Natural Flow /II. Lower Russian Riv tinimum Instream Flow Re ontrolling Compliance Gage Min Gage Flow Controlling Gage II compliance Gages Windsor (USGS 11 Hacienda (USGS 11)	ntrolling Gage uired y Creek Conflue (ealdsburg Gage) er + Import Water		-22 -14 -14 Yes	-22 -13 -13	-22 -11 -11	-22 -13	-23	-22	
WSD - Dry Crk Mouth <u>ISD Project Water Release</u> Net Reach Loss/Gain to Co Project Water Release Req <b>1.</b> Russian River - Dr pper Russian River Flow (f L. Mendocino Project Water Natural Flow ry Creek Flow (Mouth Gag L. Sonoma Project Water Natural Flow <u>ussian River d/s of Conflue</u> L. Mendocino Project Water Natural Flow <b>2.</b> Sonoma Project Water <b>3.</b> Sonoma Projec	ntrolling Gage uired y Creek Conflue (ealdsburg Gage) er + Import Water		-14 -14 Yes	-13 -13	-11 -11	-13			
ISD Project Water Release Net Reach Loss/Gain to Co Project Water Release Req 71. Russian River - Dr pper Russian River Flow (F L Mendocino Project Water Natural Flow USA Star River d/s of Conflue L Mendocino Project Water Natural Flow USA Star River d/s of Conflue L Mendocino Project Water Natural Flow VII. Lower Russian Riv Informer Star	ntrolling Gage uired y Creek Conflue (ealdsburg Gage) er + Import Water		-14 Yes	-13	-11		-12	-10	
Net Reach Loss/Gain to Co Project Water Release Req /I. Russian River - Dr pper Russian River - Dr pper Russian River Flow (H L. Mendocino Project Water Natural Flow ussian River d/s of Conflue L. Mendocino Project Water L. Mendocino Project Water L. Mendocino Project Water L. Sonoma Project Water Natural Flow //II. Lower Russian Riv tinimum Instream Flow Re ontrolling Compliance Gage Min Gage Flow Controlling Gage II Compliance Gages Windsor (USS 11 Hacienda (USS 11)	ntrolling Gage uired y Creek Confluc <u>iealdsburg Gage)</u> er + Import Water		Yes			846			
Project Water Release Req /I. Russian River - Dr /pper Russian River Flow (fp L. Mendocino Project Water Natural Flow /ry Creek Flow (Mouth Gag L. Sonoma Project Water Natural Flow ussian River d/s of Conflue L. Mendocino Project Water Natural Flow /II. Lower Russian Riv dinimum Instream Flow Re- tontrolling Compliance Gages Windsor (USS 11 Hacienda (USS 11)	uired y Creek Confluc lealdsburg Gage) er + Import Water	ence	Yes			844			
/I. Russian River - Dr Ipper Russian River Flow (H L. Mendocino Project Water Natural Flow Dry Creek Flow (Mouth Gag L. Sonoma Project Water Natural Flow L. Mendocino Project Water L. Mendocino Project Water Natural Flow /II. Lower Russian Rir dinimum Instream Flow Re- controlling Compliance Gage Min Gage Flow Controlling Gage II Compliance Gages Windsor (USS 11 Hacienda (USS 11)	y Creek Conflue ealdsburg Gage) er + Import Water	ence		Yes		-7	+2	-10	
Ipper Russian River Flow (H L. Mendocino Project Wate Natural Flow Ing Creek Flow (Mouth Gag L. Sonoma Project Water Natural Flow Ussian River d/s of Conflue L. Mendocino Project Water L. Mendocino Project Water Natural Flow /II. Lower Russian Riv Atural Flow /II. Lower Russian Riv Atural Flow /II. Lower Russian Riv Atural Flow Controlling Compliance Gages Il Compliance Gages Windsor (USS 11 Hacienda (USS 11)	ealdsburg Gage) er + Import Water	ence	28		Yes	Yes	Yes	Yes	3
pper Russian River Flow († L. Mendocino Project Wate Natural Flow ry Creek Flow (Mouth Gag L. Sonoma Project Water Natural Flow Ussian River d/s of Conflue L. Mendocino Project Water L. Mendocino Project Water L. Sonoma Project Water Natural Flow //II. Lower Russian Riv tinimum Instream Flow Re ontrolling Compliance Gages Min Gage Flow Controlling Gage II Compliance Gages Windsor (USS 11 Hacienda (USS 11)	ealdsburg Gage) er + Import Water	circe	28						
L Mendocino Project Wate Natural Flow Ing Creek Flow (Mouth Gag L Sonoma Project Water Natural Flow Ussian River d/s of Conflue L Mendocino Project Water L Sonoma Project Water Natural Flow /II. Lower Russian Rir Ainimum Instream Flow Re controlling Compliance Gage Min Gage Flow Controlling Gage (I Compliance Gages Windsor (USS 11 Hacienda (USS 11)	er + Import Water		28						
Natural Flow bry Creek Flow (Mouth Gag L Sonoma Project Water Natural Flow Lussian River d/s of Conflue L Mendocino Project Water Natural Flow /II. Lower Russian Riv Animum Instream Flow Re- controlling Compliance Gage Min Gage Flow Controlling Gage <u>UI Compliance Gages</u> Windsor <u>UISC 10</u> Windsor <u>UISC 11</u> Hacienda <u>UISC 11</u> (USS 11)			28						
In Creek Flow (Mouth Gag L. Sonoma Project Water Natural Flow L. Mendocino Project Water L. Mendocino Project Water L. Sonoma Project Water Natural Flow /II. Lower Russian Rir Animum Instream Flow Re controlling Compliance Gage Min Gage Flow Controlling Gage II Compliance Gages Windsor (USGS 11 Hacienda (USGS 11	<u>e)</u>			25	24	25	25	26	
L Sonoma Project Water Natural Flow L Mendocino Project Water L Mendocino Project Water L Sonoma Project Water Natural Flow /II. Lower Russian Rif dinimum Instream Flow Re ontrolling Compliance Gage Min Gage Flow Controlling Gage II Compliance Gages Windsor (USGS 11 Hacienda (USGS 11	<u>e)</u>		0	0	0	0	0	0	
Natural Flow <u>ussian River d/s of Conflue</u> L. Mendocino Project Water Natural Flow //II. Lower Russian Rin dinimum Instream Flow Re <u>ontrolling Compliance Gages</u> Min Gage Flow Controlling Gage <u>II Compliance Gages</u> Windsor (USG 11 Hacienda (USG 11)									
ussian River d/s of Conflue L. Mendocino Project Wate L. Sonoma Project Water Natural Flow /II. Lower Russian Rin tinimum Instream Flow Re controlling Compliance Gage Il Compliance Gages Windsor (USGS 11 Hacienda (USGS 11			87	88	89	90	91	93	
L Mendocino Project Wate L Sonoma Project Water Natural Flow /II. Lower Russian Rir Ainimum Instream Flow Re controlling Compliance Gages (I Compliance Gages Windsor (USS 11 Hacienda (USS 11)			0	0	0	0	2	0	
L Sonoma Project Water Natural Flow /II. Lower Russian Ri dinimum Instream Flow Re controlling Compliance Gage Min Gage Flow Controlling Gage (USCMPliance Gages Windsor (USGS 11 Hacienda (USGS 11	the second se		116	113	113	115	117	118	1
Natural Flow /II. Lower Russian Ri- dinimum Instream Flow Re- controlling Compliance Gage Min Gage Flow Controlling Gage <u>III Compliance Gages</u> Windsor Windsor Hacienda (USGS 11)	er + Import Water		28	25	24	25	25	26	
/II. Lower Russian Ri         dinimum Instream Flow Recontrolling Compliance Gage         Min Gage Flow         Controlling Gage         UI Compliance Gages         Windsor       (USSS ±1)         Hacienda       (USSS ±1)			87	88	89	90	91	93	
Animum Instream Flow Re controlling Compliance Gage Min Gage Flow Controlling Gage Ill Compliance Gages Windsor (USGS 11 Hacienda (USGS 11			0	0	0	0	2	0	
Minimum Instream Flow Re controlling Compliance Gage Min Gage Flow Controlling Gage <u>All Compliance Gages</u> Windsor (USGS 11 Hacienda (USGS 11	ver Reach								
Controlling Compliance Gage Min Gage Flow Controlling Gage <u>Ul Compliance Gages</u> Windsor (USGS 11 Hacienda (USGS 11			35	35	35	35	35	35	
Min Gage Flow Controlling Gage <u>All Compliance Gages</u> Windsor (USGS 11 Hacienda (USGS 11							1. A.		
Controlling Gage Il Compliance Gages Windsor (USGS 11 Hacienda (USGS 11	8		47	43	43	43	43	46	
All Compliance Gages Windsor (USGS 11 Hacienda (USGS 11		Hacienda							cienda
Windsor (USGS 11 Hacienda (USGS 11	-	lvr mi.							C.C.I.C.
Hacienda (USGS 1)		26.6	119	117	117	117	118	119	1
CARLES AND	22	21.8	47	43	43	43	43	46	
				~				45	
Net Reach Loss/Gain to Wi	The state of the state of the		+3	+4	+3	+2	+1	+1	
L. Mendocino Project Wate			18	15	14	15	16	15	
L. Sonoma Project Water	a + mipore water		87	88	89	90	91	93	
Natural Flow			14	14	13	12	12	11	
onfluence to SCWA Wohle	Broduction Cacilit	Beach Analy		14		<b>**</b>	**	100 8.0	
oprox. Flow u/s of Wohler	Production Pacing	Y REGEN ANDLY	126	112	110	121	109	111	-
Net Reach Loss(-)/Gain(+)			+10	-2	-3	+6	-8	-7	
L. Mendocino Project Wate	a . Import Water		28	23	21	25	19	19	
L. Sonoma Project Water	er + import water		87	88	89	90	91	93	
Natural Flow			10	0	0	90	0	93	
	areauille) Deach Au	a a burrie	10	U	U	0	U	U	
onfluence to Hacienda (Gu	erneville) Reach Al	naiysis				-			
Net Reach Loss(-)/Gain(+)			-69	-71	-70	-72	-74	-72	
L. Mendocino Project Wate	er + import water		0	0	0	0	0	0	
L. Sonoma Project Water			37	43	43	37	43	46	
Natural Flow			10	0	0	6	0	0	
/III. Water Productio	n under Sonon	na Water W	ater Ri	ghts (ac-ft)					
ower Russian River				81 - 192 - 193					
Sonoma Water Total			156.5	136.4	132.7	154.4	131.3	130.4	13
Wohler	3		69.0	54.9	75.1	66.9	45.2	45.0	4
Mirabe			87.4	81.5	57.6	87.5	86.1	85.4	8
Town of Windsor River We			10.8	10.2	9.8	10.3	9.6	10.1	
Camp Meeker & Occidenta			0.1	0.1	0.1	0.1	0.1	0.1	
	10		0.1	0.1	0.1	0.1	0.1	0.1	
oper Russian River									
City of Healdsburg			5.5.56	171008	12.2	102020	00	2.2	
			0.0	0.0	0.0	0.0	0.0	0.0	
erv Creek	ett <mark>&amp; Fitch Mtn</mark>								
City of Healdsburg Dry Cre	et <mark>t &amp;</mark> Fitch Mtn		2.3	1.7	2.3	2.5	2.7	2.7	

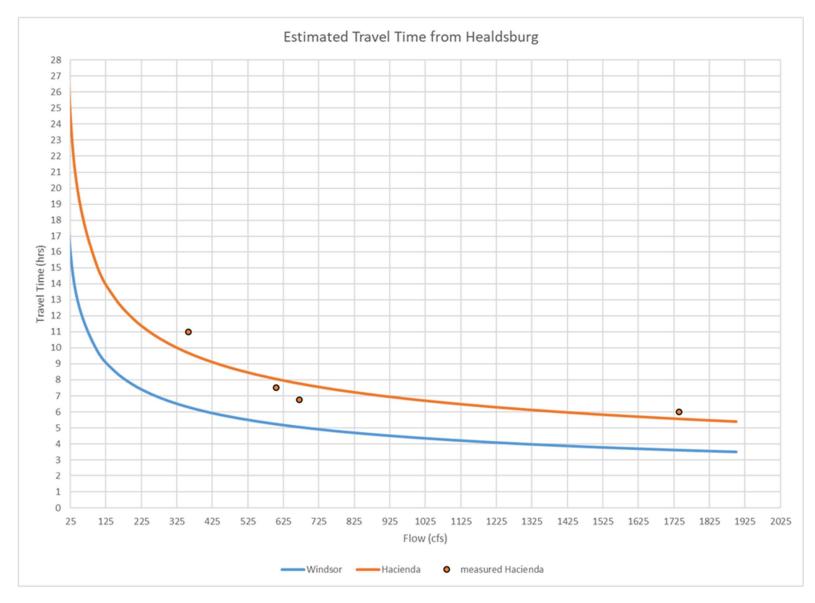
- Water Accounting for the Lower Russian River and Dry Creek is an analysis that approximates the current conditions based on the methodology in Term 12 (6/14/21 Order) report. Values listed include estimated valu where measurements are not currently available (red italics).



Attachment 2 – Travel time estimates as a function of stream discharge for the Upper Russian River



Attachment 3 – Travel time estimates as a function of stream discharge for Dry Creek



Attachment 4 – Travel time estimates as a function of stream discharge for the Lower Russian River