



State Water Resources Control Board  
 Temporary Urgency Change Order (12/27/2023)  
 Russian River Hydrologic & Water Quality Report  
 March 22, 2024 - March 28, 2024

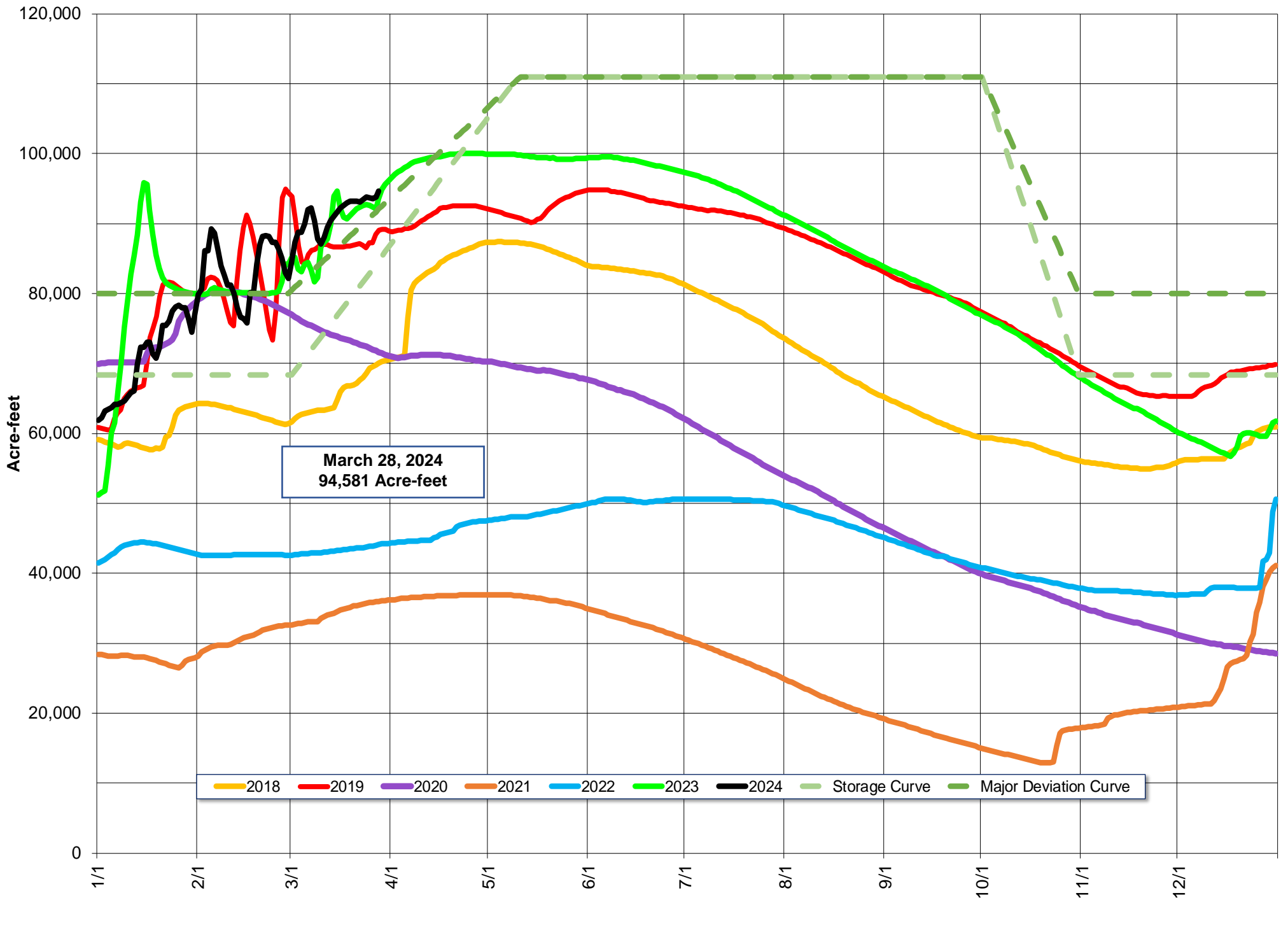
Prepared as a requirement of the Order approving Sonoma Water's Petition for Temporary Urgency Change in Permits 12947A, 12949, 12950, and 16596 (Applications 12919A, 15736, 15737, and 19351).

**Instream Flow Requirements as of March 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	75	-
Modified Per Order: Normal Condition	Lower Russian River	125	-

**Lake Mendocino**

**Lake Mendocino Storage 2018 - 2024 and Storage Curve**



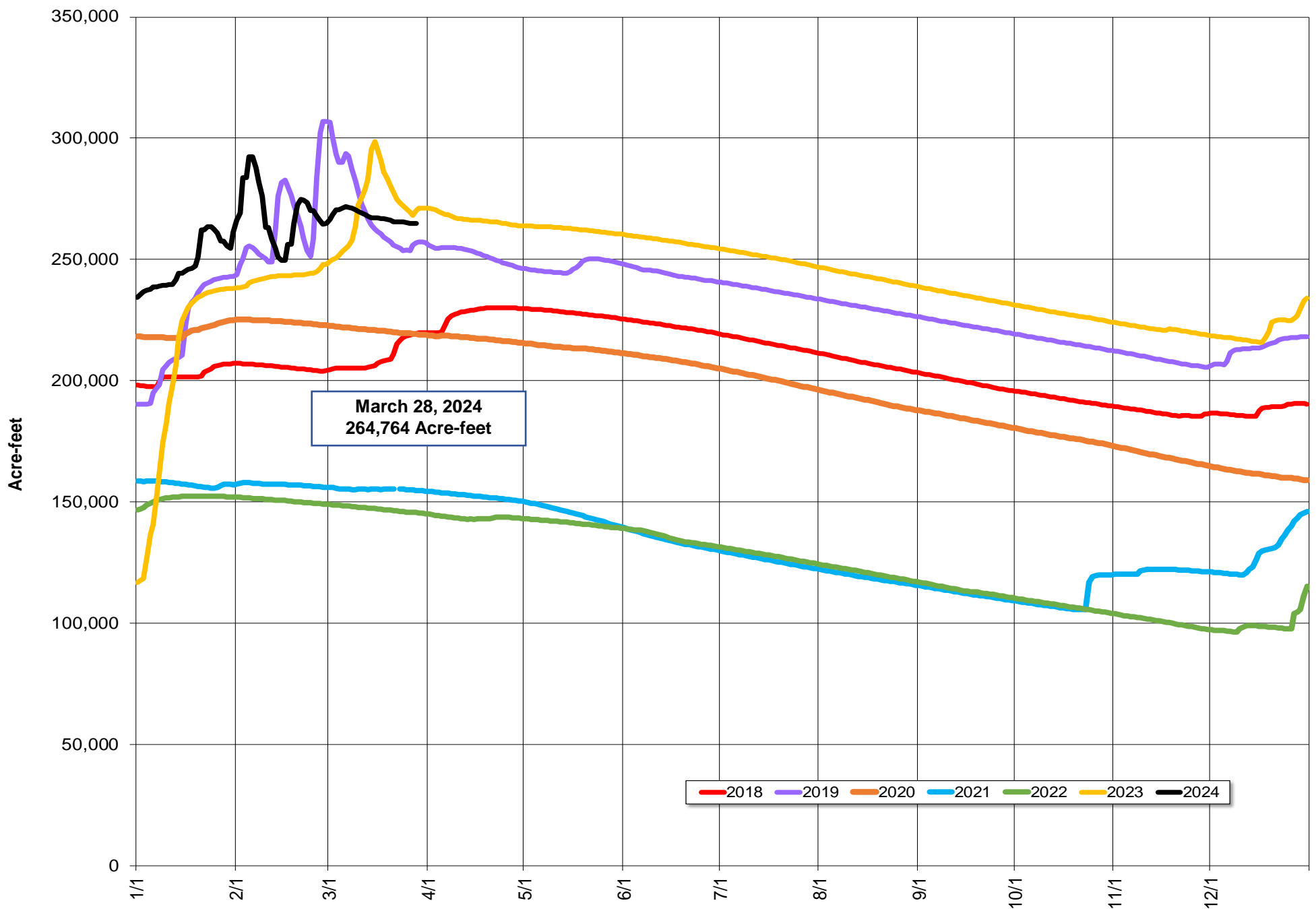
Storage (acre-feet)	March 28, 2024	<b>94,581</b>	
Change in Storage (acre-feet)	Last 30 days	<b>9,554</b>	<b>318</b>
	Last 7 days	<b>1,467</b>	<b>210</b>
Daily Inflow (cfs)	Last 7 days	Min	<b>272</b>
		Max	<b>535</b>
		Mean	<b>413</b>
Release (cfs)	Last 7 days	Min	<b>74</b>
		Max	<b>448</b>
		Mean	<b>244</b>

# Lake Sonoma



Todd Schram, February 10, 2024

## Lake Sonoma Storage 2018-2024



Storage (acre-feet)	March 28, 2024	<b>264,764</b>	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	<b>-946</b>	<b>-32</b>
	Last 7 days	<b>-890</b>	<b>-127</b>
Daily Inflow (cfs)	Last 7 days	Min	<b>302</b>
		Max	<b>863</b>
		Mean	<b>843</b>
Release (cfs)	Last 7 days	Min	<b>489</b>
		Max	<b>493</b>
		Mean	<b>490</b>

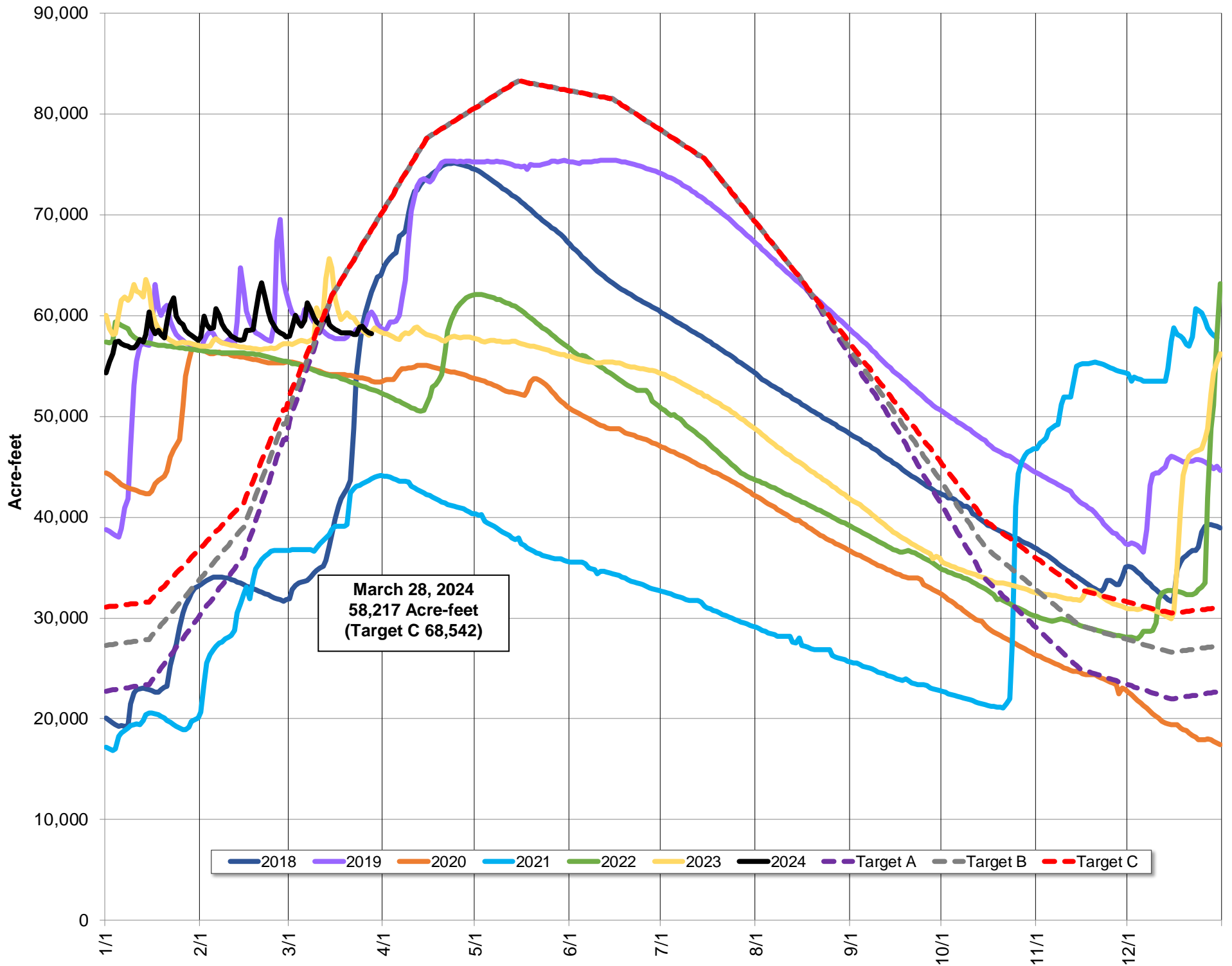
# Potter Valley Project

PVP Diversion (cfs)	March 28, 2024	46
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Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2023 - March 28, 2024	392,046	2,178
	Last 7 days	18,511	2,644

\*Inflow calculation based on criteria established in D1610

### Lake Pillsbury Storage 2018 - 2024 and Target Storage Scenarios

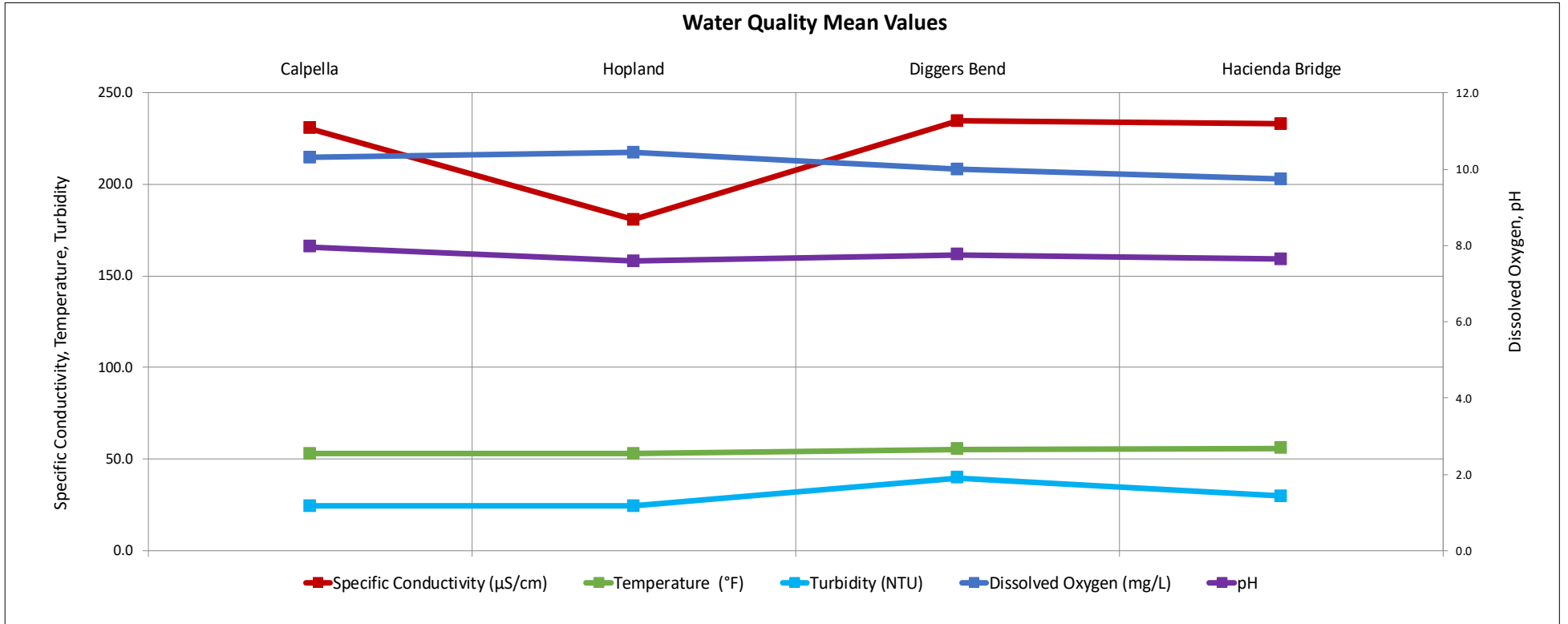


## Russian River Flows (March 22, 2024 - March 28, 2024)

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	50.2	50.7		52.7	52.9		54.1	
	Max	55.6	55.9		57.9	58.5		58.1	
	Mean	52.9	52.9		54.9	55.4		55.8	
Specific Conductivity (µS/cm)	Min	191.0	132.0			193.0		202.0	
	Max	253.0	211.0			276.0		259.0	
	Mean	230.5	180.8			234.7		233.2	
Dissolved Oxygen (mg/L)	Min	9.9	9.9			9.6		9.4	
	Max	10.8	11.0			10.5		10.1	
	Mean	10.3	10.4			10.0		9.7	
Dissolved Oxygen (% Saturation)	Min	92.9	93.0			90.9		89.6	
	Max	98.0	100.0			98.7		95.8	
	Mean	94.8	96.0			94.8		92.8	
pH	Min	7.8	7.5			7.6		7.6	
	Max	8.1	7.8			7.9		7.7	
	Mean	8.0	7.6			7.8		7.6	
Turbidity (NTU)	Min	9.3	11.2			12.0		14.4	
	Max	130.0	121.0			306.0		135.0	
	Mean	24.4	24.2			39.7		29.7	

\*Station operated seasonally

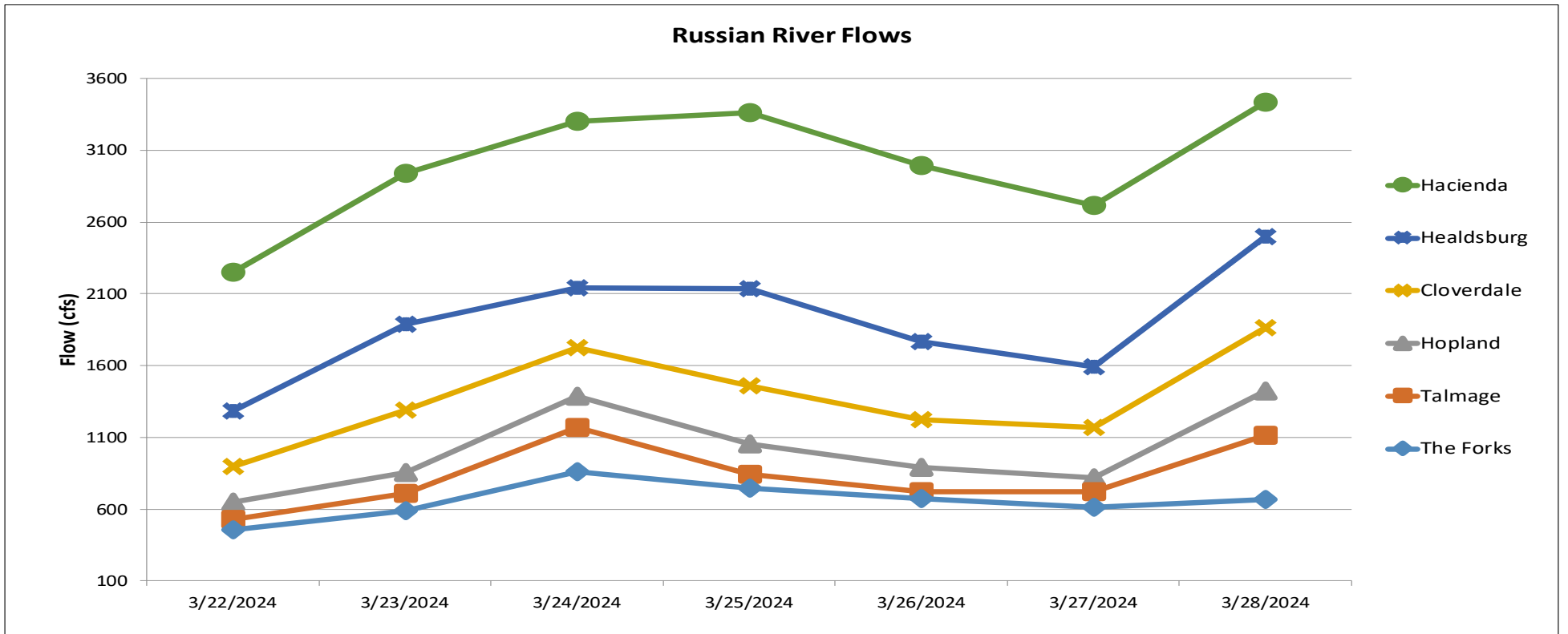
### Water Quality Mean Values



Gage	24-hr Average Flow (cfs)						
	Mar 22, 2024	Mar 23, 2024	Mar 24, 2024	Mar 25, 2024	Mar 26, 2024	Mar 27, 2024	Mar 28, 2024
The Forks*	457	587	858	746	673	616	669
Talmage USGS 11462080	527	712	1168	841	721	723	1114
Hopland USGS 11462500	649	854	1388	1055	889	817	1421
Cloverdale USGS 11463000	895	1290	1726	1460	1220	1169	1863
Healdsburg USGS 11464000	1285	1890	2139	2133	1765	1590	2500
Hacienda USGS 11467000	2251	2942	3303	3364	2994	2718	3433

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

### Russian River Flows



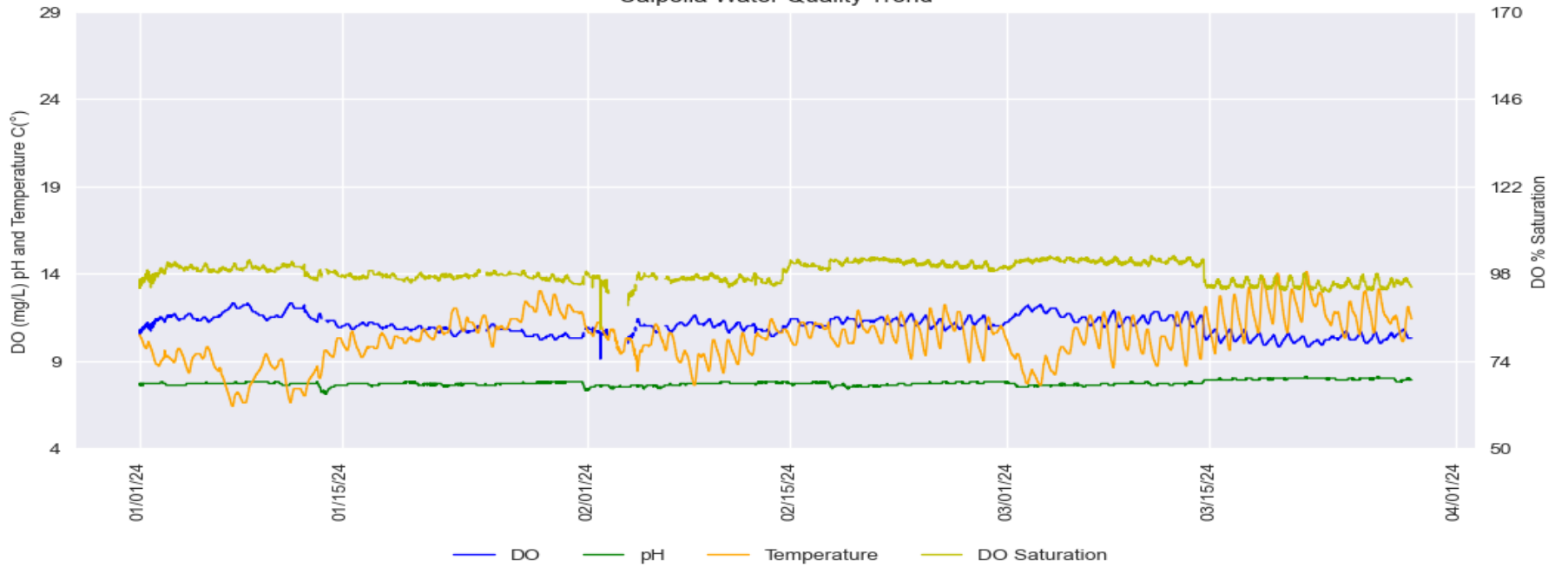


Russian River Water Quality January 1, 2024 – March 28, 2024

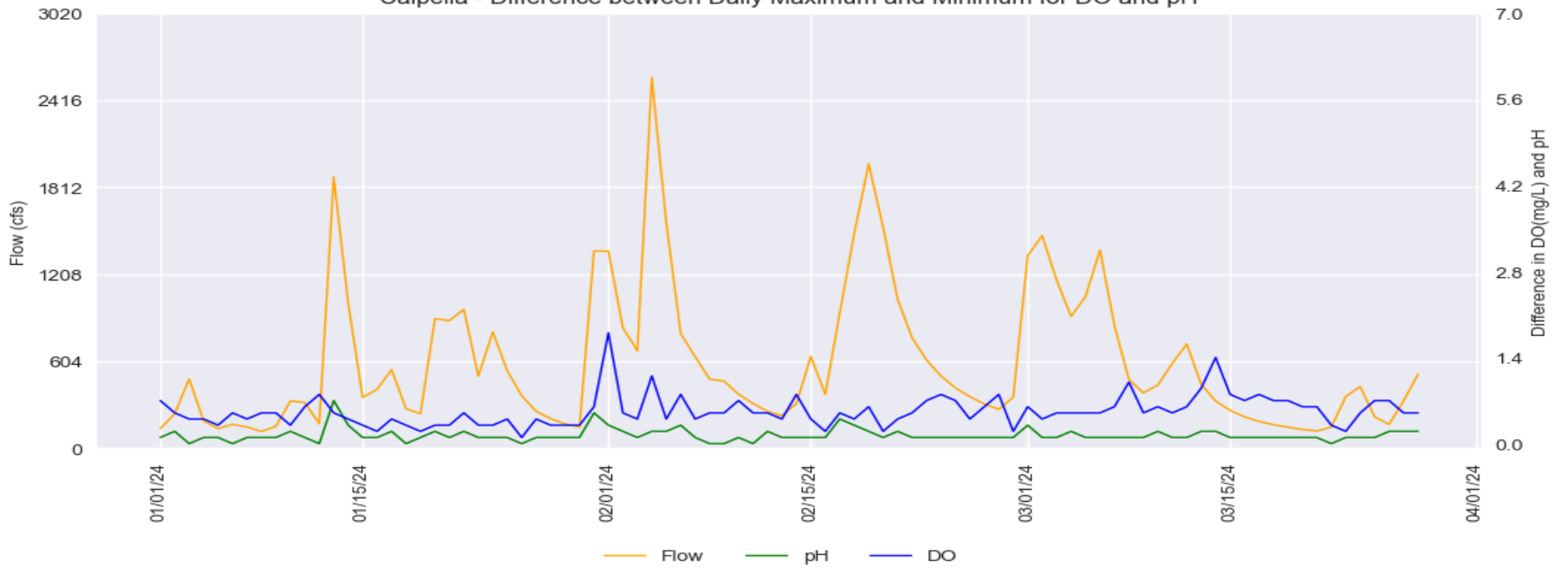
Provisional Data Subject to Revision

**Calpella**

Calpella Water Quality Trend

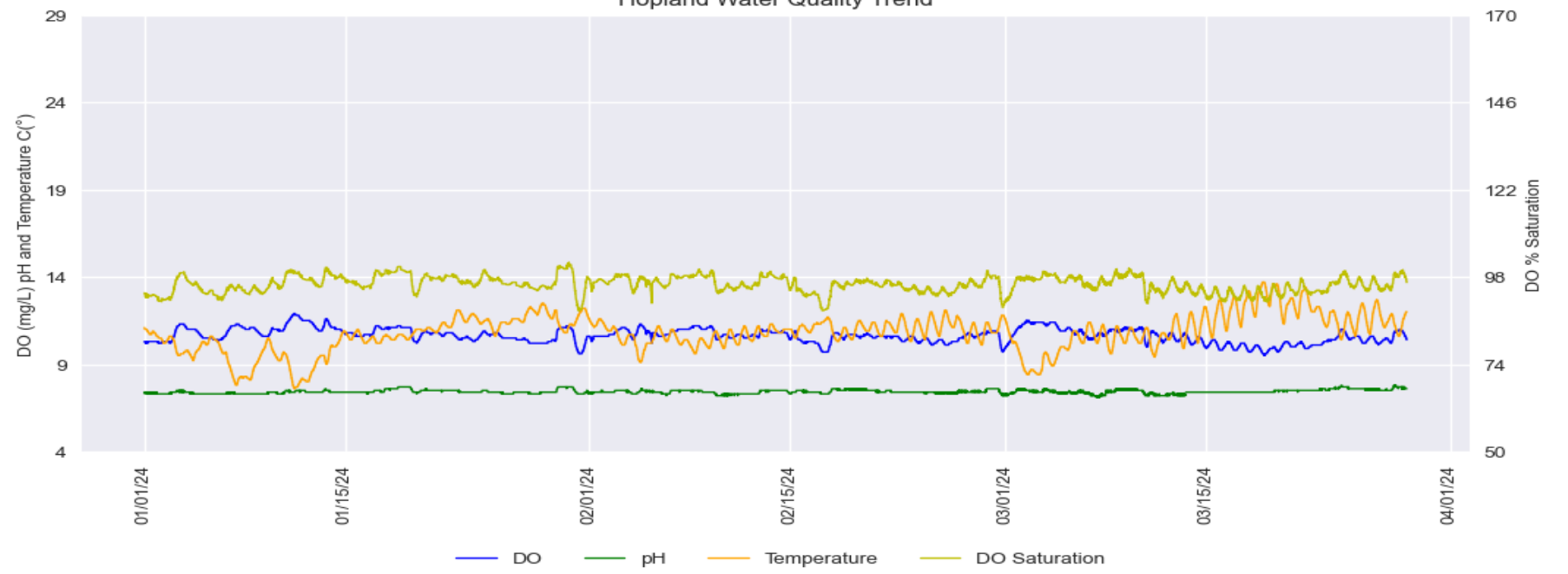


Calpella - Difference between Daily Maximum and Minimum for DO and pH

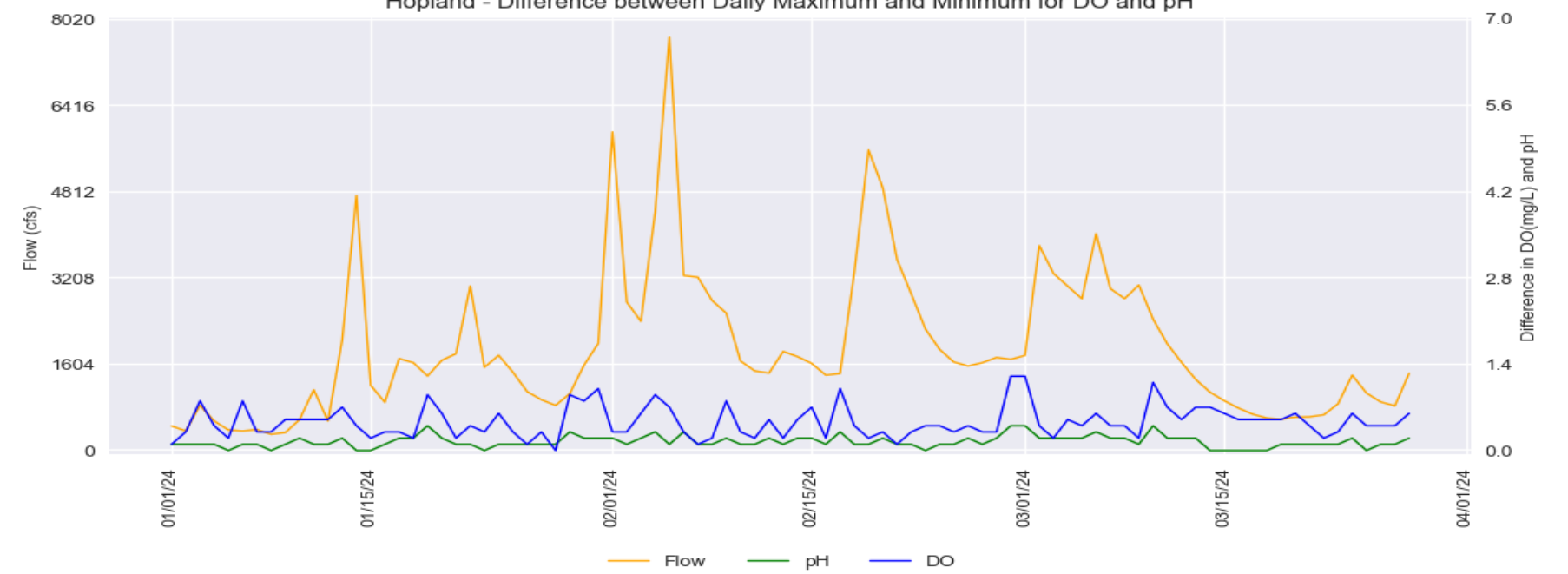


**Hopland**

Hopland Water Quality Trend



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

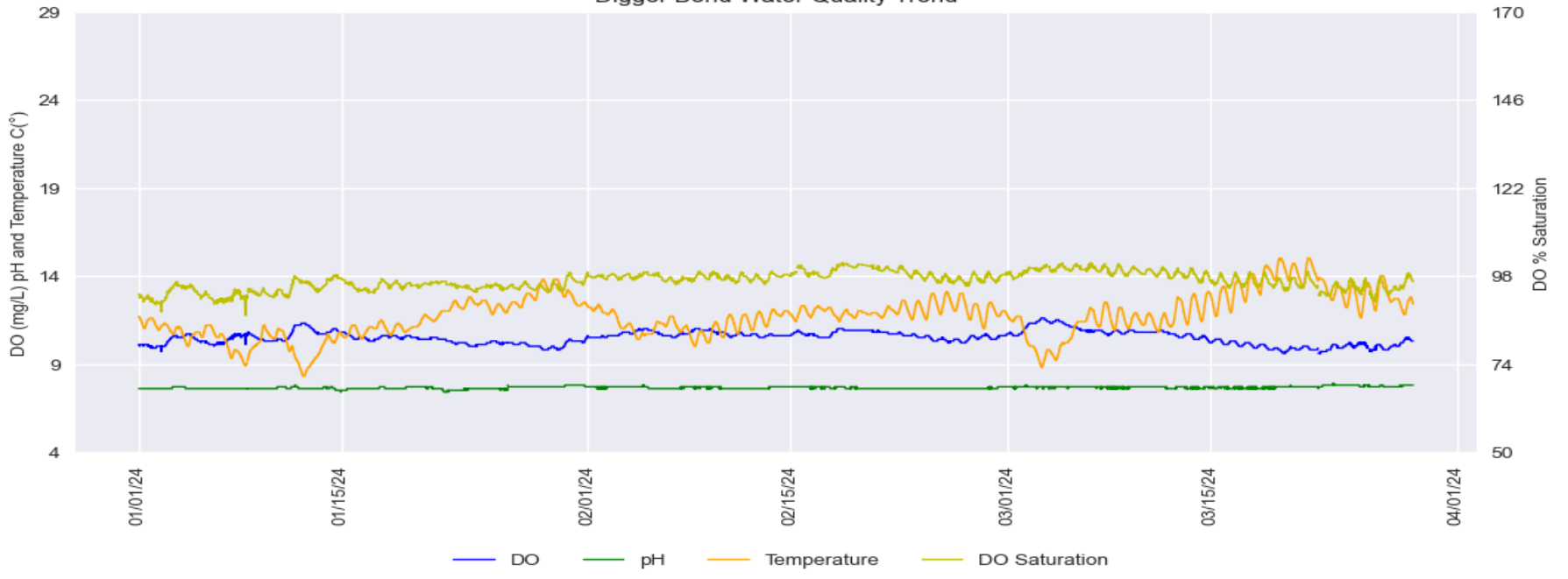


Russian River Water Quality January 1, 2024 – March 28, 2024

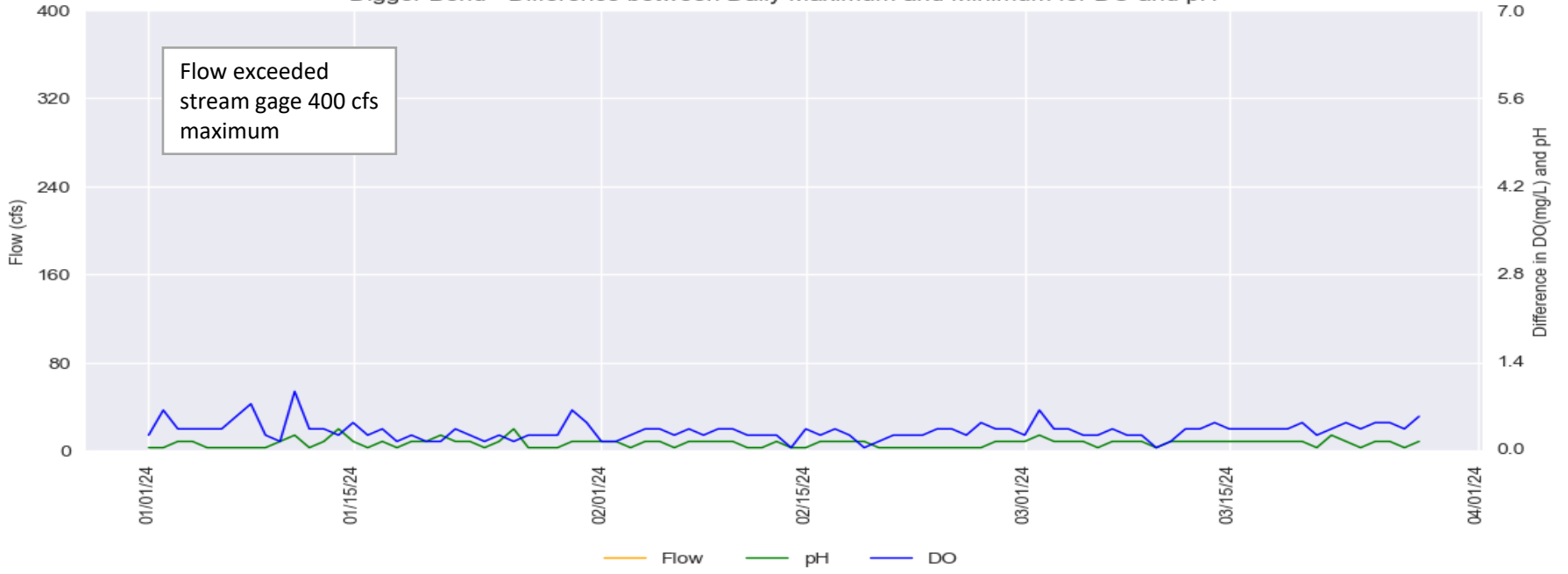
Provisional Data Subject to Revision

**Digger Bend**

Digger Bend Water Quality Trend

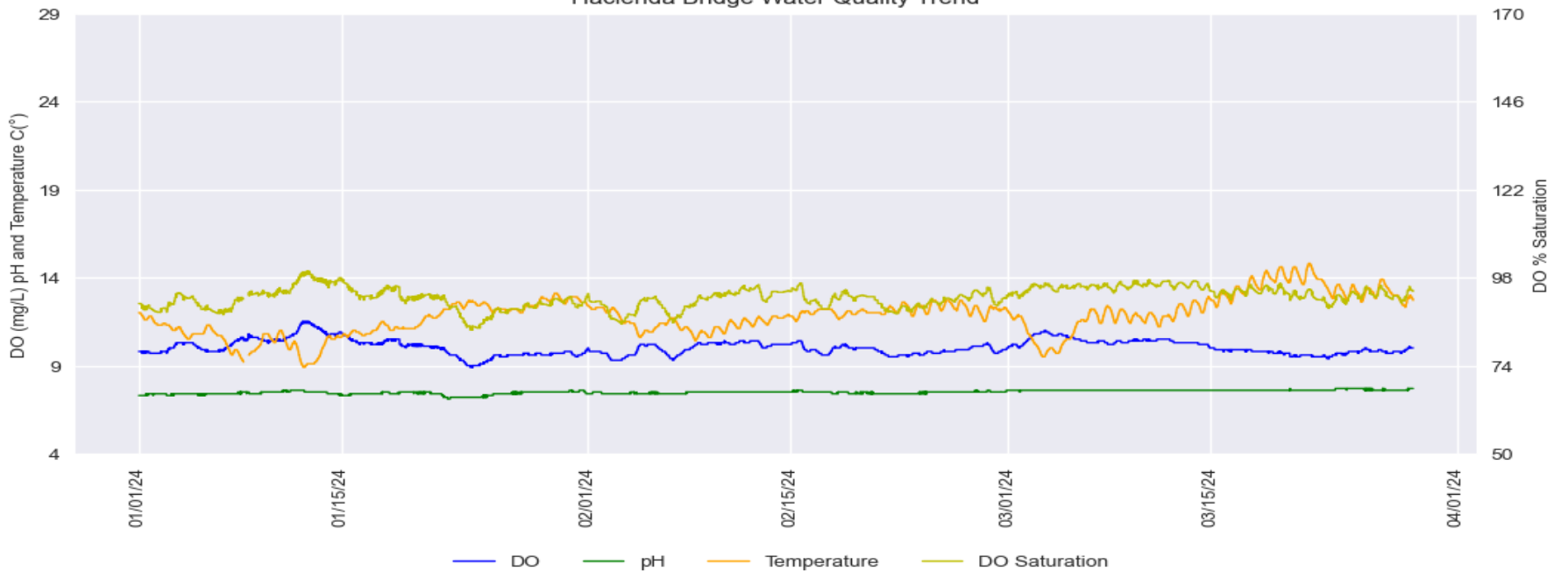


Digger Bend - Difference between Daily Maximum and Minimum for DO and pH

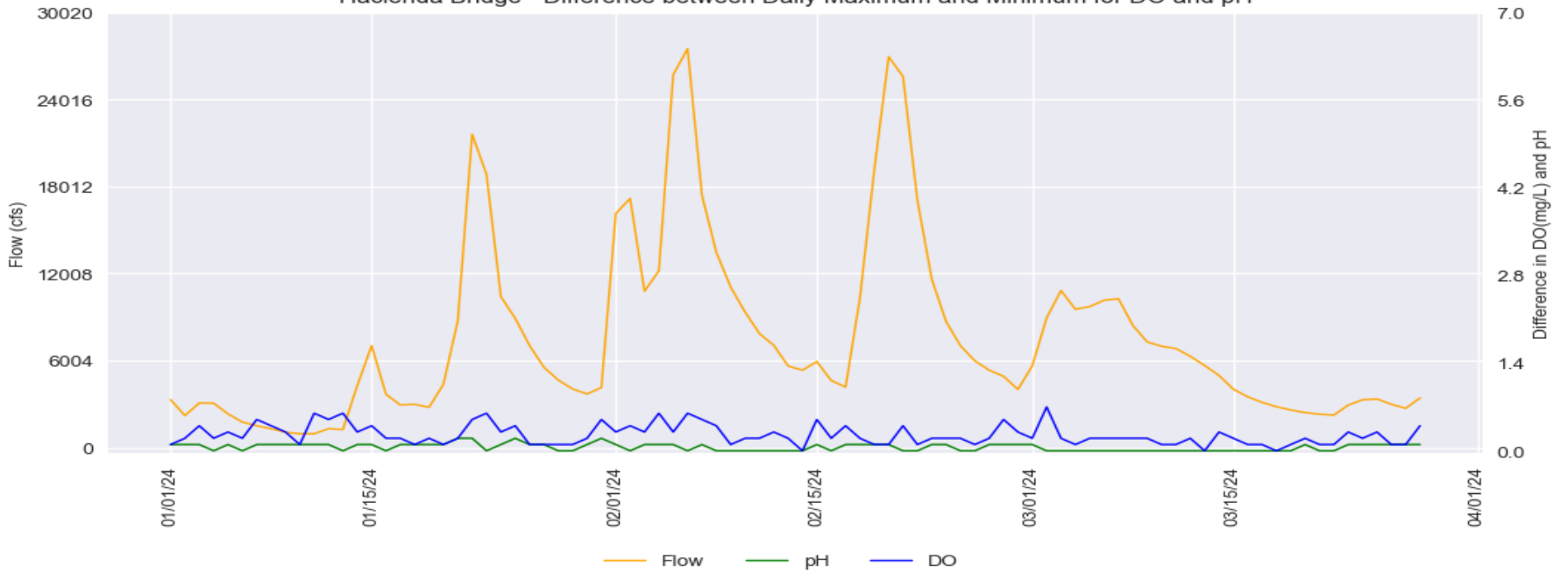


**Hacienda Bridge**

Hacienda Bridge Water Quality Trend



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

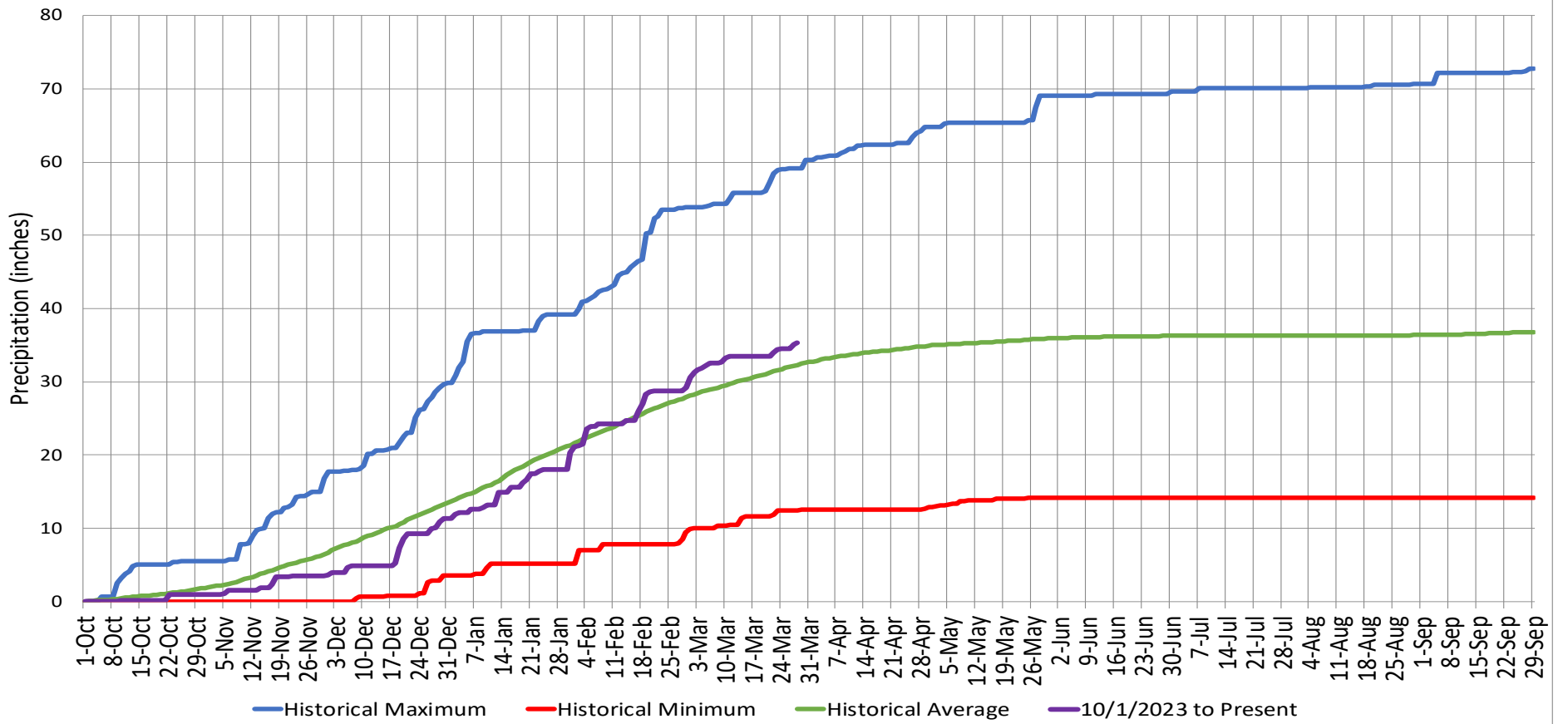


# Precipitation

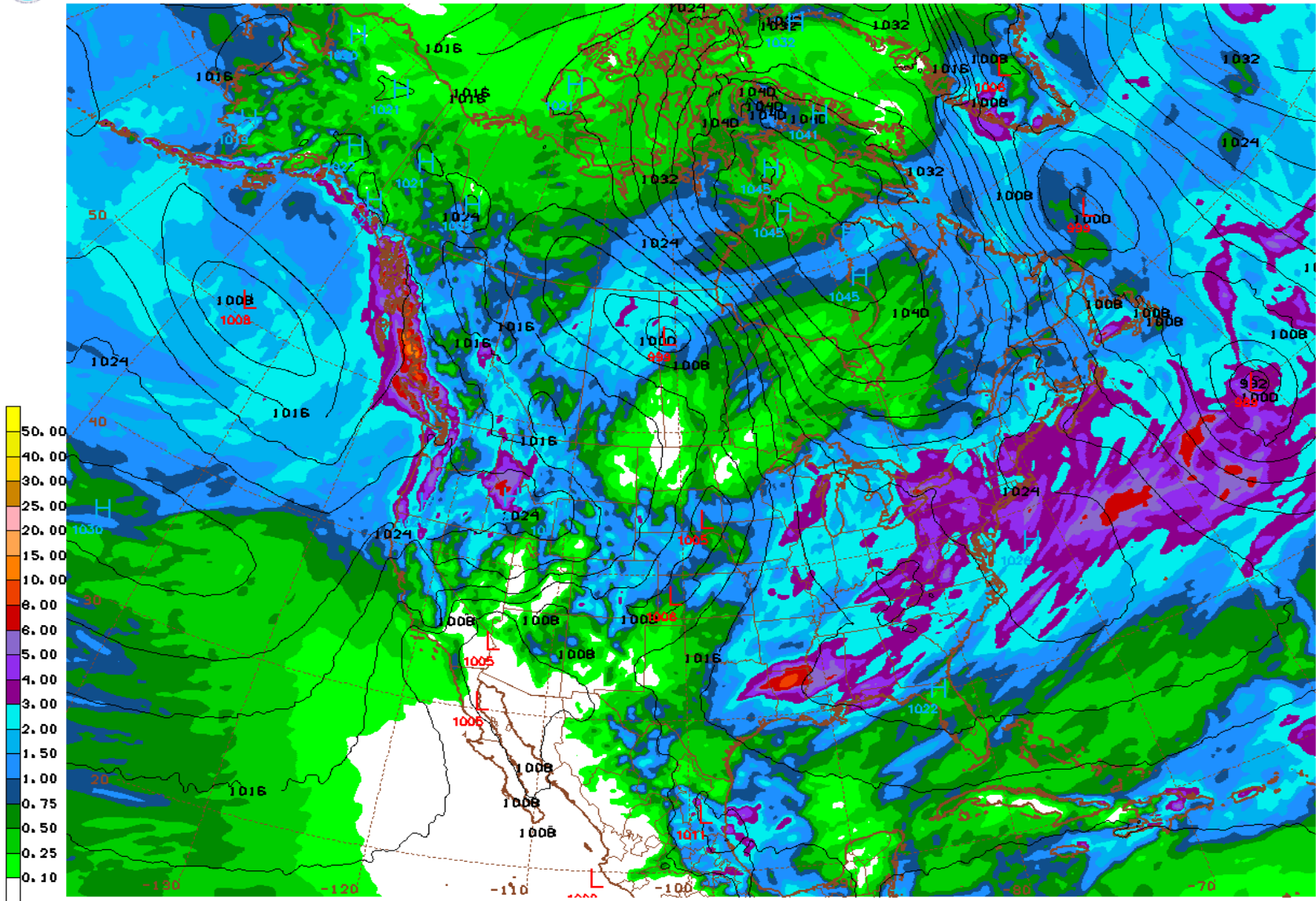
Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))

Date Range	Cumulative (inches)
Oct 1, 2023 - Mar 28, 2024	<b>35.35</b>
Last 7 Days*	<b>1.84</b>

Cumulative Precipitation Comparison of Current Year versus Historic Record



6FS 04/02/24 12UTC 384HR FCST VALID THU 04/18/24 12UTC NOAA/NMS/NCEP



6FS THU 240418/1200V384 EMSL (4MB), 384HR ACCUMULATED PRECIP (IN)

Date Range  
Apr 2 - Apr 18, 2024

Forecasted Cumulative (inches)  
**0.71**