



State Water Resources Control Board
 Temporary Urgency Change Order (12/27/2023)
 Russian River Hydrologic & Water Quality Report
 April 12, 2024 - April 18, 2024

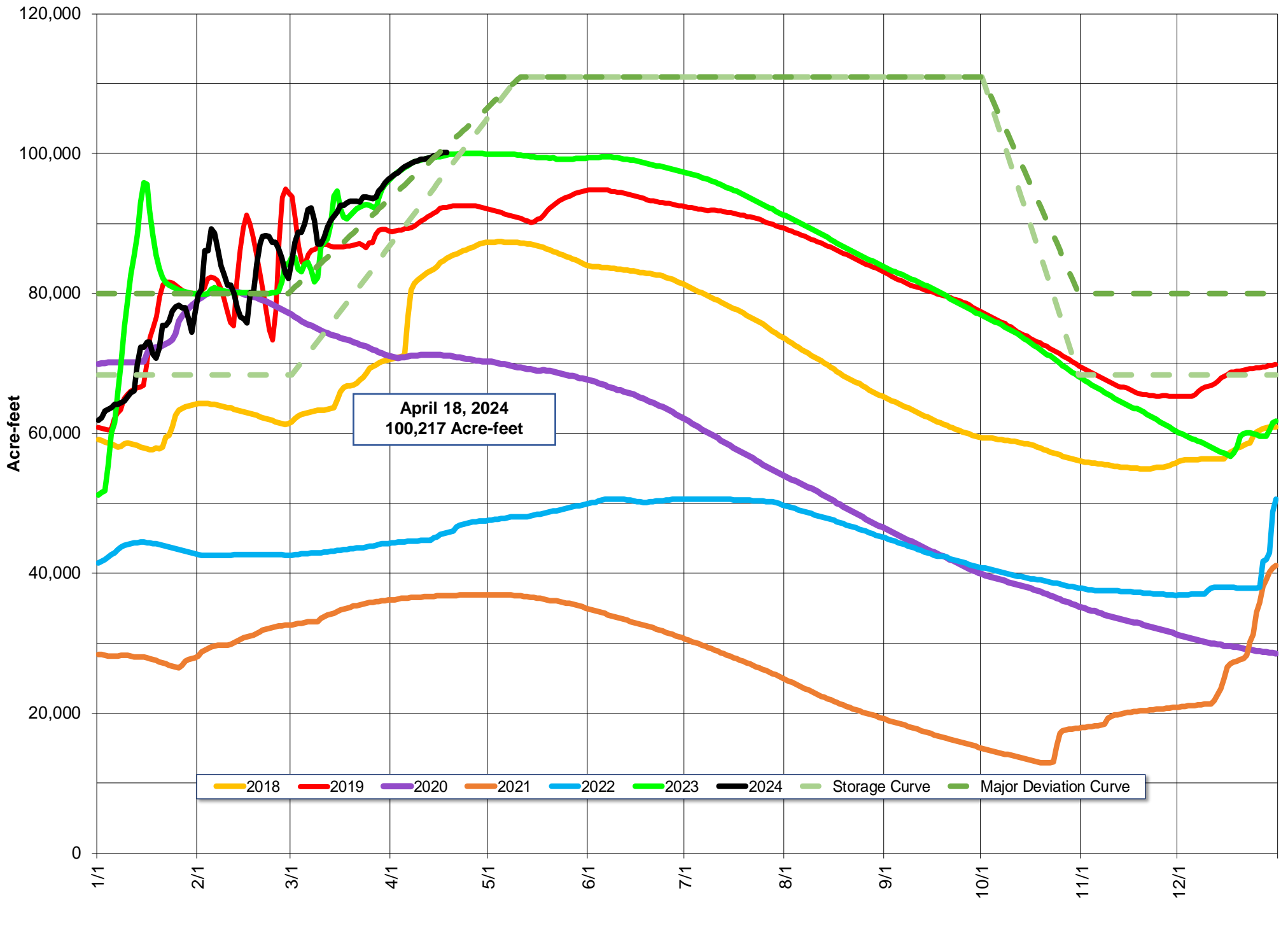
Prepared as a requirement of the Order approving Sonoma Water's Petition for Temporary Urgency Change in Permits 12947A, 12949, 12950, and 16596 (Applications 12919A, 15736, 15737, and 19351).

Instream Flow Requirements as of April 18, 2024

Basis	Reach	Instantaneous (cfs)	5-day Average (cfs)
Modified Per Order: Normal Condition	Upper Russian River	185	-
Modified Per Order: Normal Condition	Dry Creek	75	-
Modified Per Order: Normal Condition	Lower Russian River	125	-

Lake Mendocino

Lake Mendocino Storage 2018 - 2024 and Storage Curve



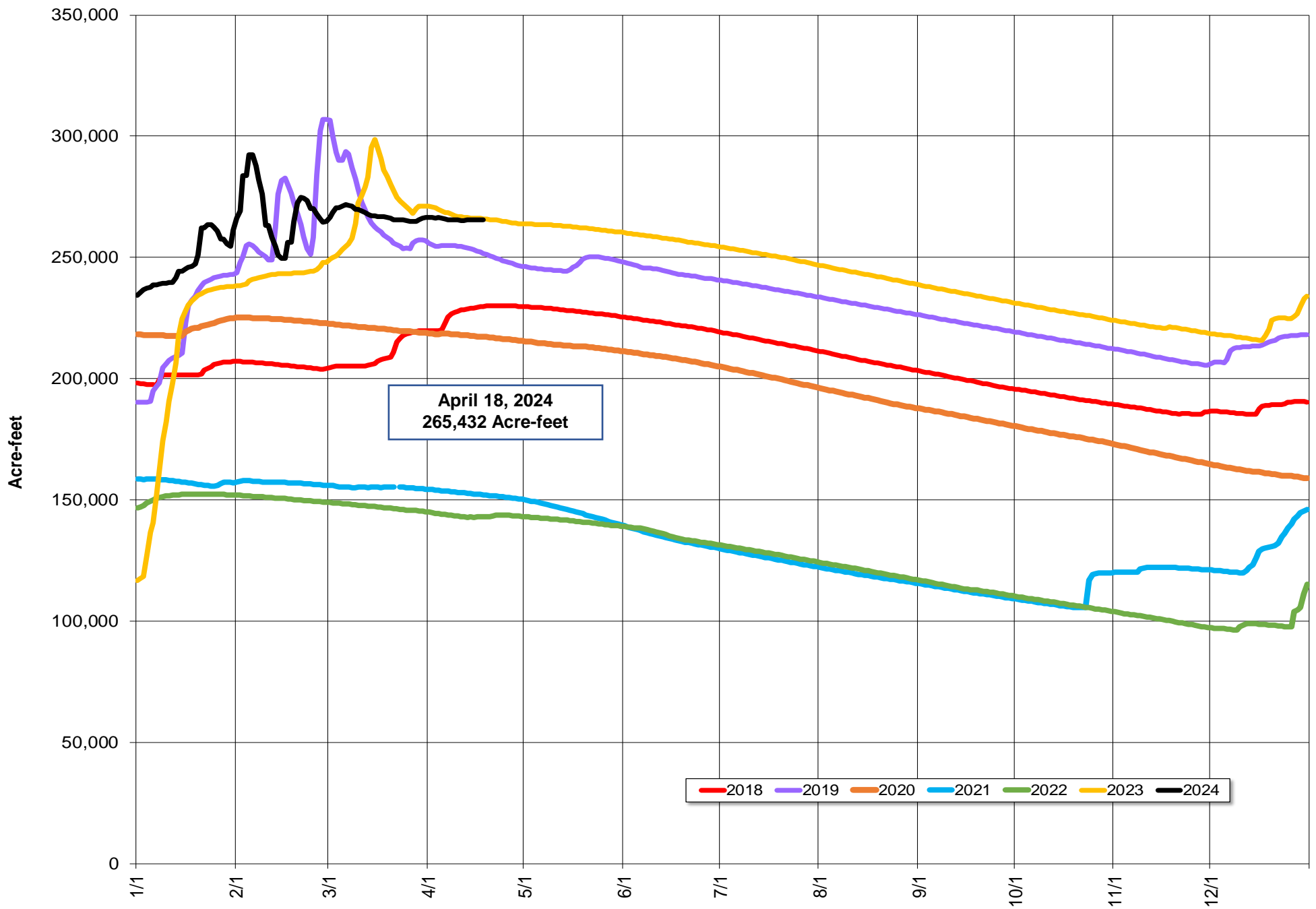
Storage (acre-feet)	April 18, 2024	100,217	
Change in Storage (acre-feet)	Last 30 days	7,015	234
	Last 7 days	928	133
Daily Inflow (cfs)	Last 7 days	Min	153
		Max	241
		Mean	202
Release (cfs)	Last 7 days	Min	125
		Max	151
		Mean	134

Lake Sonoma



Todd Schram, February 10, 2024

Lake Sonoma Storage 2018-2024



Storage (acre-feet)	April 18, 2024	265,432	
Change in Storage (acre-feet)	Last 30 days	Total	Average Daily Rate
	Last 7 days	-976	-33
Daily Inflow (cfs)	Last 7 days	Min	135
		Max	366
		Mean	280
Release (cfs)	Last 7 days	Min	175
		Max	222
		Mean	196

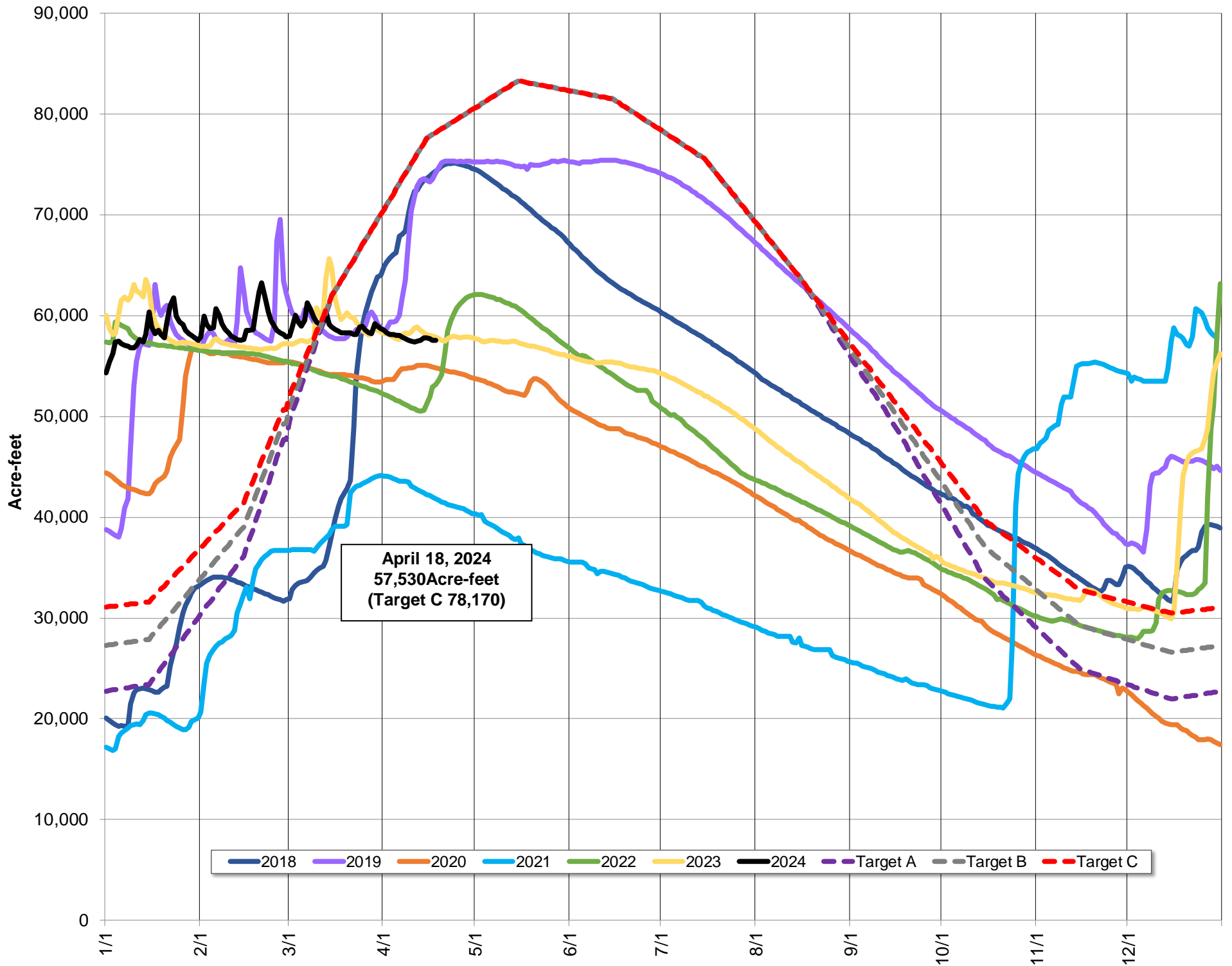
Potter Valley Project

PVP Diversion (cfs)	April 18, 2024	90
---------------------	----------------	----

Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2023 - April 18, 2024	439,924	2,189
	Last 7 days	10,601	1,514

*Inflow calculation based on criteria established in D1610

Lake Pillsbury Storage 2018 - 2024 and Target Storage Scenarios

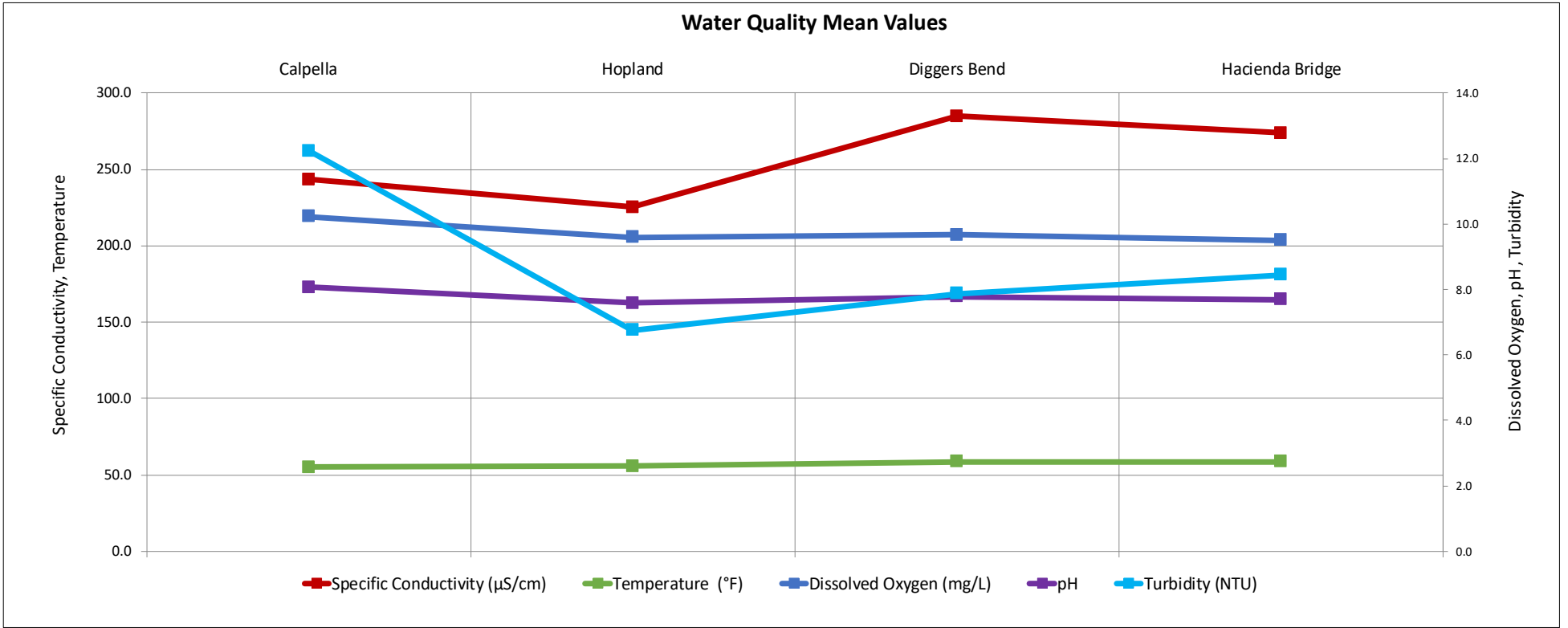


Russian River Flows (April 12, 2024 - April 18, 2024)

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	50.9	51.8		53.1	53.6		54.3	
	Max	59.9	58.6		63.3	63.7		63.0	
	Mean	55.1	55.5		58.0	58.5		58.6	
Specific Conductivity (µS/cm)	Min	233.0	216.0			271.0		257.0	
	Max	256.0	233.0			295.0		284.0	
	Mean	243.5	225.4			284.9		273.9	
Dissolved Oxygen (mg/L)	Min	9.5	8.9			9.0		8.9	
	Max	11.1	10.3			10.4		10.1	
	Mean	10.2	9.6			9.7		9.5	
Dissolved Oxygen (% Saturation)	Min	92.1	86.0			89.3		89.1	
	Max	104.7	99.7			103.7		100.6	
	Mean	96.7	91.2			95.2		93.7	
pH	Min	8.0	7.2			7.7		7.6	
	Max	8.3	7.6			7.9		7.8	
	Mean	8.1	7.6			7.8		7.7	
Turbidity (NTU)	Min	7.4	5.6			4.0		4.9	
	Max	31.7	8.3			19.0		14.8	
	Mean	12.2	6.8			7.9		8.4	

*Station operated seasonally

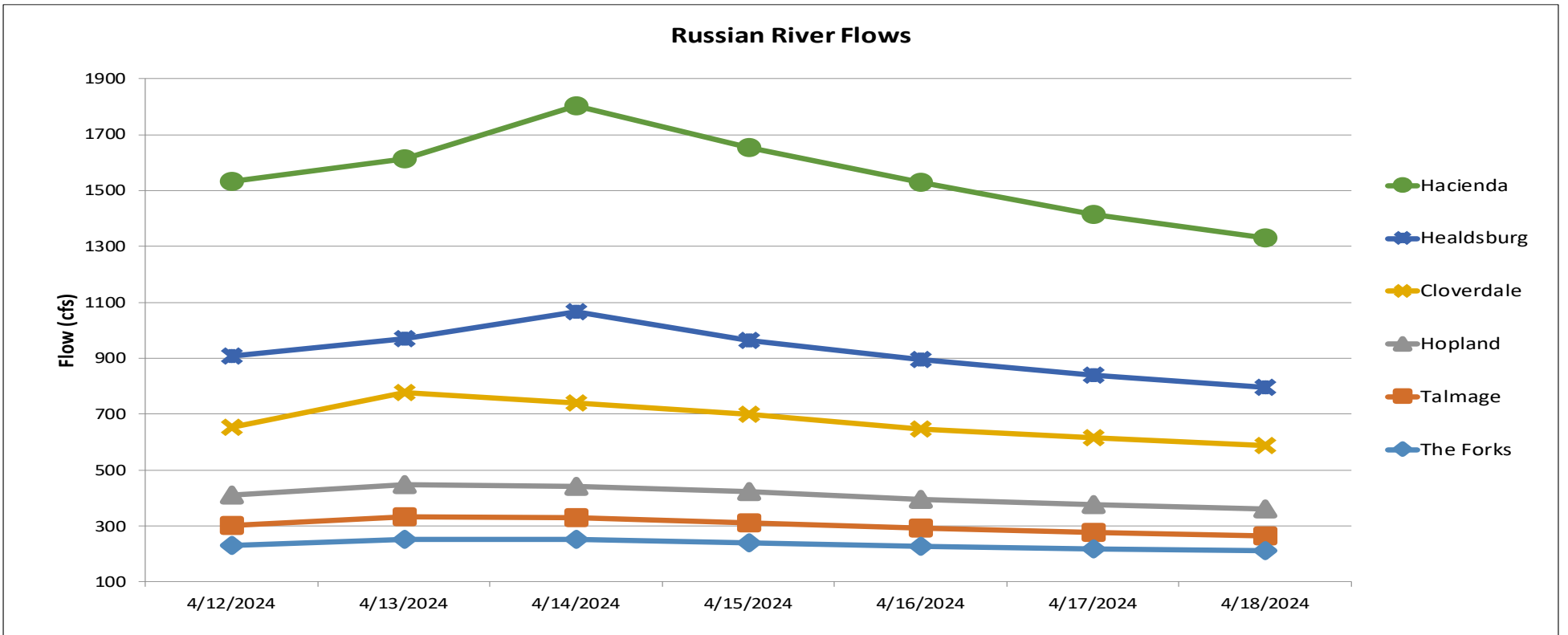
Water Quality Mean Values



Gage	24-hr Average Flow (cfs)						
	Apr 12, 2024	Apr 13, 2024	Apr 14, 2024	Apr 15, 2024	Apr 16, 2024	Apr 17, 2024	Apr 18, 2024
The Forks*	228	252	251	241	227	218	210
Talmage USGS 11462080	301	334	329	312	291	277	266
Hopland USGS 11462500	410	449	442	424	395	377	362
Cloverdale USGS 11463000	654	778	741	698	647	614	587
Healdsburg USGS 11464000	909	970	1066	963	895	840	797
Hacienda USGS 11467000	1531	1612	1803	1653	1530	1413	1330

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

Russian River Flows

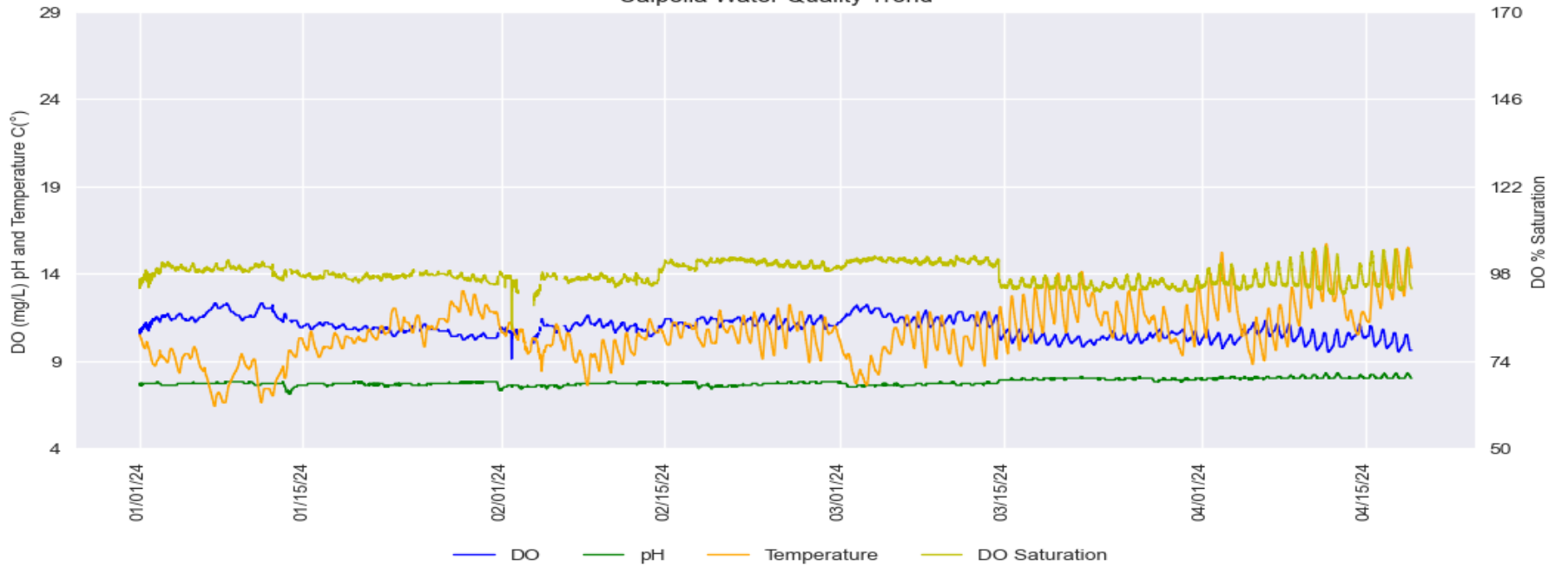


Russian River Water Quality January 1, 2024 – April 18, 2024

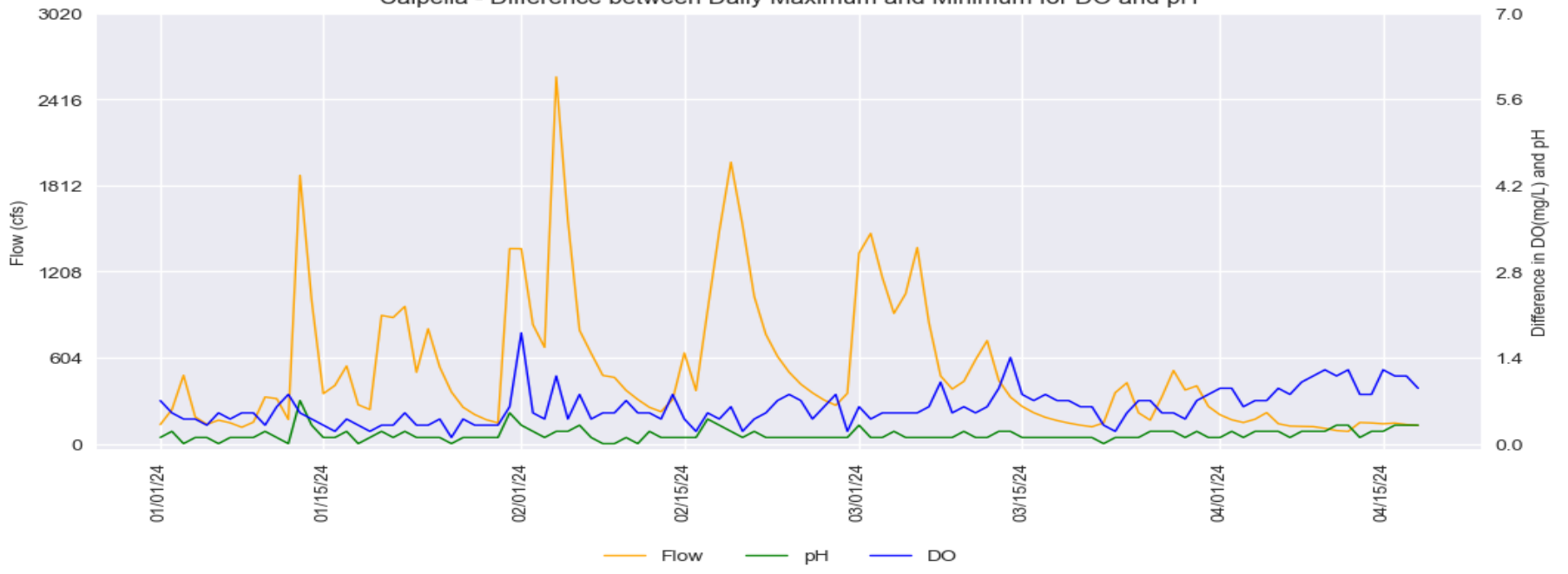
Provisional Data Subject to Revision

Calpella

Calpella Water Quality Trend

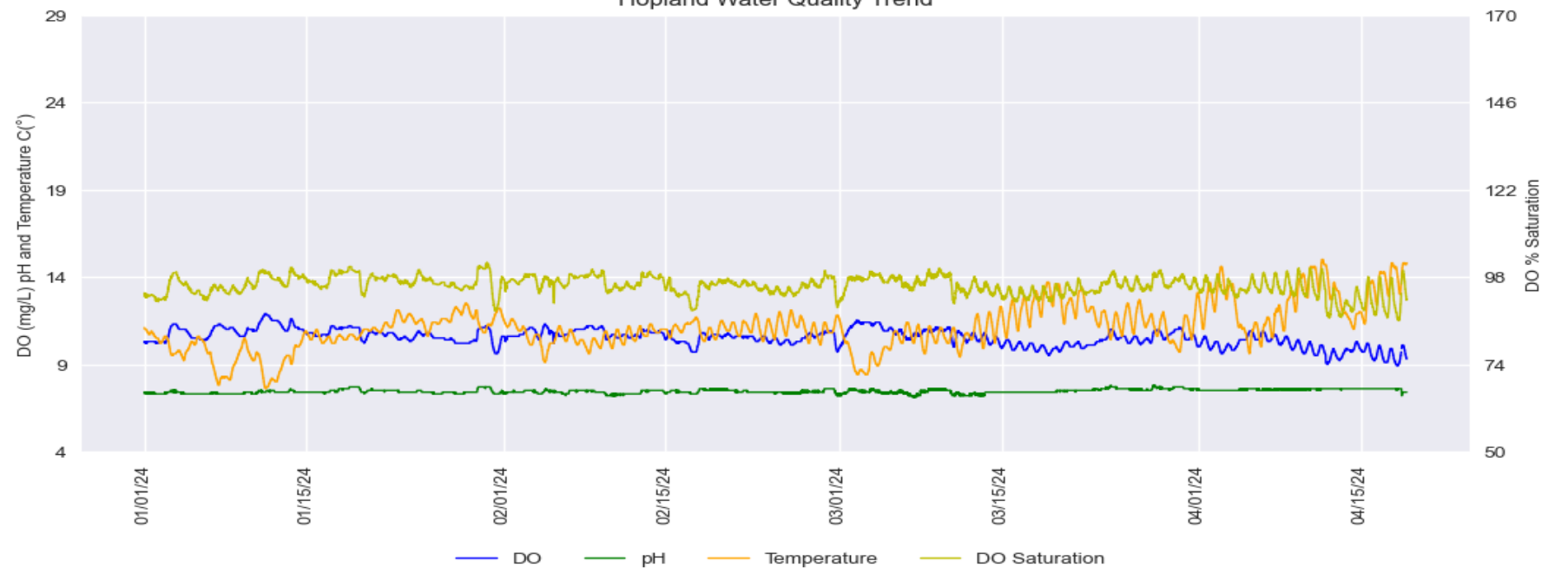


Calpella - Difference between Daily Maximum and Minimum for DO and pH

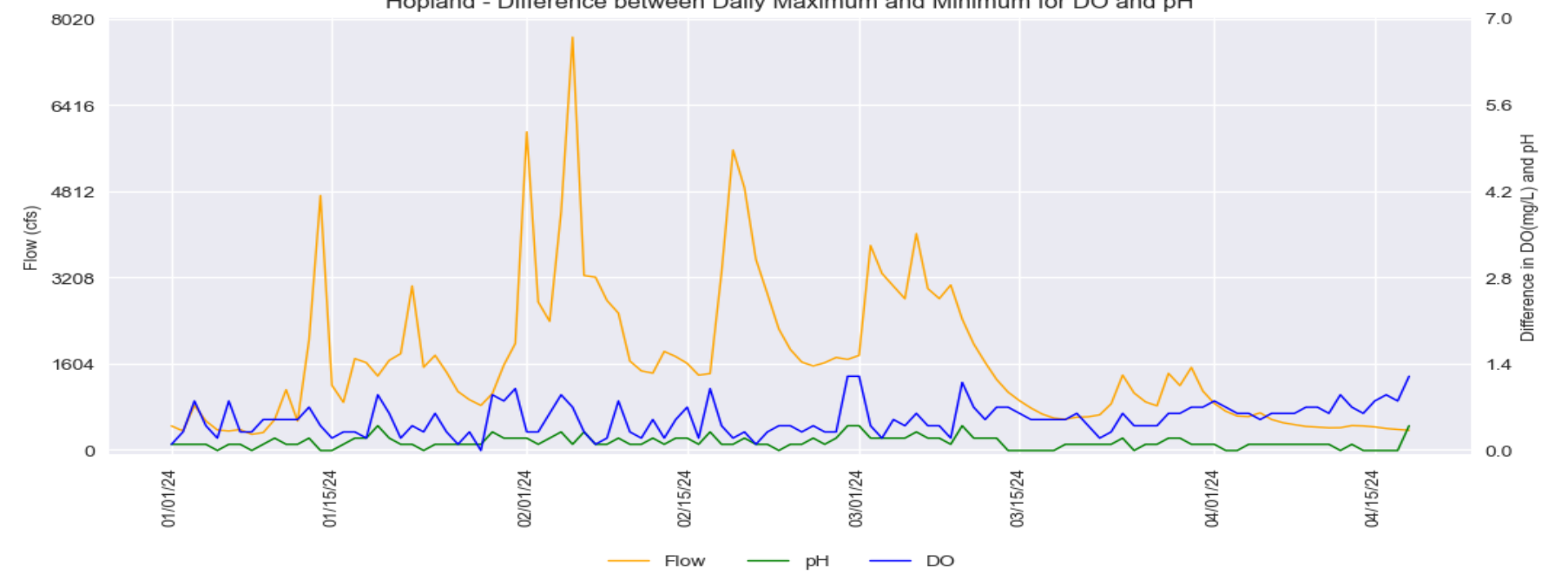


Hopland

Hopland Water Quality Trend



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

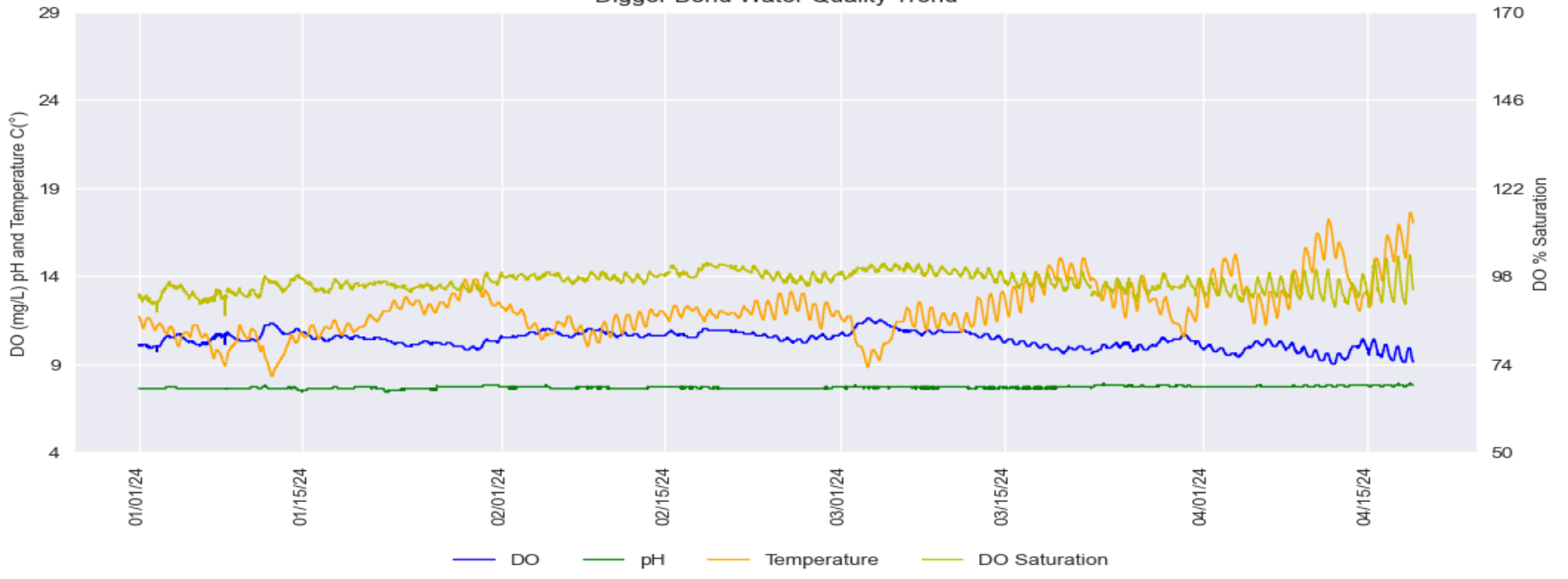


Russian River Water Quality January 1, 2024 – April 18, 2024

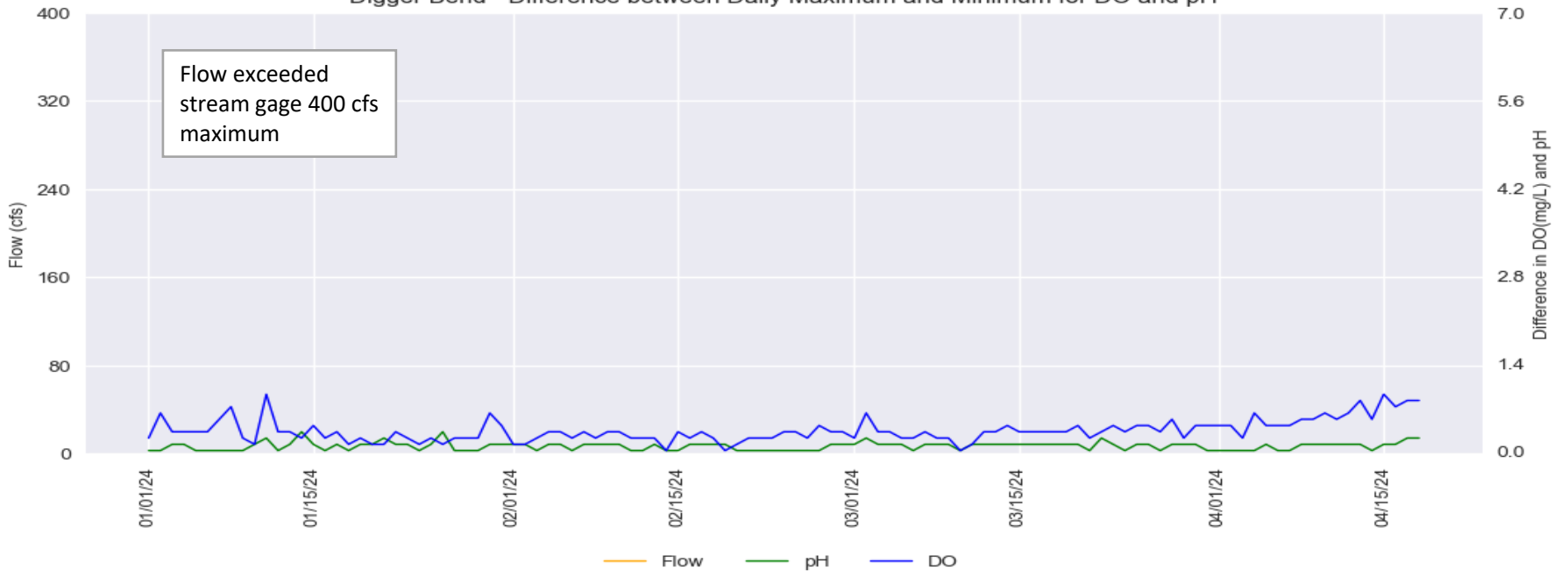
Provisional Data Subject to Revision

Digger Bend

Digger Bend Water Quality Trend

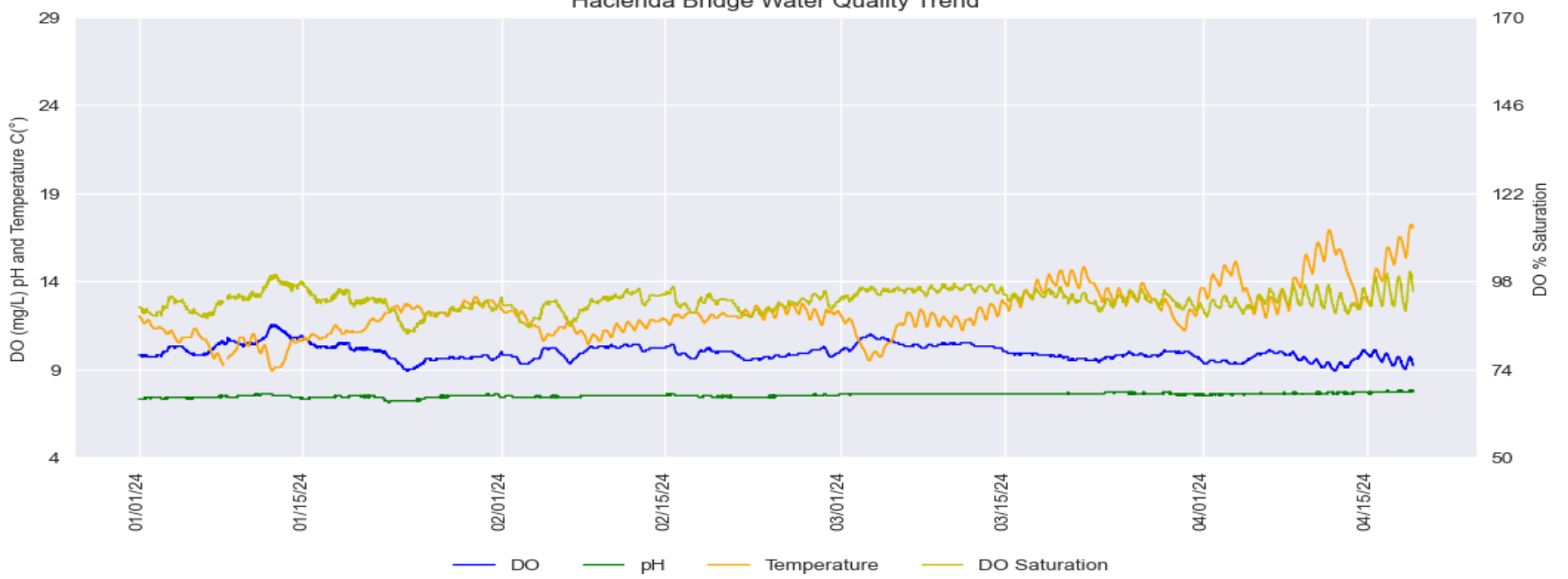


Digger Bend - Difference between Daily Maximum and Minimum for DO and pH

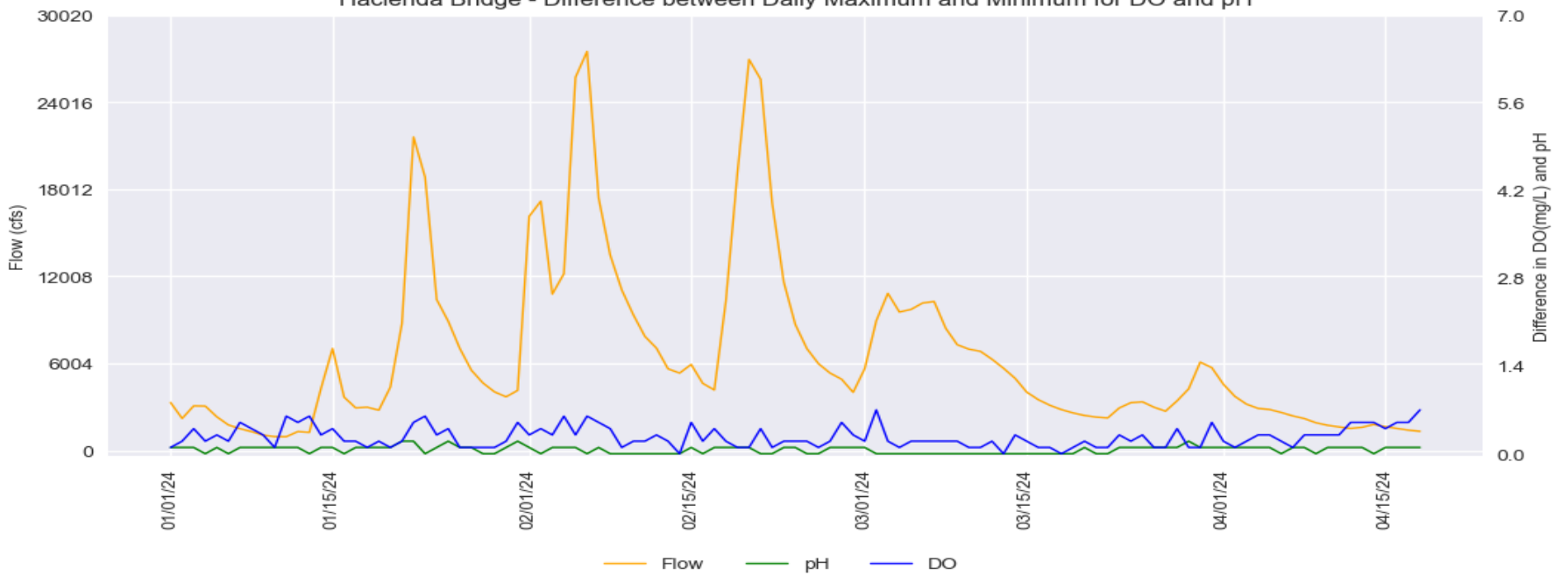


Hacienda Bridge

Hacienda Bridge Water Quality Trend



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

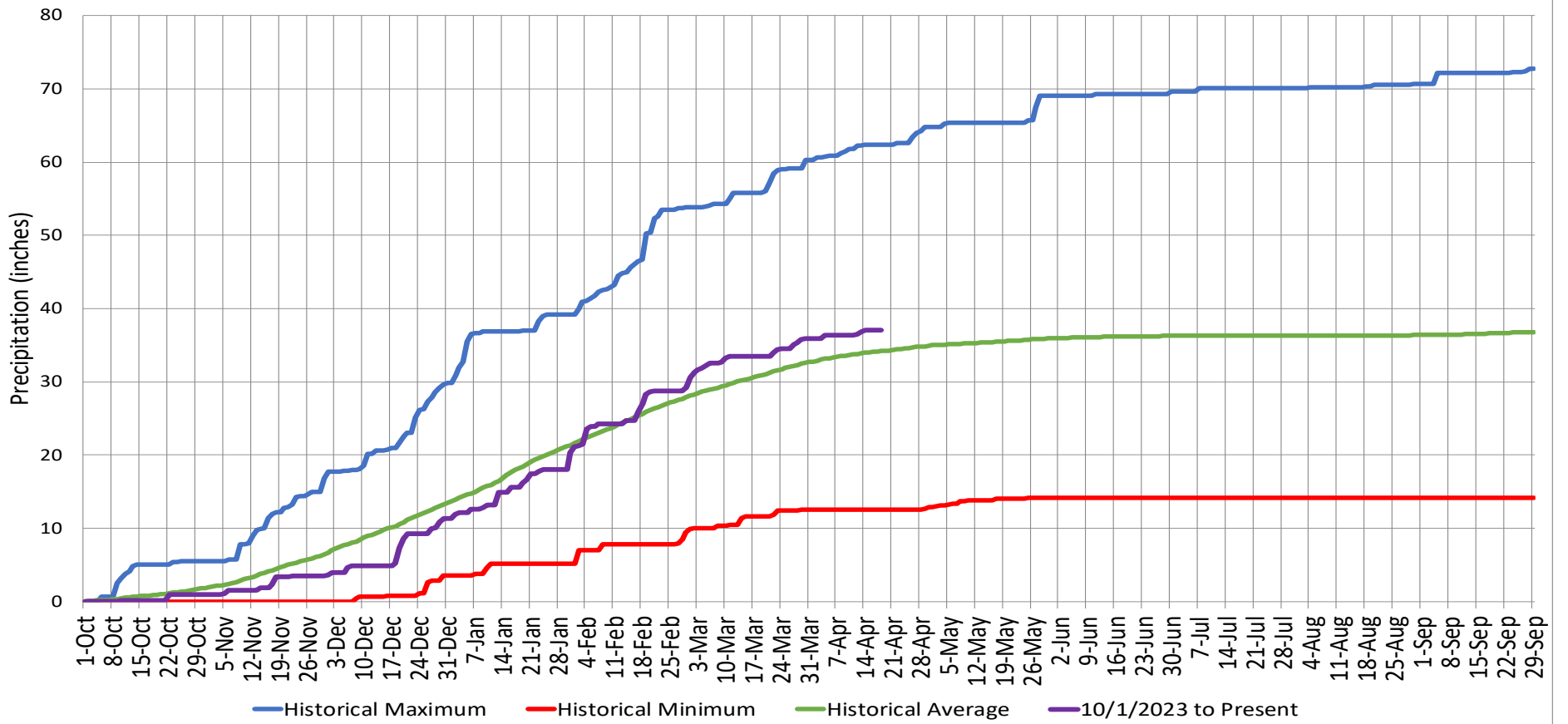


Precipitation

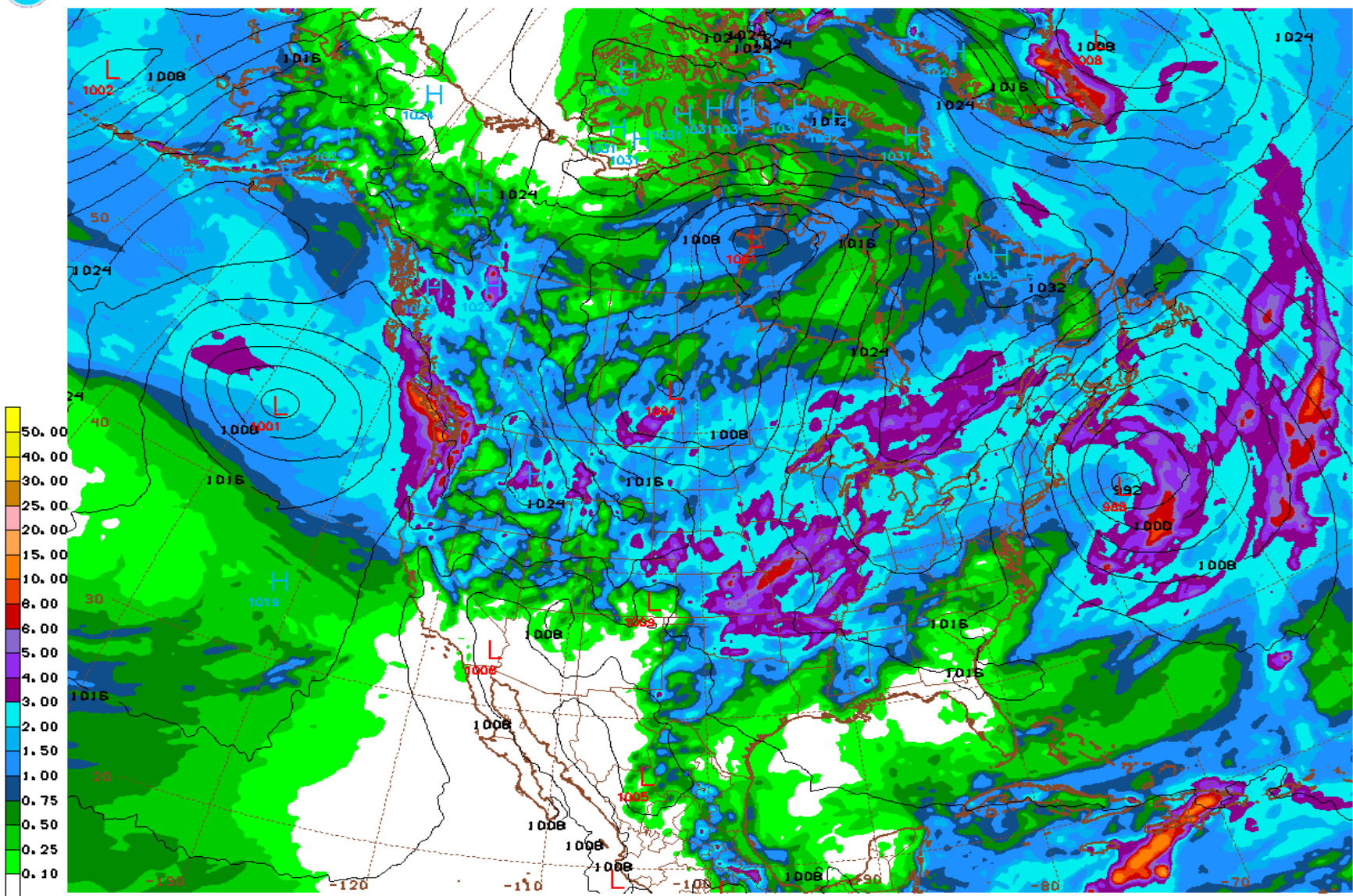
Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))

Date Range	Cumulative (inches)
Oct 1, 2023 - Apr 18, 2024	37.07
Last 7 Days*	0.66

Cumulative Precipitation Comparison of Current Year versus Historic Record



6FS 04/22/24 12UTC 384HR FCST VALID WED 05/08/24 12UTC NOAA/NWS/NCEP



6FS WED 240508/1200V384 ENSL (4MB), 384HR ACCUMULATED PRECIP (IN)

Date Range
Apr 22 - May 8, 2024

Forecasted Cumulative (inches)
0.40