

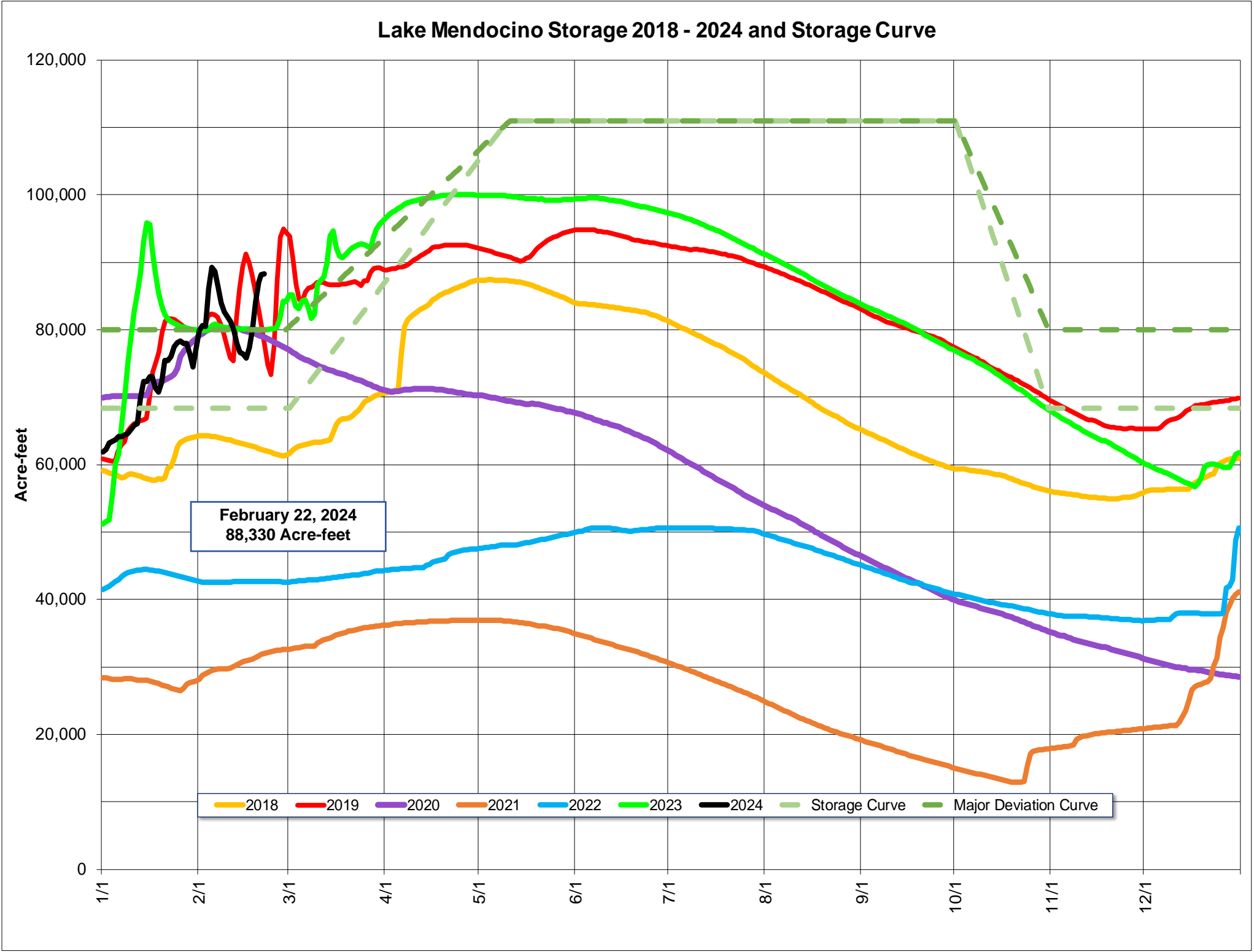


State Water Resources Control Board
Temporary Urgency Change Order (12/27/2023)
Russian River Hydrologic & Water Quality Report
February 16, 2024 - February 22, 2024

Prepared as a requirement of the Order 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 February 22, 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	75	-
Modified Per Order: Normal Condition	Lower Russian River	125	-

Lake Mendocino



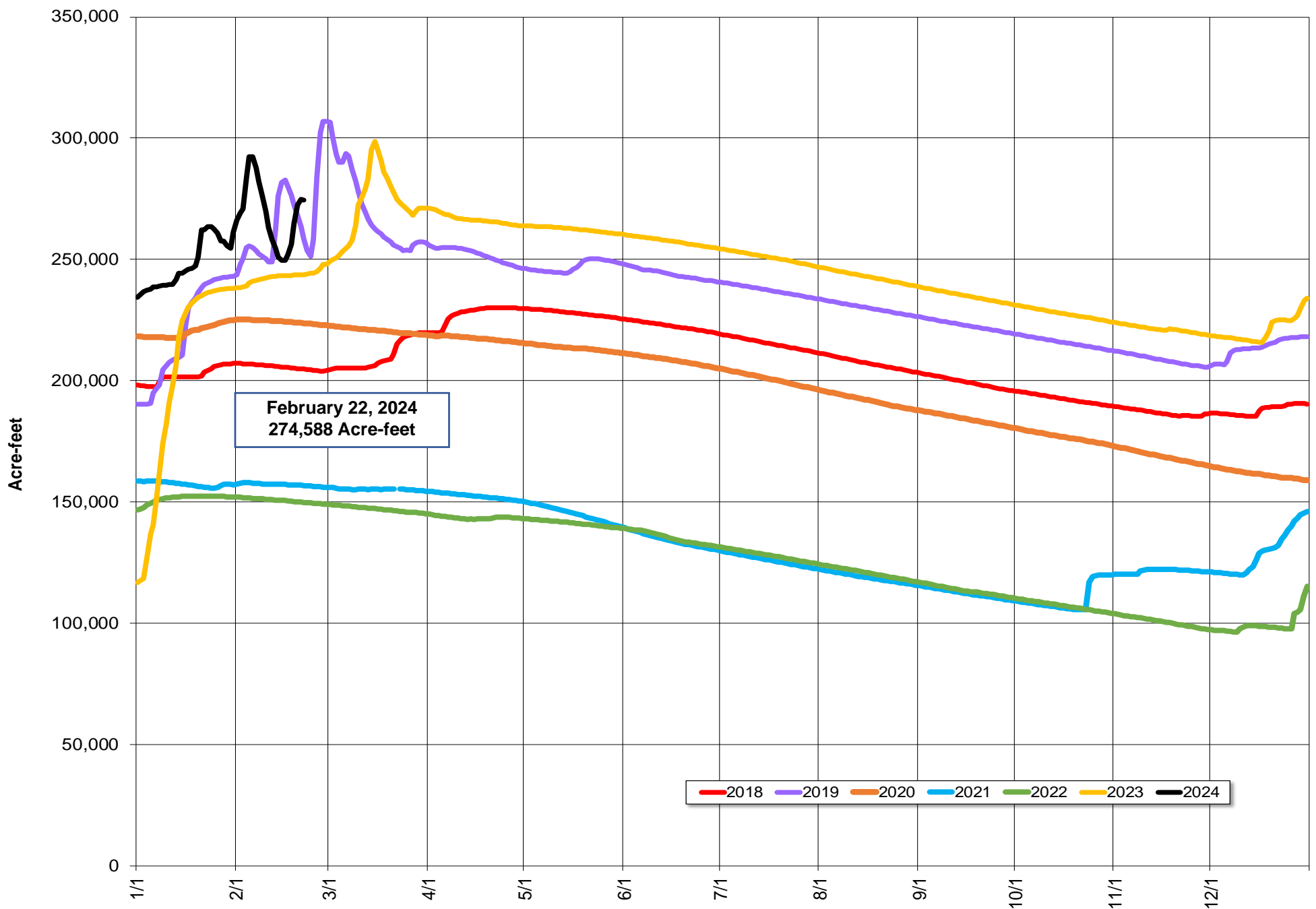
Storage (acre-feet)	February 22, 2024	88,330	
Change in Storage (acre-feet)	Last 30 days	Total	Average Daily Rate
	Last 7 days	12,275	409
Daily Inflow (cfs)	Last 7 days	Last 7 days	12,514
		Min	443
		Max	2,197
Release (cfs)	Last 7 days	Mean	1,035
		Min	146
		Max	751
		Mean	482

Lake Sonoma



Todd Schram, February 10, 2024

Lake Sonoma Storage 2018-2024



Storage (acre-feet)	February 22, 2024	274,588	
Change in Storage (acre-feet)	Last 30 days	Total	Average Daily Rate
		11,046	368
	Last 7 days	25,087	3,584
Daily Inflow (cfs)	Last 7 days	Min	392
		Max	4,559
		Mean	2,618
Release (cfs)	Last 7 days	Min	156
		Max	1,506
		Mean	793

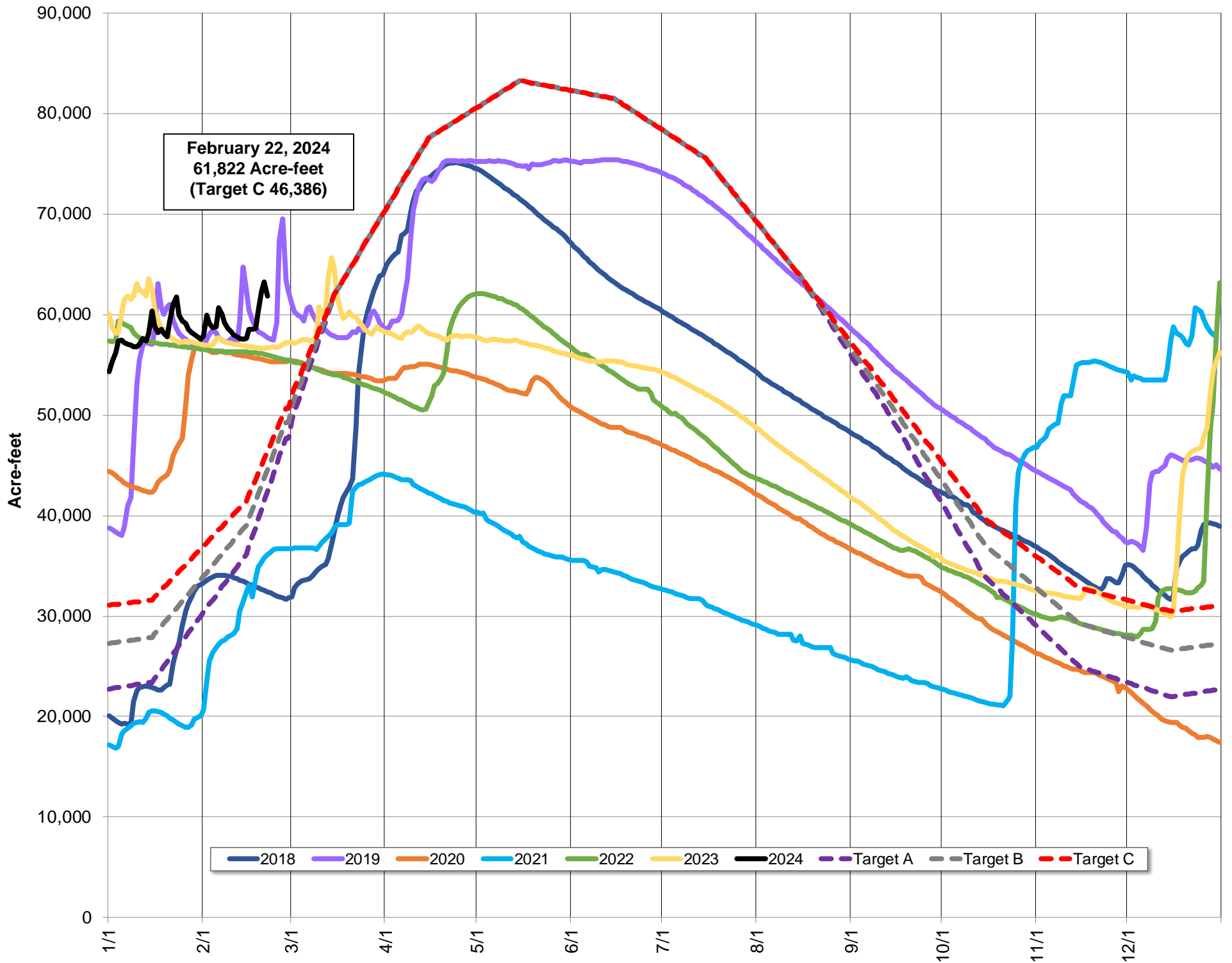
Potter Valley Project

PVP Diversion (cfs)	February 22, 2024	46
---------------------	-------------------	----

Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2023 - February 22, 2024	256,385	1,768
	Last 7 days	55,992	7,999

*Inflow calculation based on criteria established in D1610

Lake Pillsbury Storage 2018 - 2024 and Target Storage Scenarios

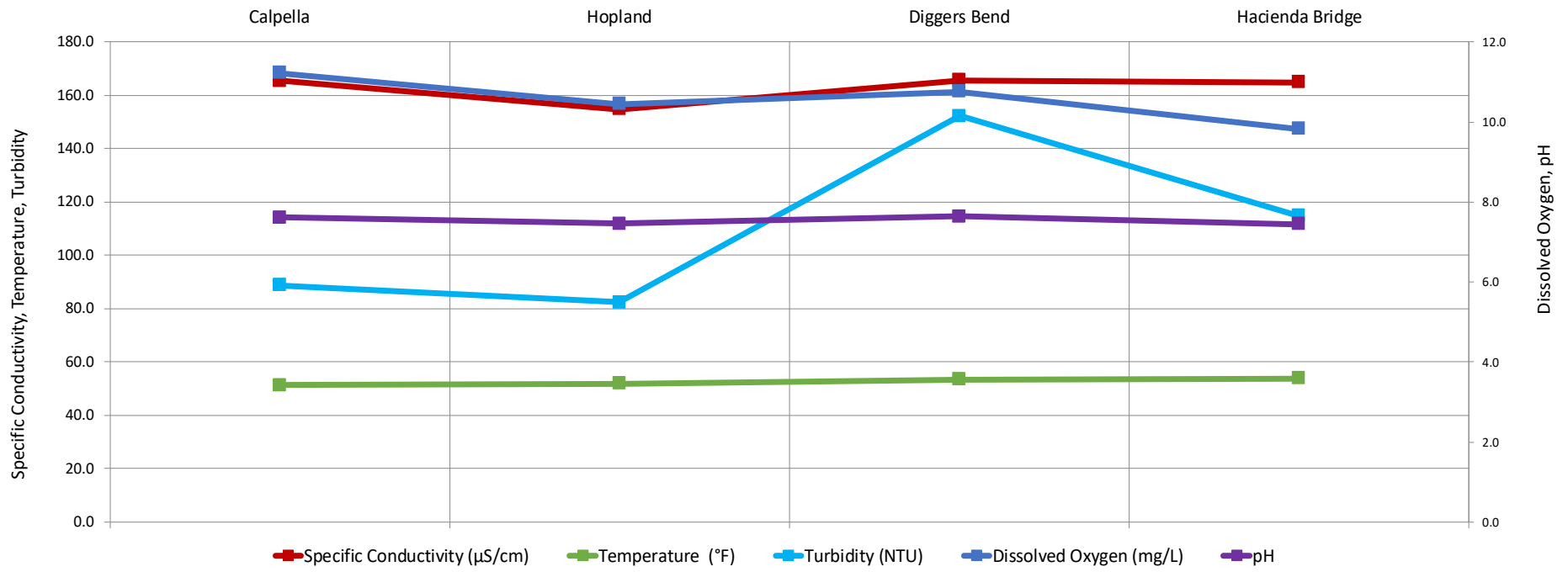


Russian River Flows (February 16, 2024 - February 22, 2024)

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	49.6	50.5		52.2	52.5		52.9	
	Max	53.4	53.4		54.5	54.7		54.7	
	Mean	51.3	51.9		53.1	53.5		53.7	
Specific Conductivity (µS/cm)	Min	104.0	117.0			89.0		121.0	
	Max	224.0	210.0			235.0		235.0	
	Mean	165.6	154.9			165.7		164.9	
Dissolved Oxygen (mg/L)	Min	10.9	9.7			10.5		9.5	
	Max	11.5	10.8			11.0		10.2	
	Mean	11.2	10.5			10.8		9.8	
Dissolved Oxygen (% Saturation)	Min	98.6	88.7			97.4		88.1	
	Max	102.4	97.7			101.6		94.6	
	Mean	101.1	94.9			99.7		91.3	
pH	Min	7.4	7.3			7.6		7.4	
	Max	7.8	7.6			7.7		7.5	
	Mean	7.6	7.5			7.6		7.4	
Turbidity (NTU)	Min	6.6	14.5			23.0		23.4	
	Max	748.0	324.0			502.0		336.0	
	Mean	88.8	82.3			152.2		114.9	

*Station operated seasonally

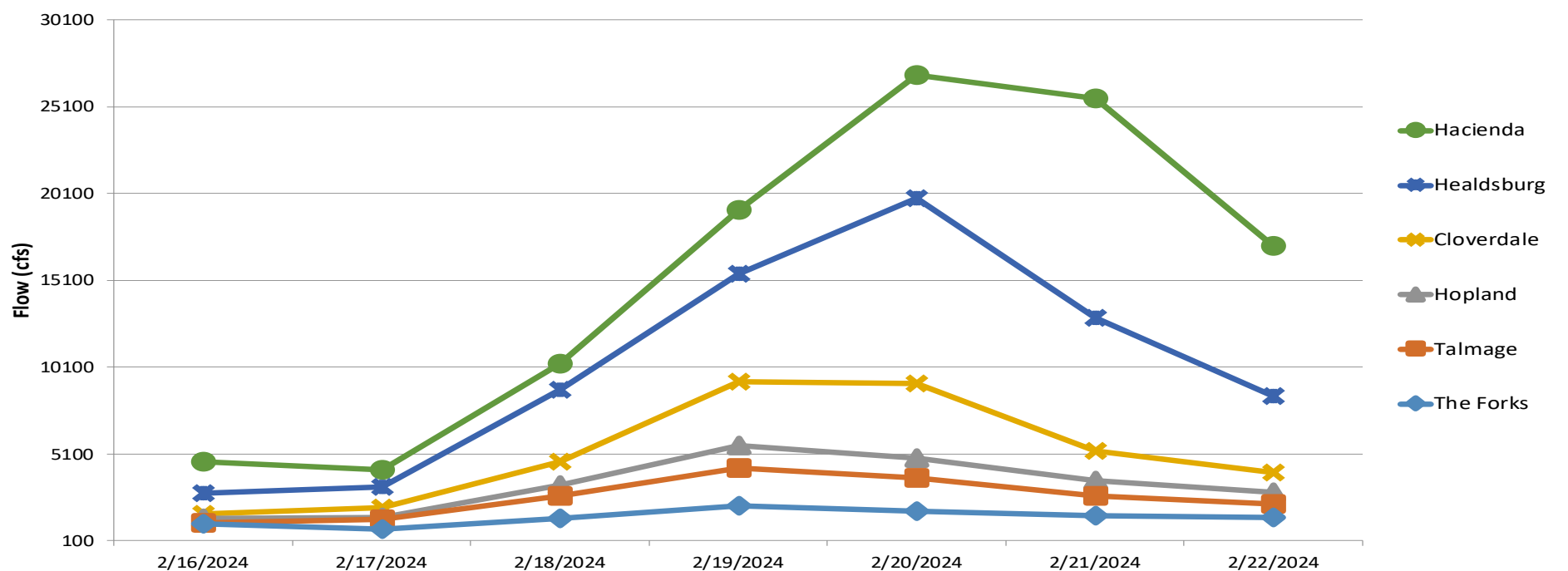
Water Quality Mean Values



Gage	24-hr Average Flow (cfs)						
	Feb 16, 2024	Feb 17, 2024	Feb 18, 2024	Feb 19, 2024	Feb 20, 2024	Feb 21, 2024	Feb 22, 2024
The Forks*	1069	754	1382	2112	1823	1546	1437
Talmage USGS 11462080	1124	1357	2657	4280	3695	2697	2212
Hopland USGS 11462500	1387	1417	3299	5577	4873	3543	2901
Cloverdale USGS 11463000	1649	2026	4627	9244	9150	5293	4029
Healdsburg USGS 11464000	2815	3178	8778	15460	19804	12955	8442
Hacienda USGS 11467000	4638	4179	10322	19156	26950	25588	17069

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

Russian River Flows

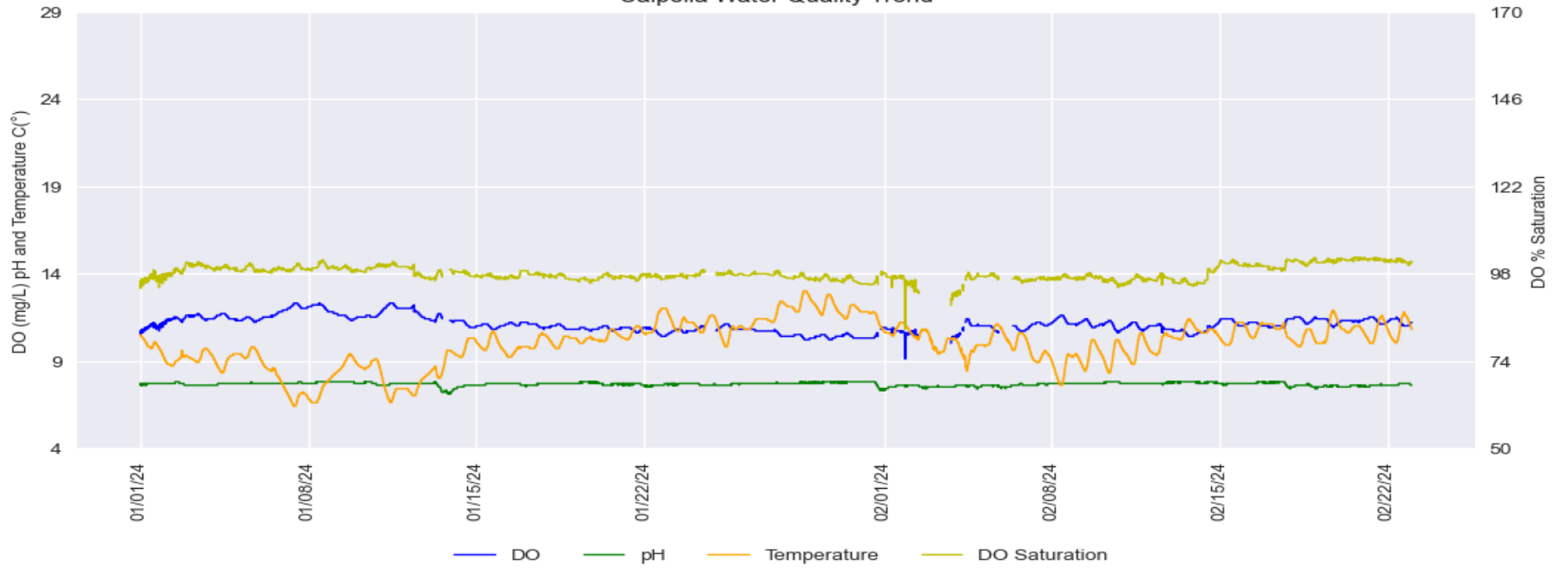


Russian River Water Quality January 1, 2024 – February 22, 2024

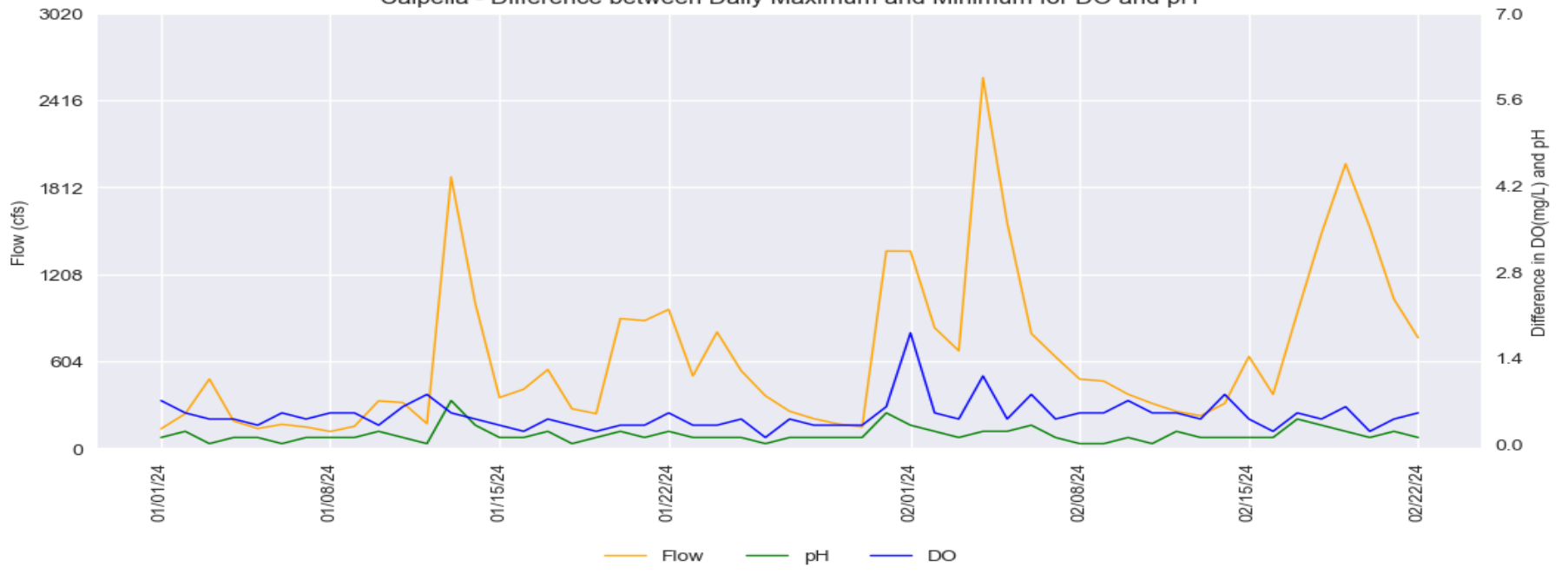
Provisional Data Subject to Revision

Calpella

Calpella Water Quality Trend

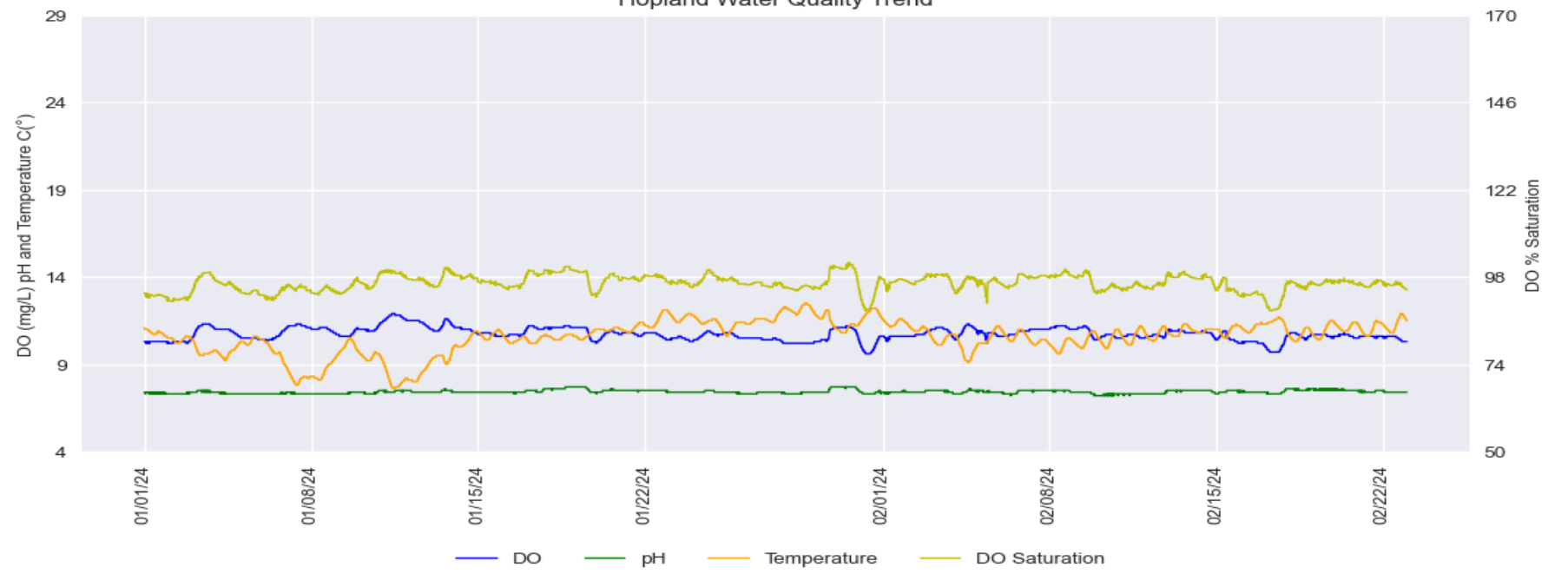


Calpella - Difference between Daily Maximum and Minimum for DO and pH

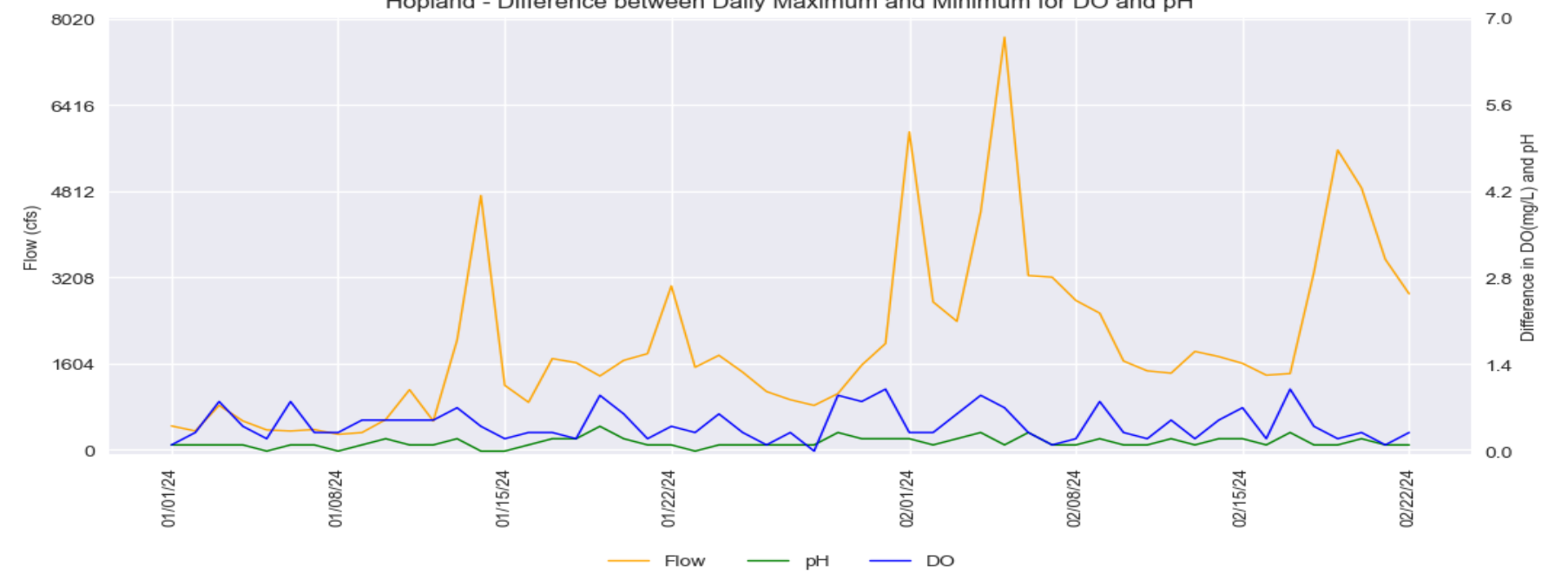


Hopland

Hopland Water Quality Trend



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

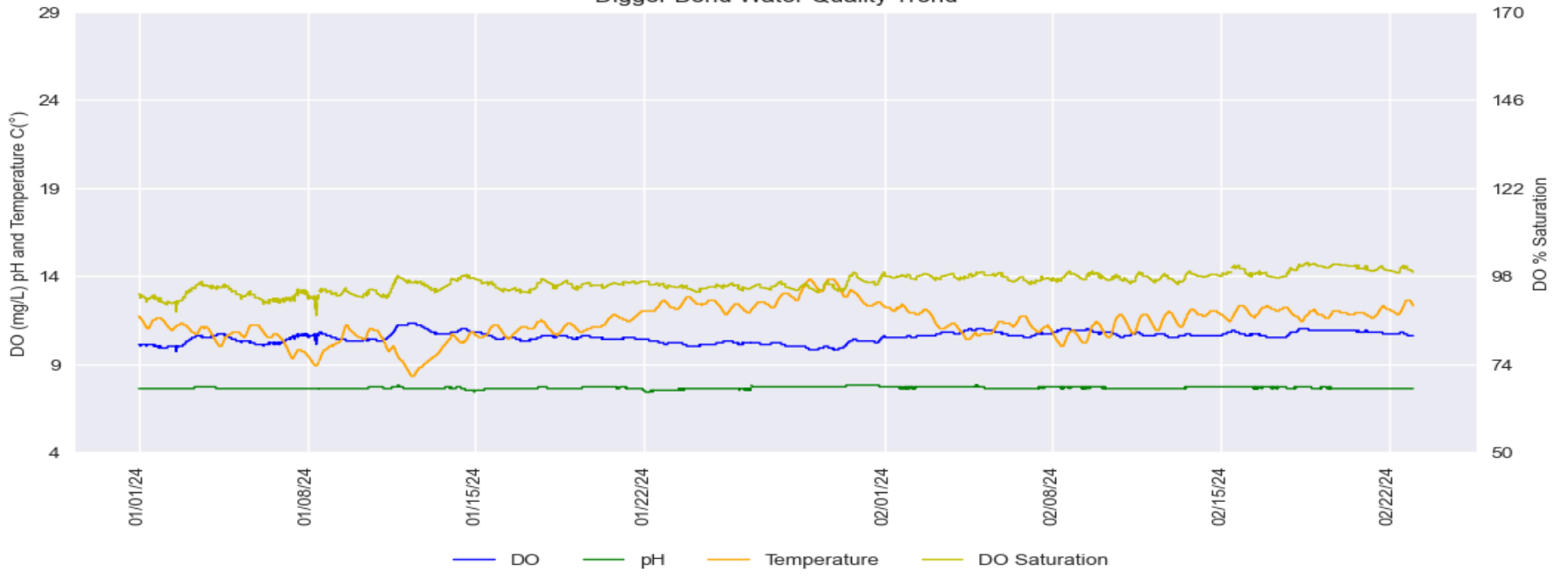


Russian River Water Quality January 1, 2024 – February 22, 2024

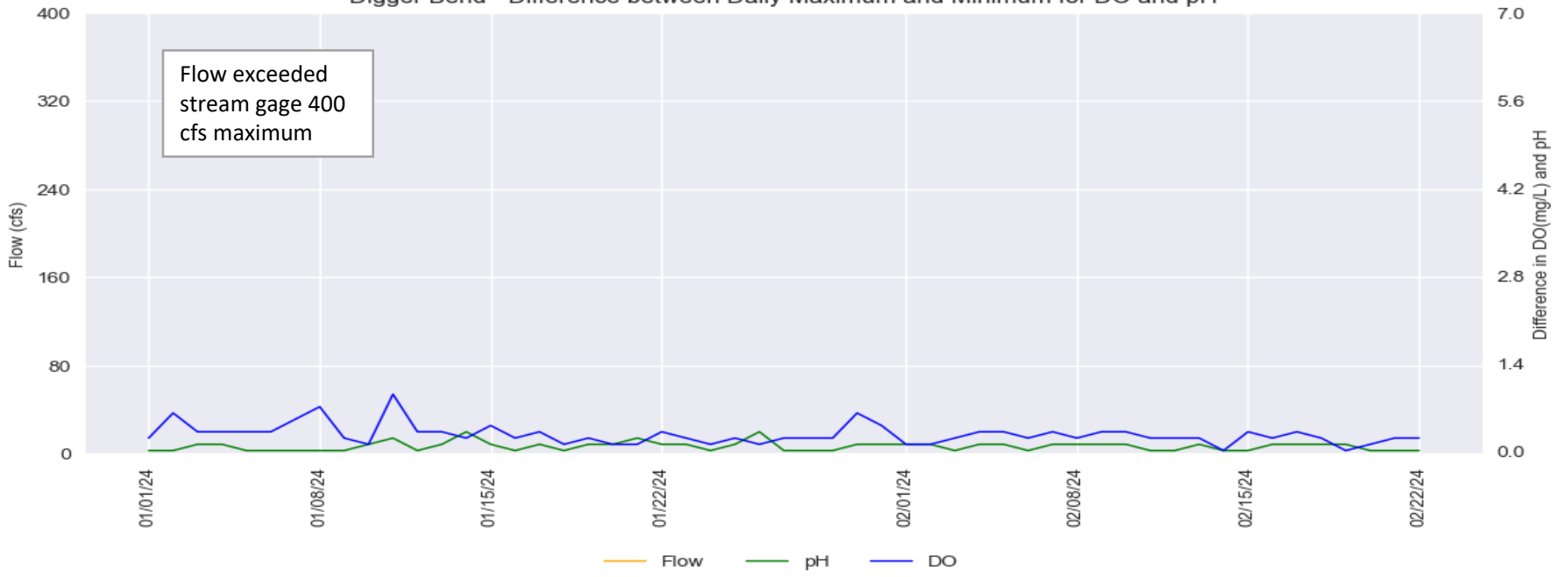
Provisional Data Subject to Revision

Digger Bend

Digger Bend Water Quality Trend

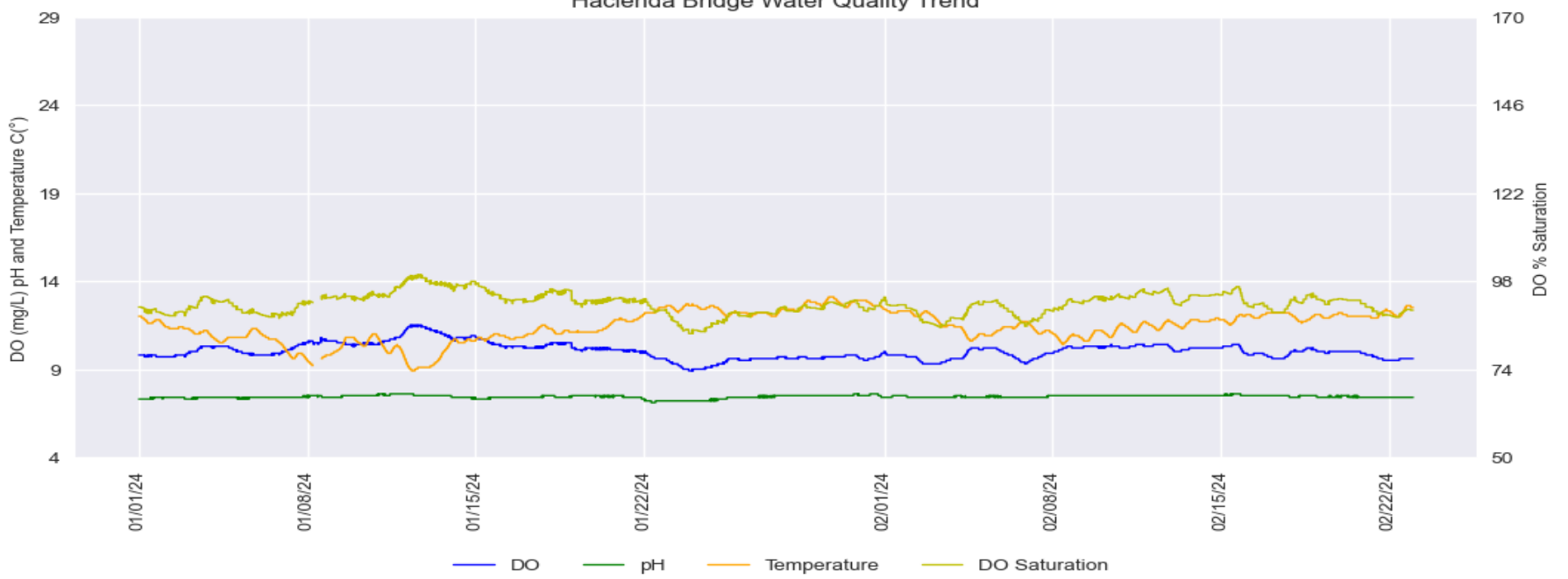


Digger Bend - Difference between Daily Maximum and Minimum for DO and pH

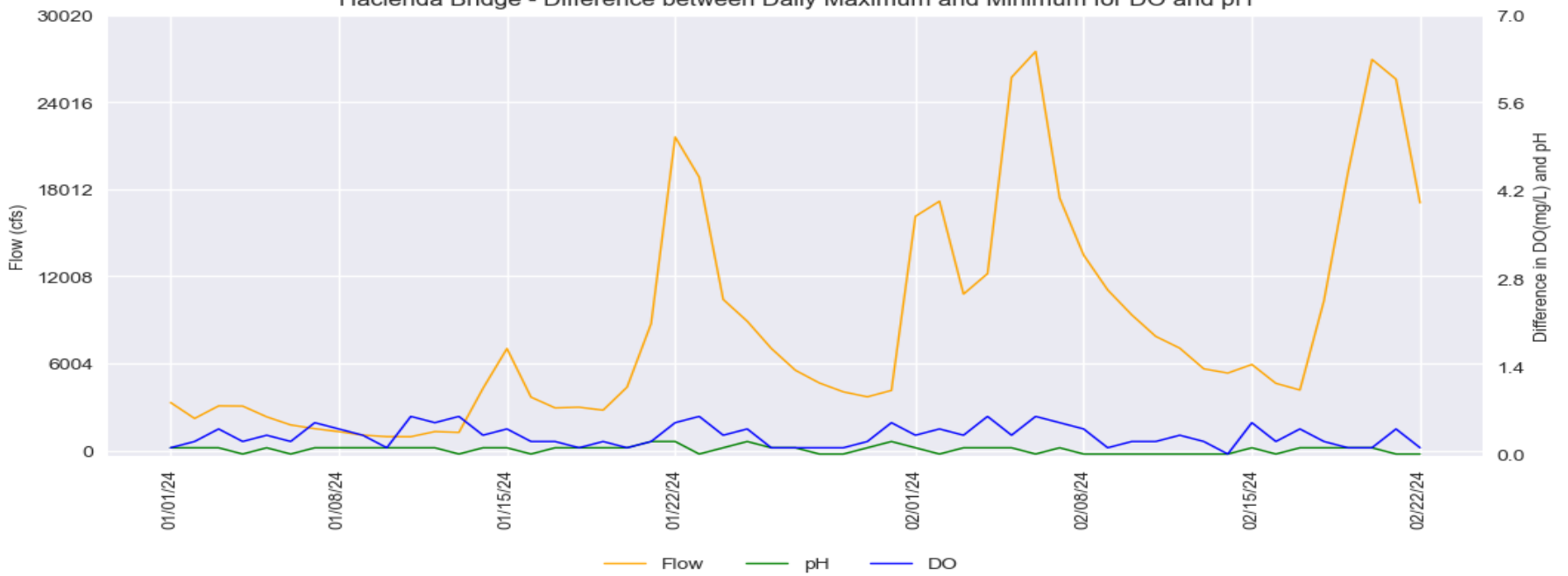


Hacienda Bridge

Hacienda Bridge Water Quality Trend



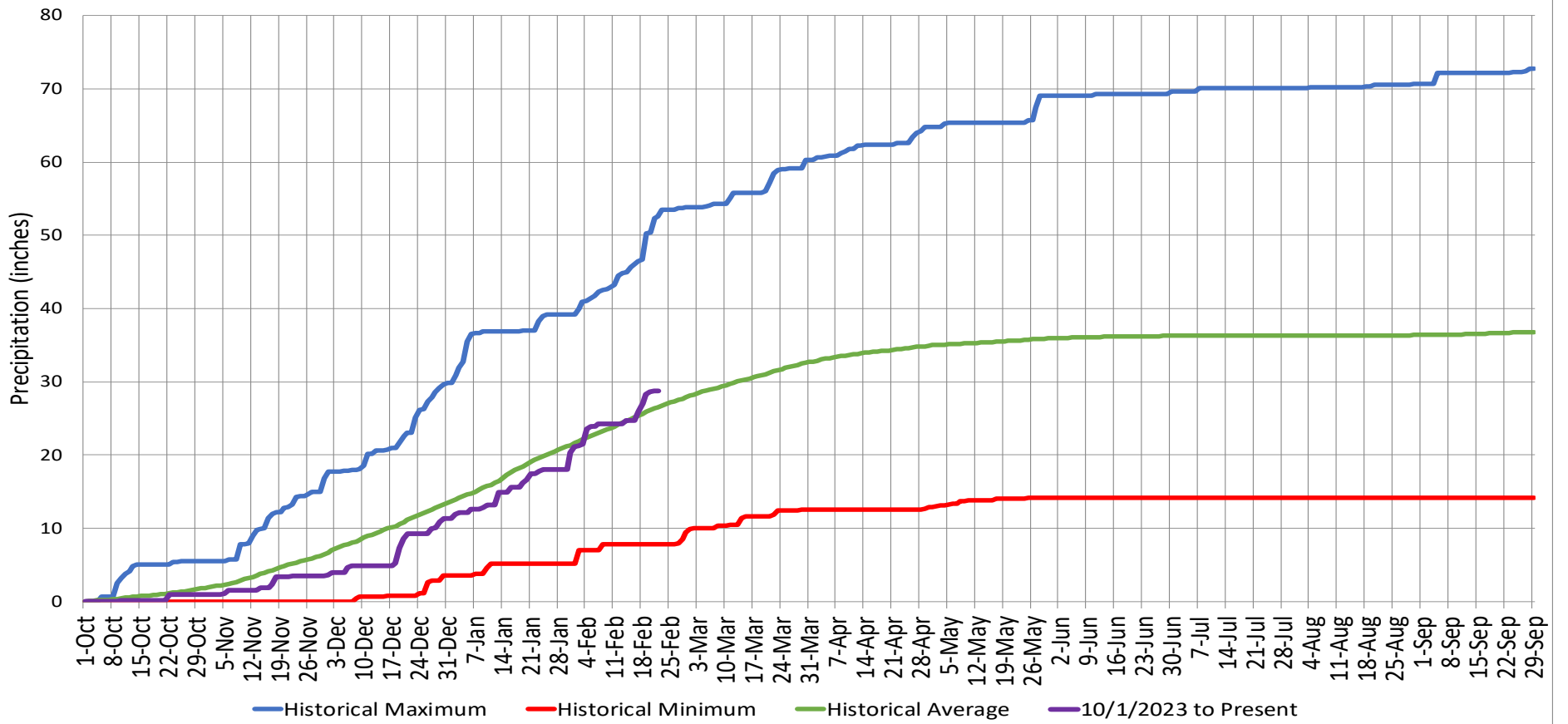
Hacienda Bridge - Difference between Daily Maximum and Minimum for DO and pH



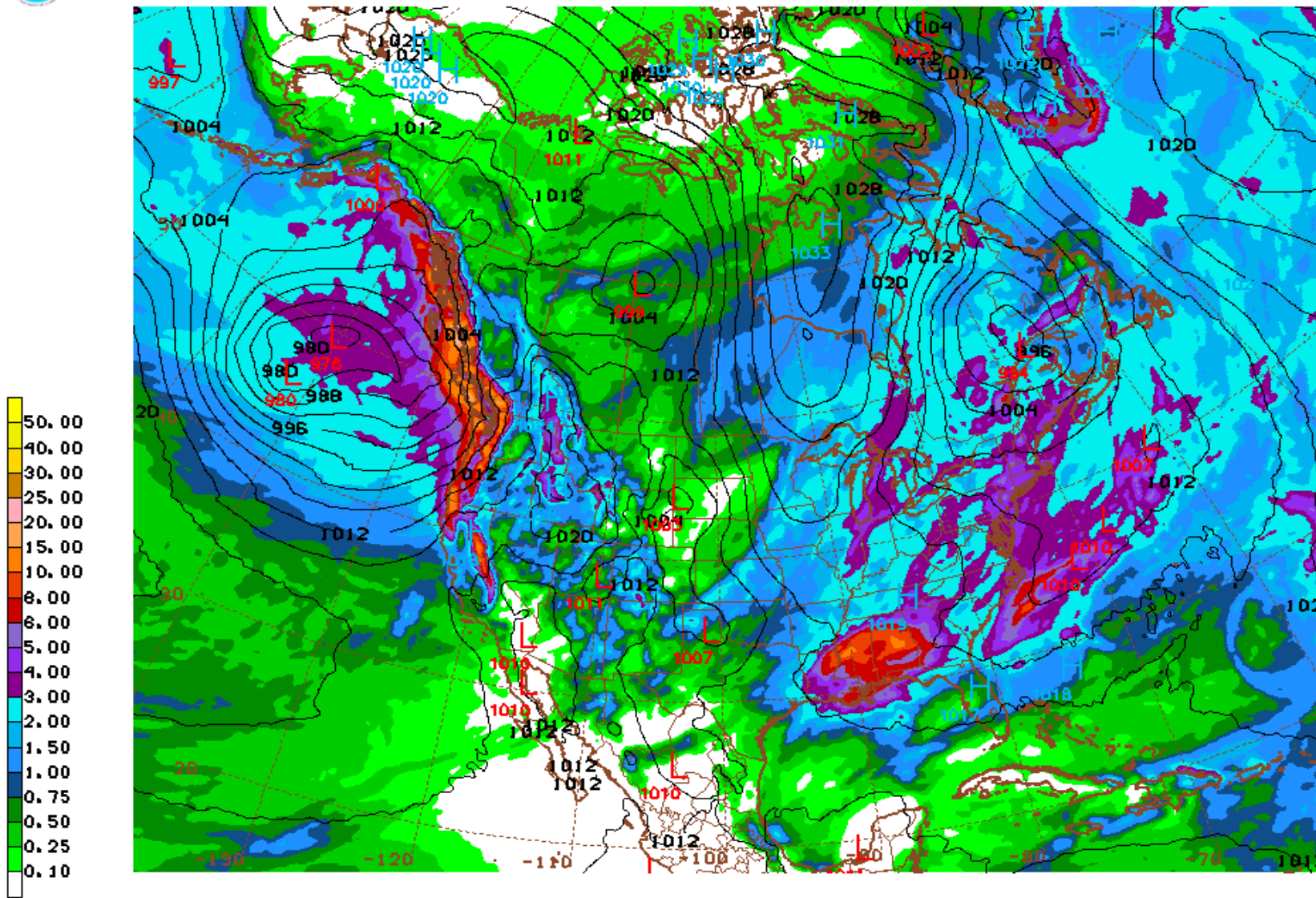
Precipitation

Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))	
Date Range	Cumulative (inches)
Oct 1, 2023 - Feb 22, 2024	28.74
Last 7 Days*	3.98

Cumulative Precipitation Comparison of Current Year versus Historic Record



6FS 02/26/24 12UTC 384HR FCST VALID WED 03/13/24 12UTC NOAA/NWS/NCEP



6FS WED 240313/1200V384 ENSL (4MB), 384HR ACCUMULATED PRECIP (IN)

Date Range
Feb 26 - Mar 13, 2024

Forecasted Cumulative (inches)
1.90