



State Water Resources Control Board
 Temporary Urgency Change Orders (10/31/2024)
 Russian River Hydrologic & Water Quality Report
 November 22, 2024 - November 28, 2024

Prepared as a requirement of the Orders approving Sonoma Water's Petition for Temporary Urgency Change in Permits 12947A, 12949, 12950, and 16596 (Applications 12919A, 15736, 15737, and 19351).

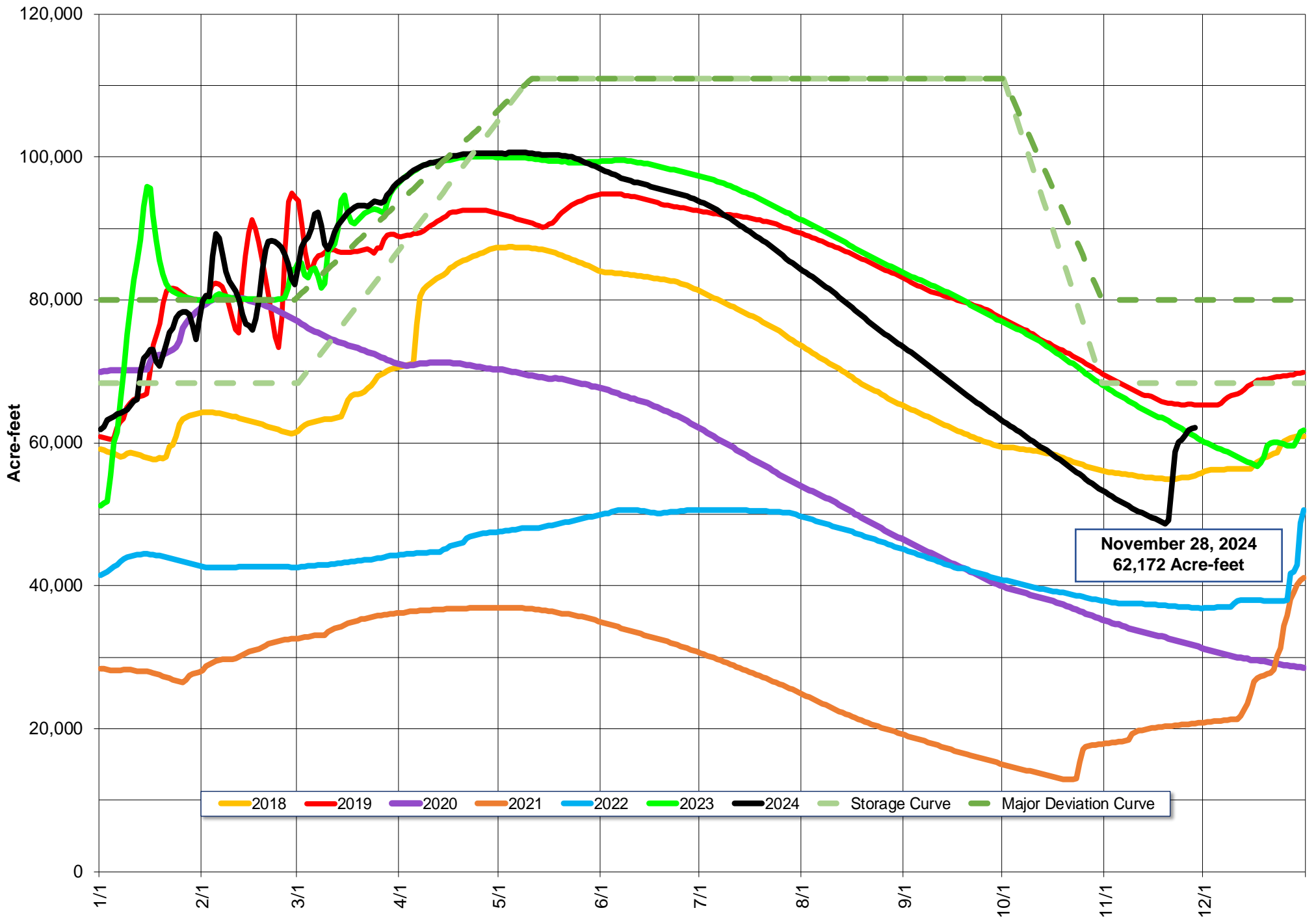
Instream Flow Requirements as of November 28, 2024

Basis	Reach	Instantaneous (cfs)	5-day Average (cfs)
Modified Per Order: Normal Condition	Upper Russian River	150	-
Modified Per Order: Normal Condition	Dry Creek	105	-
Modified Per Order: Normal Condition	Lower Russian River	125	-

Upper and Lower Russian River are based on criteria as established in the Order issued 10/31/2024.

Lake Mendocino

Lake Mendocino Storage 2018 - 2024 and Storage Curve



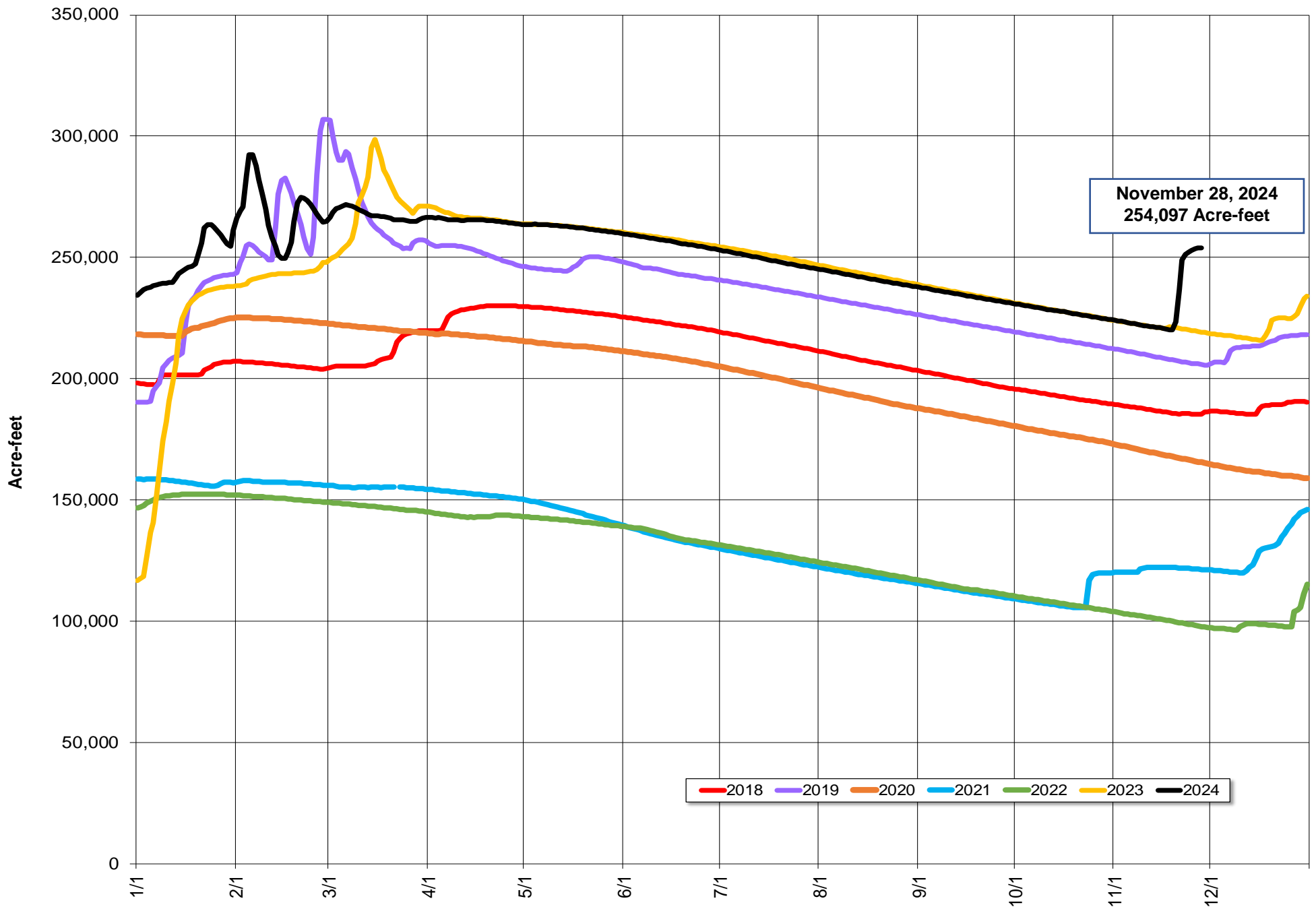
Storage (acre-feet)	November 28, 2024	62,172	
Change in Storage (acre-feet)	Last 30 days	Total	Average Daily Rate
	Last 7 days	8,198	273
Daily Inflow (cfs)	Last 7 days	3,412	487
		Min	136
		Max	2,491
Release (cfs)	Last 7 days	Mean	633
		Min	33
		Max	38
		Mean	35

Lake Sonoma



Todd Schram, February 10, 2024

Lake Sonoma Storage 2018-2024



Storage (acre-feet)	November 28, 2024	254,097	
Change in Storage (acre-feet)	Last 30 days	29,408	980
	Last 7 days	5,183	740
Daily Inflow (cfs)	Last 7 days	Min	205
		Max	6,309
		Mean	1,369
Release (cfs)	Last 7 days	Min	106
		Max	108
		Mean	107

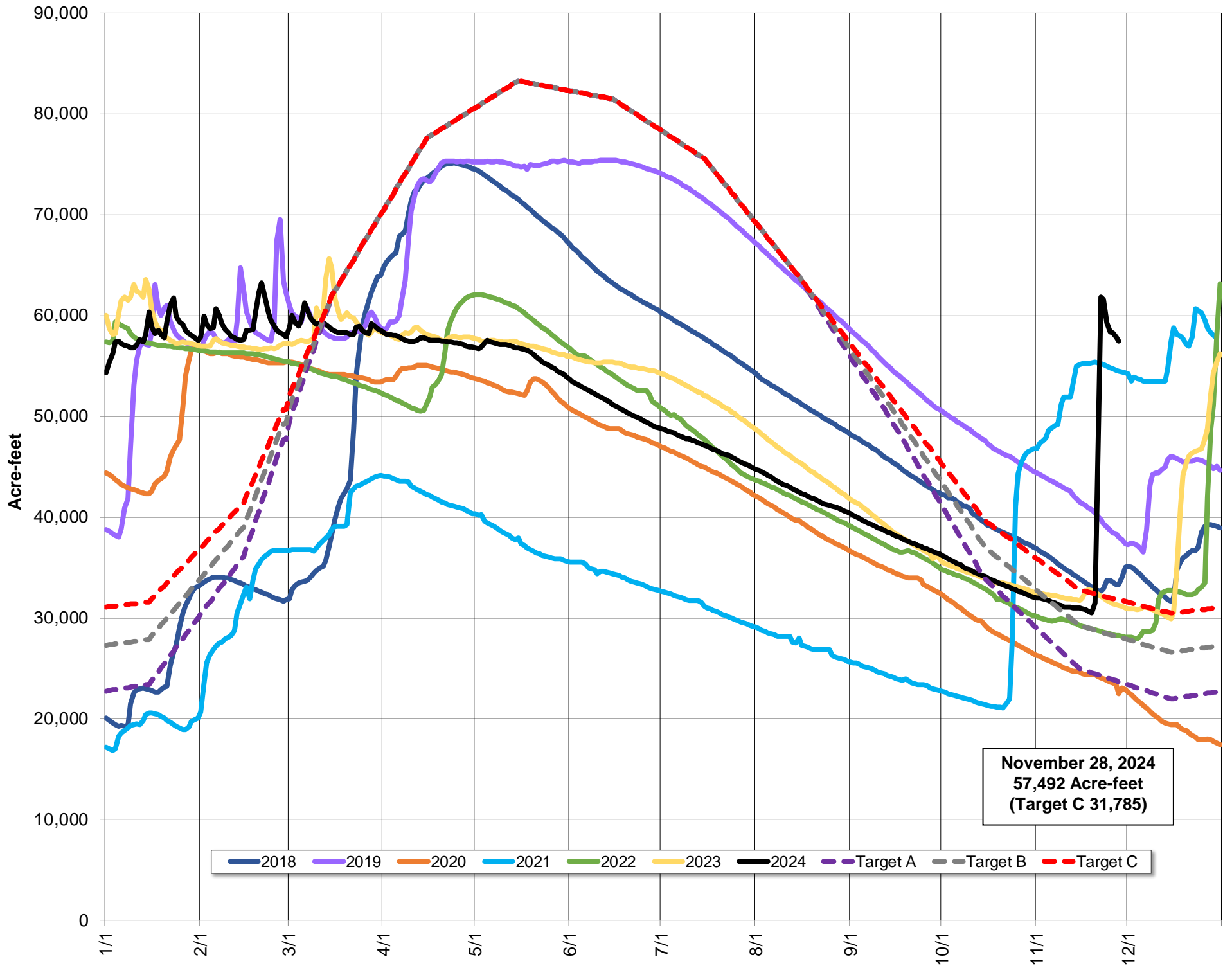
Potter Valley Project

PVP Diversion (cfs)	November 28, 2024	45
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Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2024 - November 28, 2024	69,994	1,186
	Last 7 days	20,460	2,923

*Inflow calculation based on criteria established in D1610

Lake Pillsbury Storage 2018 - 2024 and Target Storage Scenarios



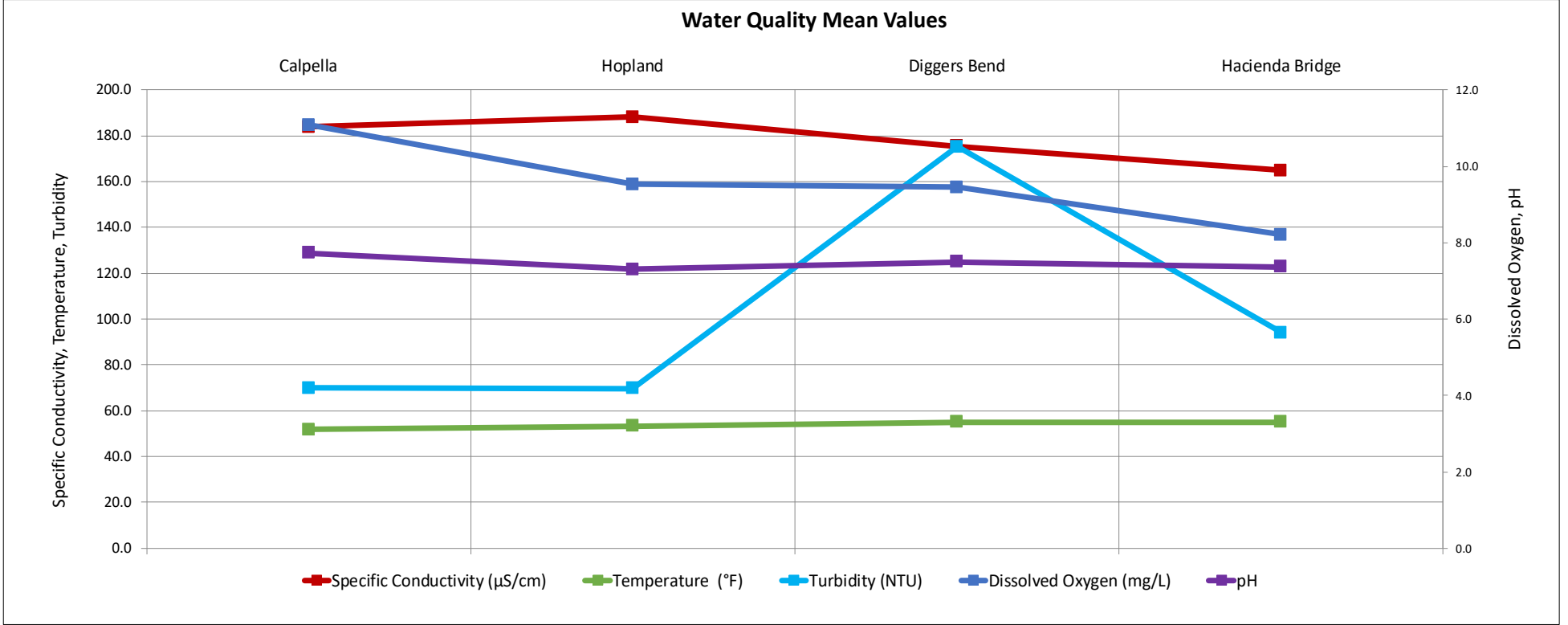
November 28, 2024
57,492 Acre-feet
(Target C 31,785)

Russian River Flows (November 22, 2024 - November 28, 2024)

Parameter		Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		USGS 11461500	USGS 11462500	USGS 11463000	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	47.5	50.0		52.2	52.3		53.1	
	Max	55.0	55.6		56.3	56.5		56.3	
	Mean	51.8	53.3		54.7	55.0		55.1	
Specific Conductivity (µS/cm)	Min	153.0	160.0			84.0		103.0	
	Max	208.0	219.0			259.0		231.0	
	Mean	183.9	188.3			175.5		164.8	
Dissolved Oxygen (mg/L)	Min	10.7	9.1			8.2		7.4	
	Max	11.5	9.7			9.9		9.5	
	Mean	11.1	9.5			9.5		8.2	
Dissolved Oxygen (% Saturation)	Min	97.7	84.8			78.5		69.9	
	Max	100.4	90.2			93.9		89.9	
	Mean	98.8	87.0			89.2		77.6	
pH	Min	7.6	7.3			7.4		7.2	
	Max	7.8	7.4			7.6		7.5	
	Mean	7.7	7.3			7.5		7.4	
Turbidity (NTU)	Min	4.7	13.8			18.2		18.6	
	Max	3400.0	1260.0			1280.0		302.0	
	Mean	70.0	69.8			175.2		94.2	

*Station operated seasonally

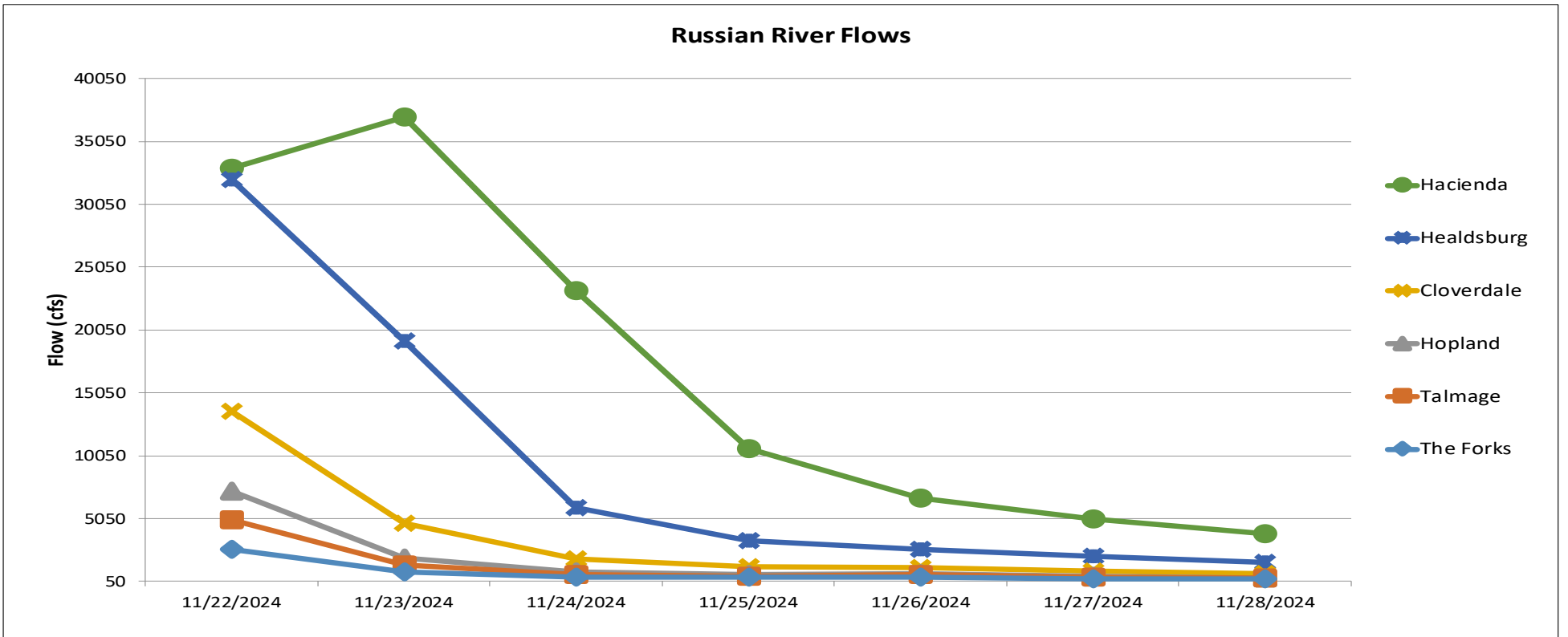
Water Quality Mean Values



Gage	24-hr Average Flow (cfs)						
	Nov 22, 2024	Nov 23, 2024	Nov 24, 2024	Nov 25, 2024	Nov 26, 2024	Nov 27, 2024	Nov 28, 2024
The Forks*	2563	777	392	354	416	277	219
Talmage USGS 11462080	4970	1352	585	476	598	360	282
Hopland USGS 11462500	7197	1937	805	570	669	450	342
Cloverdale USGS 11463000	13560	4661	1851	1180	1144	864	662
Healdsburg USGS 11464000	32041	19202	5897	3272	2568	2029	1528
Hacienda USGS 11467000	32896	36976	23172	10579	6667	4988	3846

*West Fork(USGS 11461000) + East Fork (Coyote Valley Dam Release)

Russian River Flows

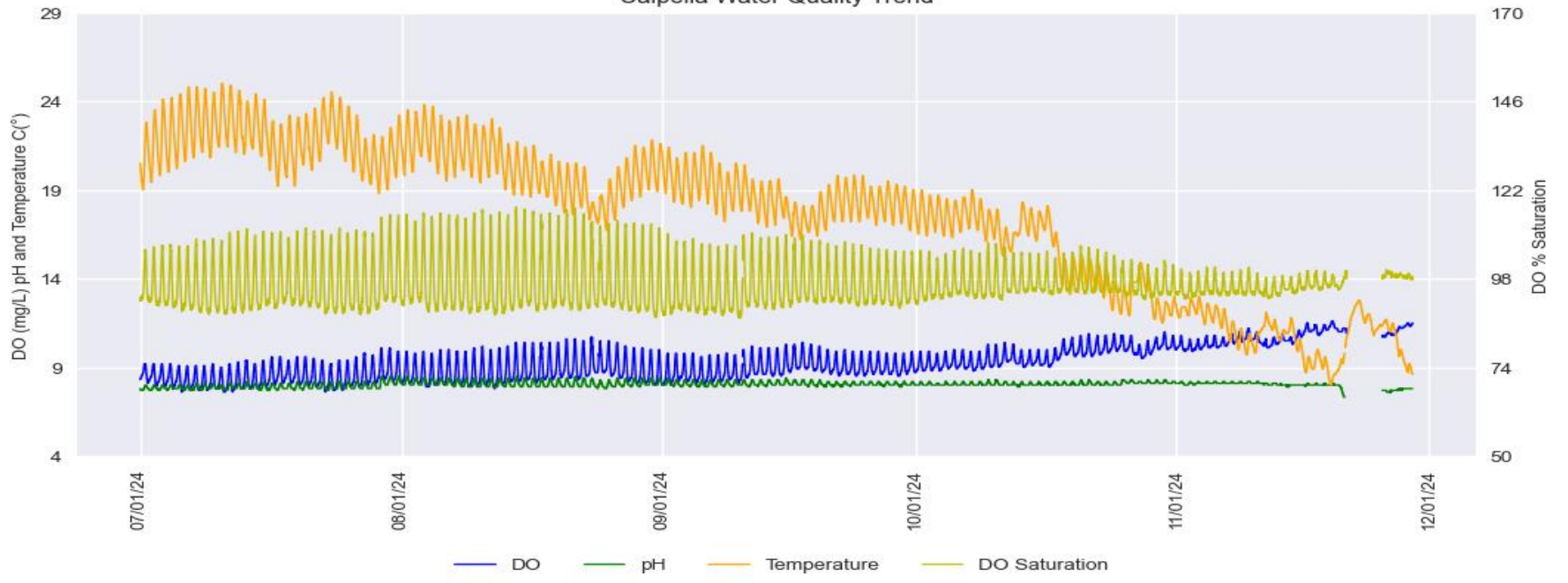


Russian River Water Quality July 1, 2024 – November 21, 2024

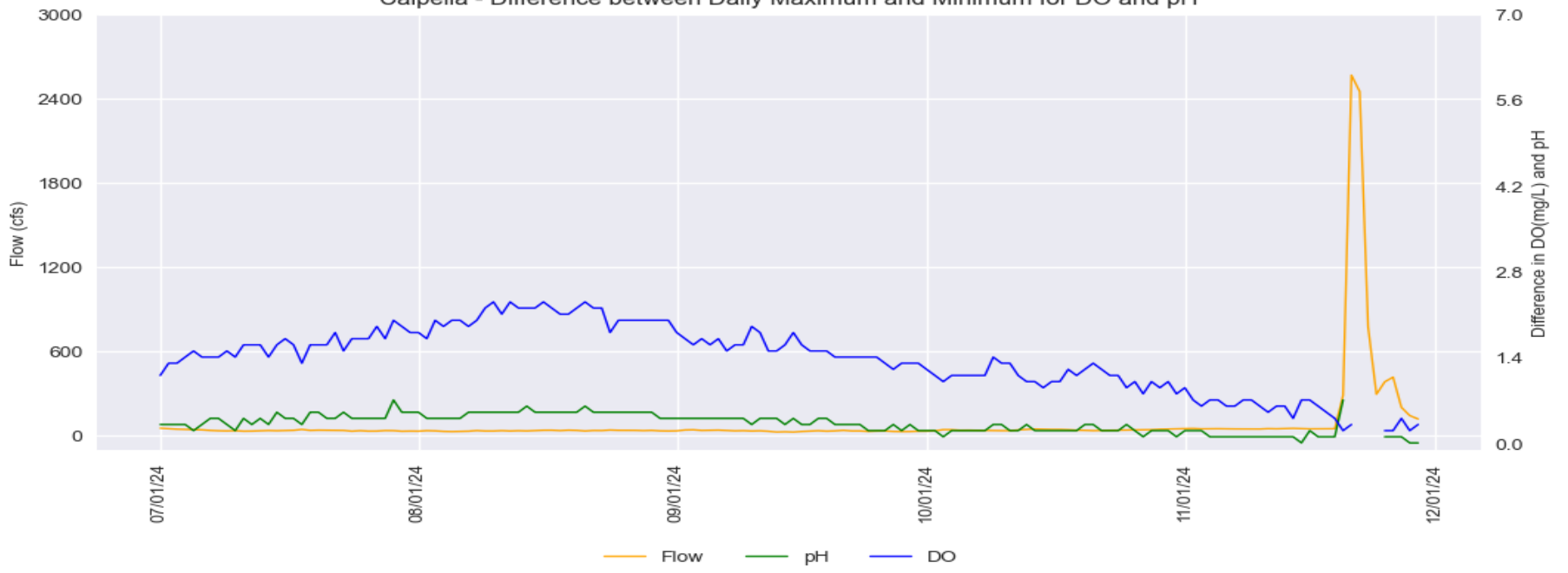
Provisional Data Subject to Revision

Calpella

Calpella Water Quality Trend

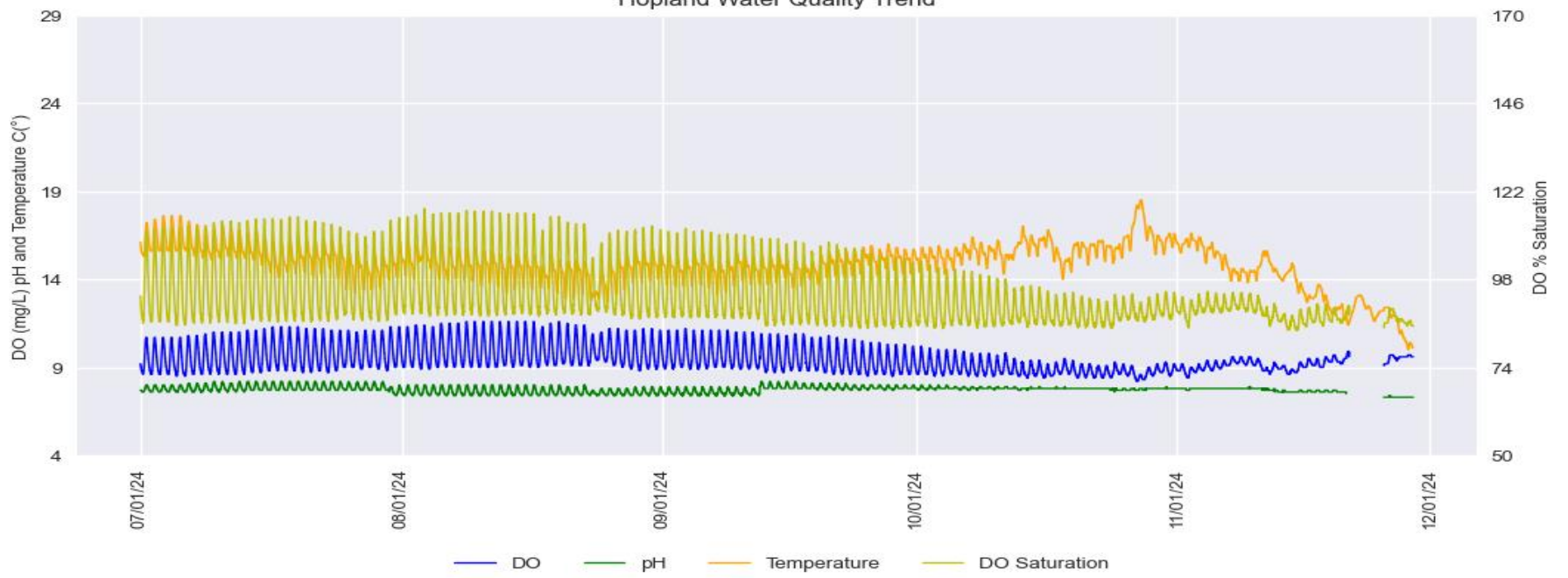


Calpella - Difference between Daily Maximum and Minimum for DO and pH

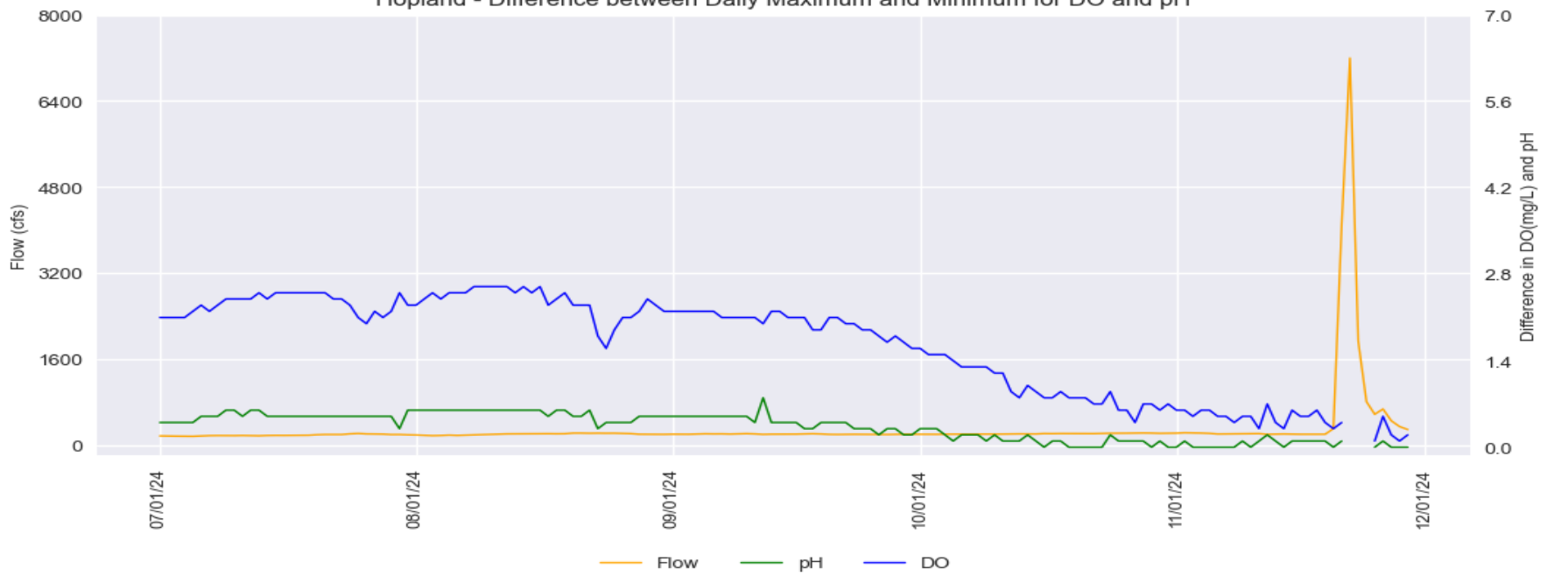


Hopland

Hopland Water Quality Trend



Hopland - Difference between Daily Maximum and Minimum for DO and pH

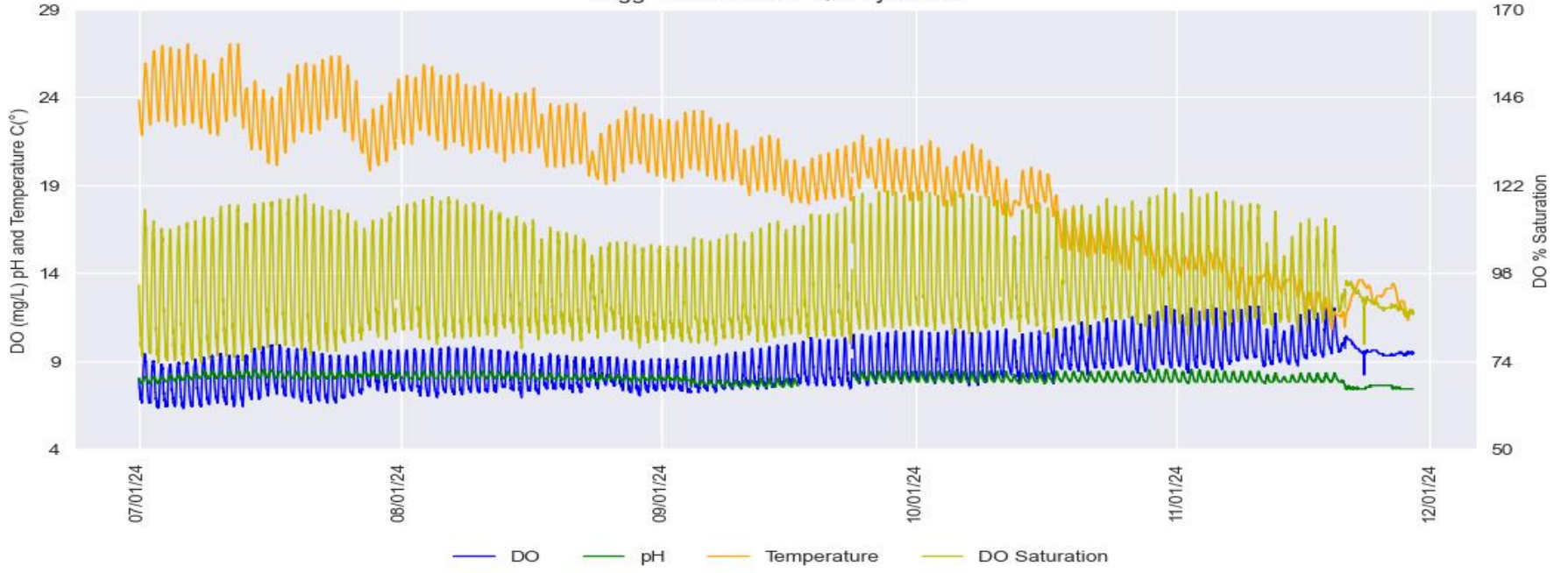


Russian River Water Quality July 1, 2024 – November 21, 2024

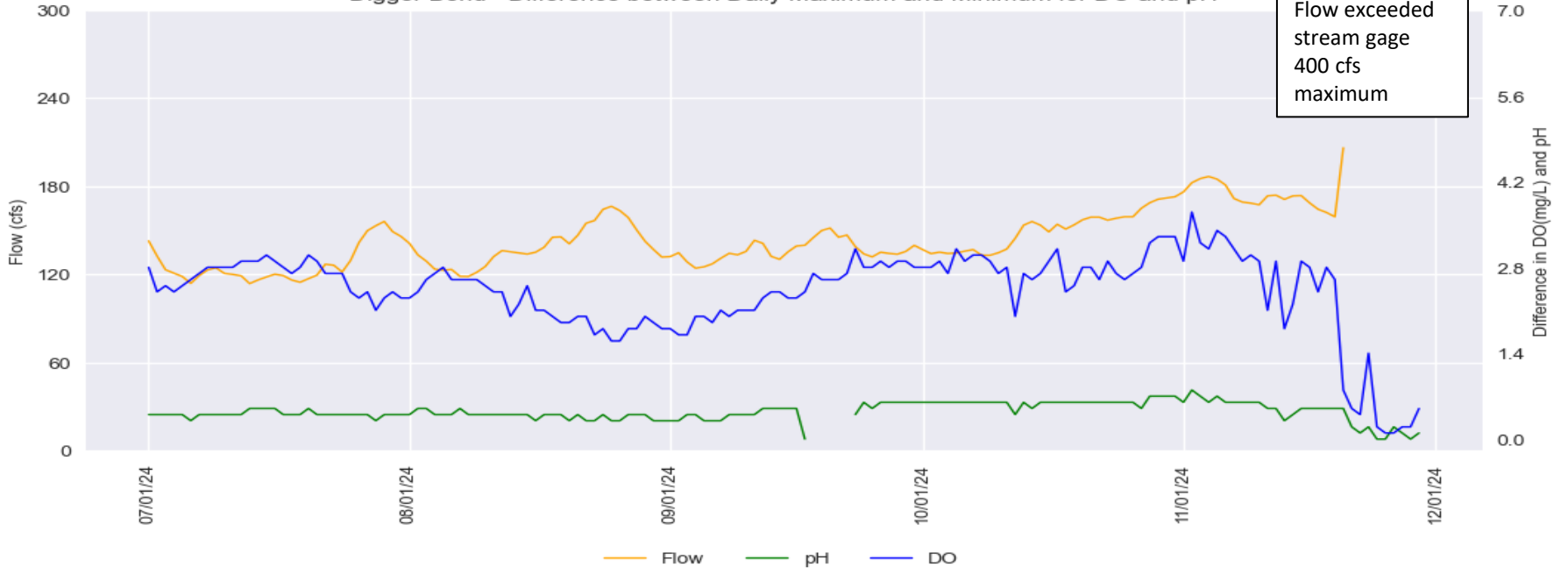
Provisional Data Subject to Revision

Digger Bend

Digger Bend Water Quality Trend

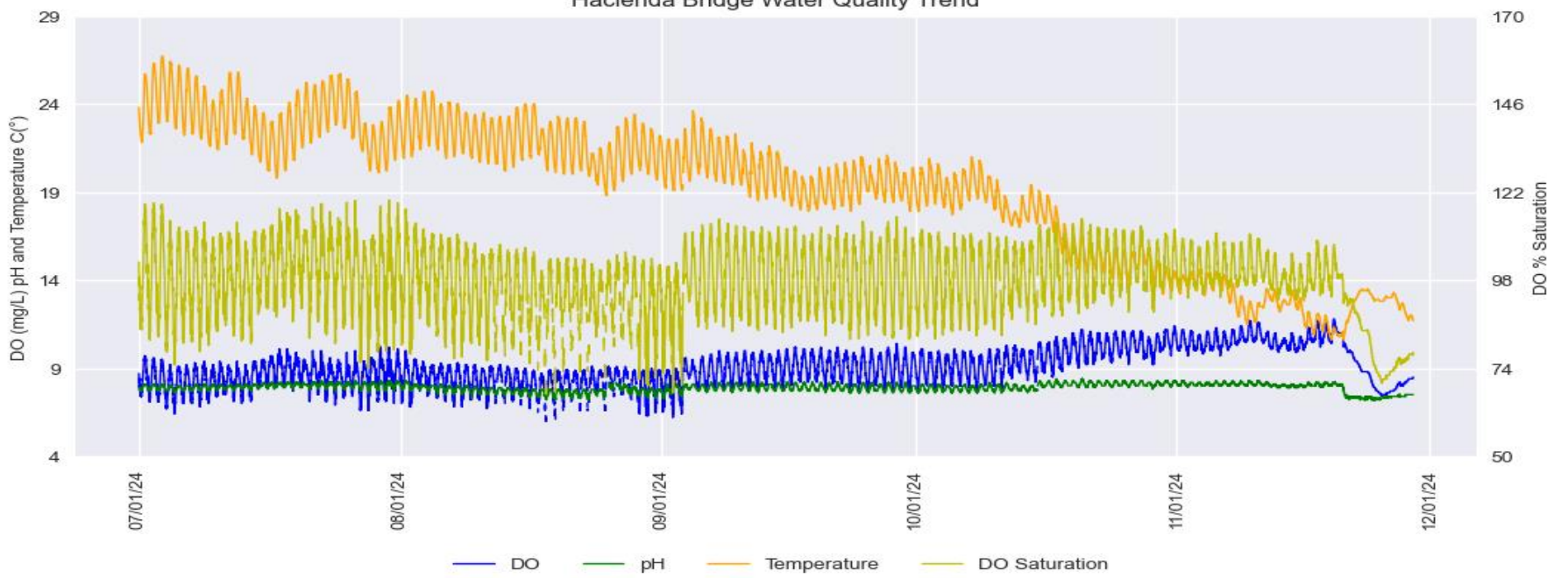


Digger Bend - Difference between Daily Maximum and Minimum for DO and pH

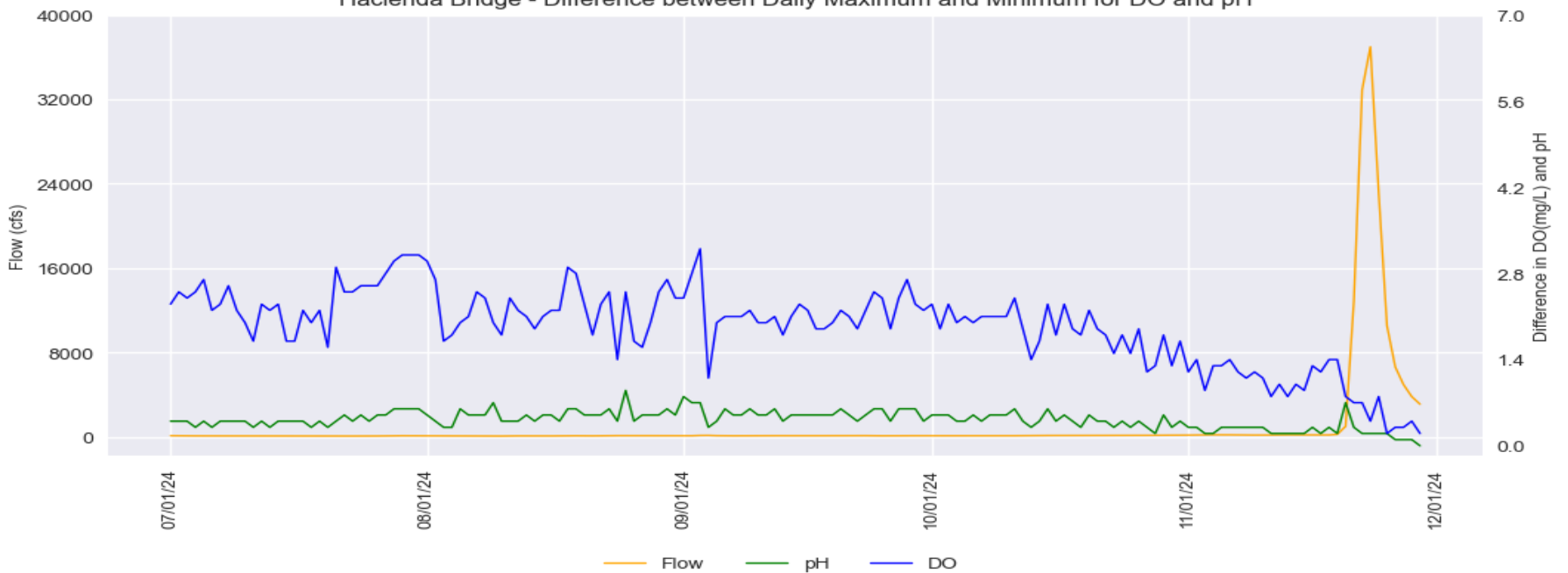


Hacienda Bridge

Hacienda Bridge Water Quality Trend



Hacienda Bridge - Difference between Daily Maximum and Minimum for DO and pH

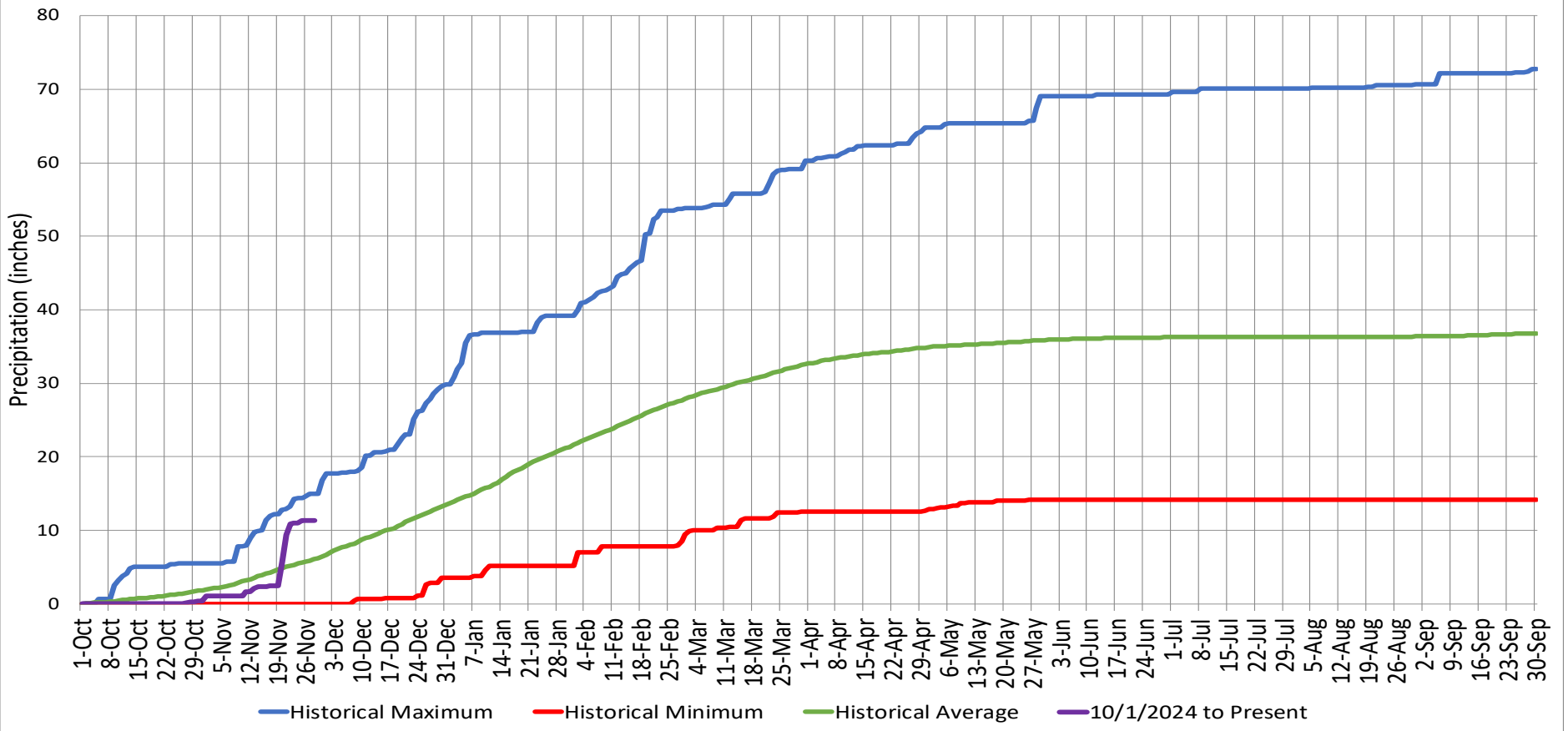


Precipitation

Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))

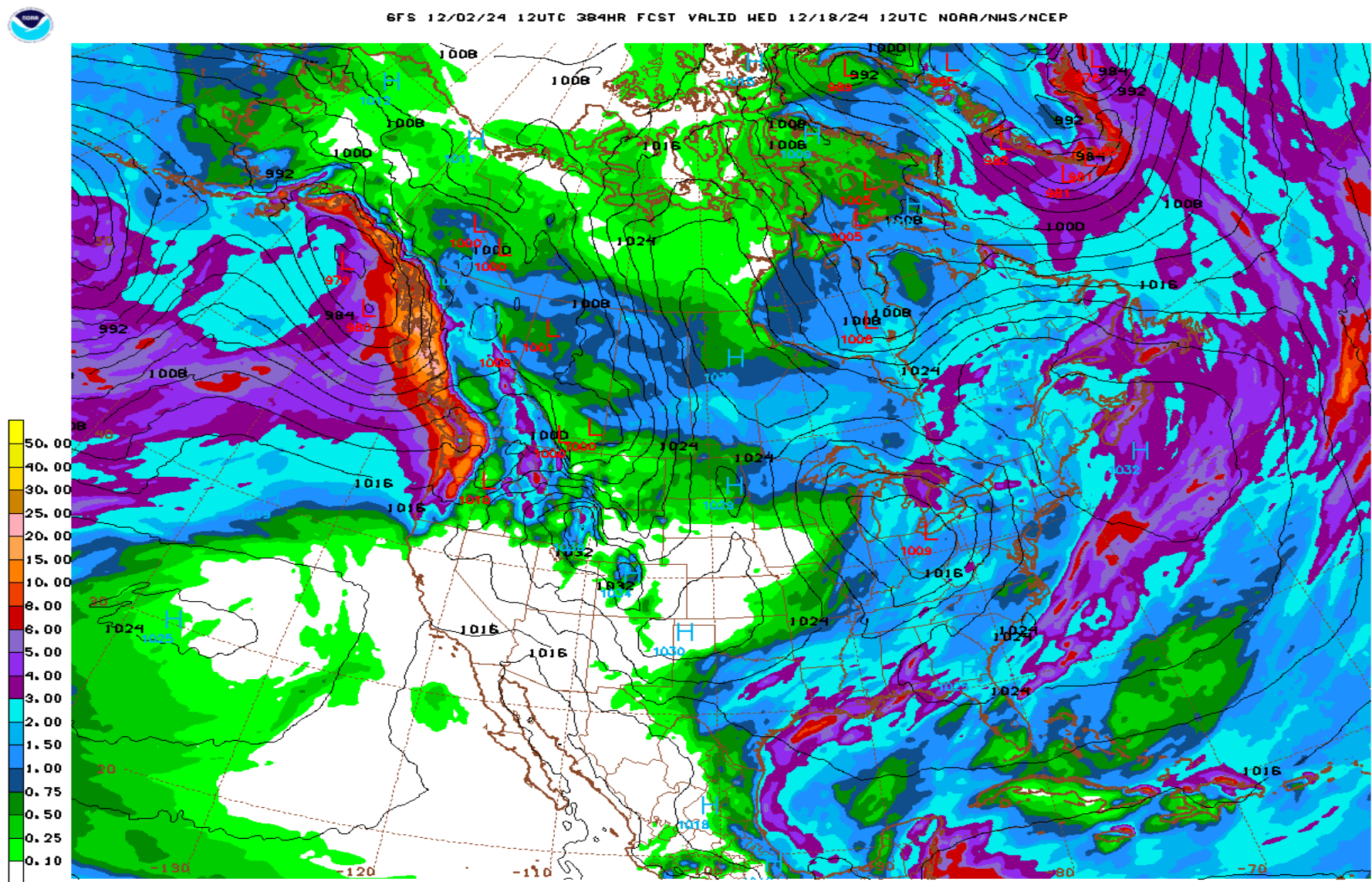
Date Range	Cumulative (inches)
Oct 1, 2024 - Nov 28, 2024	11.39
Last 7 Days*	2.00

Cumulative Precipitation Comparison of Current Year versus Historic Record



Global Forecast System Model 16-day Cumulative Precipitation Forecast

6FS 12/02/24 12UTC 384HR FCST VALID MED 12/18/24 12UTC NOAA/NWS/NCEP



6FS MED 241218/1200V384 EMSL (4MB), 384HR ACCUMULATED PRECIP (IN)

Date Range
Dec 2 - Dec 18, 2024

Forecasted Cumulative (inches)
0.00