



State Water Resources Control Board
 Temporary Urgency Change Order (12/27/2023)
 Russian River Hydrologic & Water Quality Report
 March 15, 2024 - March 21, 2024

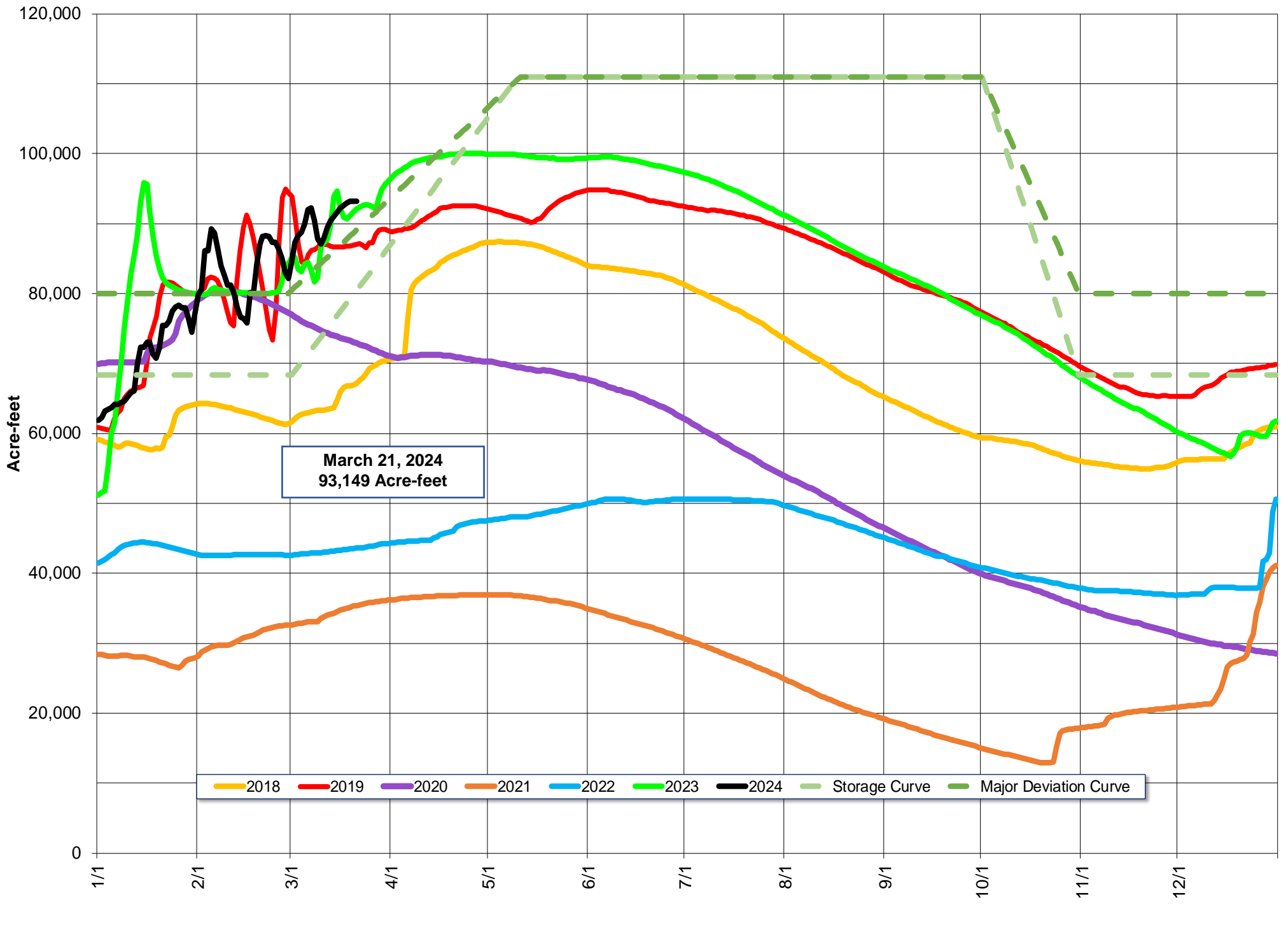
Prepared as a requirement of the Order approving Sonoma Water's Petition for Temporary Urgency Change in Permits 12947A, 12949, 12950, and 16596 (Applications 12919A, 15736, 15737, and 19351).

Instream Flow Requirements as of March 21, 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

Lake Mendocino Storage 2018 - 2024 and Storage Curve



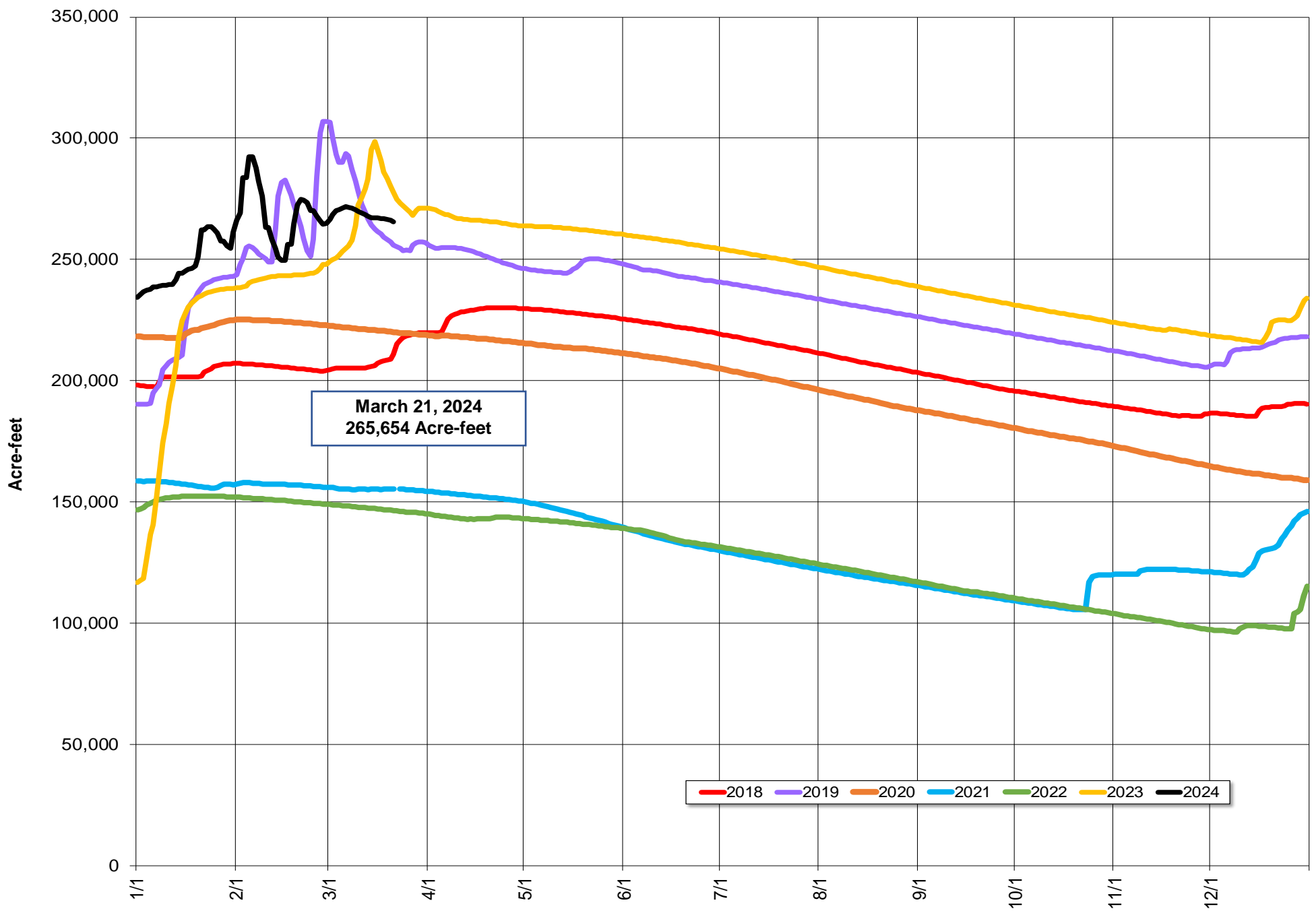
Storage (acre-feet)	March 21, 2024	93,149	
Change in Storage (acre-feet)	Last 30 days	Total	Average Daily Rate
	Last 7 days	6,062	202
Daily Inflow (cfs)	Last 7 days	Min	199
		Max	526
		Mean	304
Release (cfs)	Last 7 days	Min	26
		Max	360
		Mean	163

Lake Sonoma



Todd Schram, February 10, 2024

Lake Sonoma Storage 2018-2024



Storage (acre-feet)	March 21, 2024	265,654	
Change in Storage (acre-feet)	Last 30 days	Total	Average Daily Rate
		-6,774	-226
	Last 7 days	-1,620	-231
Daily Inflow (cfs)	Last 7 days	Min	300
		Max	529
		Mean	591
Release (cfs)	Last 7 days	Min	489
		Max	509
		Mean	499

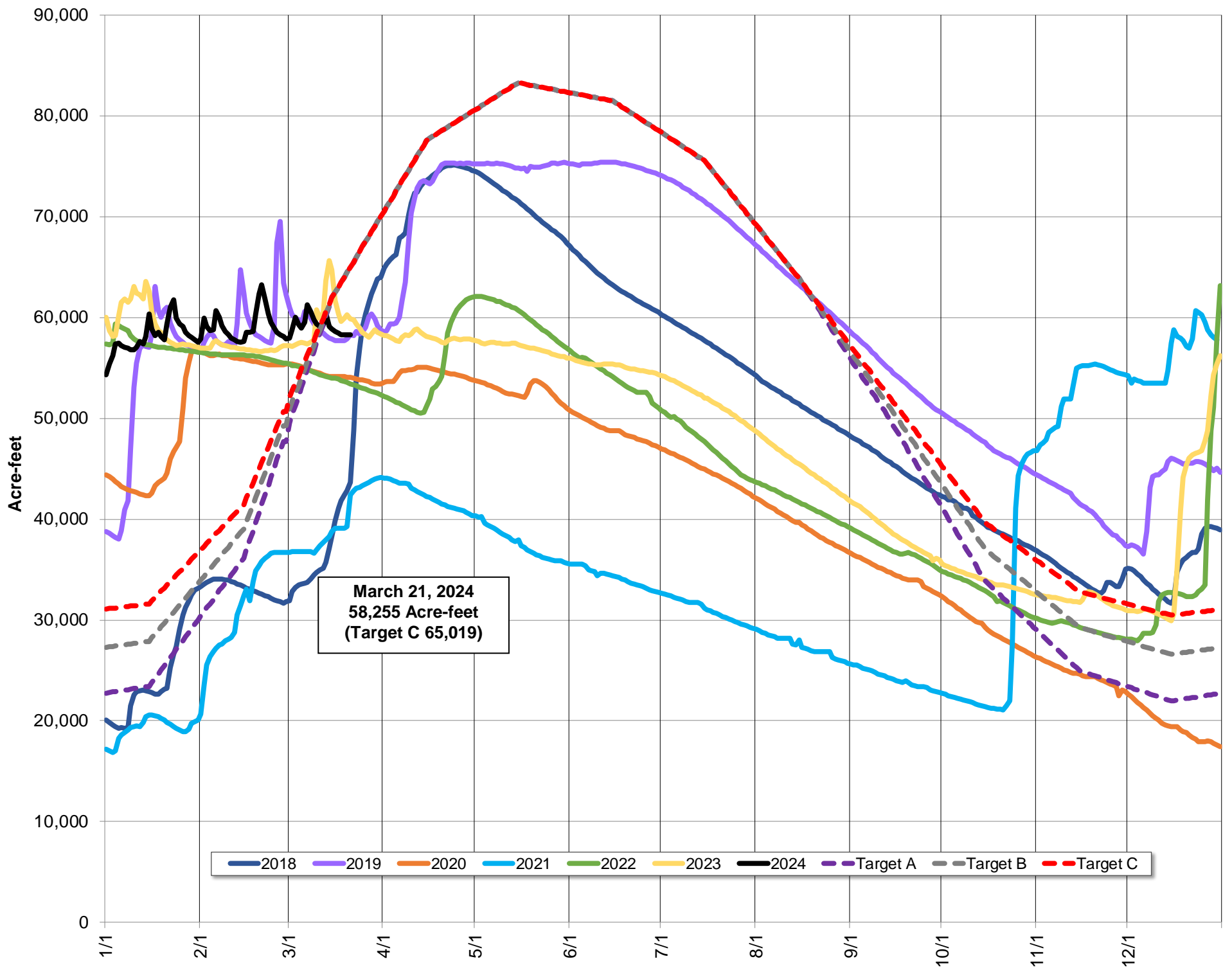
Potter Valley Project

PVP Diversion (cfs)	March 21, 2024	46
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Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2023 - March 21, 2024	371,201	2,146
	Last 7 days	16,327	2,332

*Inflow calculation based on criteria established in D1610

Lake Pillsbury Storage 2018 - 2024 and Target Storage Scenarios

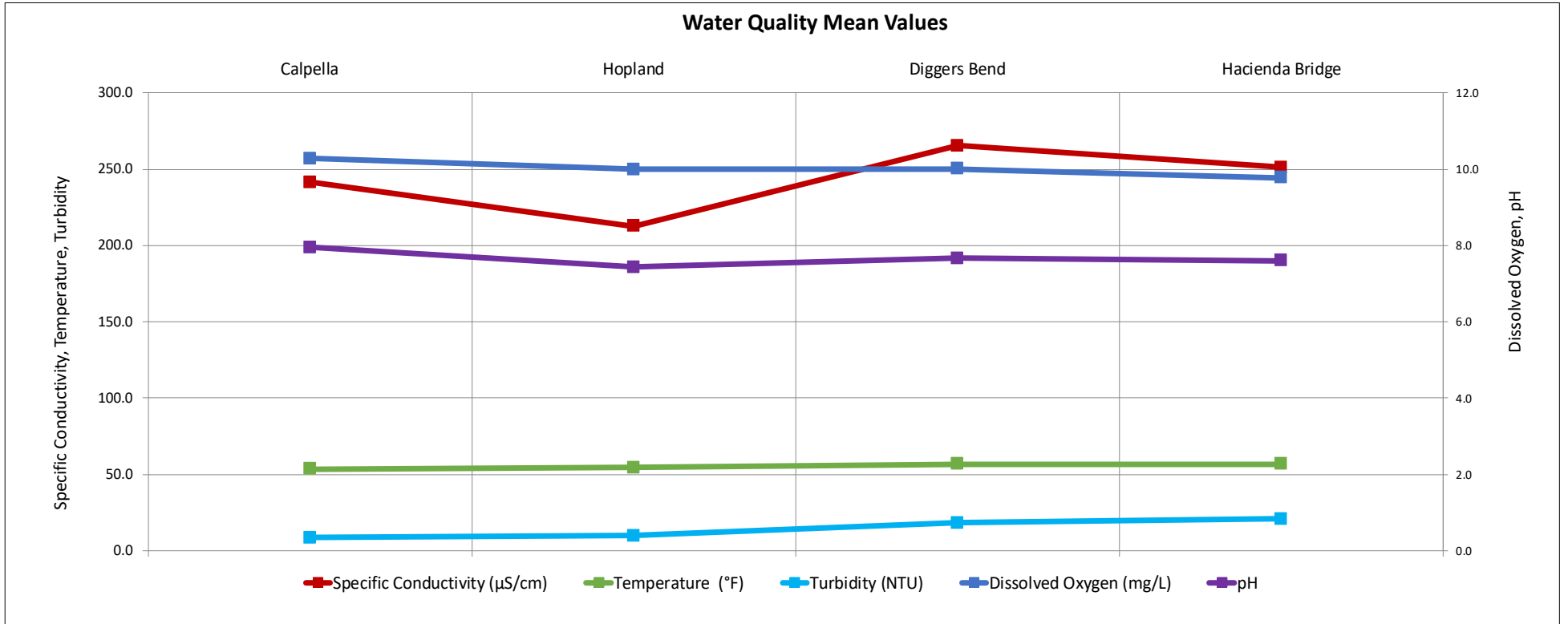


Russian River Flows (March 15, 2024 - March 21, 2024)

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	48.9	50.9		52.3	53.1		54.1	
	Max	57.4	56.7		59.5	59.0		58.6	
	Mean	53.3	54.3		56.2	56.6		56.6	
Specific Conductivity (µS/cm)	Min	224.0	194.0			240.0		229.0	
	Max	252.0	228.0			280.0		263.0	
	Mean	241.5	212.9			265.5		251.3	
Dissolved Oxygen (mg/L)	Min	9.8	9.5			9.6		9.5	
	Max	10.8	10.4			10.4		10.0	
	Mean	10.3	10.0			10.0		9.8	
Dissolved Oxygen (% Saturation)	Min	93.3	91.1			93.7		91.7	
	Max	98.2	97.7			99.2		96.3	
	Mean	95.0	93.5			96.4		94.1	
pH	Min	7.9	7.4			7.6		7.6	
	Max	8.1	7.5			7.8		7.7	
	Mean	8.0	7.4			7.7		7.6	
Turbidity (NTU)	Min	6.1	6.7			12.5		14.1	
	Max	13.2	13.6			23.6		30.7	
	Mean	8.4	9.8			18.1		20.6	

*Station operated seasonally

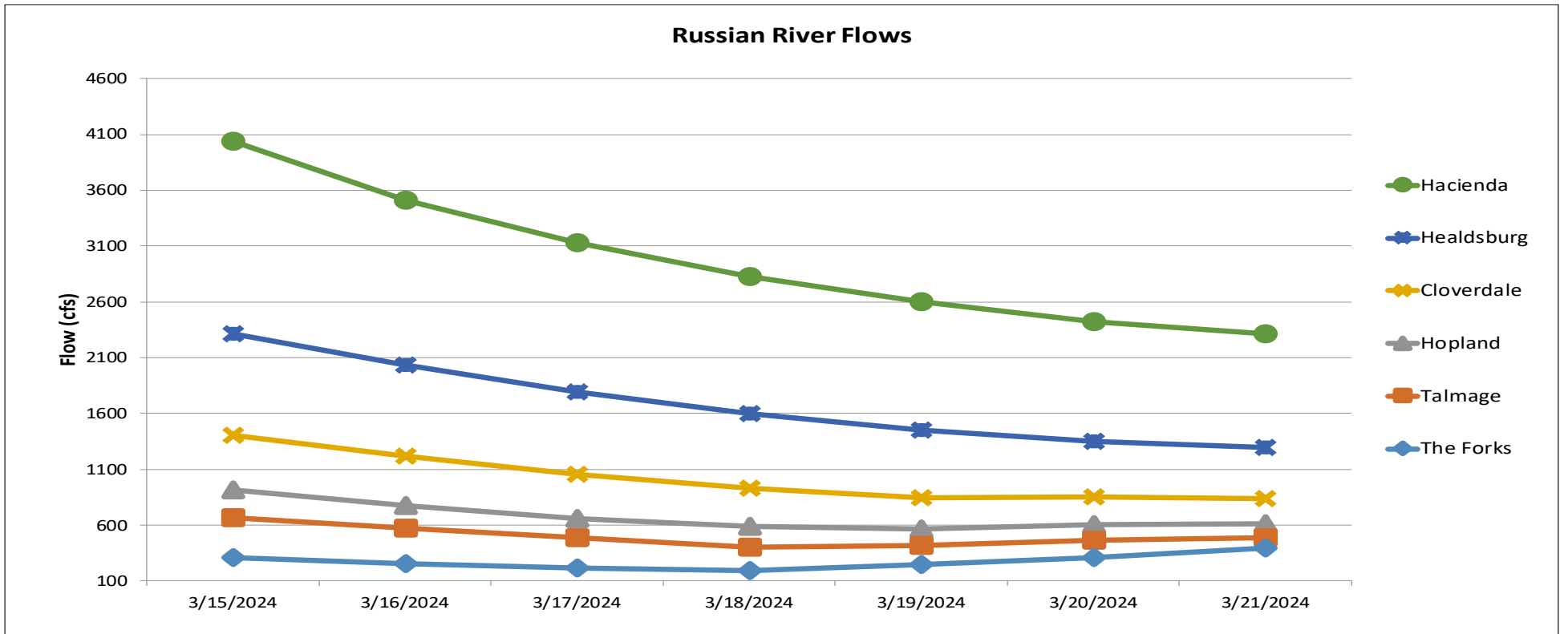
Water Quality Mean Values



Gage	24-hr Average Flow (cfs)						
	Mar 15, 2024	Mar 16, 2024	Mar 17, 2024	Mar 18, 2024	Mar 19, 2024	Mar 20, 2024	Mar 21, 2024
The Forks*	307	256	217	189	246	310	394
Talmage USGS 11462080	670	573	488	398	419	468	488
Hopland USGS 11462500	912	775	661	589	567	606	612
Cloverdale USGS 11463000	1401	1215	1053	930	848	856	838
Healdsburg USGS 11464000	2317	2035	1796	1599	1447	1352	1296
Hacienda USGS 11467000	4035	3514	3126	2828	2600	2424	2312

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

Russian River Flows

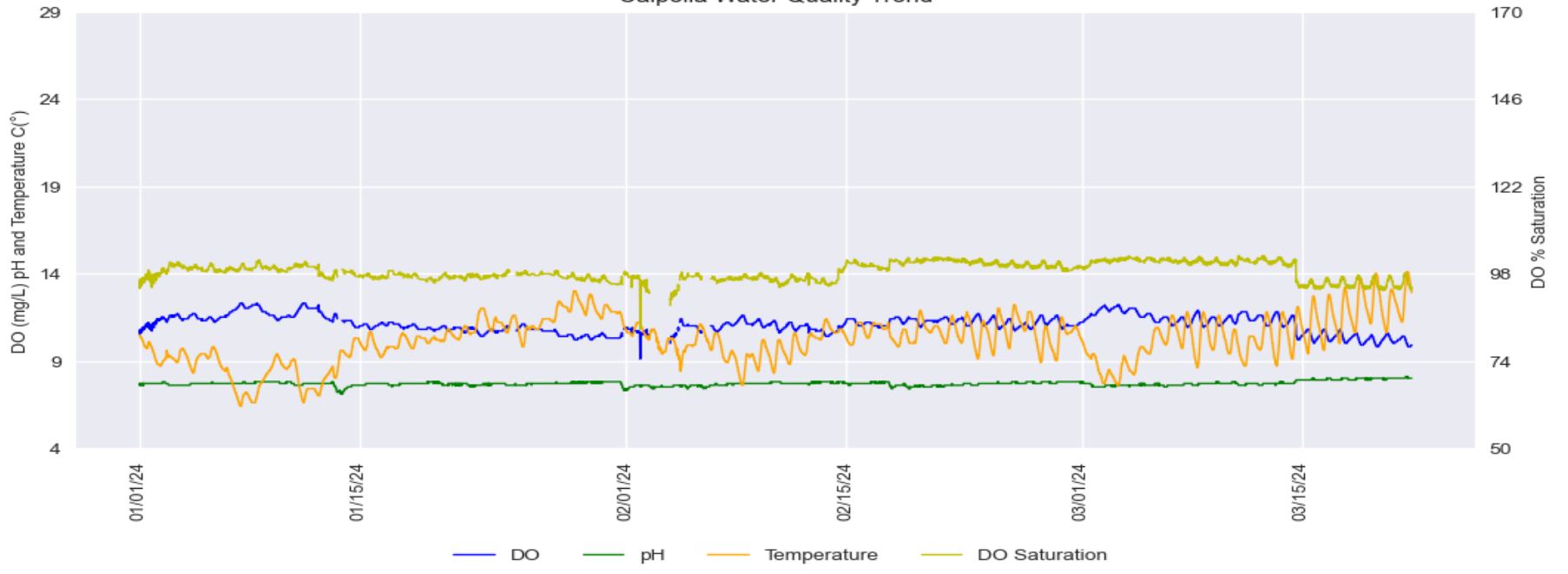


Russian River Water Quality January 1, 2024 – March 21, 2024

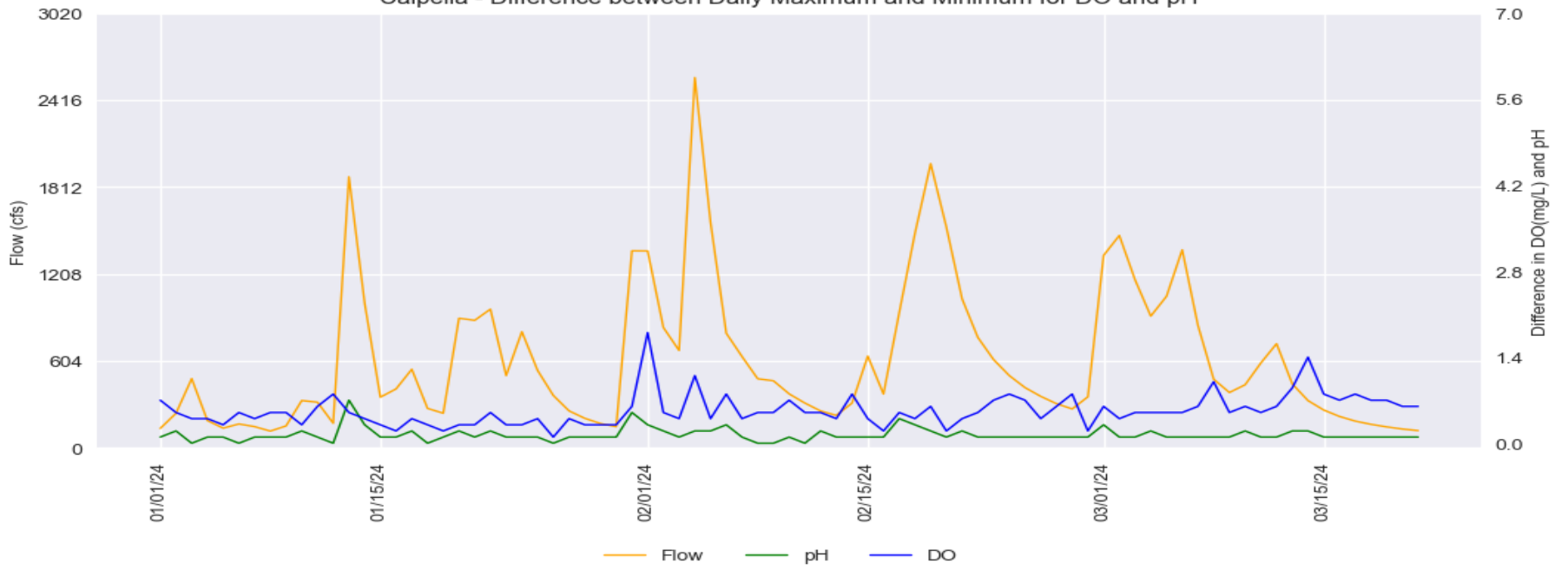
Provisional Data Subject to Revision

Calpella

Calpella Water Quality Trend

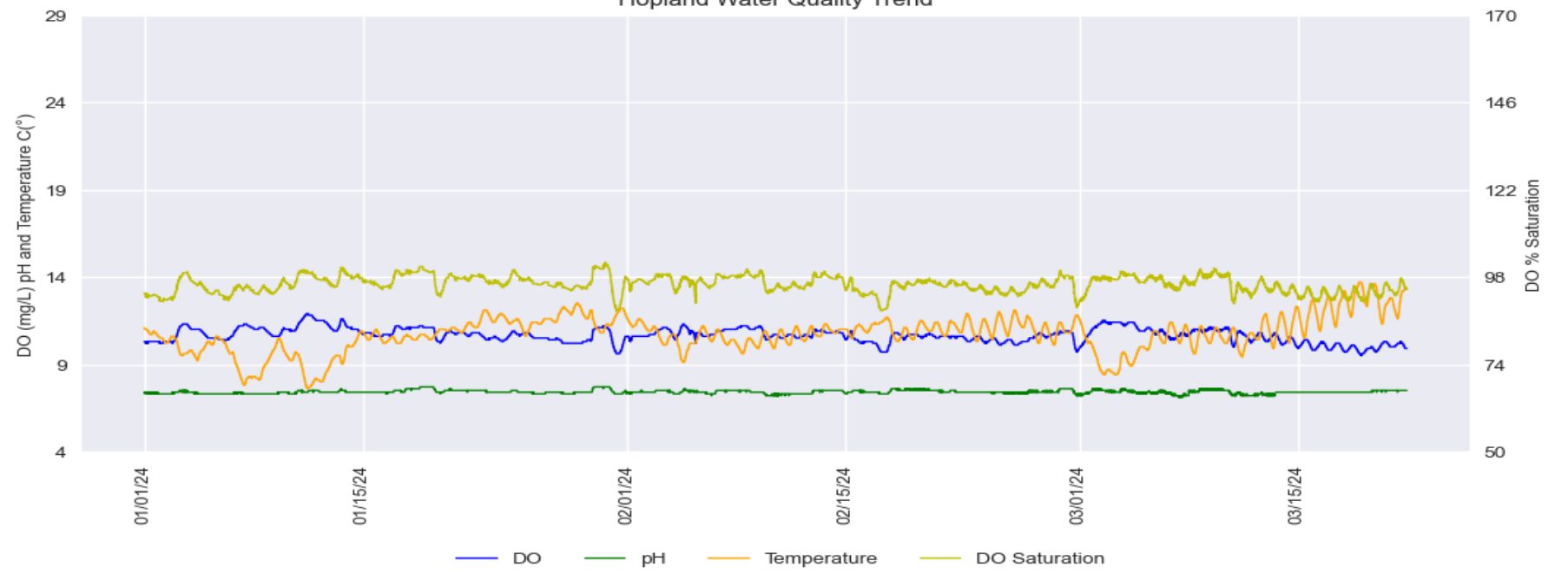


Calpella - Difference between Daily Maximum and Minimum for DO and pH

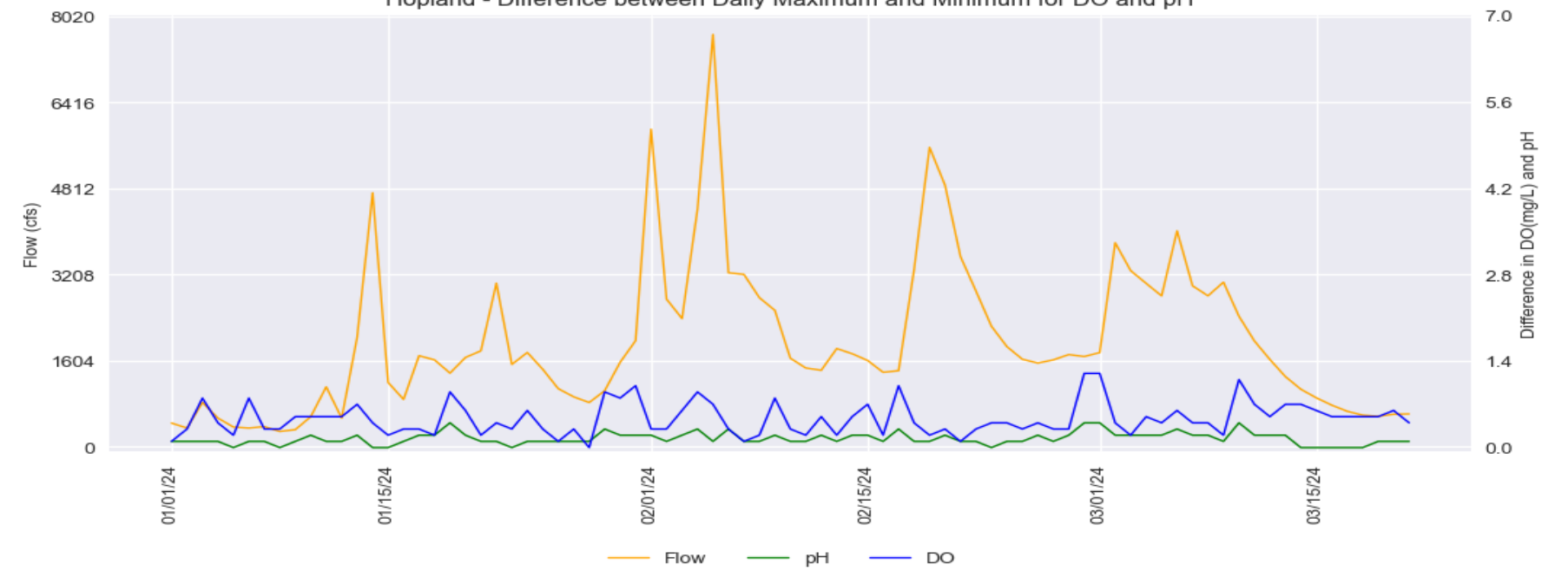


Hopland

Hopland Water Quality Trend



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

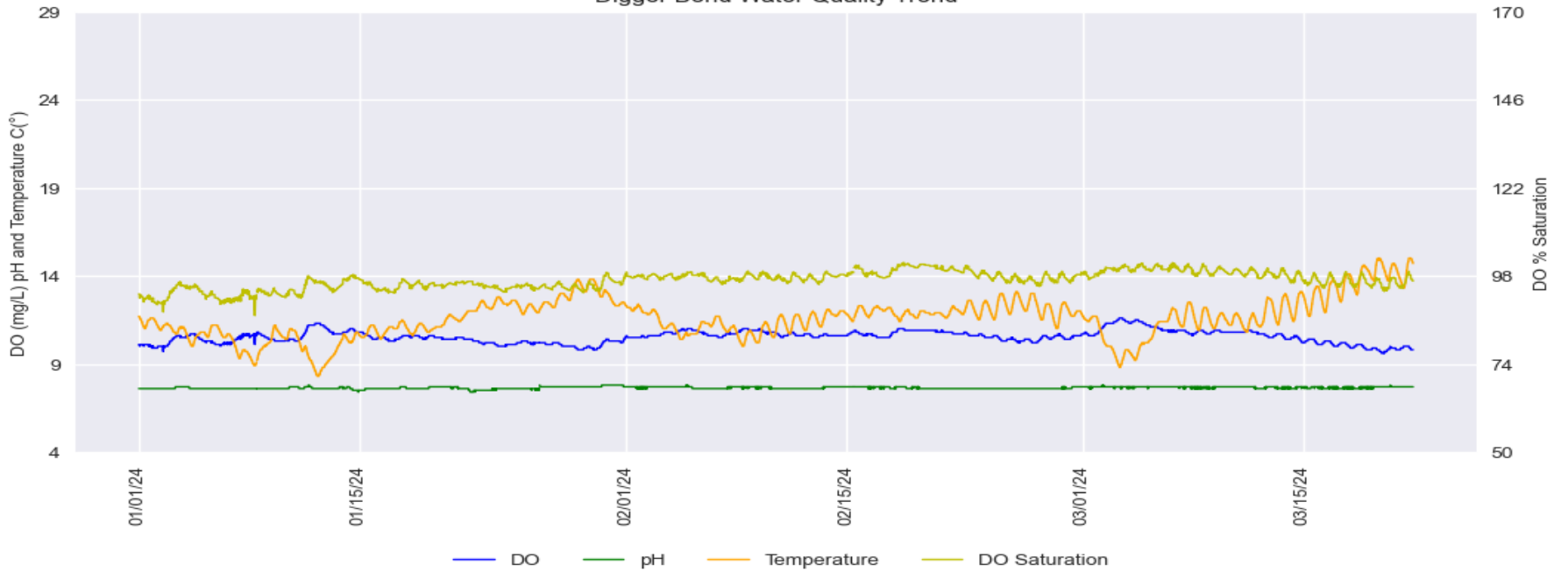


Russian River Water Quality January 1, 2024 – March 21, 2024

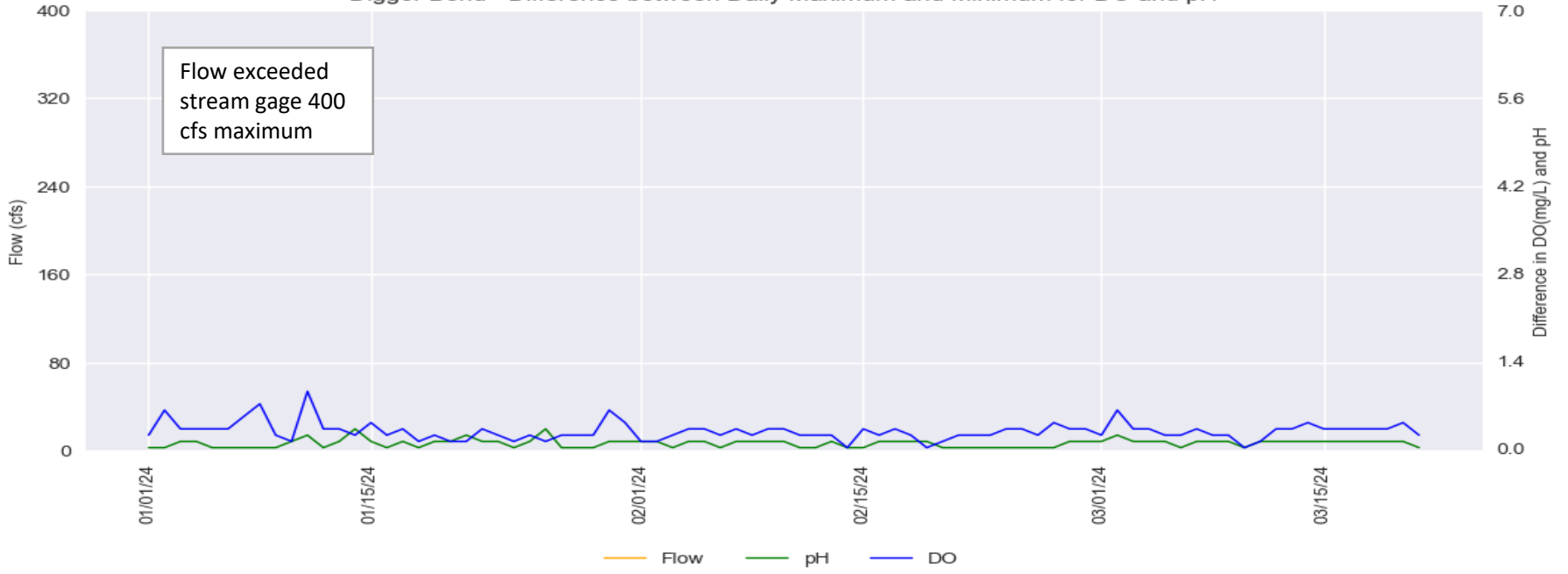
Provisional Data Subject to Revision

Digger Bend

Digger Bend Water Quality Trend

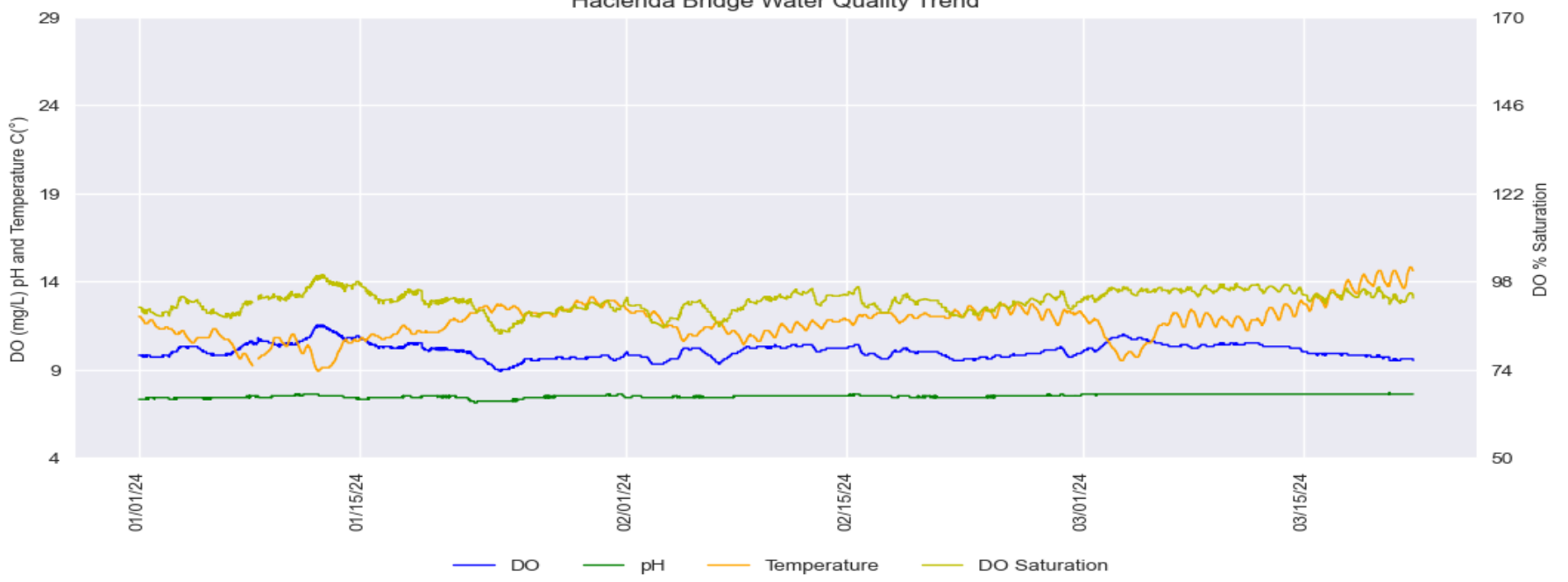


Digger Bend - Difference between Daily Maximum and Minimum for DO and pH

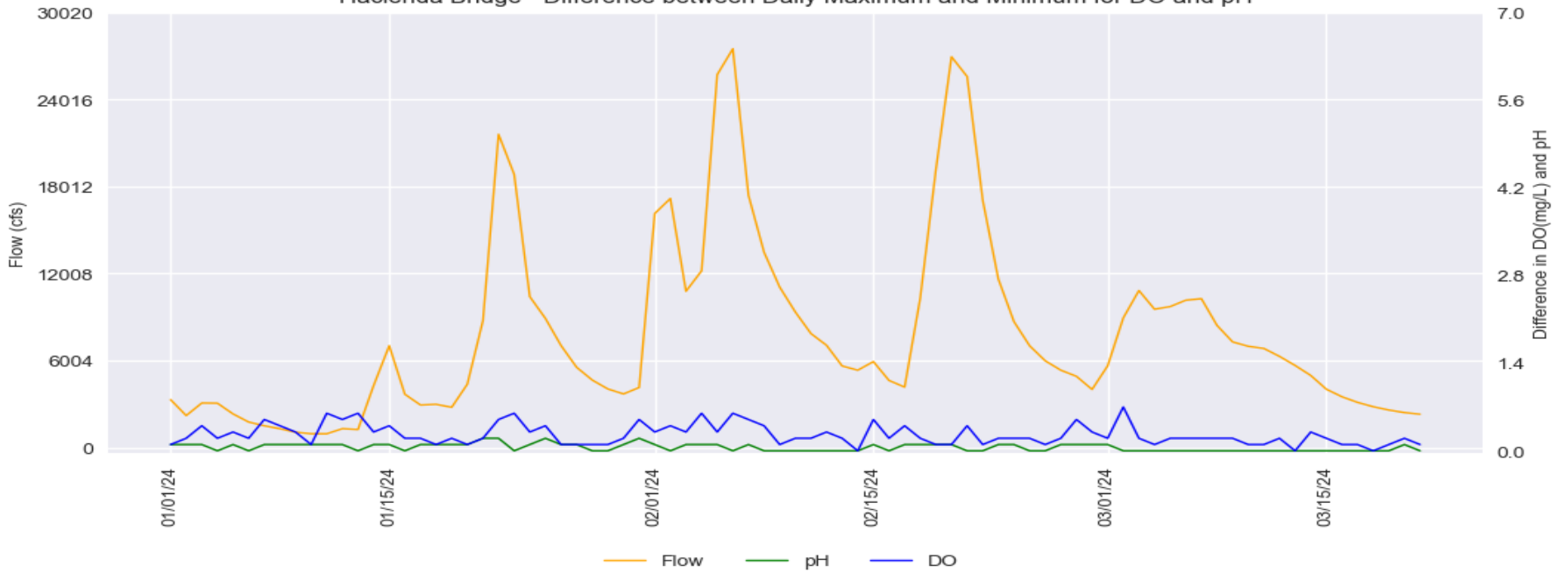


Hacienda Bridge

Hacienda Bridge Water Quality Trend



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

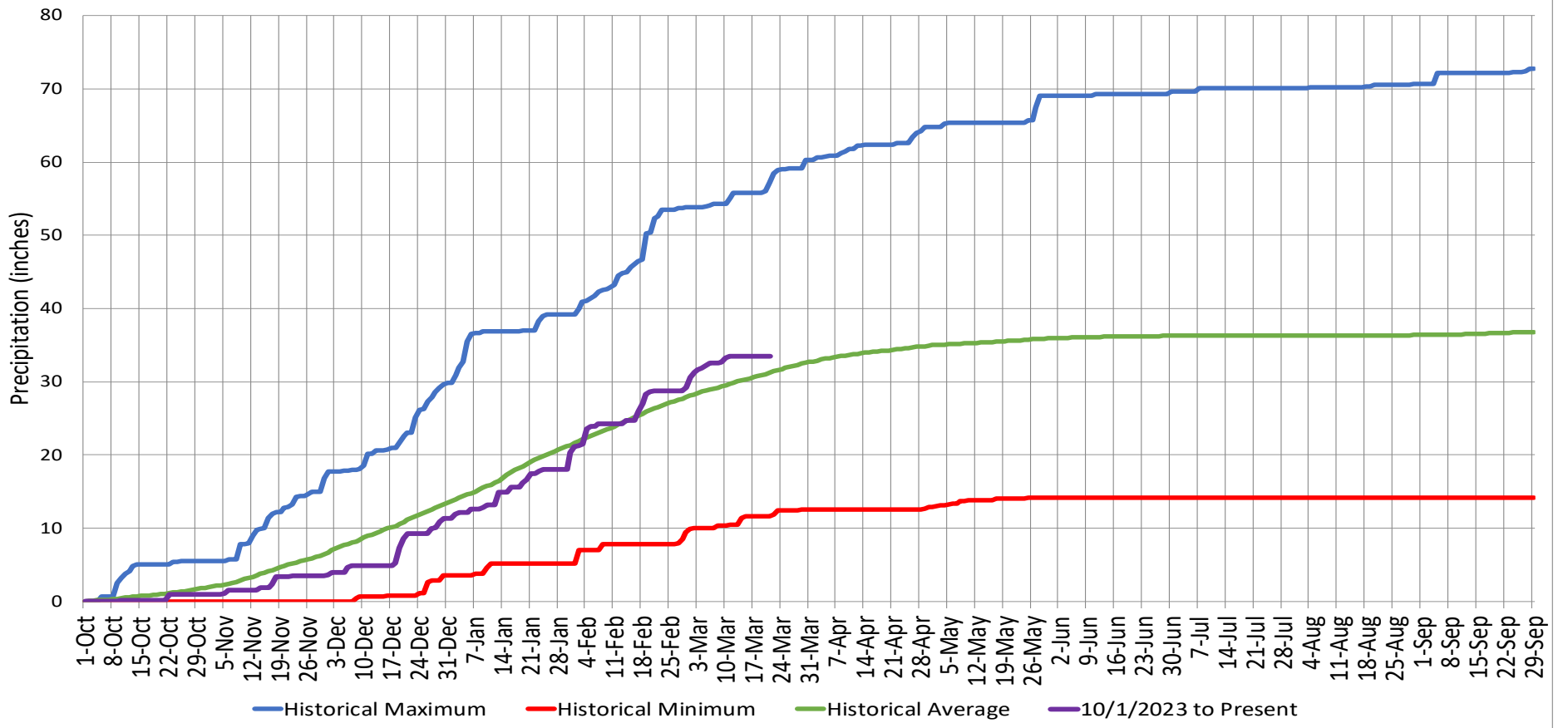


Precipitation

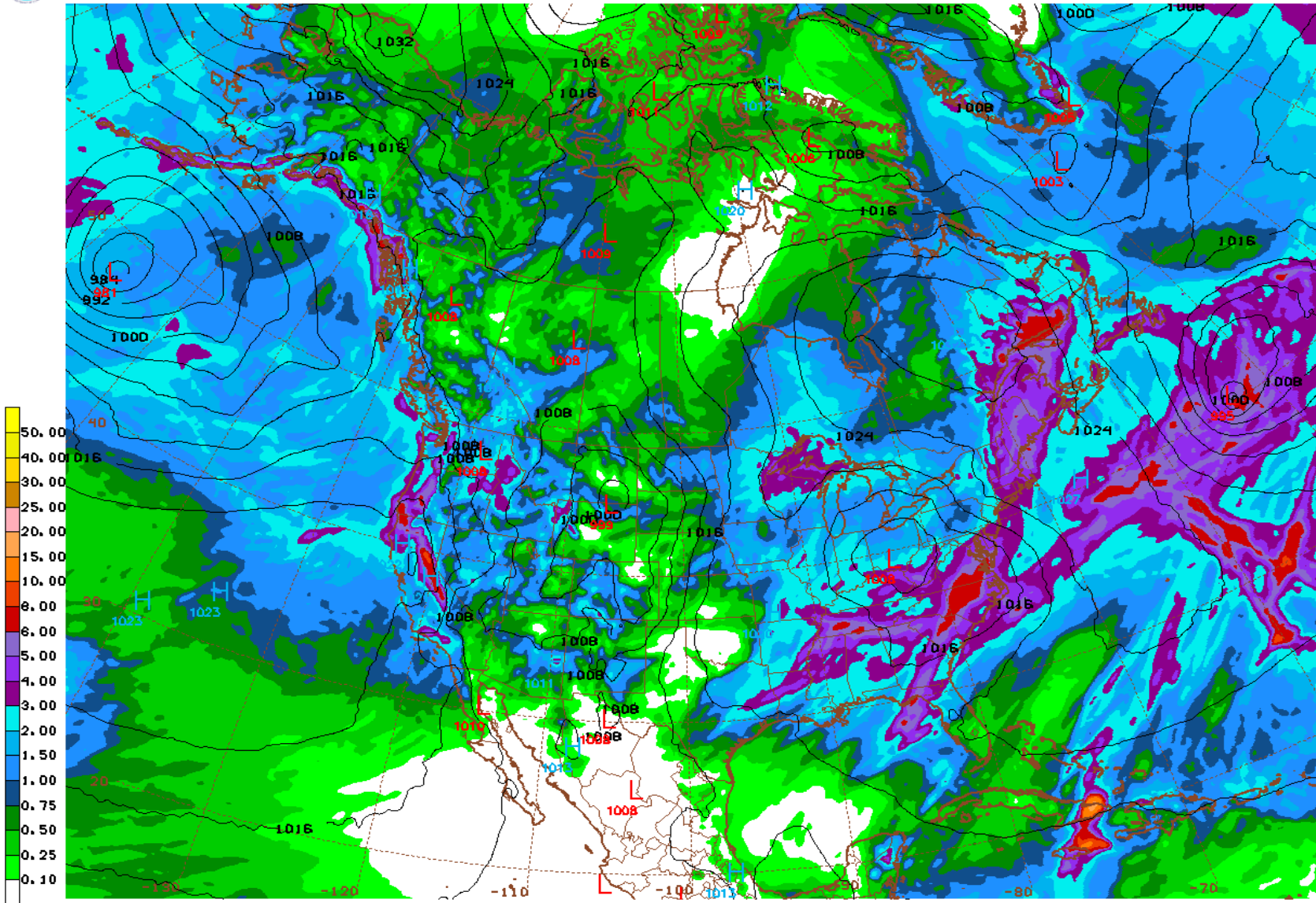
Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))

Date Range	Cumulative (inches)
Oct 1, 2023 - Mar 21, 2024	33.51
Last 7 Days*	0.00

Cumulative Precipitation Comparison of Current Year versus Historic Record



6FS 03/25/24 12UTC 384HR FCST VALID WED 04/10/24 12UTC NOAA/NWS/NCEP



6FS WED 240410/1200V384 ENSL (4MB), 384HR ACCUMULATED PRECIP (IN)
 Date Range: Mar 25 - Apr 10, 2024
 Forecasted Cumulative (inches): **2.56**