



State Water Resources Control Board
 Temporary Urgency Change Orders (12/27/2023 & 6/6/2024)
 Russian River Hydrologic & Water Quality Report
 July 19, 2024 - July 25, 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).

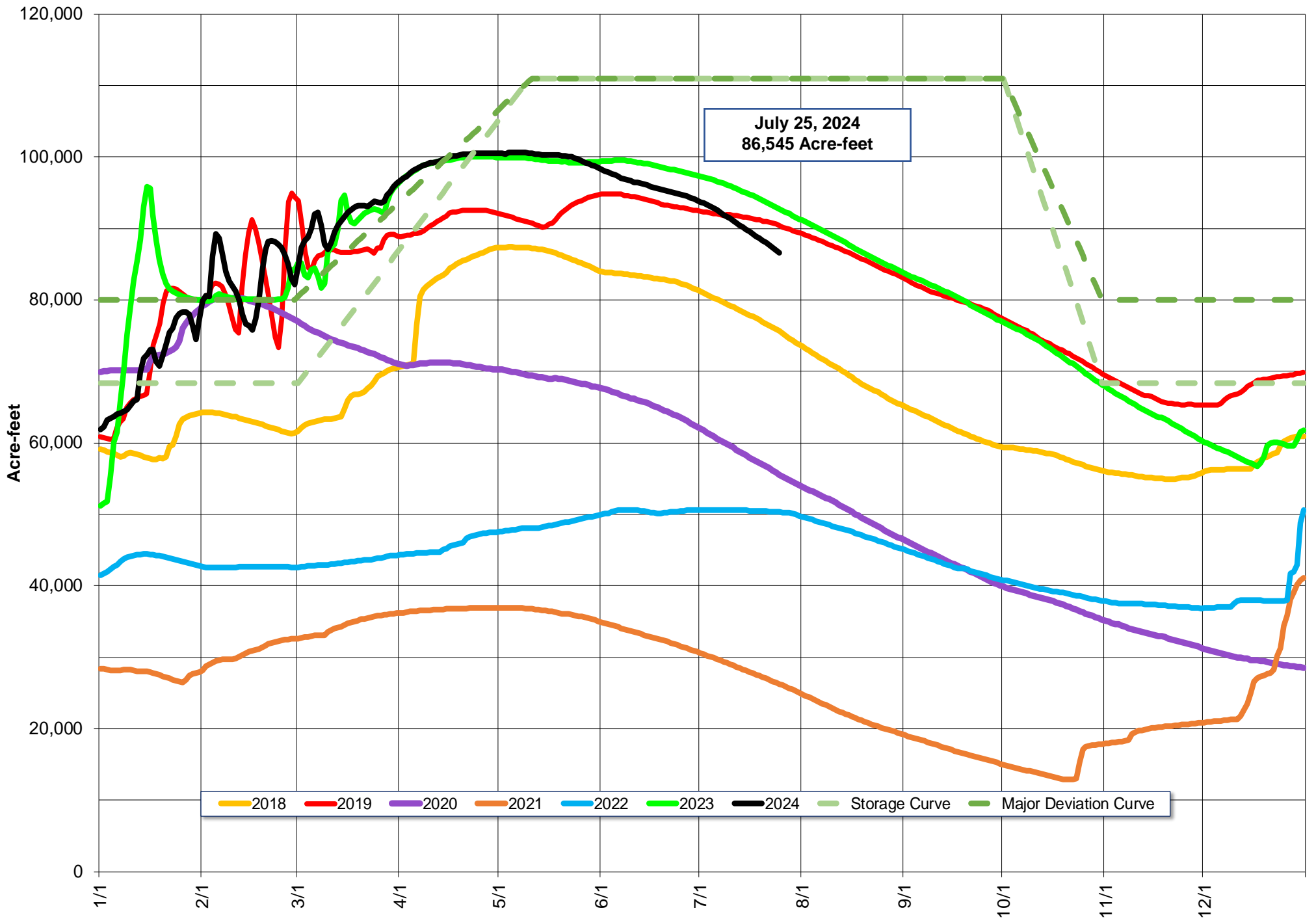
Instream Flow Requirements as of July 25, 2024

Basis	Reach	Instantaneous (cfs)	5-day Average (cfs)
Modified Per Order: Normal Condition	Upper Russian River	110	125
D-1610: Normal Condition	Dry Creek	80	-
Modified Per Order: Normal Condition	Lower Russian River	60	70

Upper and Lower Russian River are based on criteria as established in the Order issued 6/6/2024.

Lake Mendocino

Lake Mendocino Storage 2018 - 2024 and Storage Curve



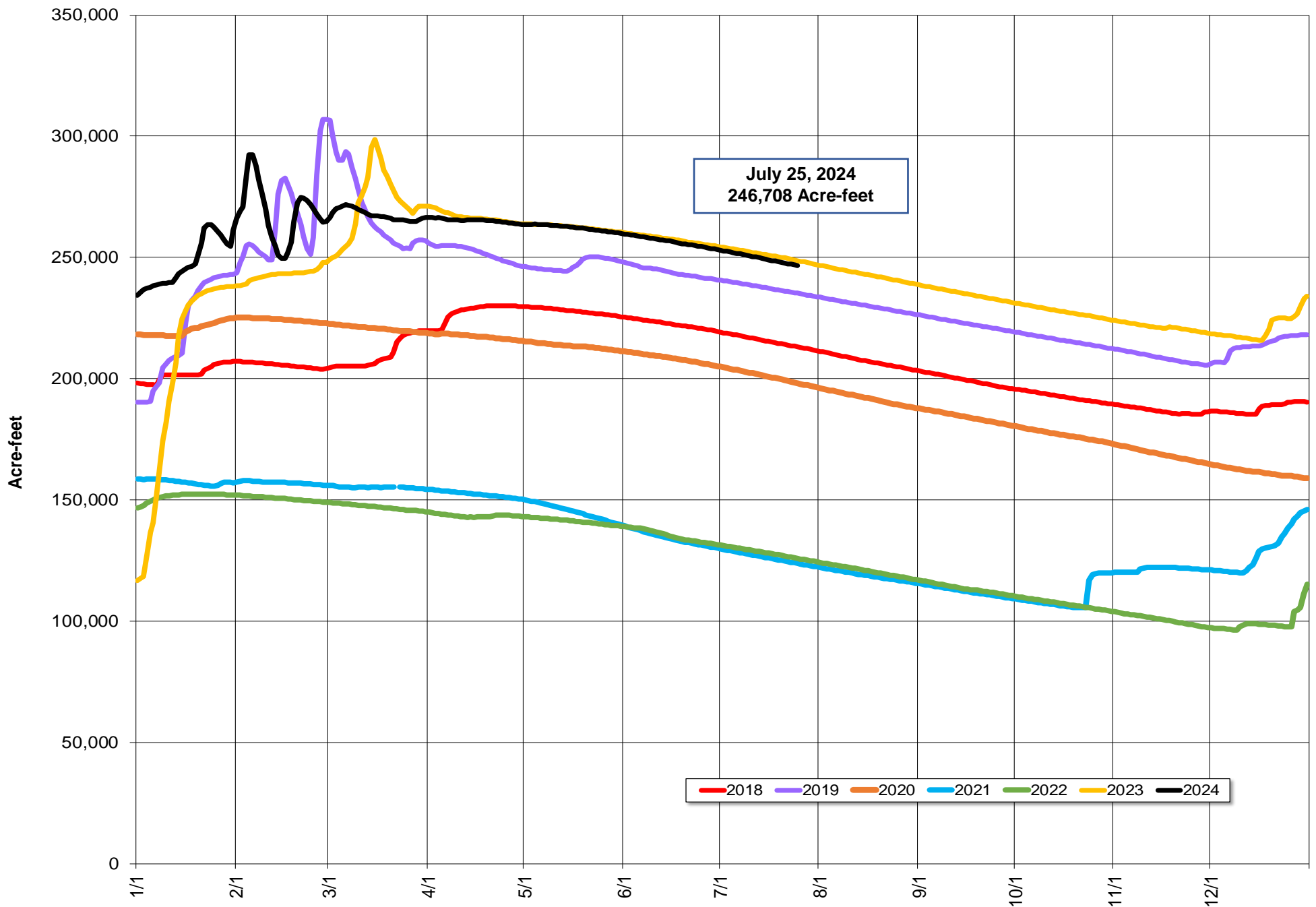
Storage (acre-feet)	July 25, 2024	86,545	
Change in Storage (acre-feet)	Last 30 days	Total	Average Daily Rate
	Last 7 days	-8,231	-274
Daily Inflow (cfs)	Last 7 days	Min	49
		Max	87
		Mean	74
Release (cfs)	Last 7 days	Min	209
		Max	236
		Mean	228

Lake Sonoma



Todd Schram, February 10, 2024

Lake Sonoma Storage 2018-2024



Storage (acre-feet)	July 25, 2024	246,708	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	-7,741	-258
	Last 7 days	-1,807	-258
Daily Inflow (cfs)	Last 7 days	Min	0
		Max	3
		Mean	1
Release (cfs)	Last 7 days	Min	98
		Max	103
		Mean	99

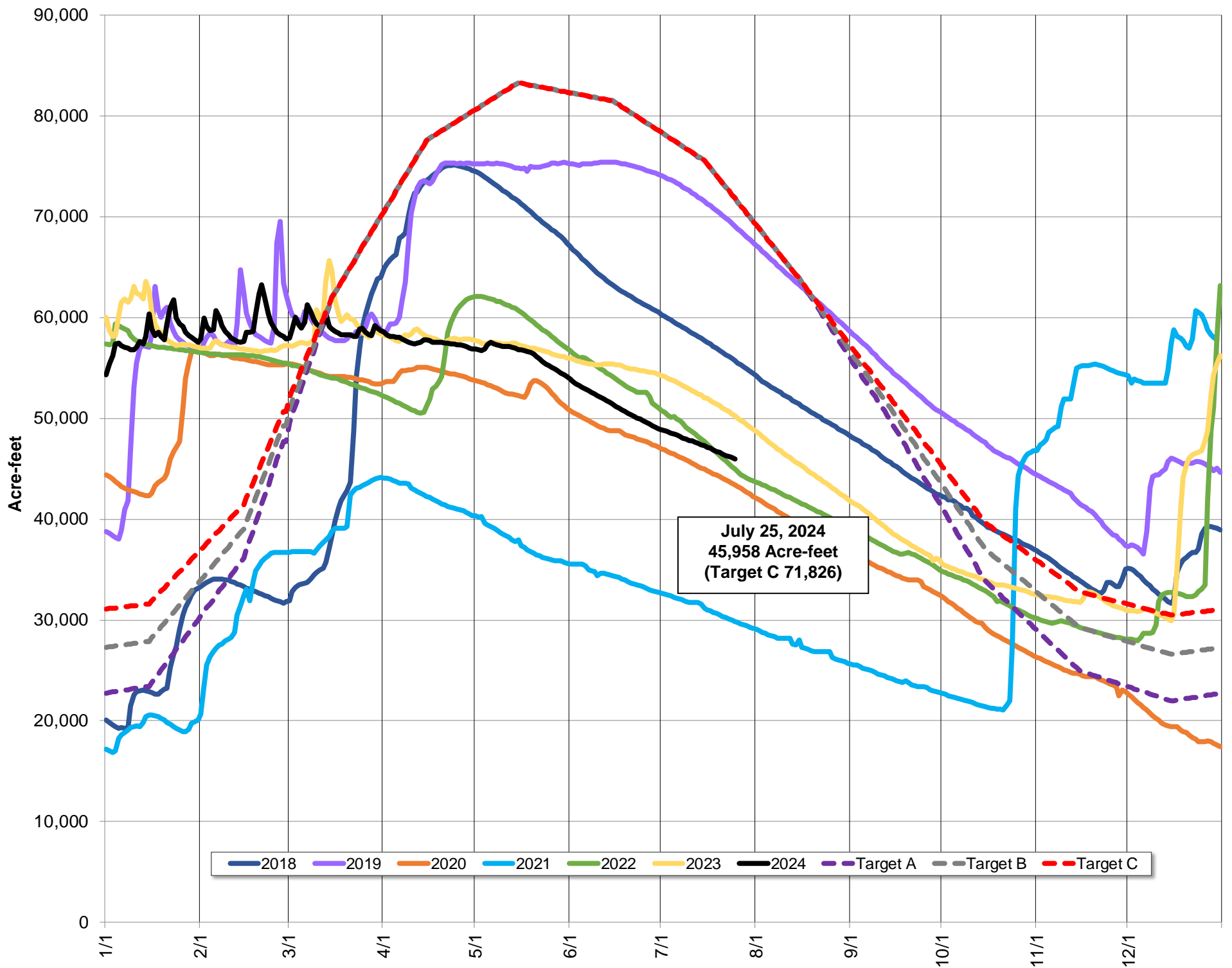
Potter Valley Project

PVP Diversion (cfs)	July 25, 2024	60
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Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2023 - July 25, 2024	486,437	1,627
	Last 7 days	257	37

*Inflow calculation based on criteria established in D1610

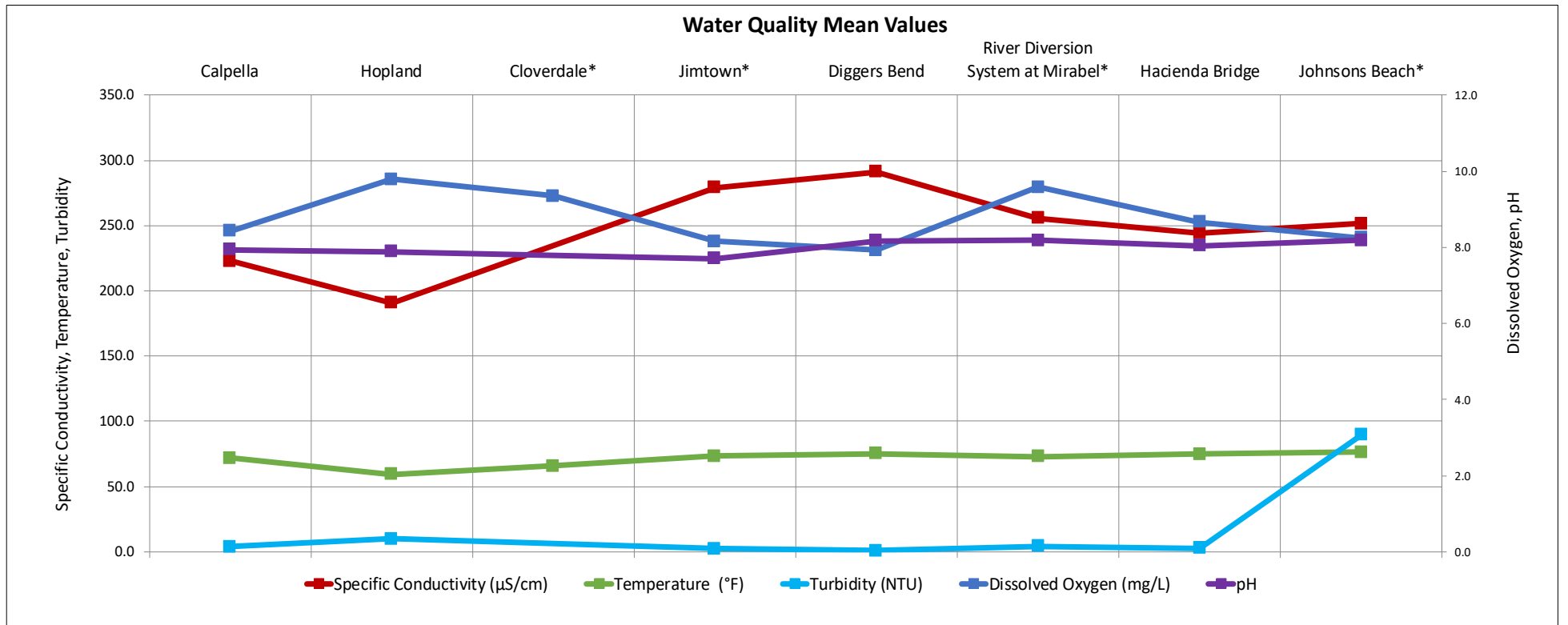
Lake Pillsbury Storage 2018 - 2024 and Target Storage Scenarios



Russian River Flows (July 19, 2024 - July 25, 2024)

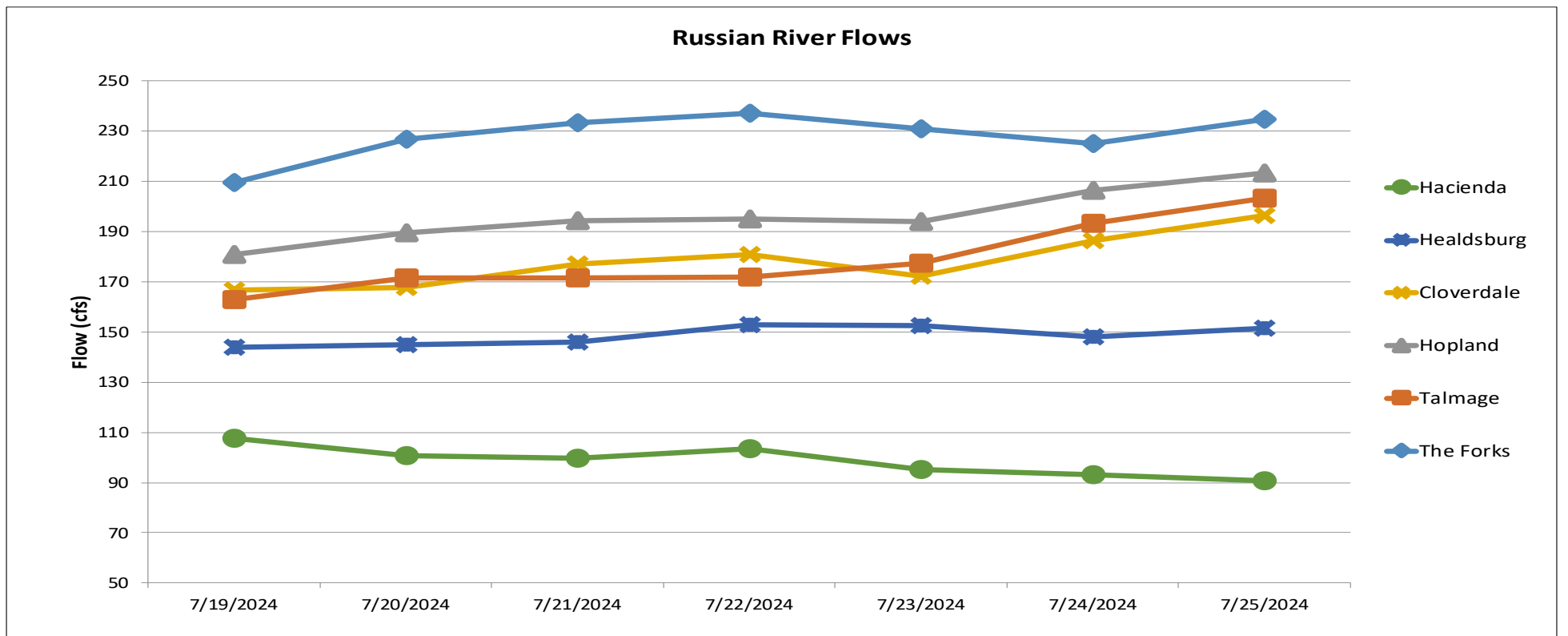
Parameter		Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		USGS 11461500	USGS 11462500	USGS 11463000	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	66.6	56.1	62.6	68.9	70.5	70.6	69.4	73.3
	Max	76.1	61.3	68.7	77.4	79.3	75.2	78.3	78.9
	Mean	71.9	59.4	65.6	73.3	75.3	73.0	74.7	76.2
Specific Conductivity (µS/cm)	Min	213.0	187.0		270.0	284.0	245	241.0	138.9
	Max	234.0	193.0		289.0	299.0	267	248.0	266.9
	Mean	222.8	190.6		279.3	291.1	256	244.3	251.6
Dissolved Oxygen (mg/L)	Min	7.6	8.7	7.9	6.4	6.6	8.4	6.9	5.7
	Max	9.6	11.3	11.8	10.7	9.7	10.8	10.0	9.1
	Mean	8.4	9.8	9.3	8.2	7.9	9.6	8.7	8.3
Dissolved Oxygen (% Saturation)	Min	88.4	86.3	82.4	72.6	75.7	72.6	80.7	73.0
	Max	111.7	115.0	130.3	128.3	119.4	128.3	119.2	123.5
	Mean	96.7	97.7	100.3	95.3	94.6	95.3	102.4	93.9
pH	Min	7.7	7.7		7.4	7.9	8.0	7.7	7.9
	Max	8.2	8.2		8.2	8.4	8.4	8.3	8.4
	Mean	7.9	7.9		7.7	8.2	8.2	8.0	8.2
Turbidity (NTU)	Min	1.6	8.4		1.1	0.4	1.3	1.3	4
	Max	7.7	12.1		3.4	1.6	179.9	4.5	931
	Mean	3.8	9.8		2.2	0.8	4.3	2.5	89

*Station operated seasonally



Gage	24-hr Average Flow (cfs)						
	Jul 19, 2024	Jul 20, 2024	Jul 21, 2024	Jul 22, 2024	Jul 23, 2024	Jul 24, 2024	Jul 25, 2024
The Forks*	210	227	233	237	231	225	235
Talmage USGS 11462080	163	172	172	172	177	193	203
Hopland USGS 11462500	181	189	194	195	194	207	213
Cloverdale USGS 11463000	167	168	177	181	172	186	197
Healdsburg USGS 11464000	144	145	146	153	152	148	152
Hacienda USGS 11467000	108	101	100	103	95	93	91

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

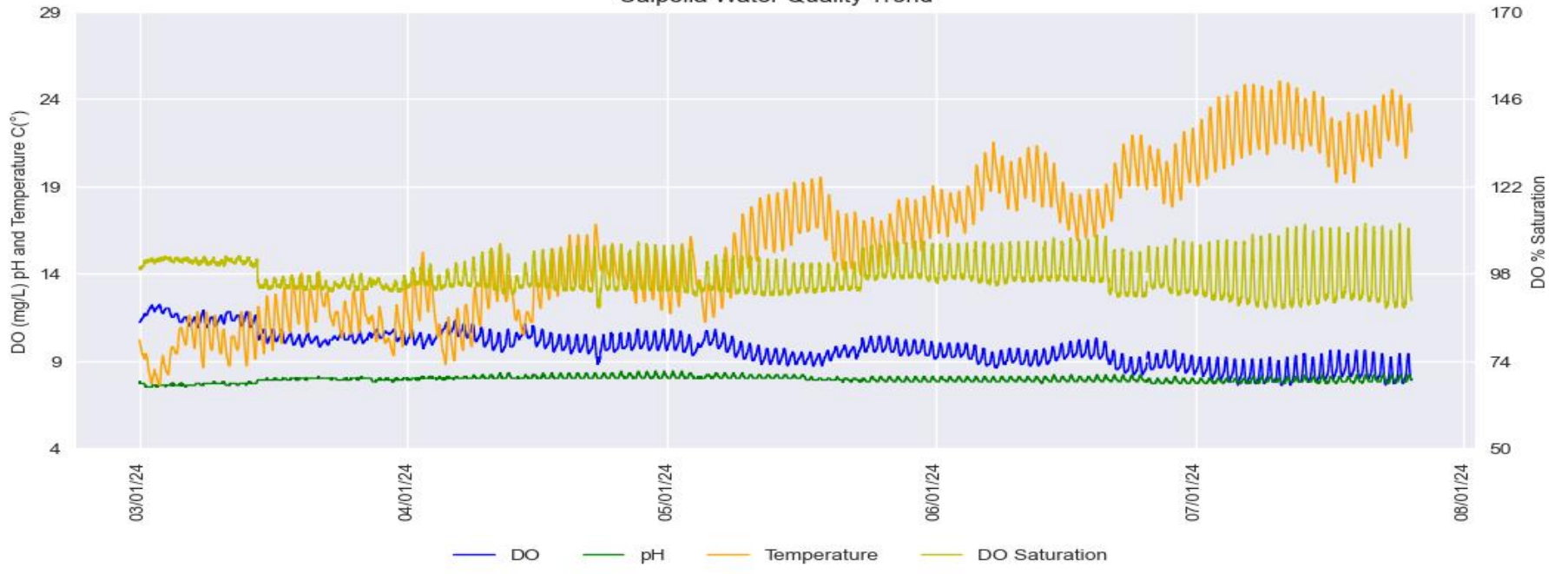


Russian River Water Quality March 1, 2024 – July 25, 2024

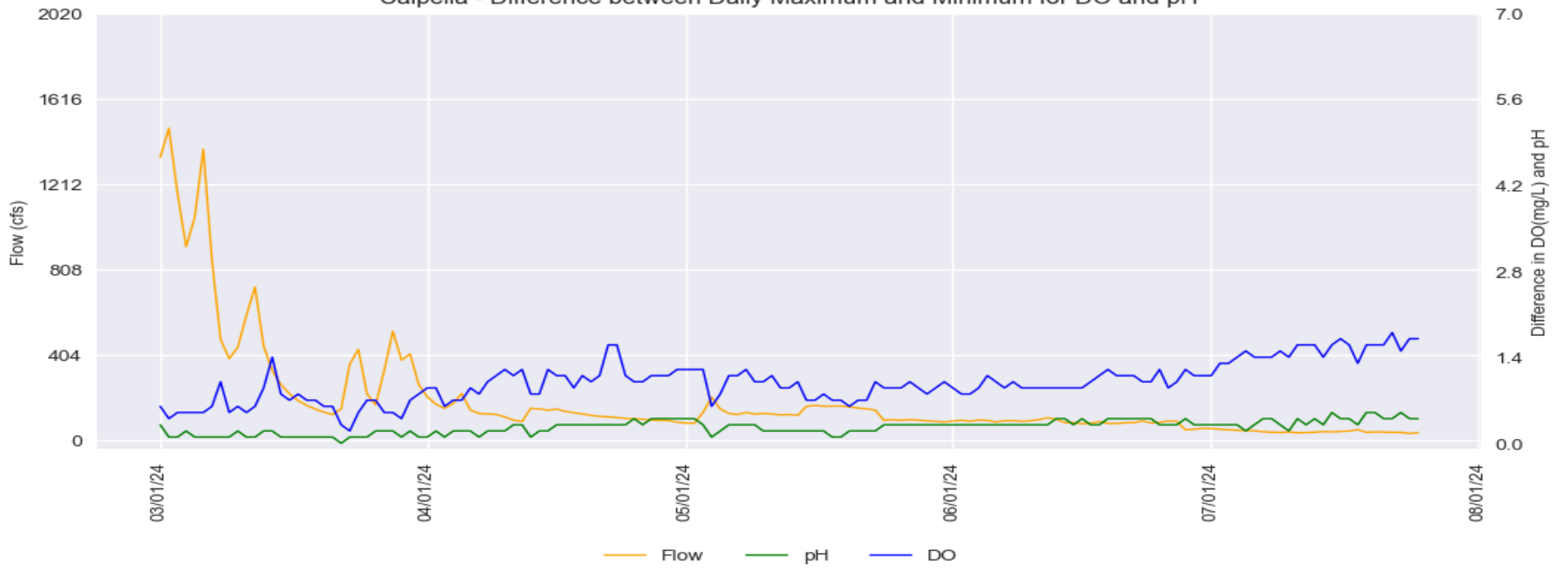
Provisional Data Subject to Revision

Calpella

Calpella Water Quality Trend

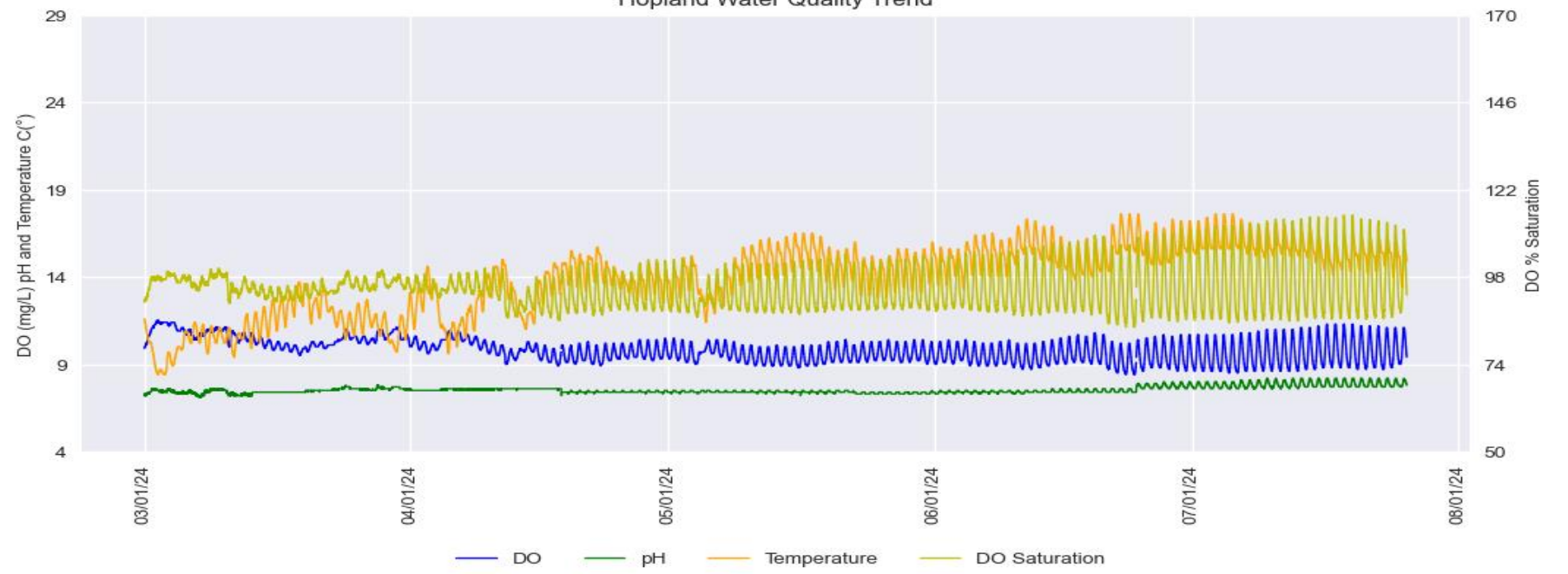


Calpella - Difference between Daily Maximum and Minimum for DO and pH

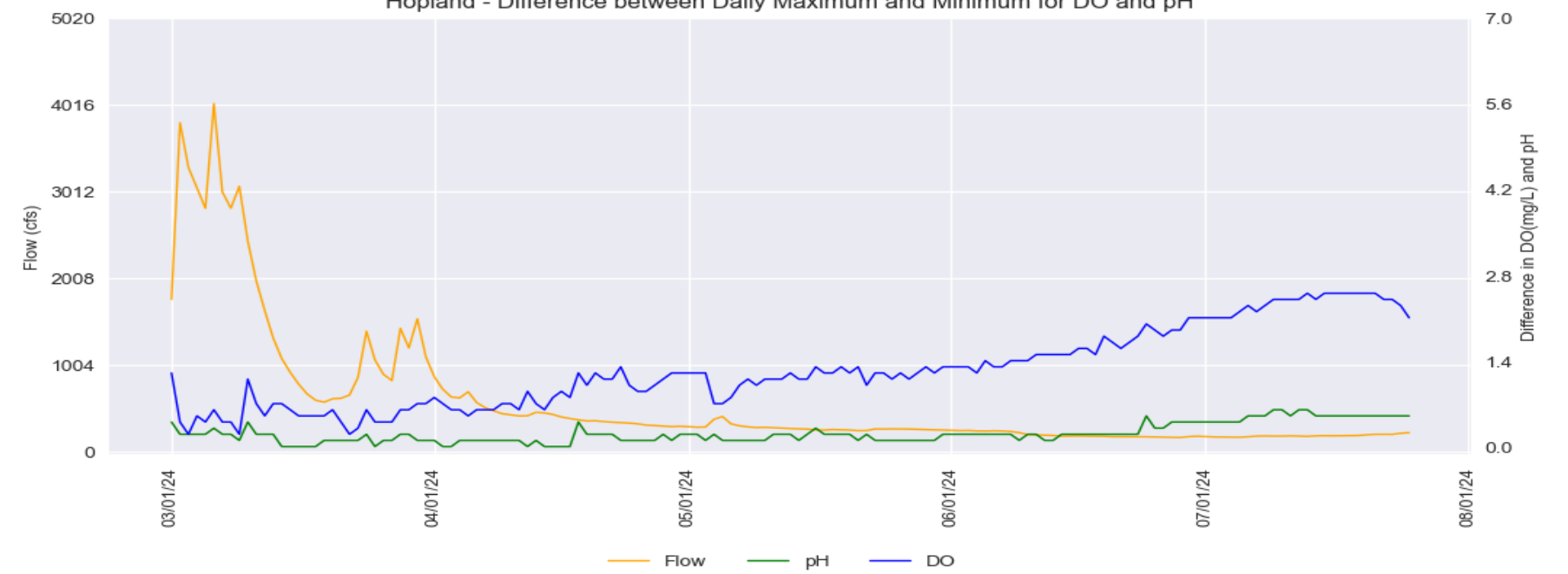


Hopland

Hopland Water Quality Trend



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

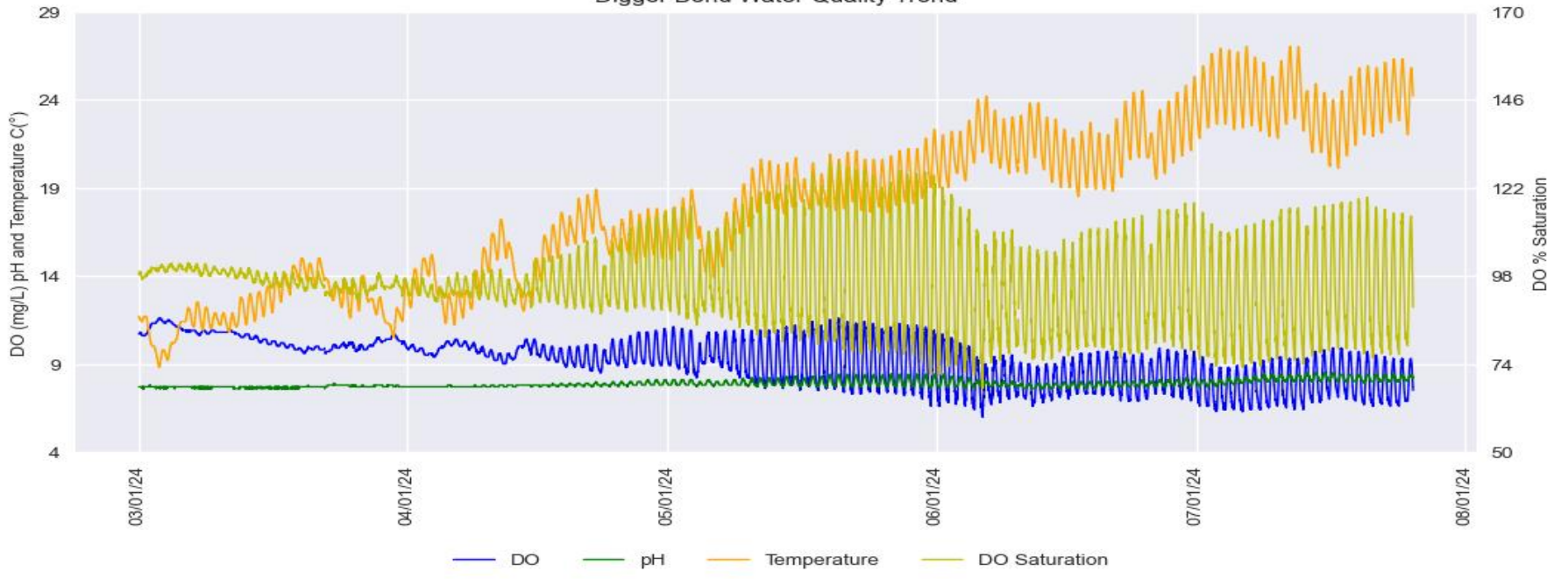


Russian River Water Quality March 1, 2024 – July 25, 2024

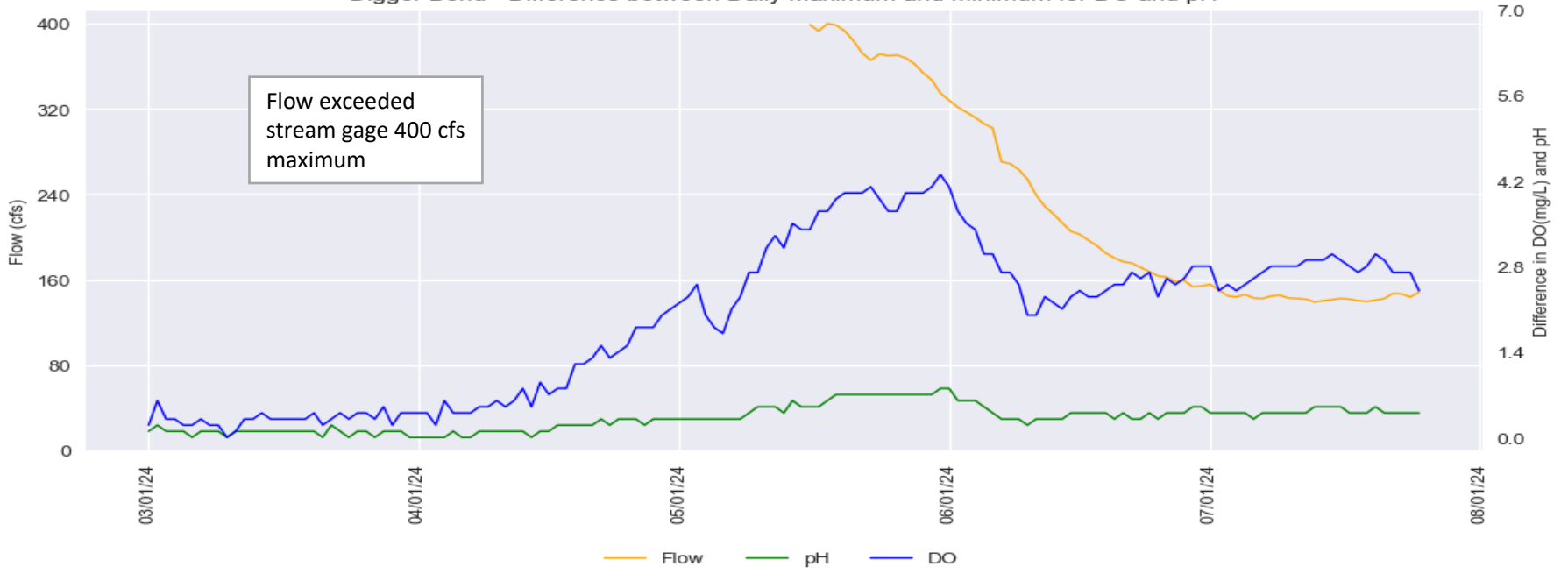
Provisional Data Subject to Revision

Digger Bend

Digger Bend Water Quality Trend

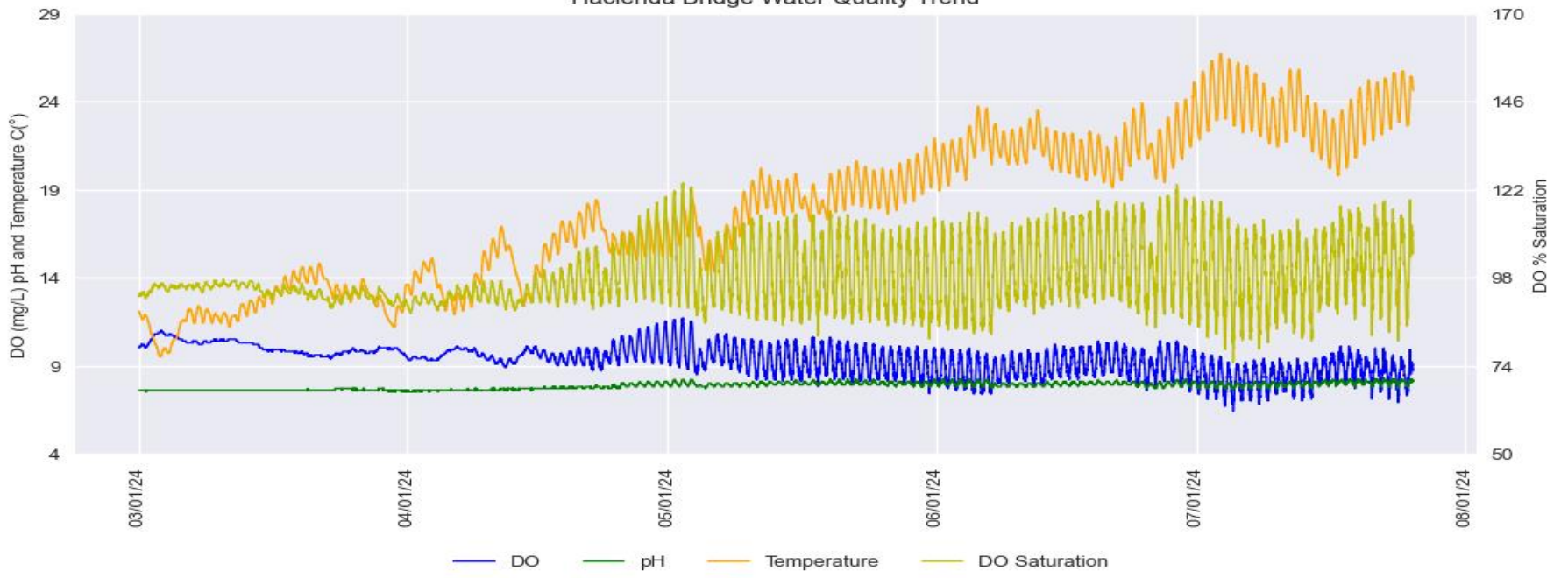


Digger Bend - Difference between Daily Maximum and Minimum for DO and pH

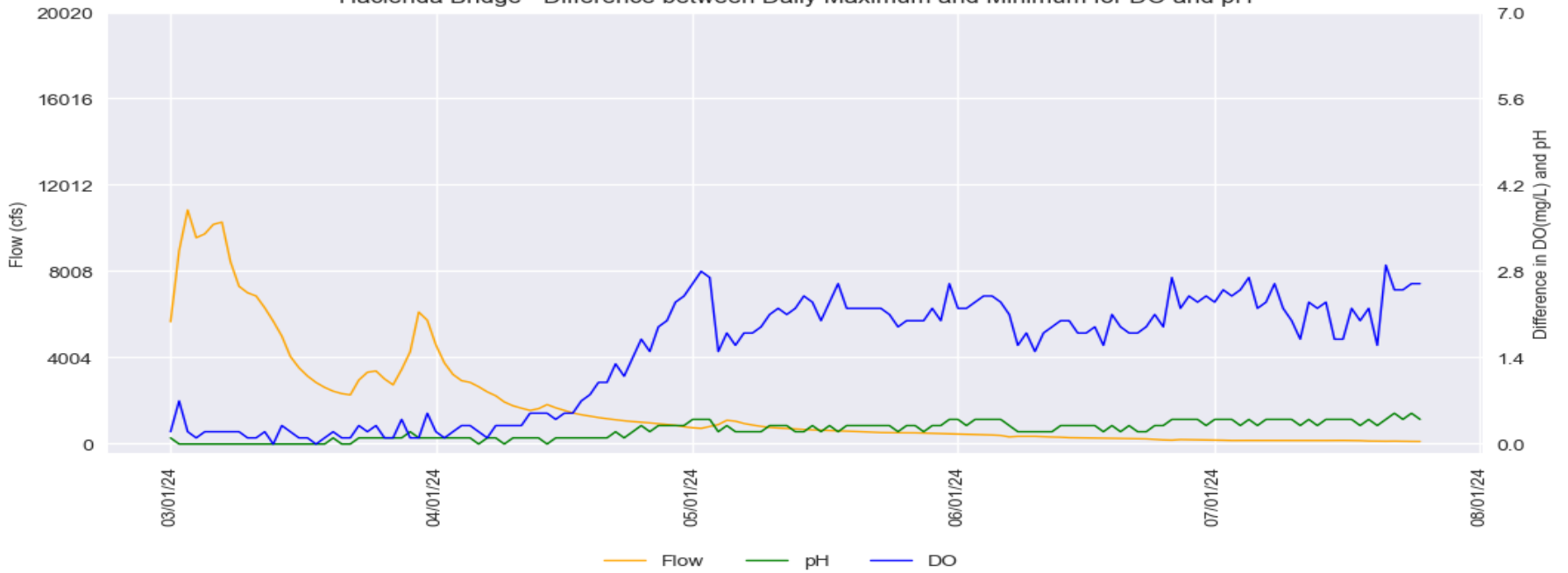


Hacienda Bridge

Hacienda Bridge Water Quality Trend



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

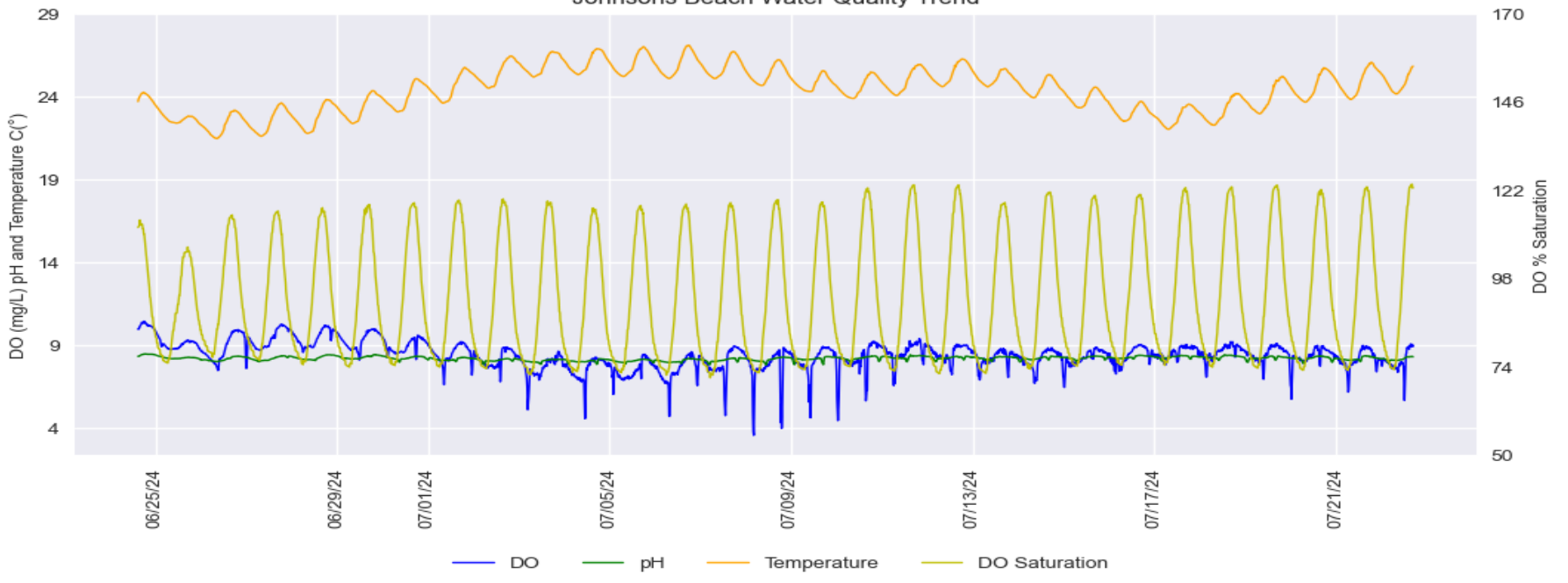


Russian River Water Quality June 24, 2024 – July 25, 2024

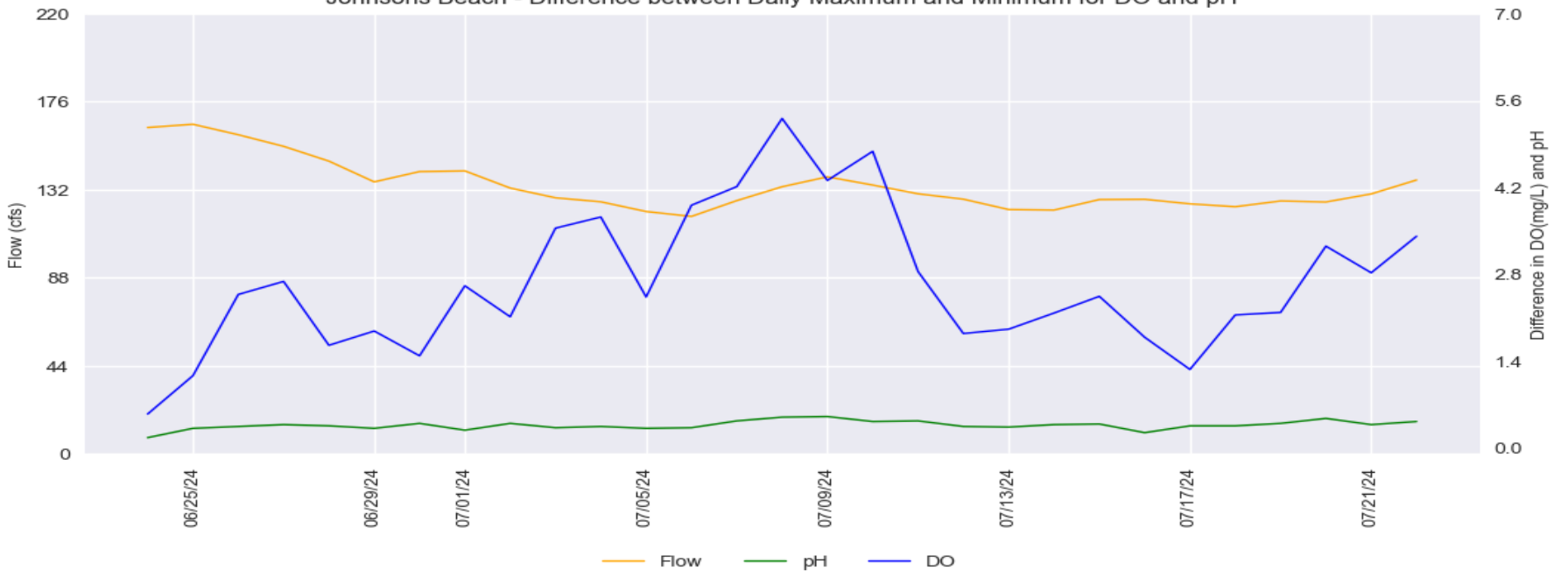
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Johnsons Beach

Johnsons Beach Water Quality Trend

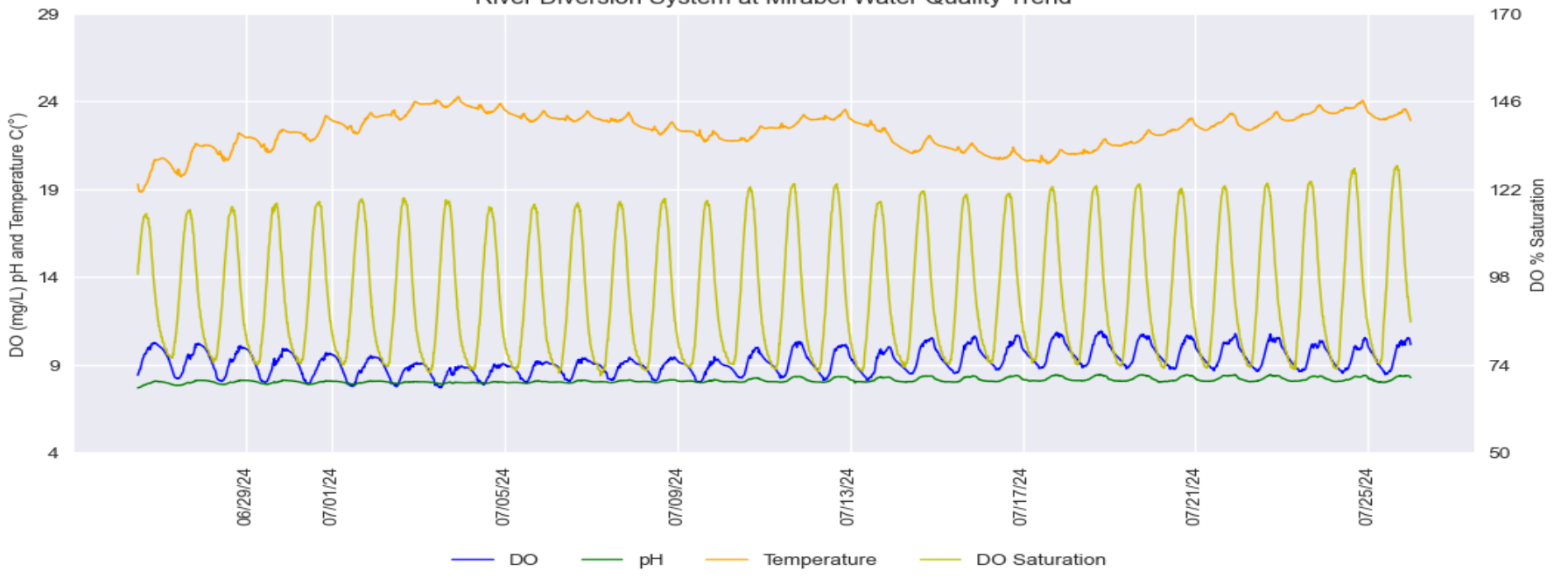


Johnsons Beach - Difference between Daily Maximum and Minimum for DO and pH

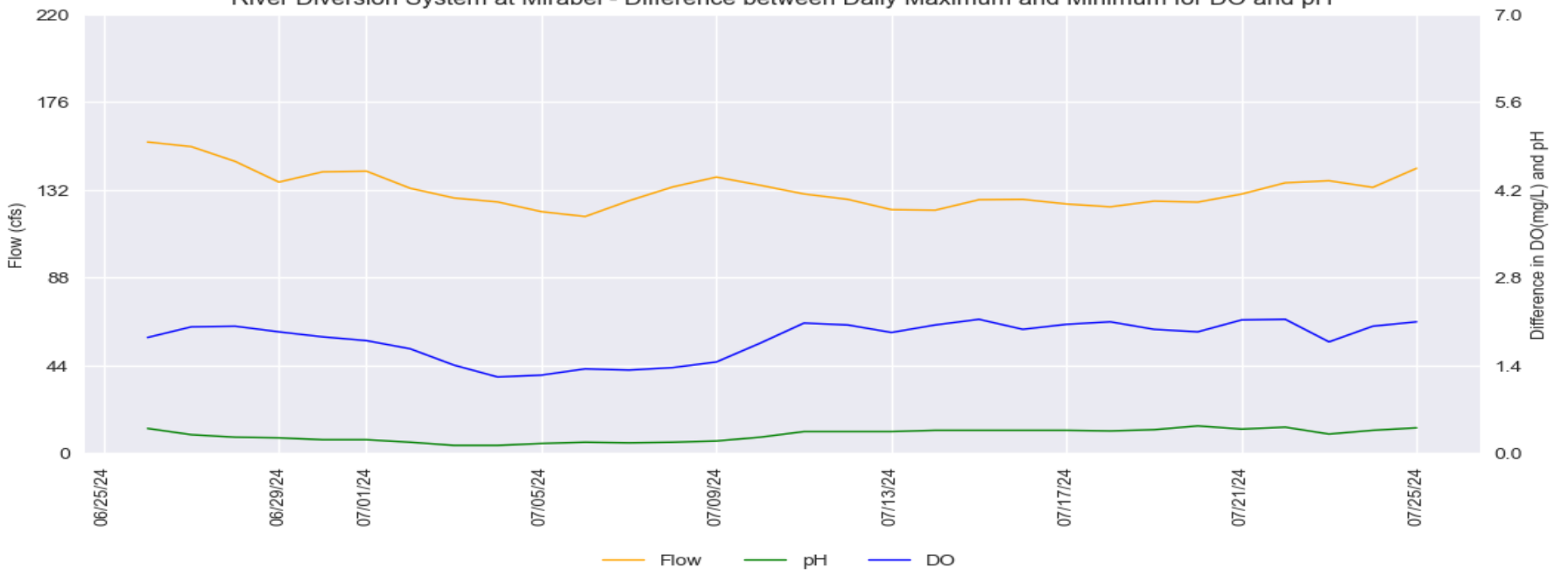


River Diversion System at Mirabel

River Diversion System at Mirabel Water Quality Trend



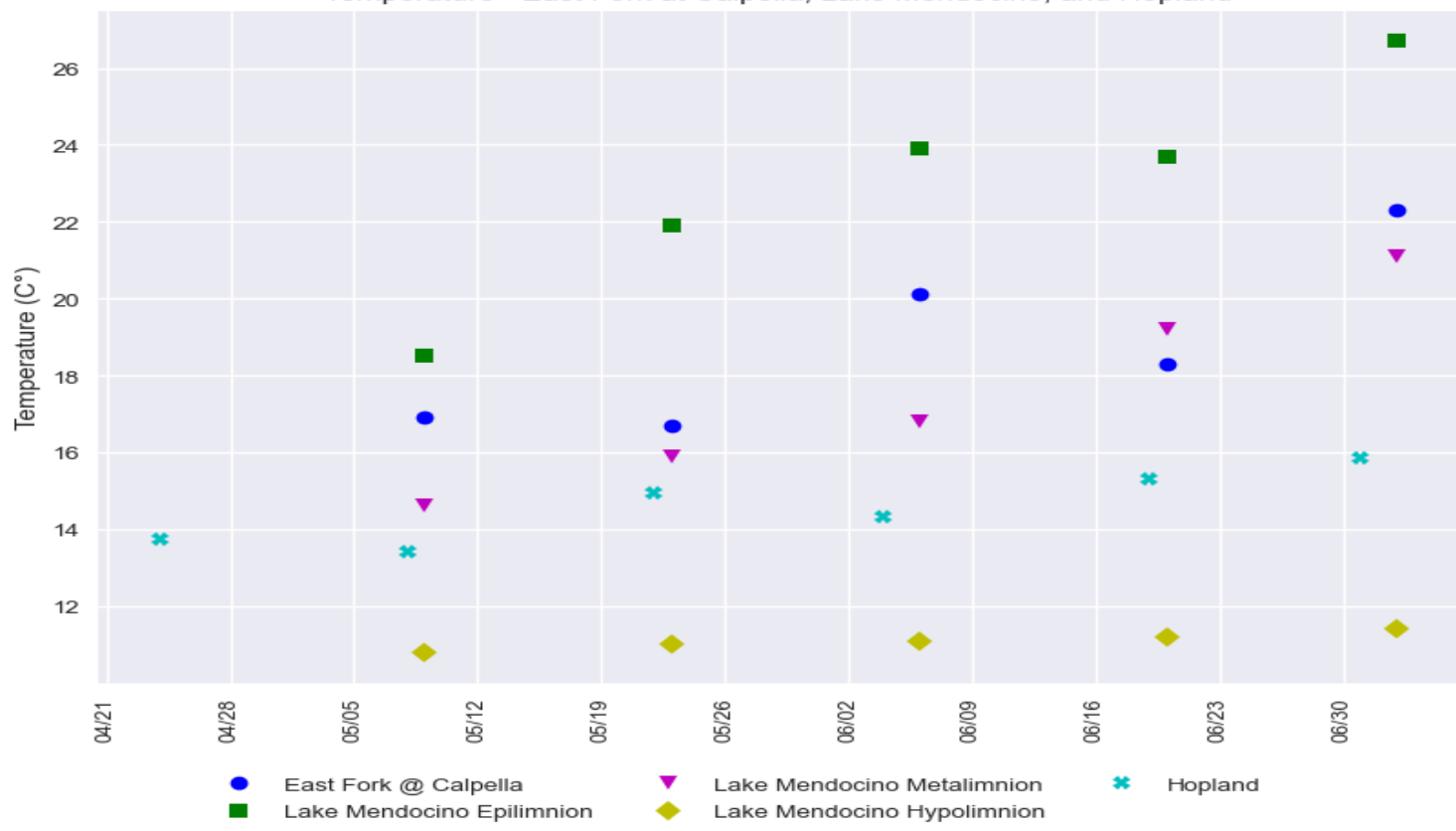
River Diversion System at Mirabel - Difference between Daily Maximum and Minimum for DO and pH



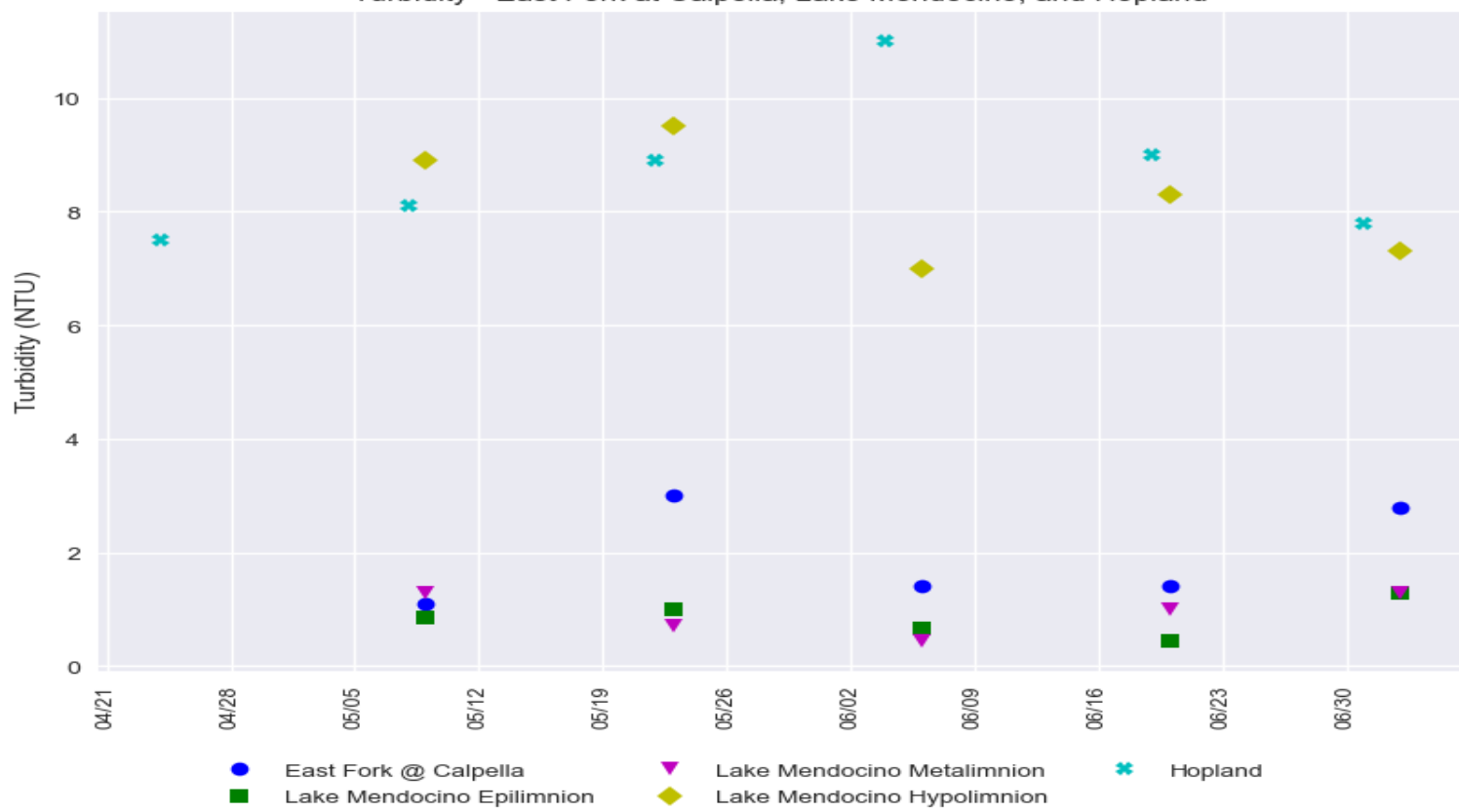
Russian River Water Quality Grab Samples

Provisional Data Subject to Revision

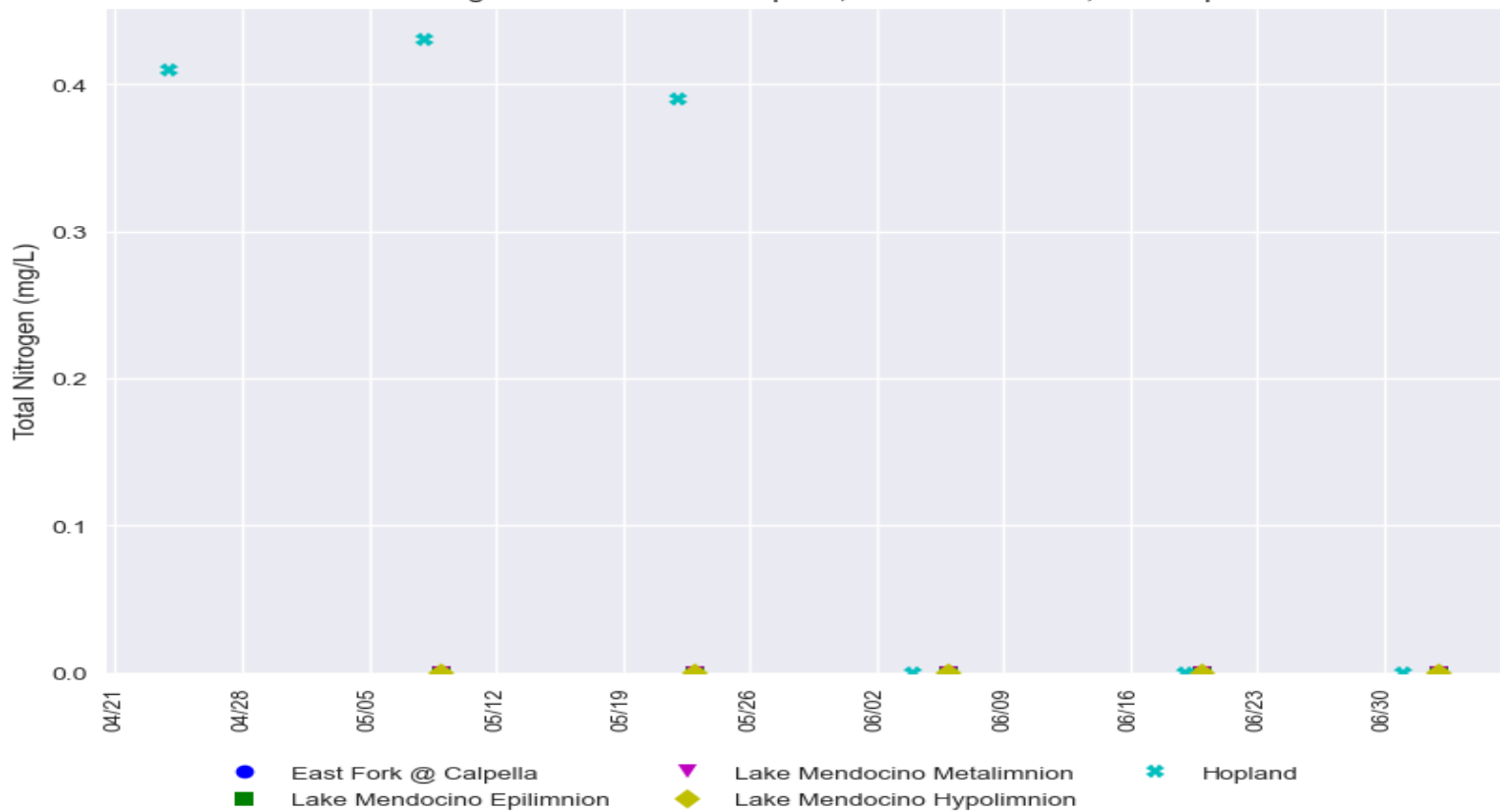
Temperature - East Fork at Calpella, Lake Mendocino, and Hopland



Turbidity - East Fork at Calpella, Lake Mendocino, and Hopland

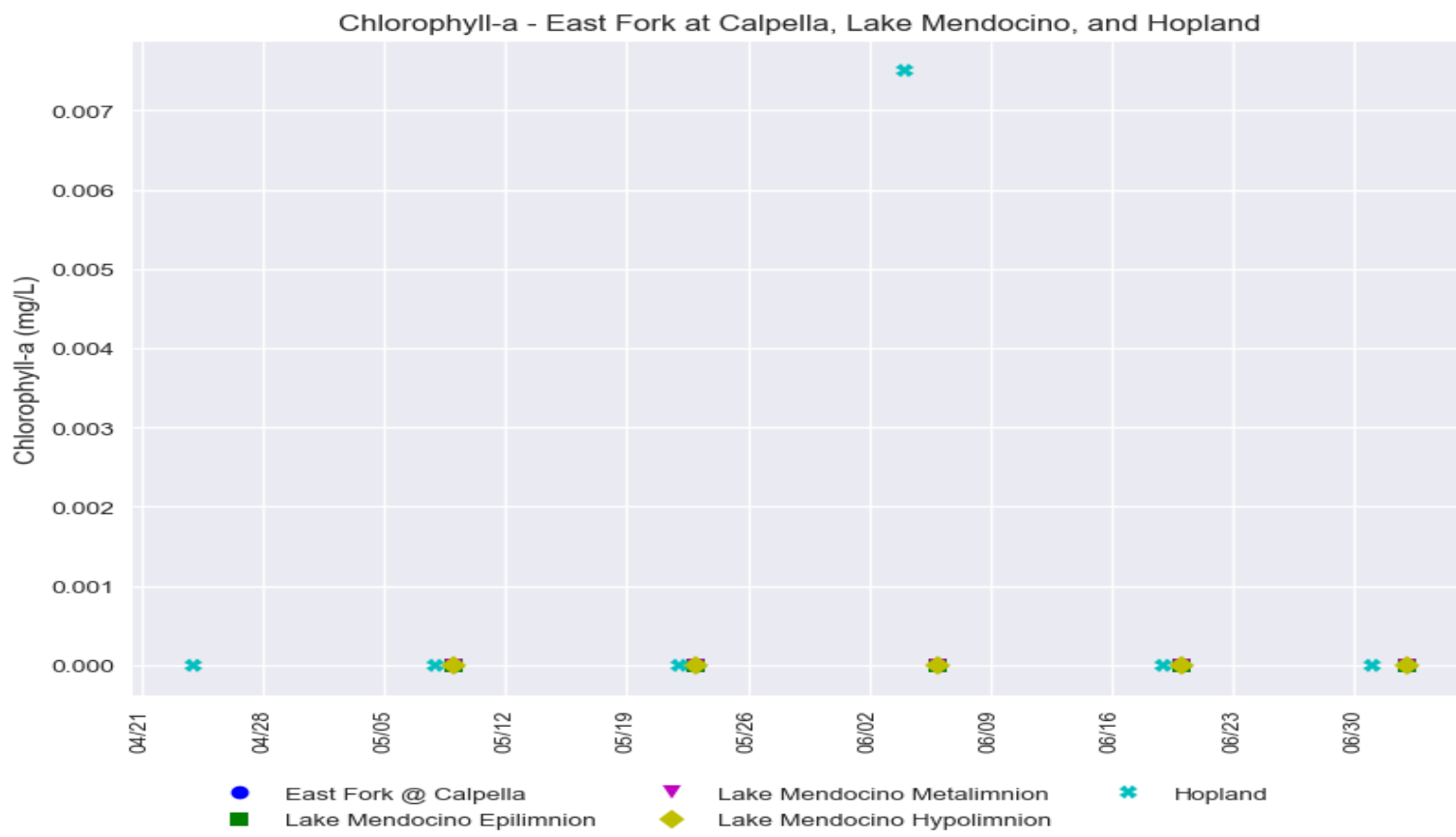
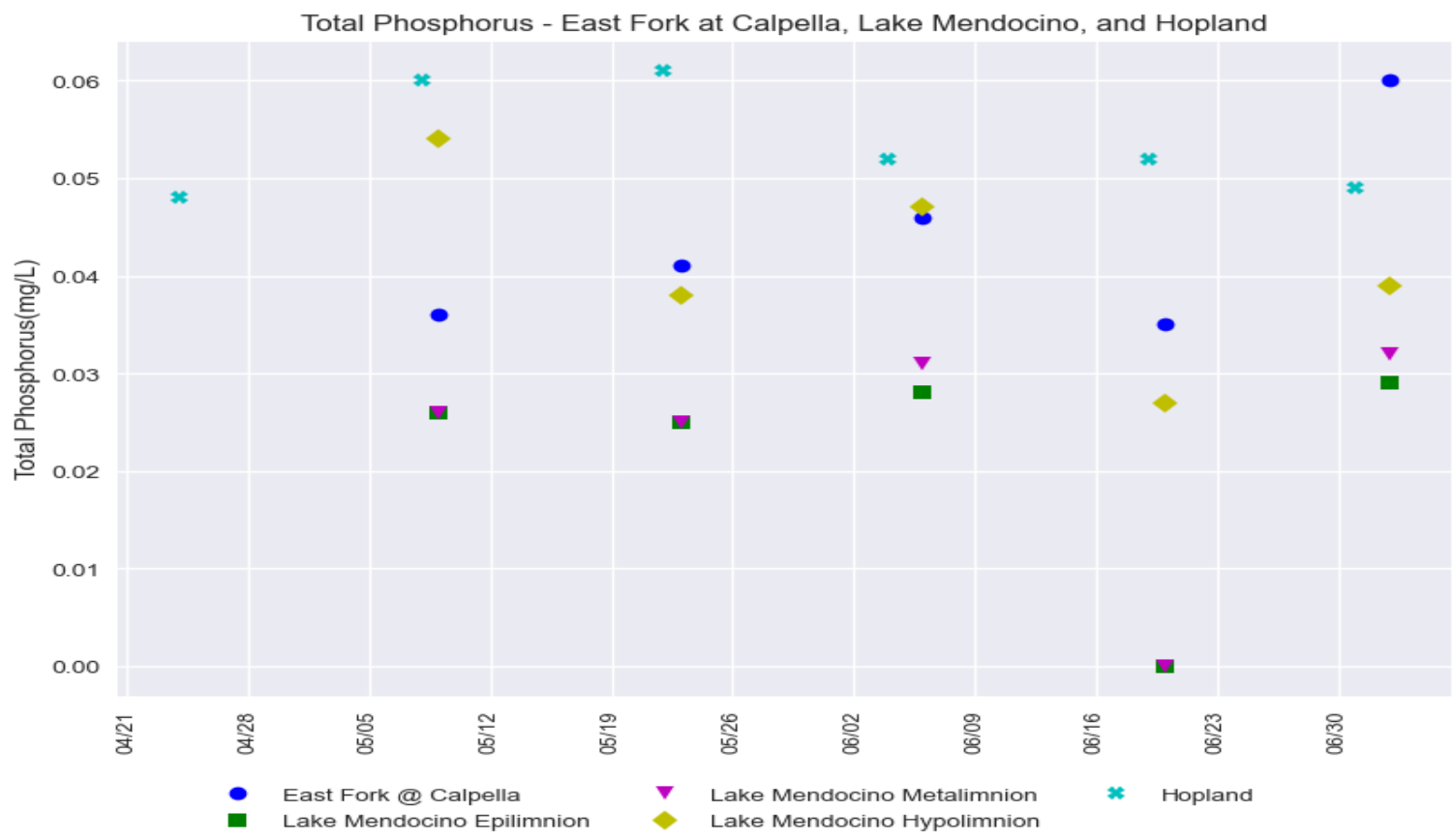


Total Nitrogen (mg/L) - East Fork at Calpella, Lake Mendocino, and Hopland



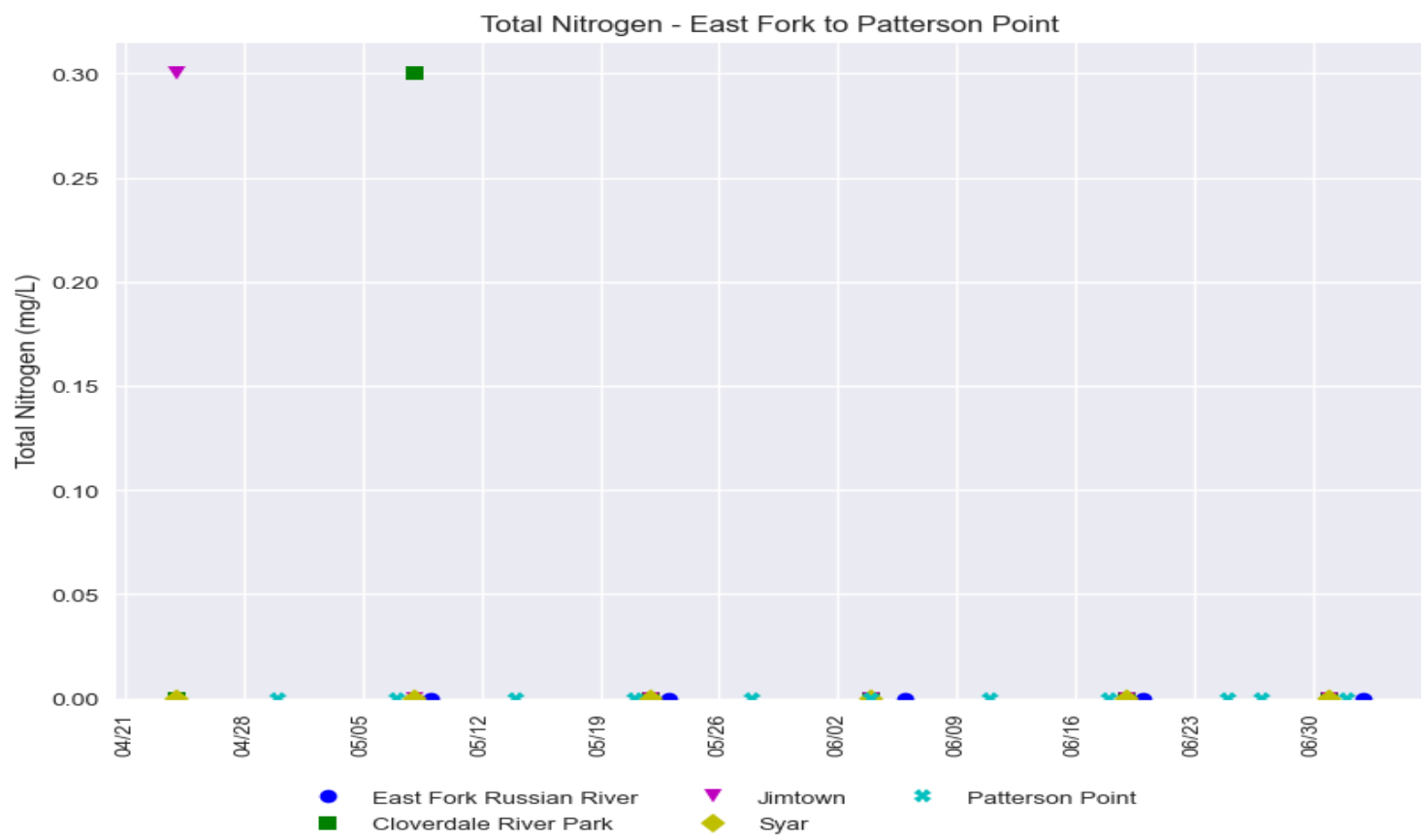
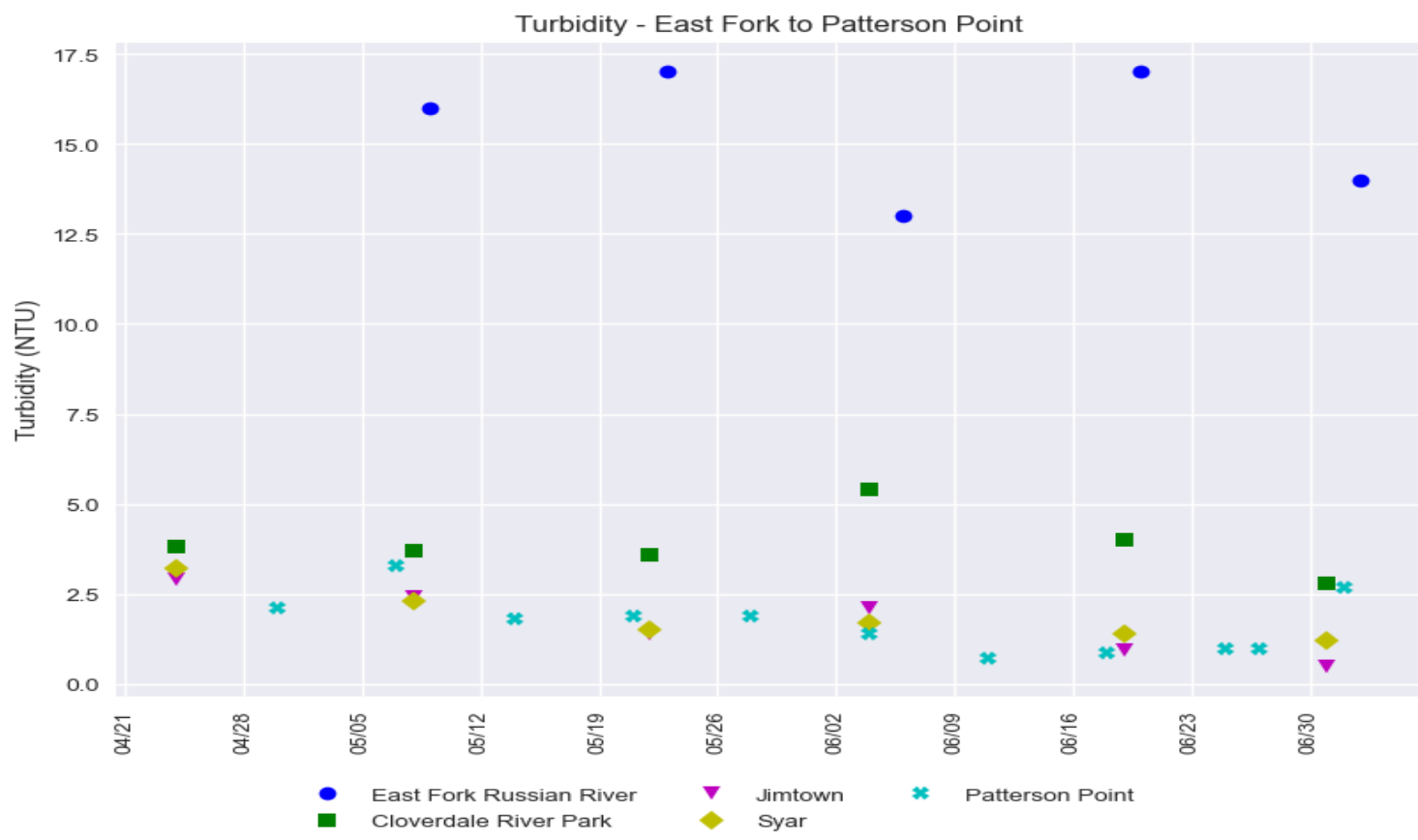
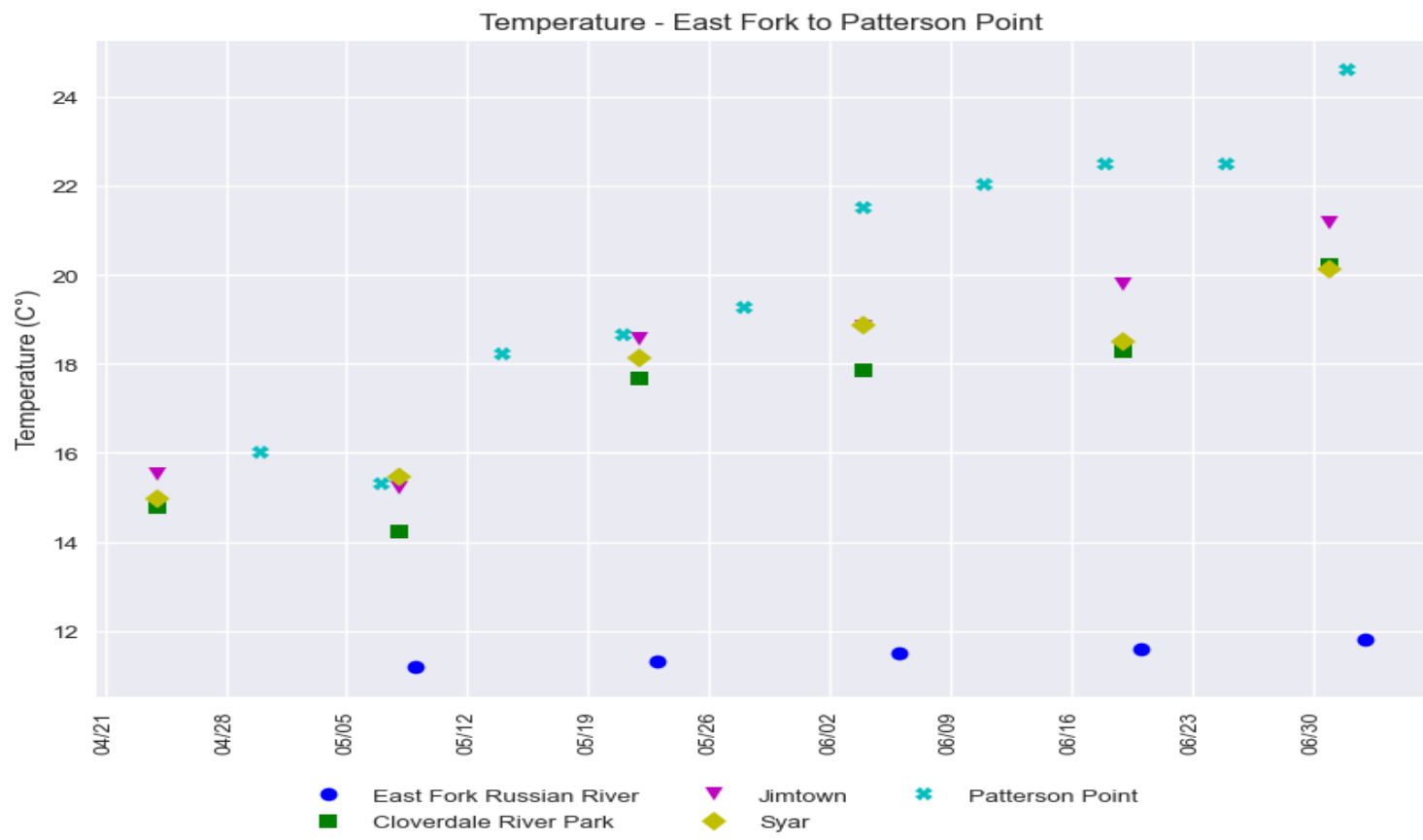
Russian River Water Quality Grab Samples

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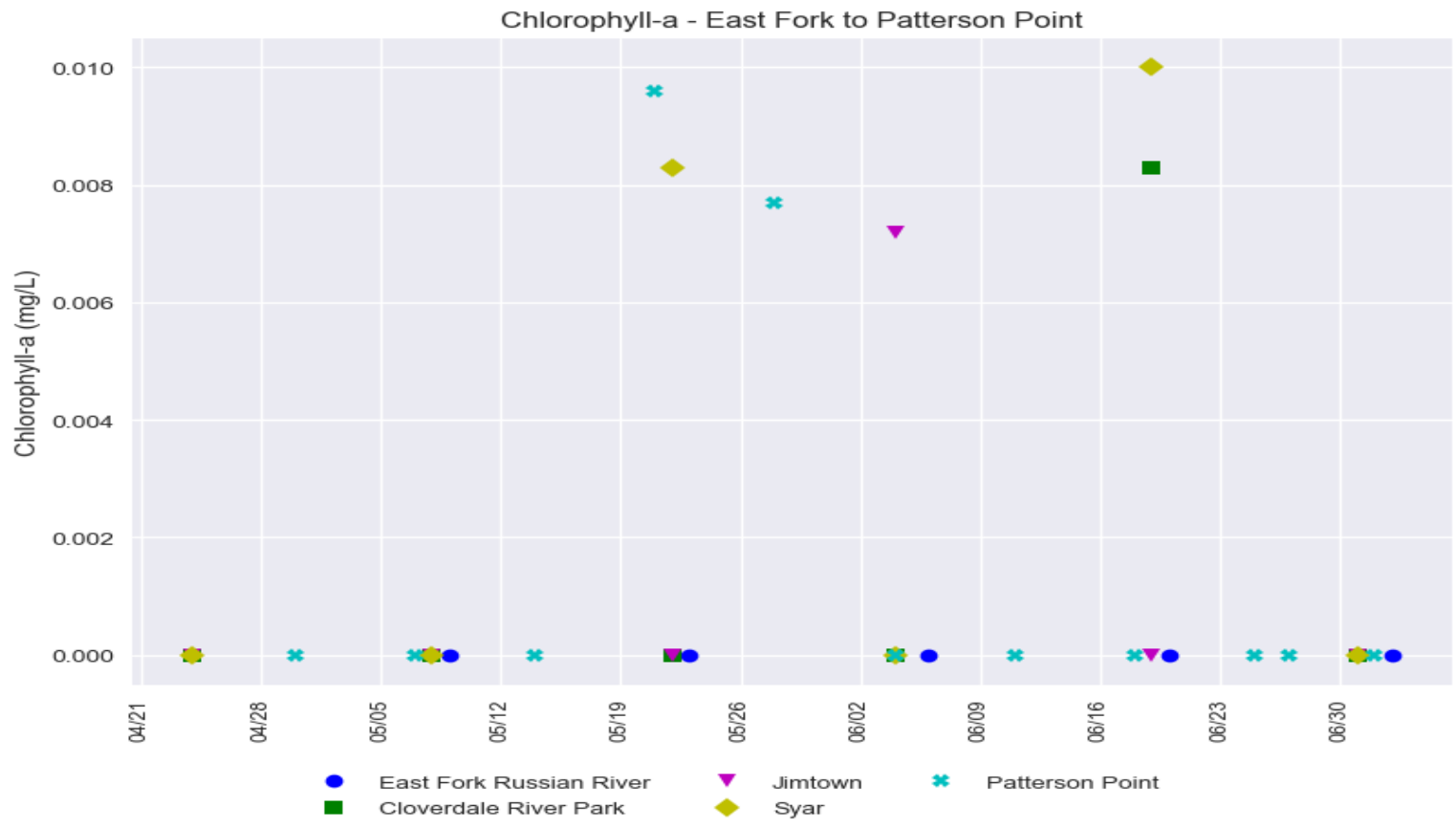
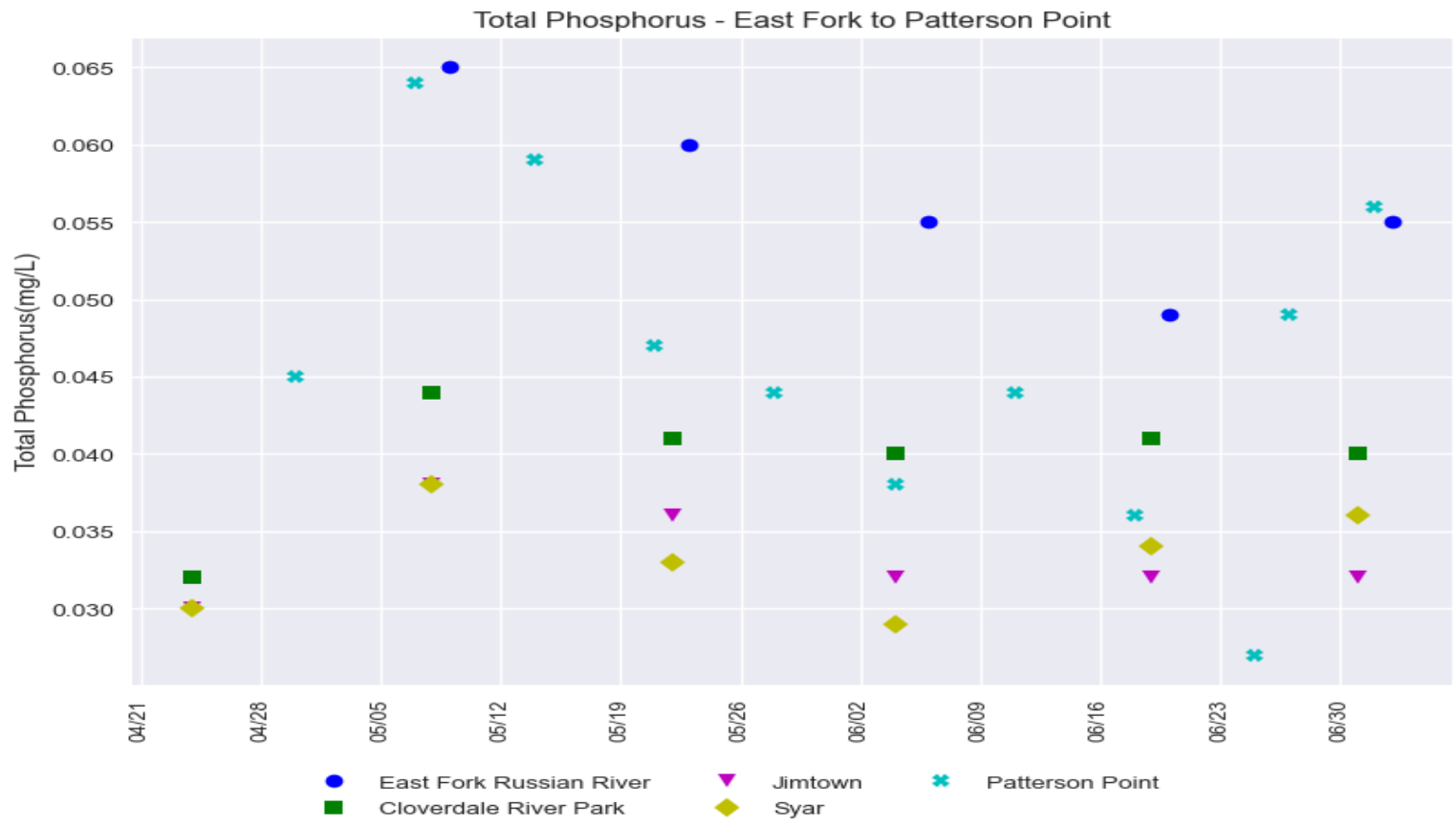
Russian River Water Quality Grab Samples

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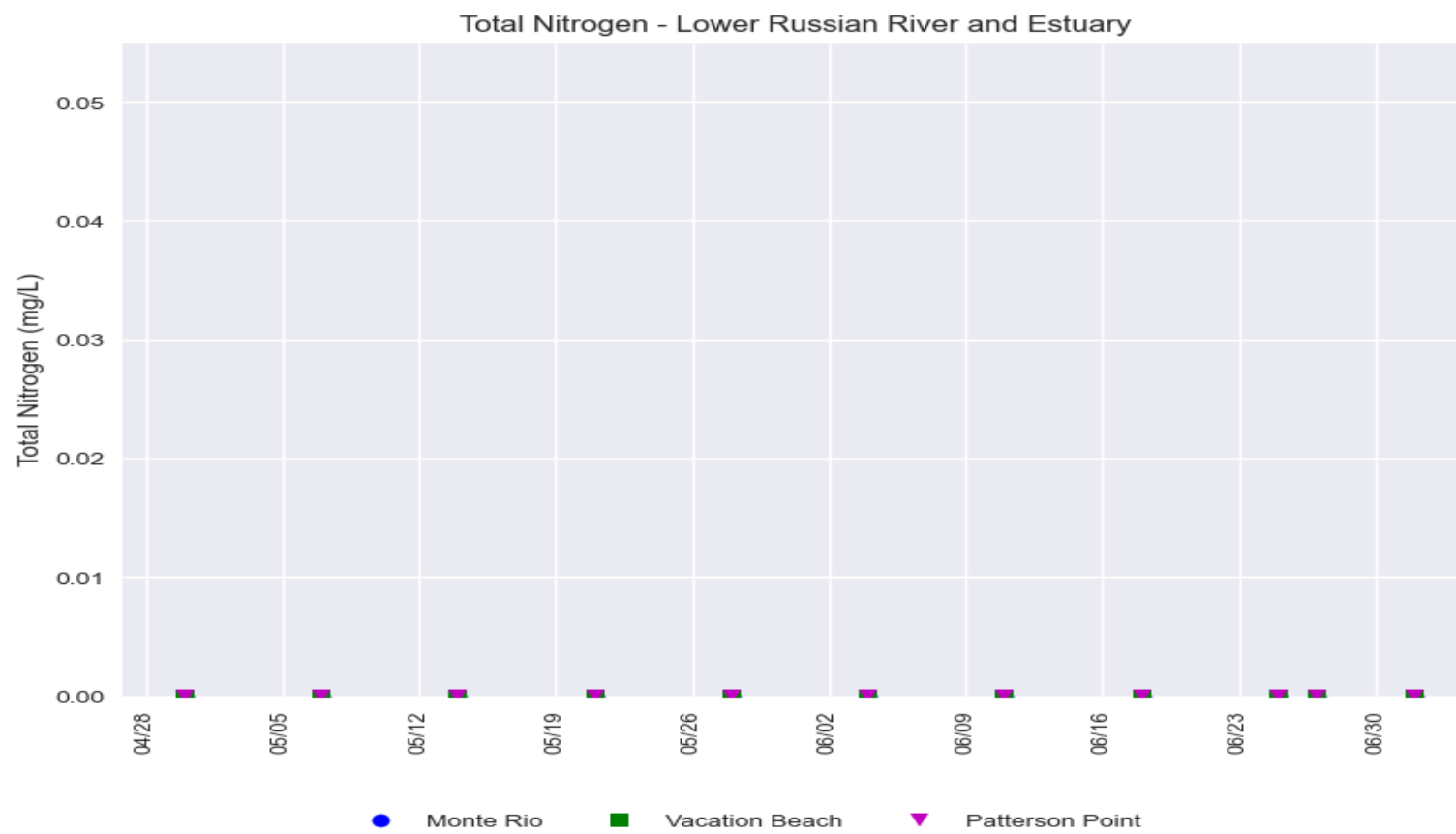
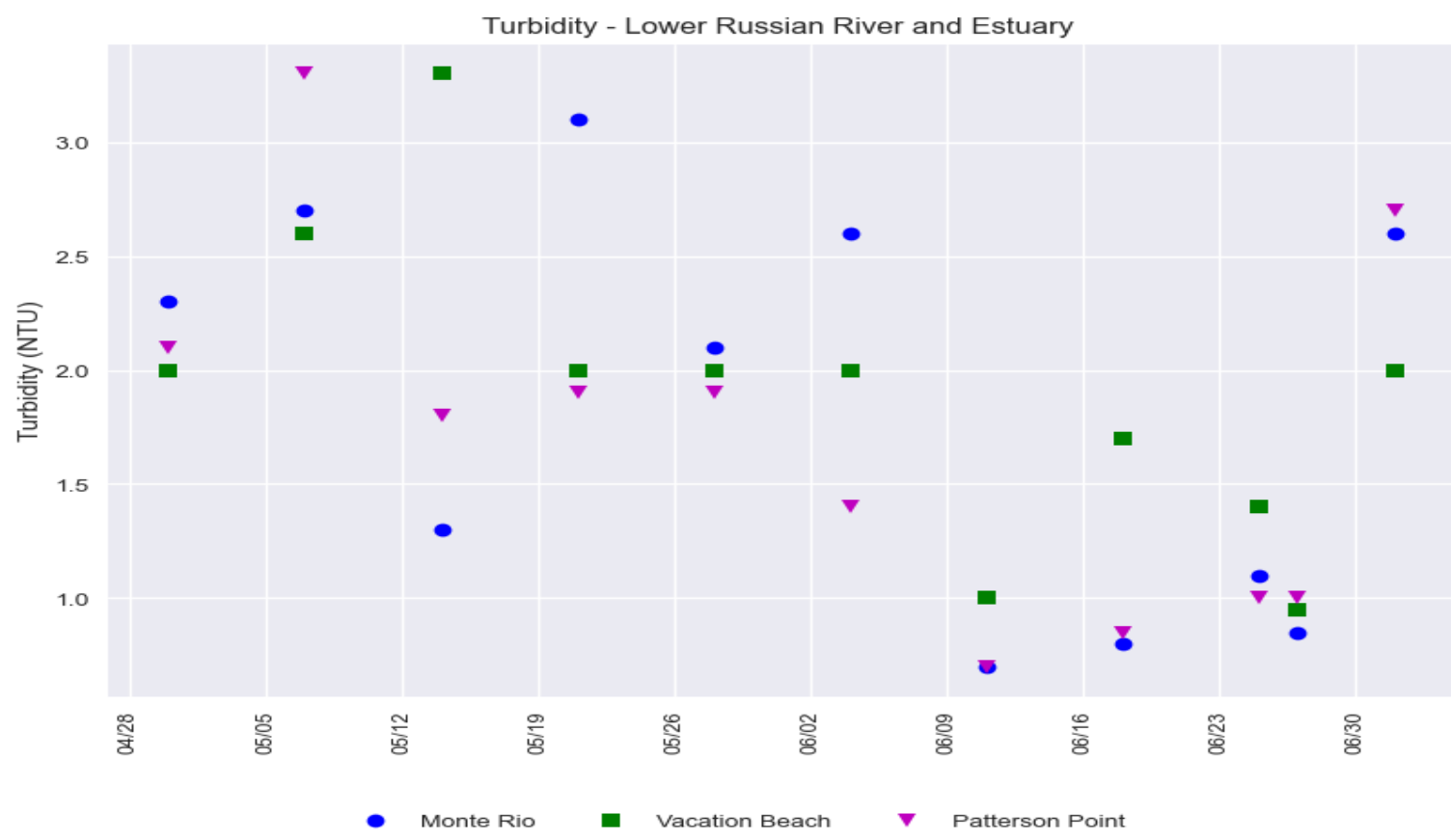
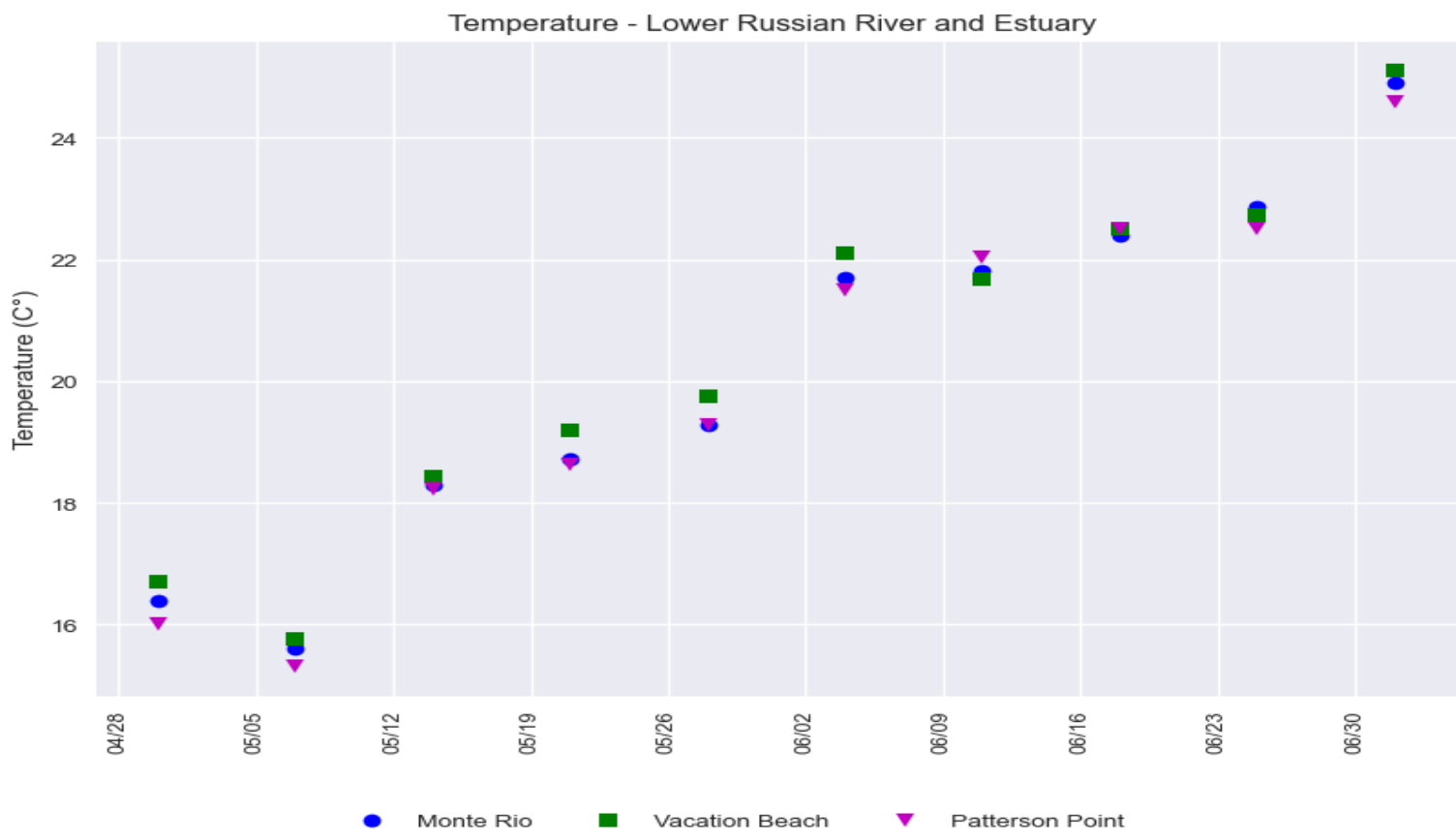
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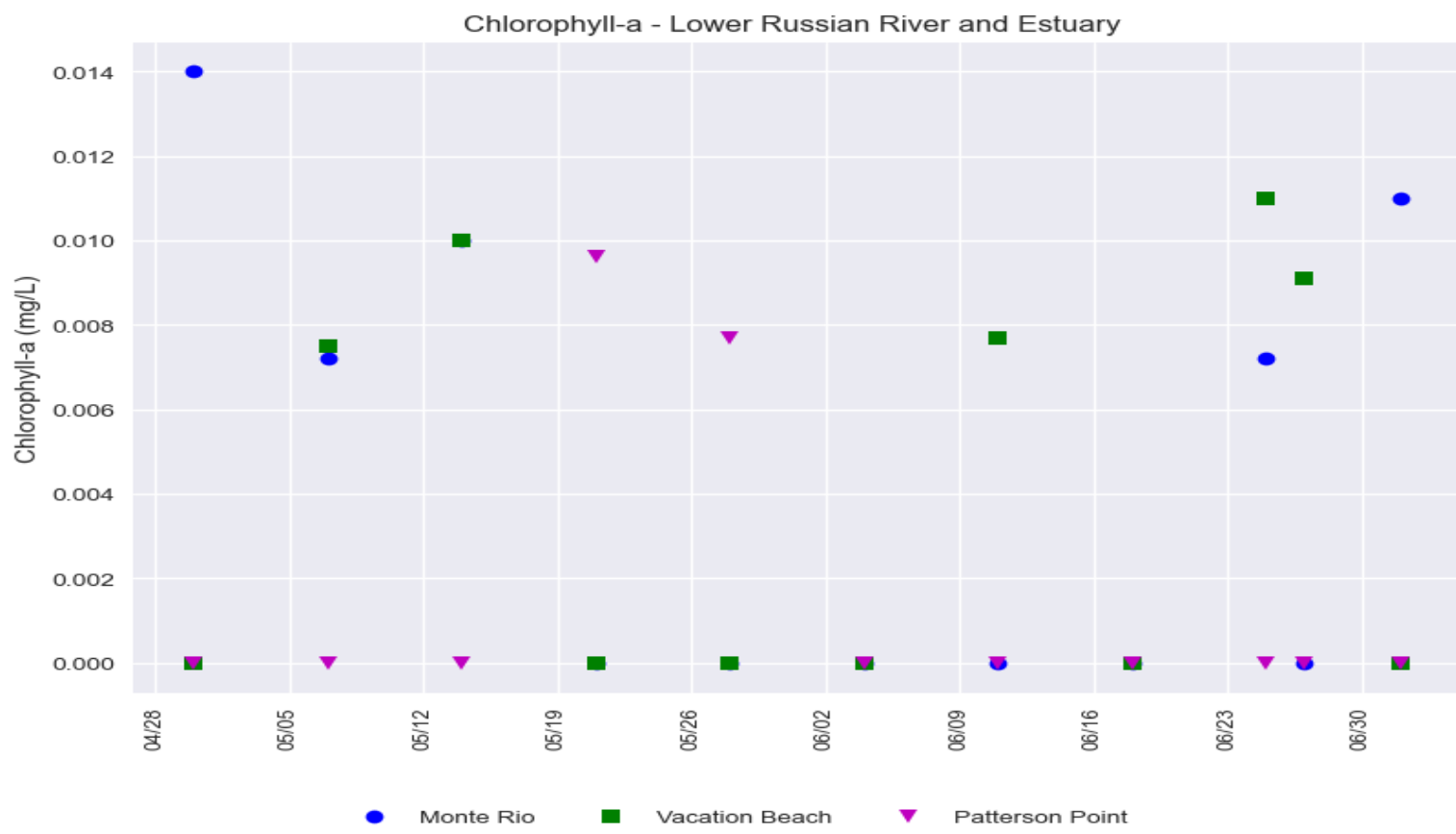
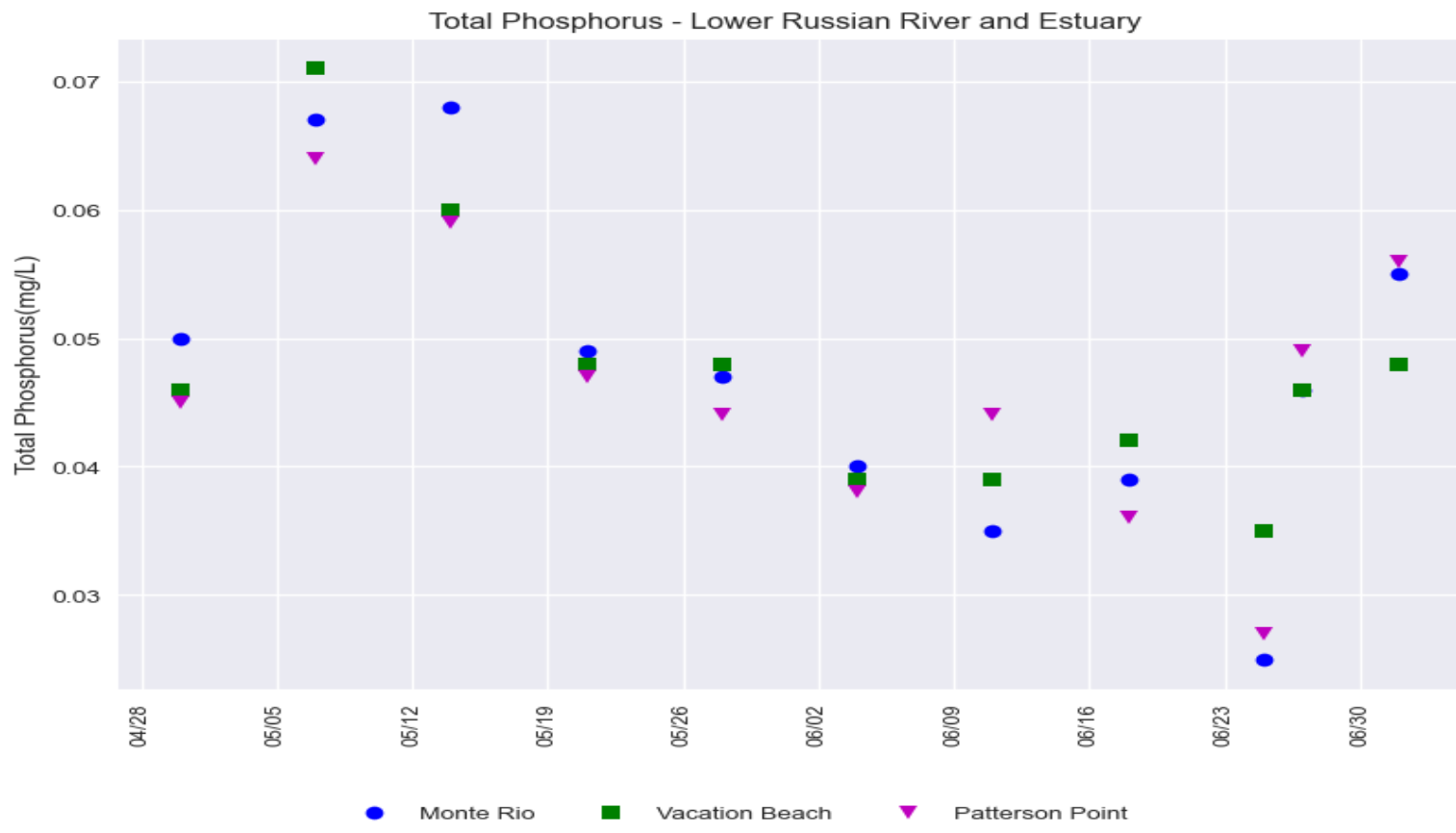
Russian River Water Quality Grab Samples

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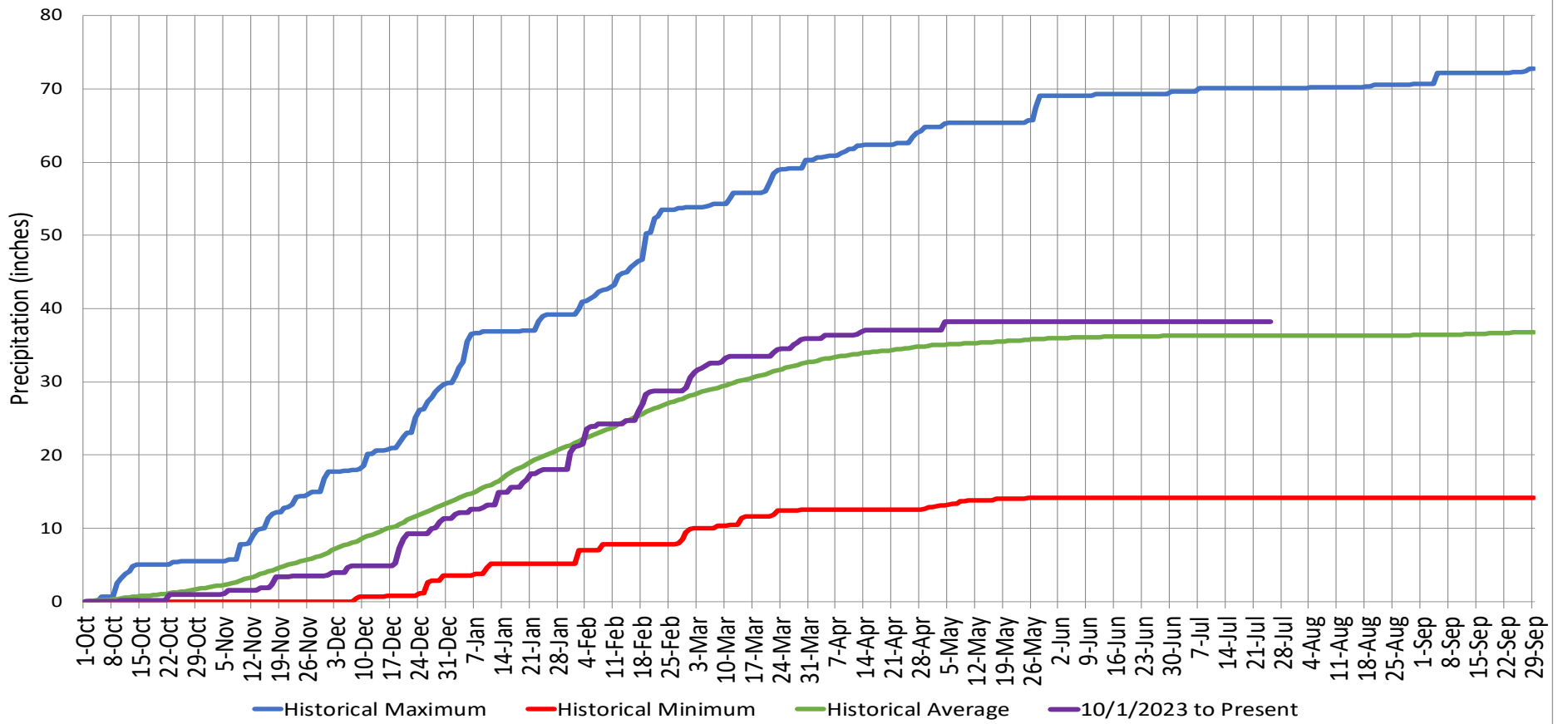


Precipitation

Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))

Date Range	Cumulative (inches)
Oct 1, 2023 - Jul 25, 2024	38.22
Last 7 Days*	0.00

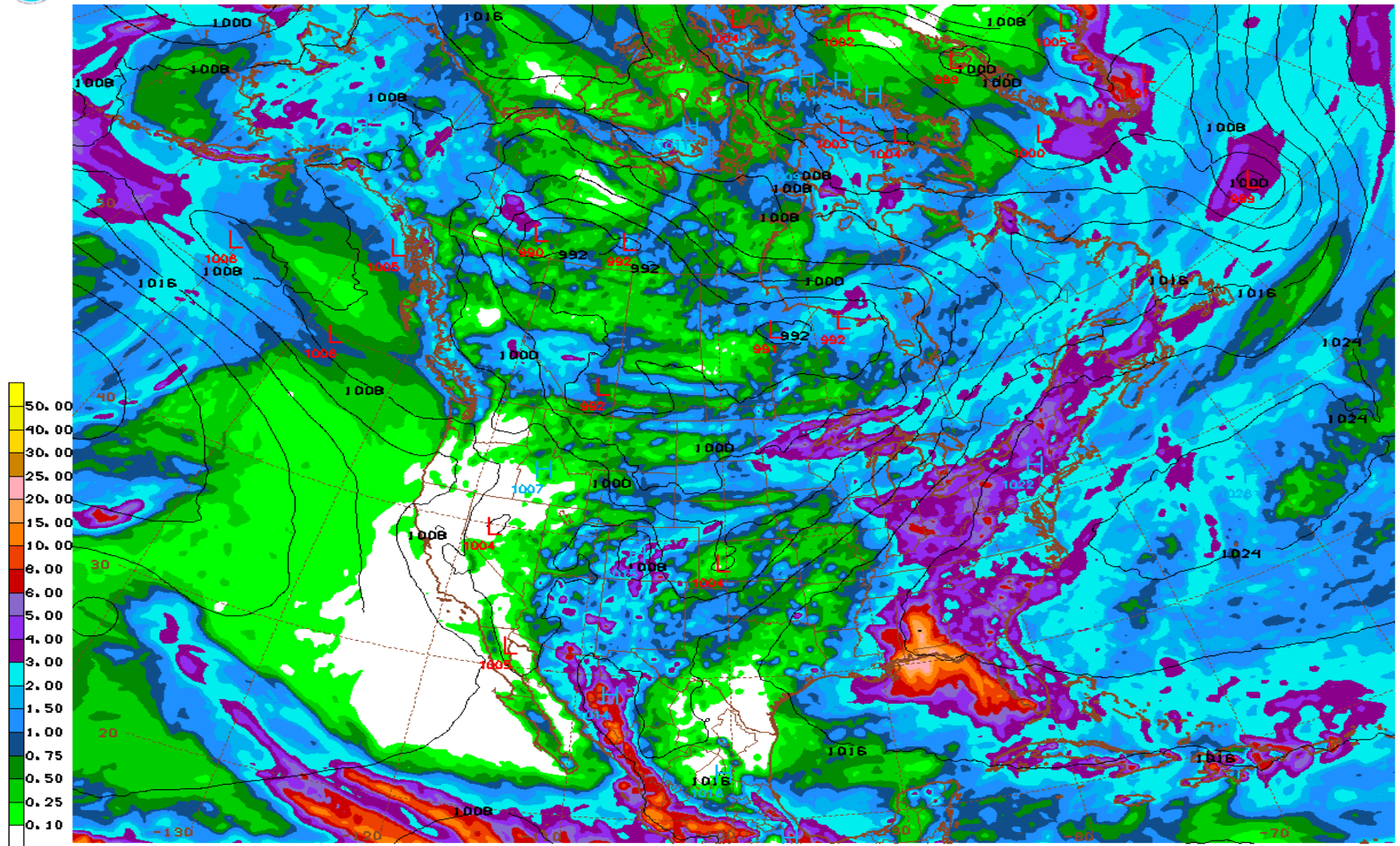
Cumulative Precipitation Comparison of Current Year versus Historic Record



Global Forecast System Model 16-day Cumulative Precipitation Forecast



GFS 07/29/24 12UTC 384HR FCST VALID WED 08/14/24 12UTC NOAA/NWS/NCEP



GFS WED 240814/1200V384 ENSL (4MB), 384HR ACCUMULATED PRECIP (IN)

Date Range
Jul 29 - Aug 14, 2024

Forecasted Cumulative (inches)
0.00