**State Water Resources Control Board**
**Temporary Urgency Change Orders (6/6/2024)**

# Russian River Hydrologic & Water Quality Report
## August 23, 2024 - August 29, 2024

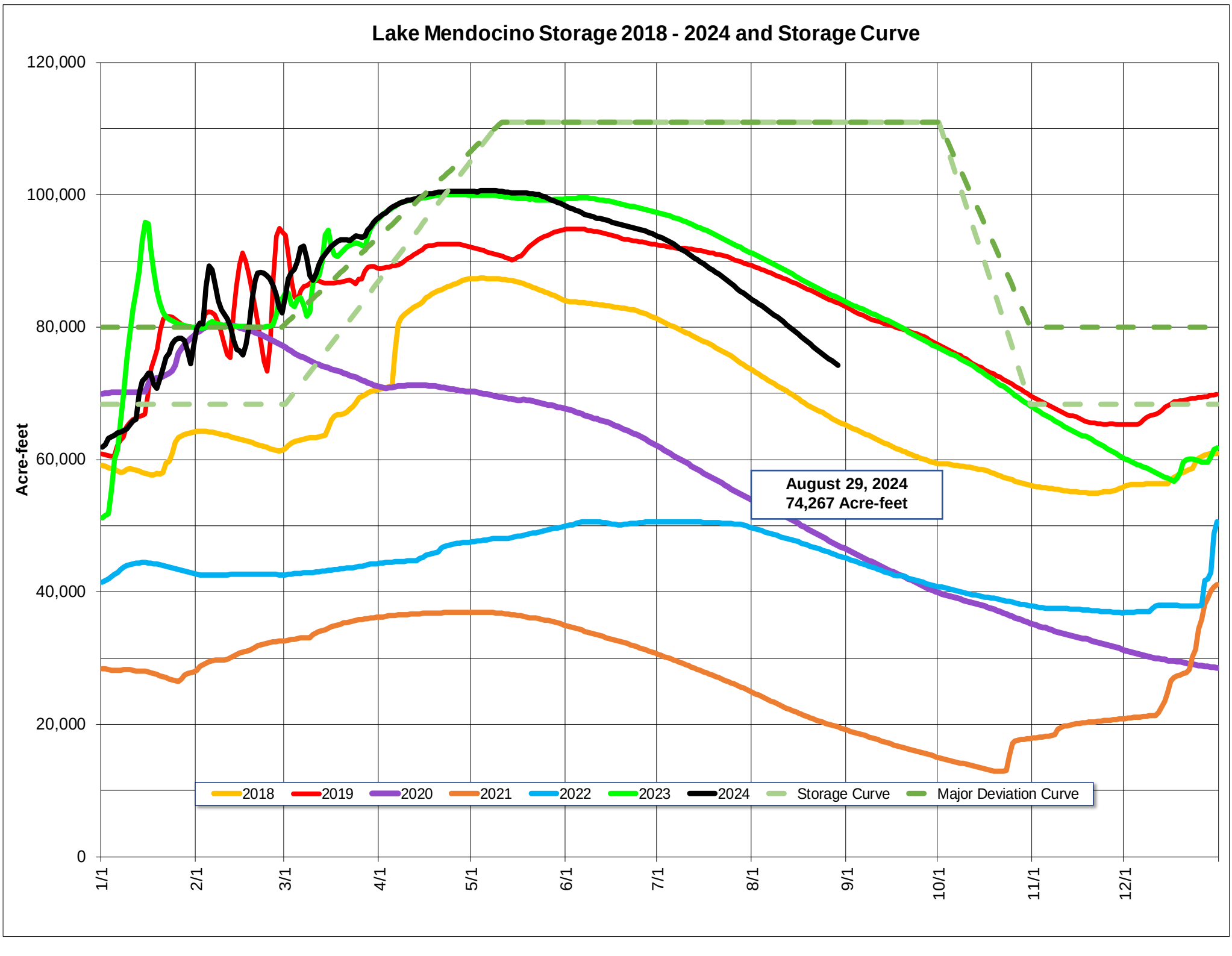
Prepared as a requirement of the Orders approving Sonoma Water's Petition for Temporary Urgency Change in Permits 12947A, 12949, 12950, and 16596 (Applications 12919A, 15736, 15737, and 19351).

**Instream Flow Requirements as of August 29, 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.

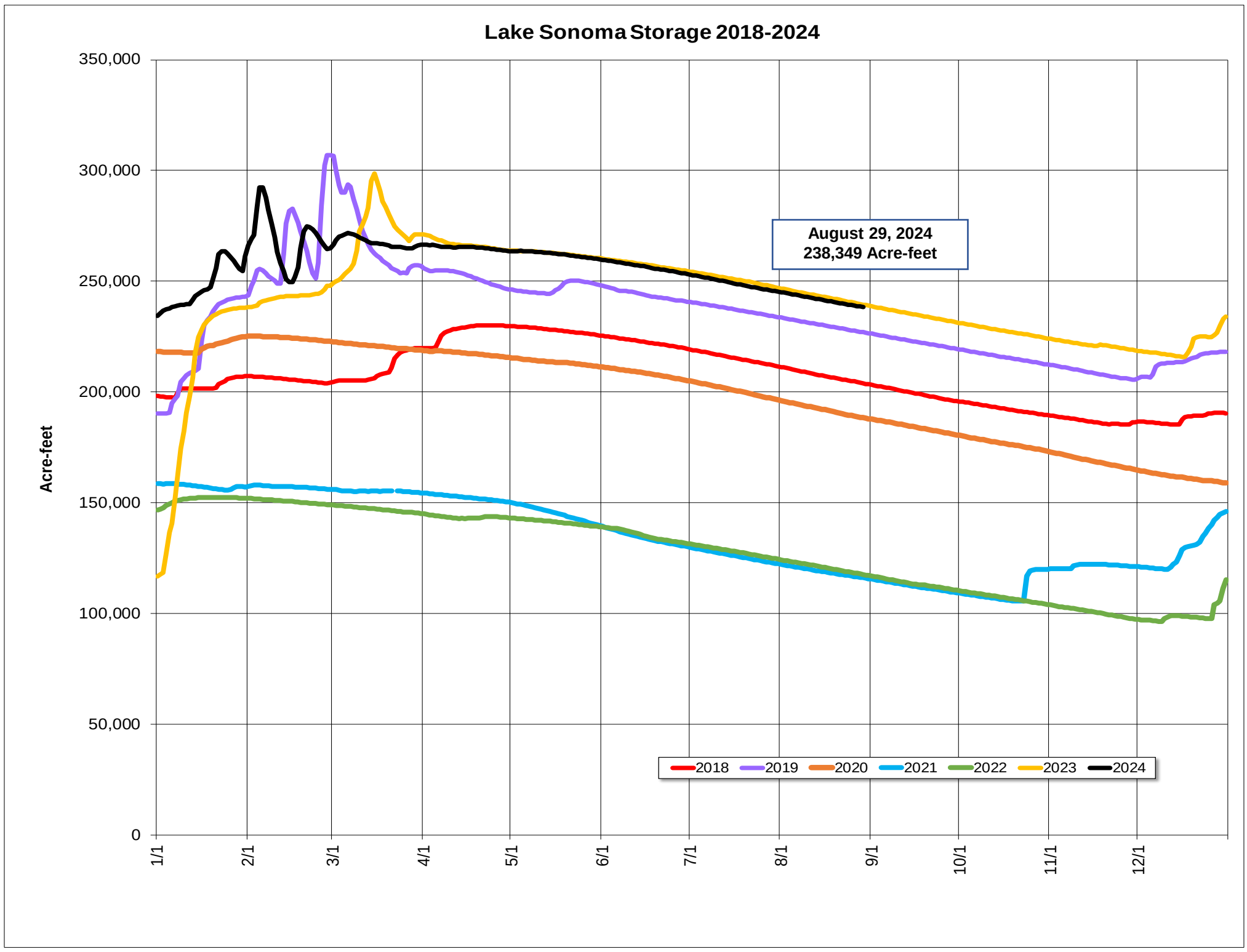
## Lake Mendocino




| Storage (acre-feet) | August 29, 2024 | **74,267** | |
|---|---|---|---|
| | | Total | Average Daily Rate |
| Change in Storage (acre-feet) | Last 30 days | **-10,499** | **-350** |
| | Last 7 days | **-2,010** | **-287** |
| Daily Inflow (cfs) | Last 7 days | Min | **28** |
| | | Max | **59** |
| | | Mean | **49** |
| Release (cfs) | Last 7 days | Min | **197** |
| | | Max | **219** |
| | | Mean | **205** |

# Lake Sonoma

Todd Schram, February 10 , 2024



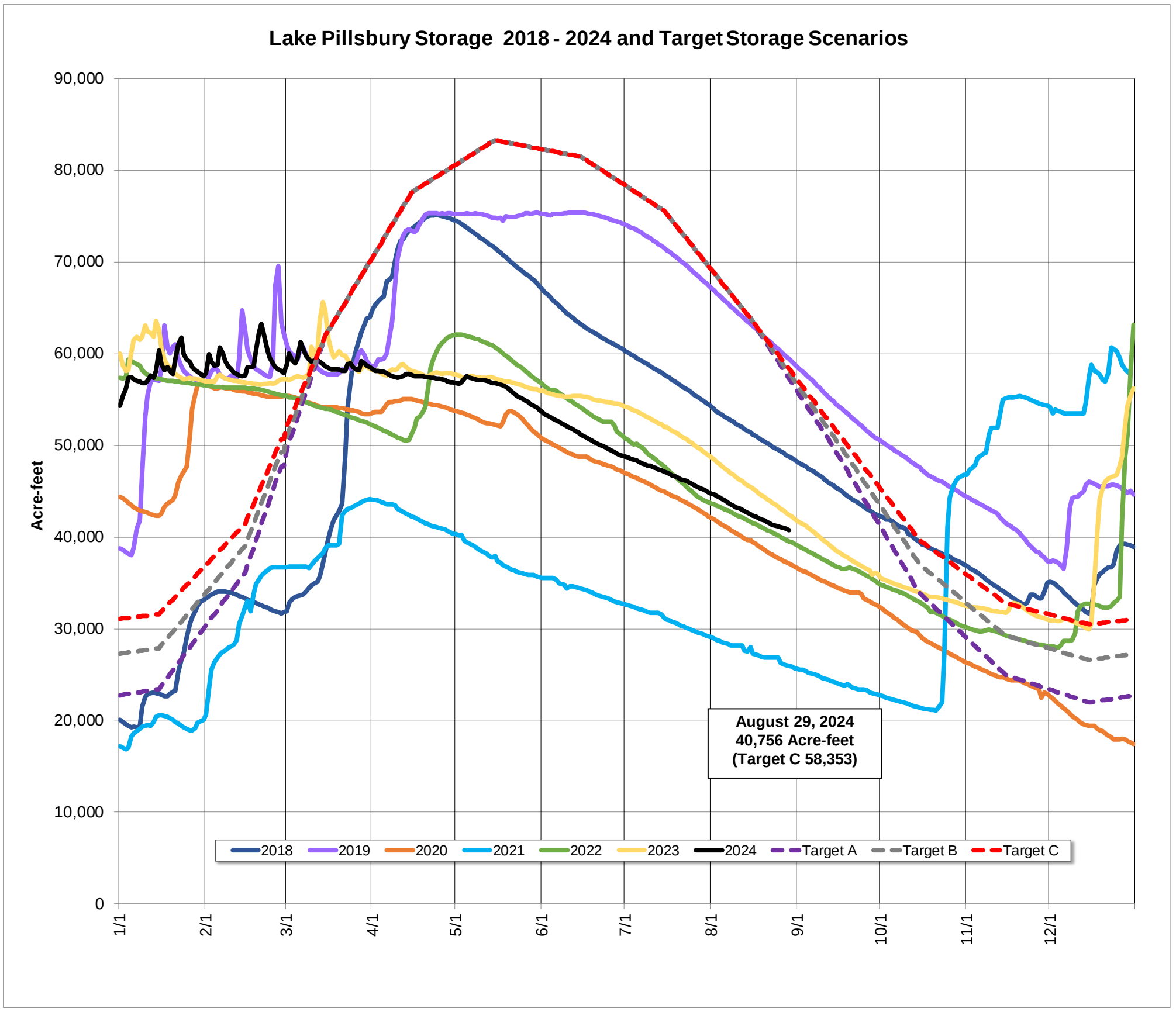

| Storage (acre-feet) | August 29, 2024 | **238,349** | |
|---|---|---|---|
| | | Total | Average Daily Rate |
| Change in Storage (acre-feet) | Last 30 days | **-7,141** | **-238** |
| | Last 7 days | **-1,584** | **-226** |
| Daily Inflow (cfs) | Last 7 days | Min | **0** |
| | | Max | **32** |
| | | Mean | **10** |
| Release (cfs) | Last 7 days | Min | **97** |
| | | Max | **98** |
| | | Mean | **97** |

# Potter Valley Project

| | | |
|---|---|---|
| PVP Diversion (cfs) | August 29, 2024 | **47** |

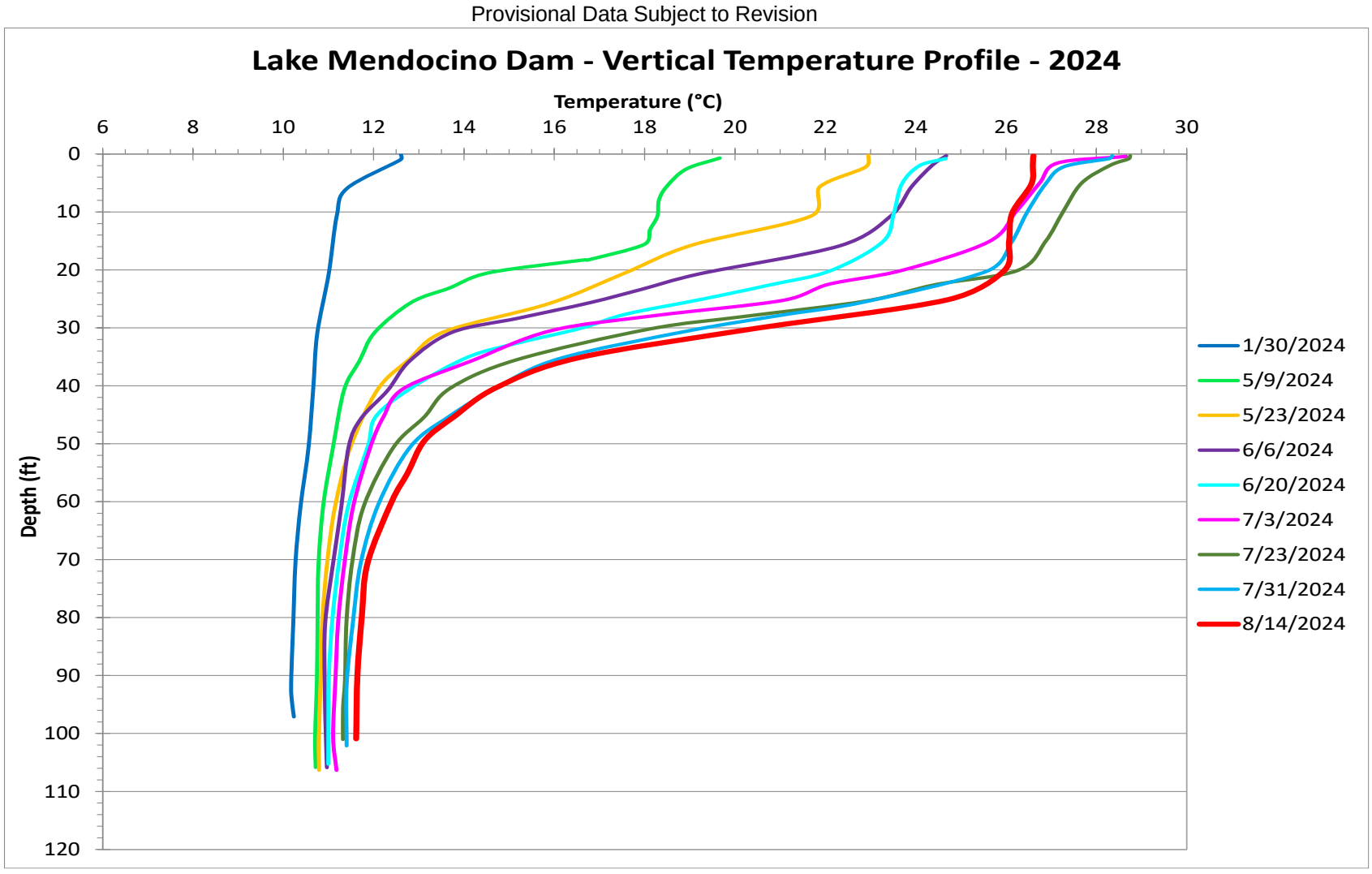
| Parameter | Date Range | Cumulative | Daily Average |
|---|---|---|---|
| Inflow* (acre-feet) | October 1, 2023 - August 30, 2024 | **487,132** | **1,458** |
| | Last 7 days | **257** | **37** |

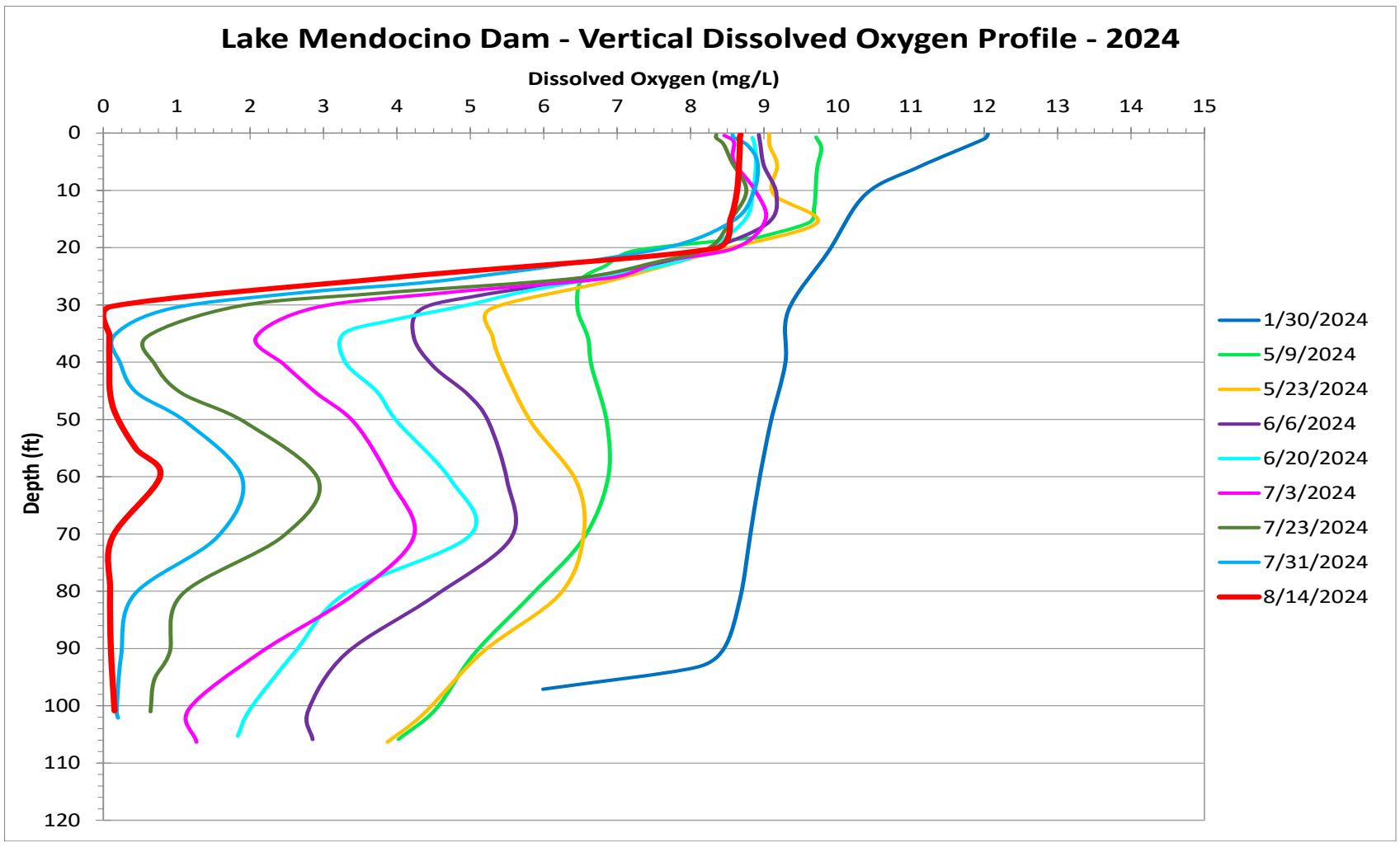
*Inflow calculation based on criteria established in D1610

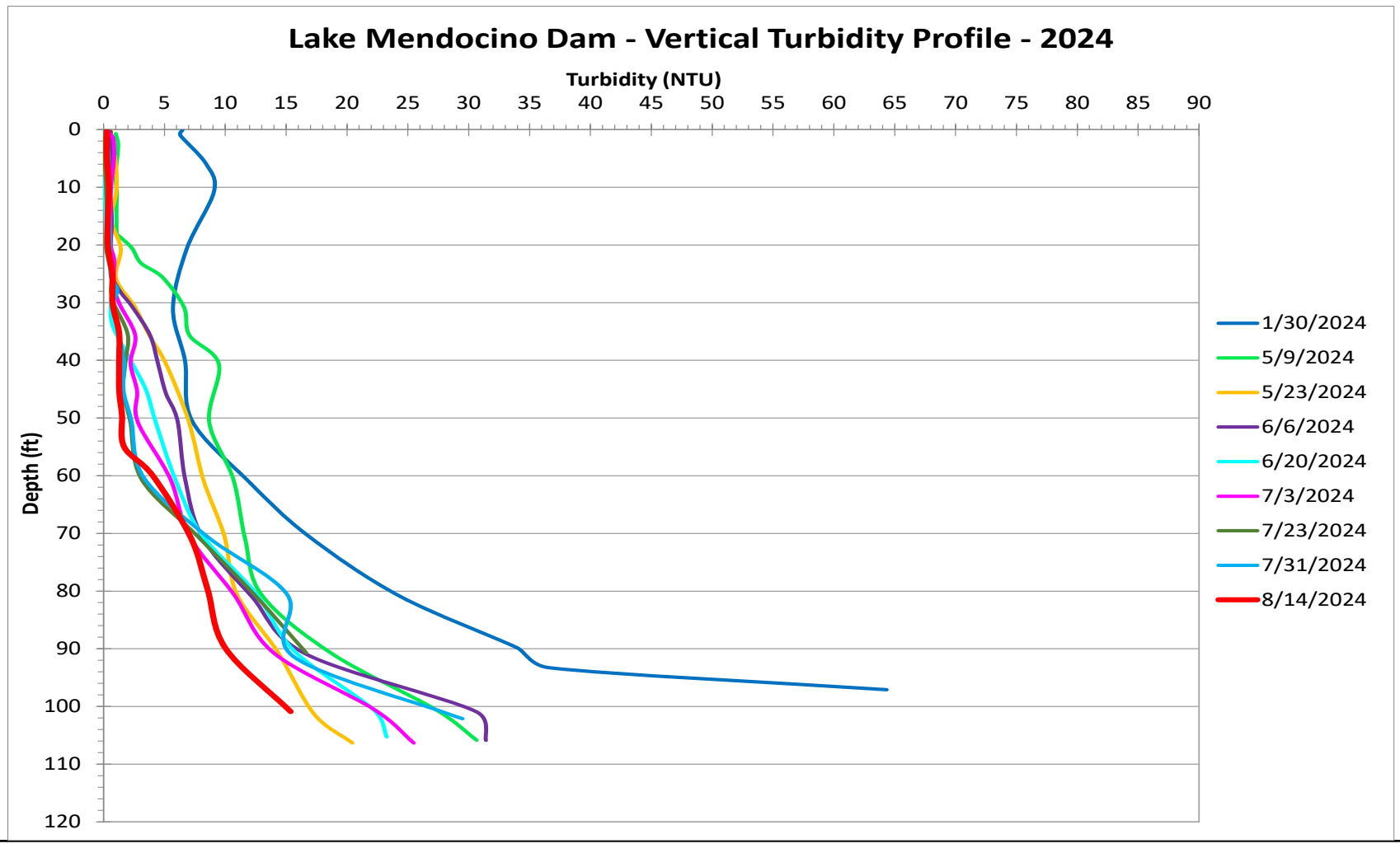


# Lake Mendocino Water Quality Vertical Profiles (January 30 – August 14, 2024)

Provisional Data Subject to Revision



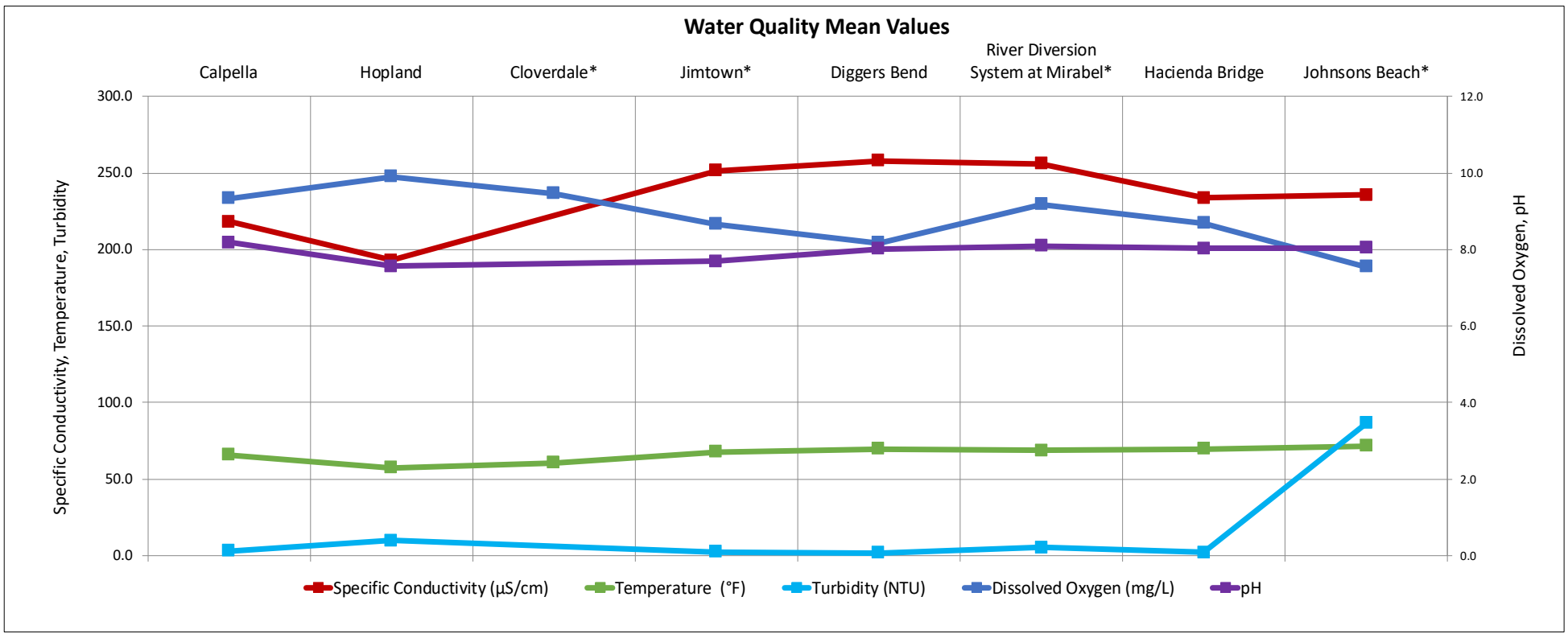



# Russian River Flows (August 23, 2024 - August 29, 2024)

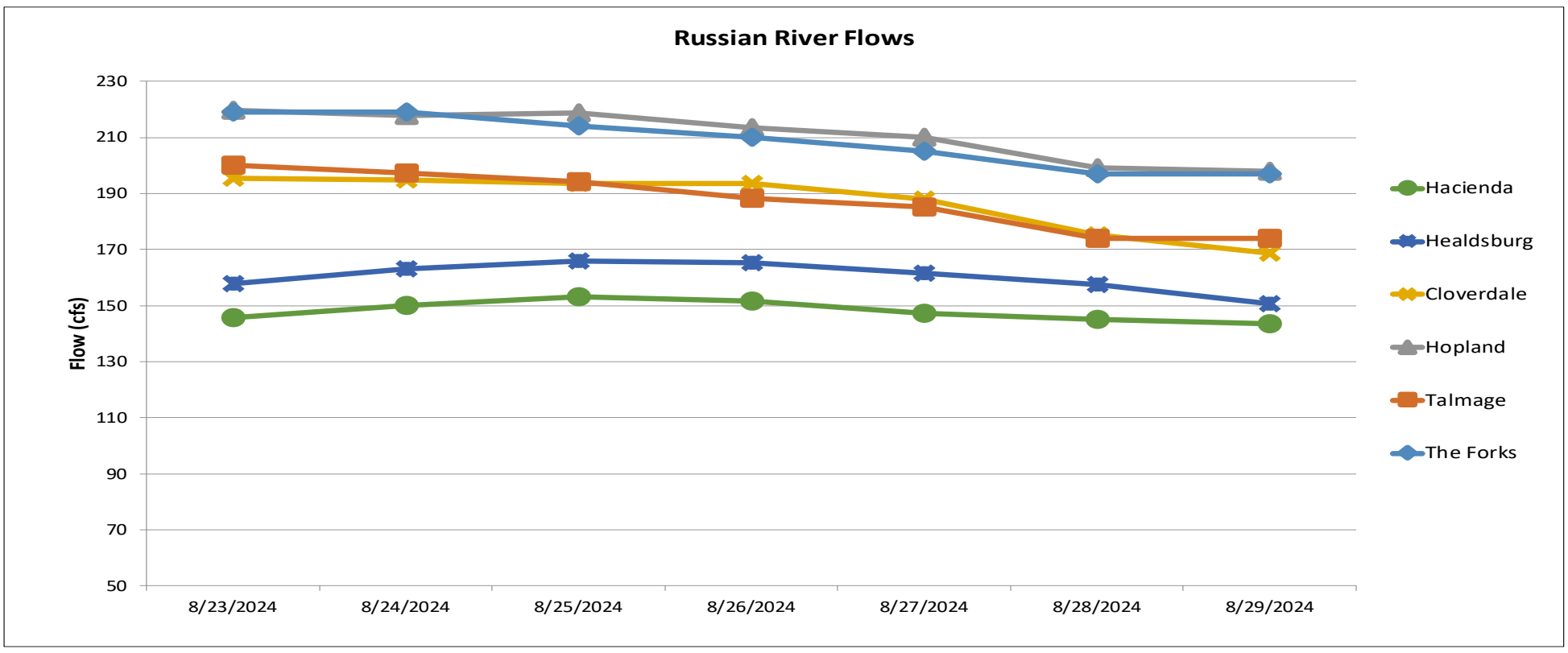
| Parameter | | Calpella | Hopland | Cloverdale* | Jimtown* | Diggers Bend | River Diversion System at Mirabel* | Hacienda Bridge | Johnsons Beach* |
|---|---|---|---|---|---|---|---|---|---|
| | | USGS 11461500 | USGS 11462500 | USGS 11463000 | USGS 11463682 | USGS 11463980 | SCWA | USGS 11467000 | SCWA |
| Temperature (°F) | Min | 62.1 | 54.9 | 57.6 | 64.2 | 66.2 | 66.7 | 65.8 | 70.1 |
| | Max | 70.7 | 60.3 | 65.1 | 72.0 | 74.1 | 71.2 | 74.1 | 74.3 |
| | Mean | 65.6 | 57.4 | 60.6 | 67.6 | 69.7 | 68.5 | 69.6 | 71.4 |
| Specific Conductivity (µS/cm) | Min | 214.0 | 191.0 | | 249.0 | 256.0 | 238.6 | 231.0 | 135.4 |
| | Max | 223.0 | 195.0 | | 257.0 | 261.0 | 276.8 | 237.0 | 249.6 |
| | Mean | 218.4 | 193.0 | | 251.4 | 258.1 | 256.2 | 233.7 | 235.7 |
| Dissolved Oxygen (mg/L) | Min | 8.3 | 8.9 | 8.7 | 7.0 | 7.2 | 8.3 | 6.8 | 4.7 |
| | Max | 11.0 | 11.2 | 10.4 | 11.0 | 9.2 | 10.1 | 9.5 | 8.2 |
| | Mean | 9.3 | 9.9 | 9.5 | 8.7 | 8.2 | 9.2 | 8.7 | 7.5 |
| Dissolved Oxygen (% Saturation) | Min | 91.7 | 87.3 | 89.2 | 75.7 | 79.5 | 91.8 | 73.9 | 54.2 |
| | Max | 117.0 | 111.5 | 109.2 | 121.9 | 106.5 | 113.1 | 109.2 | 93.6 |
| | Mean | 100.0 | 96.4 | 95.7 | 95.0 | 91.6 | 101.6 | 97.6 | 86.2 |
| pH | Min | 8.0 | 7.4 | | 7.4 | 7.8 | 7.9 | 7.4 | 7.8 |
| | Max | 8.5 | 7.9 | | 8.1 | 8.2 | 8.2 | 8.5 | 8.1 |
| | Mean | 8.2 | 7.6 | | 7.7 | 8.0 | 8.1 | 8.0 | 8.0 |
| Turbidity (NTU) | Min | 1.7 | 7.5 | | 1.3 | 1.0 | 3.1 | 1.1 | 7.1 |
| | Max | 5.2 | 12.1 | | 4.0 | 2.4 | 52.1 | 3.4 | 1484.1 |
| | Mean | 2.8 | 9.7 | | 2.2 | 1.6 | 5.1 | 2.0 | 86.3 |

*Station operated seasonally




| Gage | 24-hr Average Flow (cfs) | | | | | | |
|---|---|---|---|---|---|---|---|
| | Aug 23, 2024 | Aug 24, 2024 | Aug 25, 2024 | Aug 26, 2024 | Aug 27, 2024 | Aug 28, 2024 | Aug 29, 2024 |
| The Forks* | 219 | 219 | 214 | 210 | 205 | 197 | 197 |
| Talmage USGS 11462080 | 200 | 197 | 194 | 188 | 185 | 174 | 174 |
| Hopland USGS 11462500 | 220 | 218 | 219 | 214 | 210 | 199 | 198 |
| Cloverdale USGS 11463000 | 195 | 195 | 194 | 194 | 188 | 175 | 169 |
| Healdsburg USGS 11464000 | 158 | 163 | 166 | 165 | 162 | 157 | 151 |
| Hacienda USGS 11467000 | 146 | 150 | 153 | 152 | 147 | 145 | 143 |

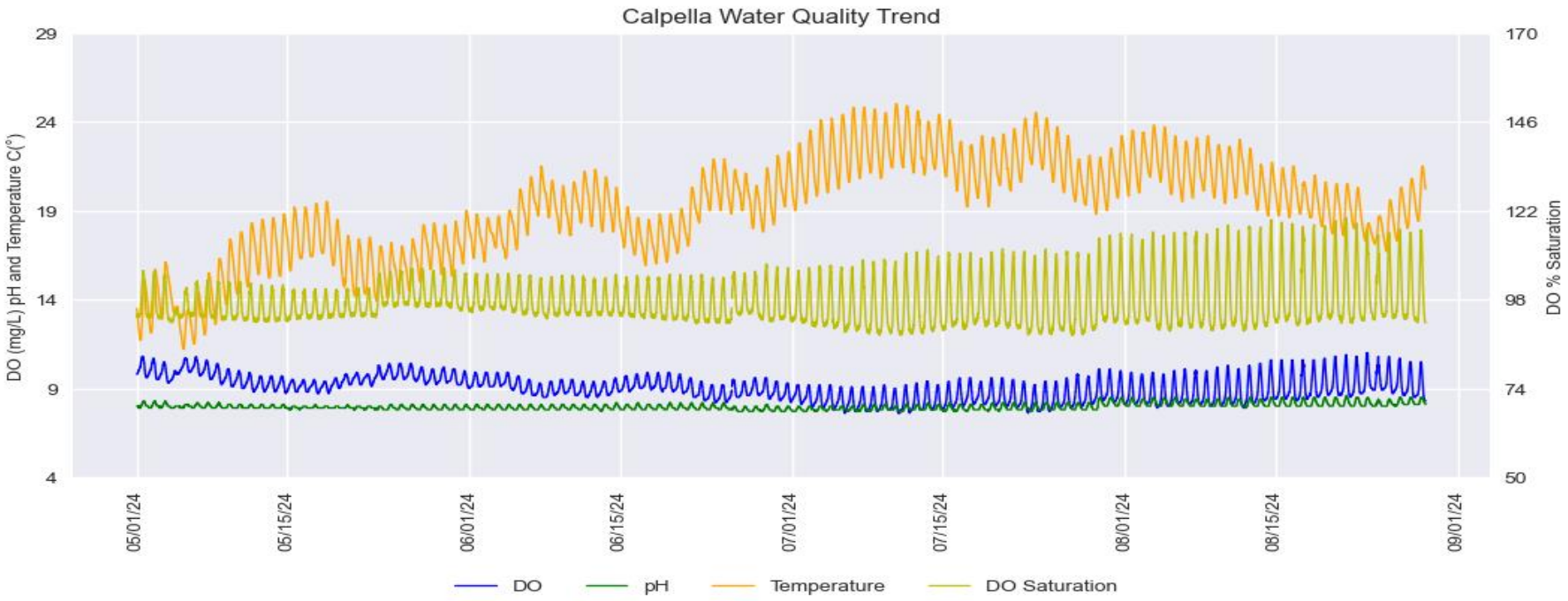
*West Fork(USGS 11461000) + East Fork (Coyote Valley Dam Release)

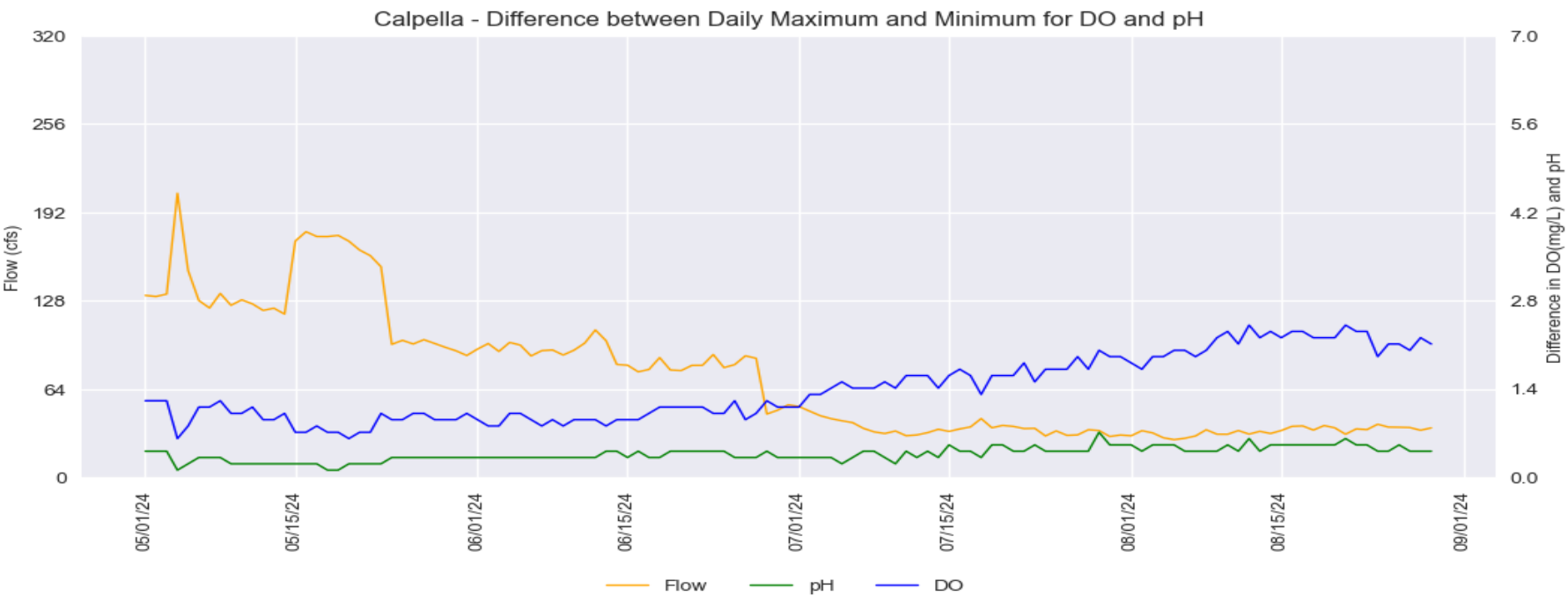


# Russian River Water Quality May 1, 2024 – August 29, 2024

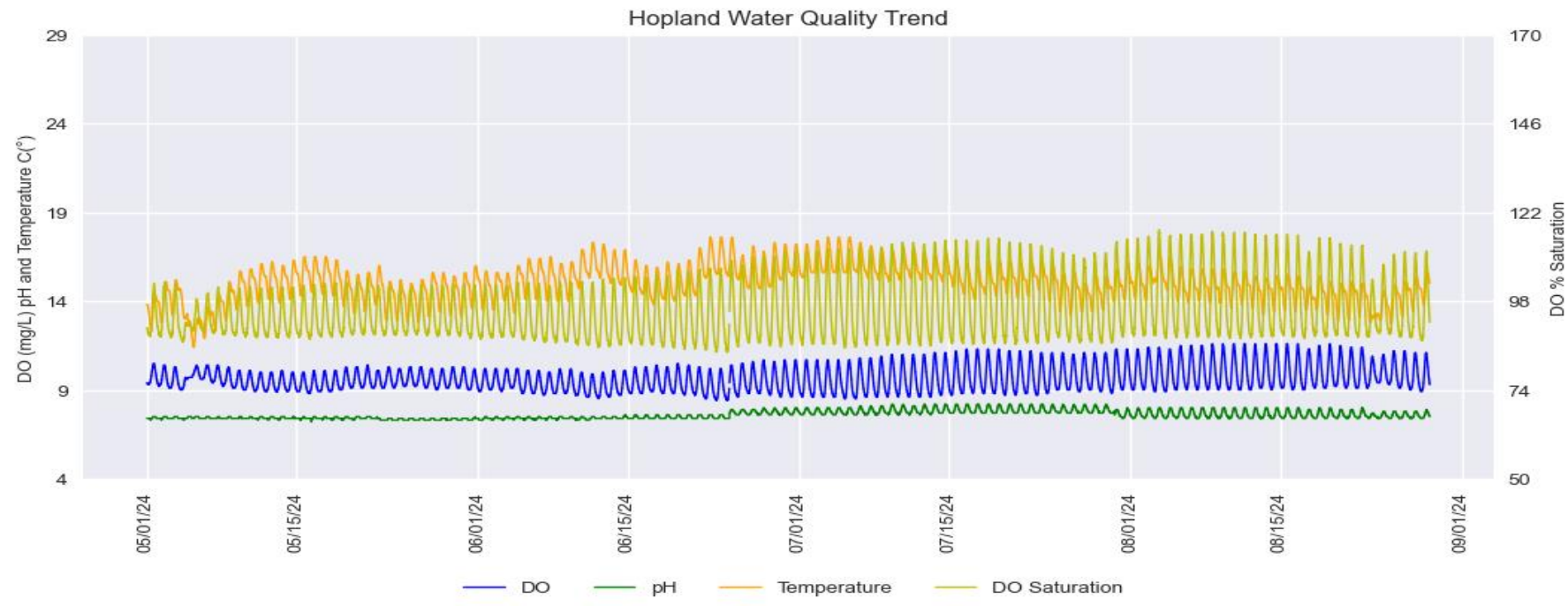
Provisional Data Subject to Revision

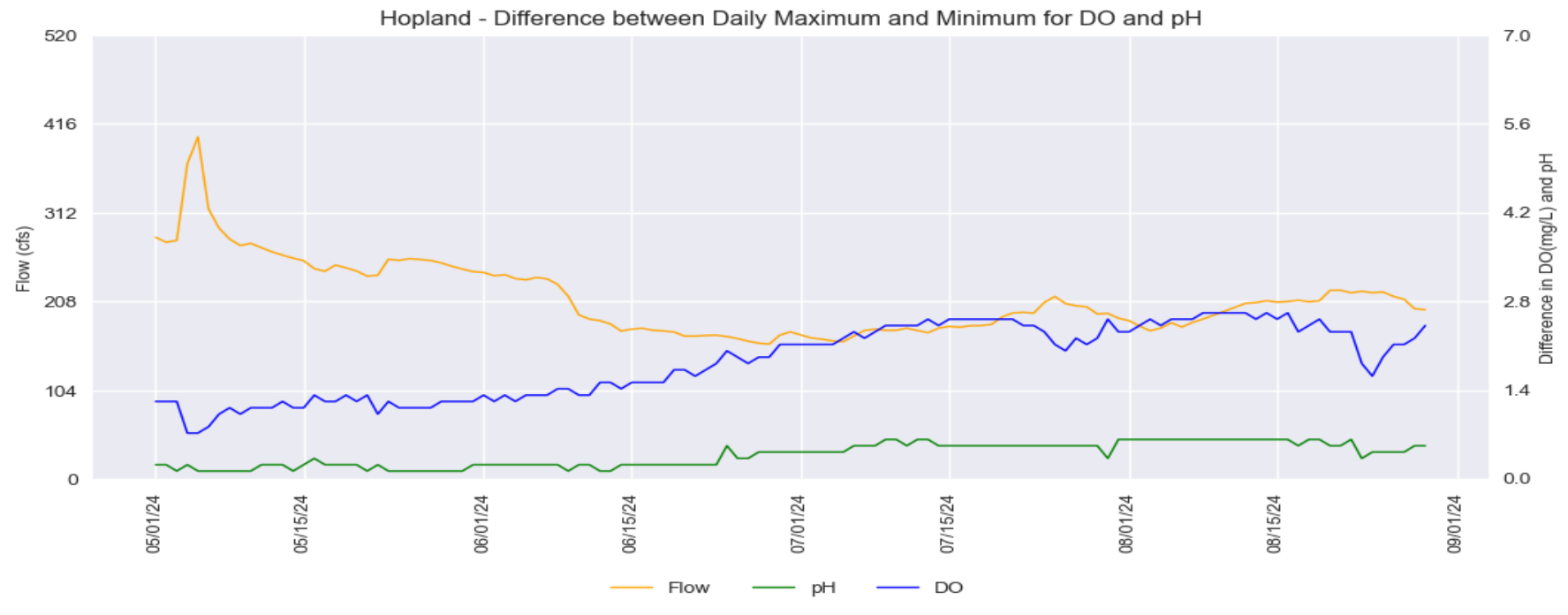
**Calpella**




**Hopland**

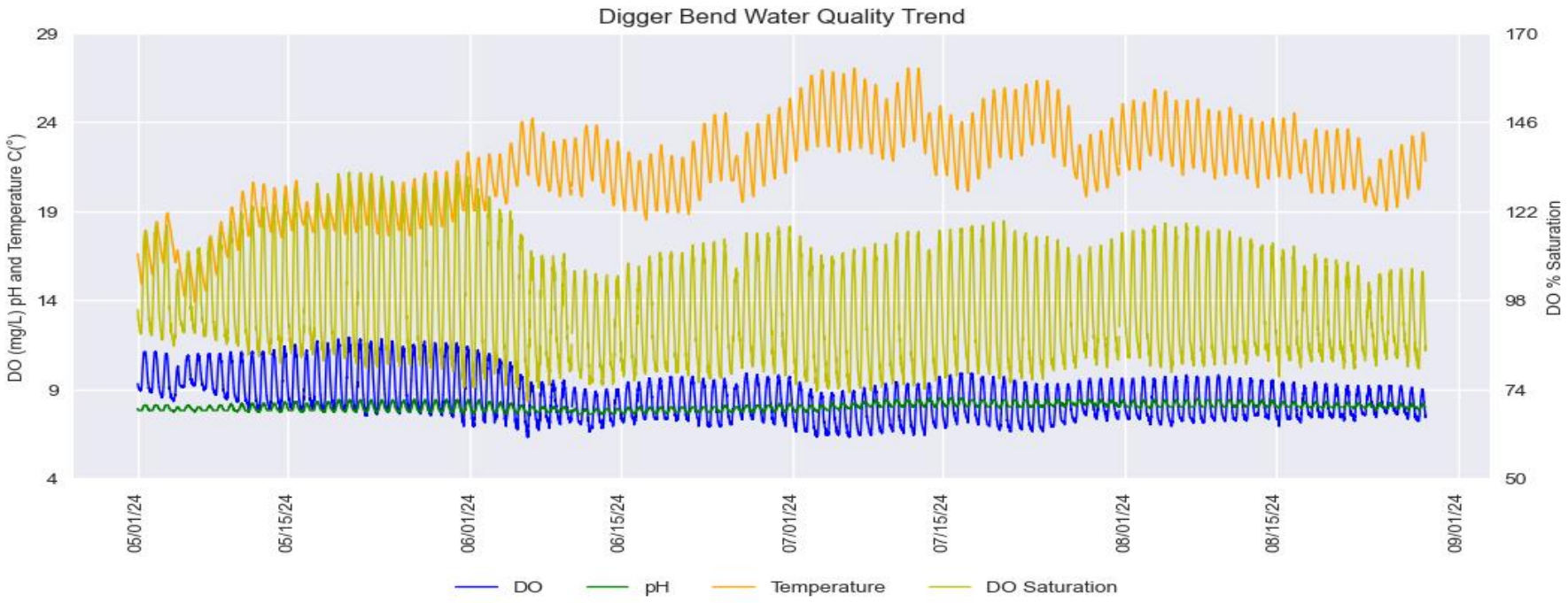


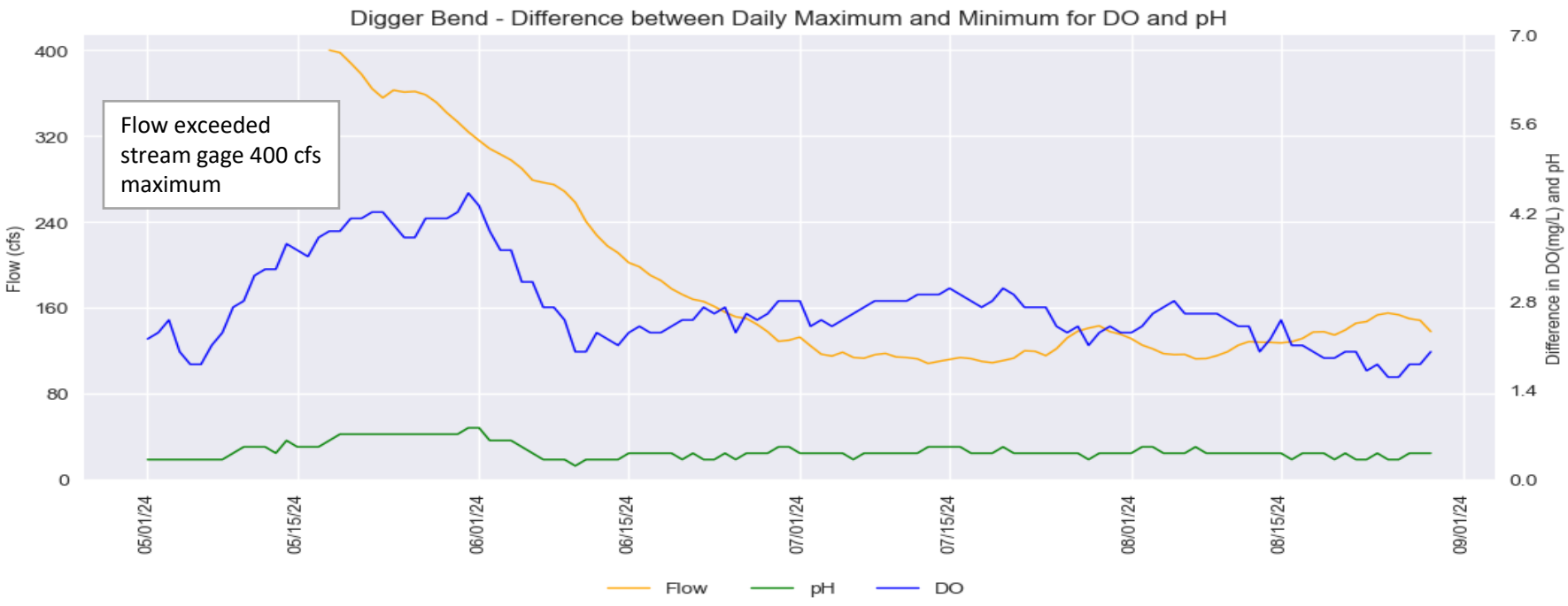



# Russian River Water Quality May 1, 2024 – August 29, 2024

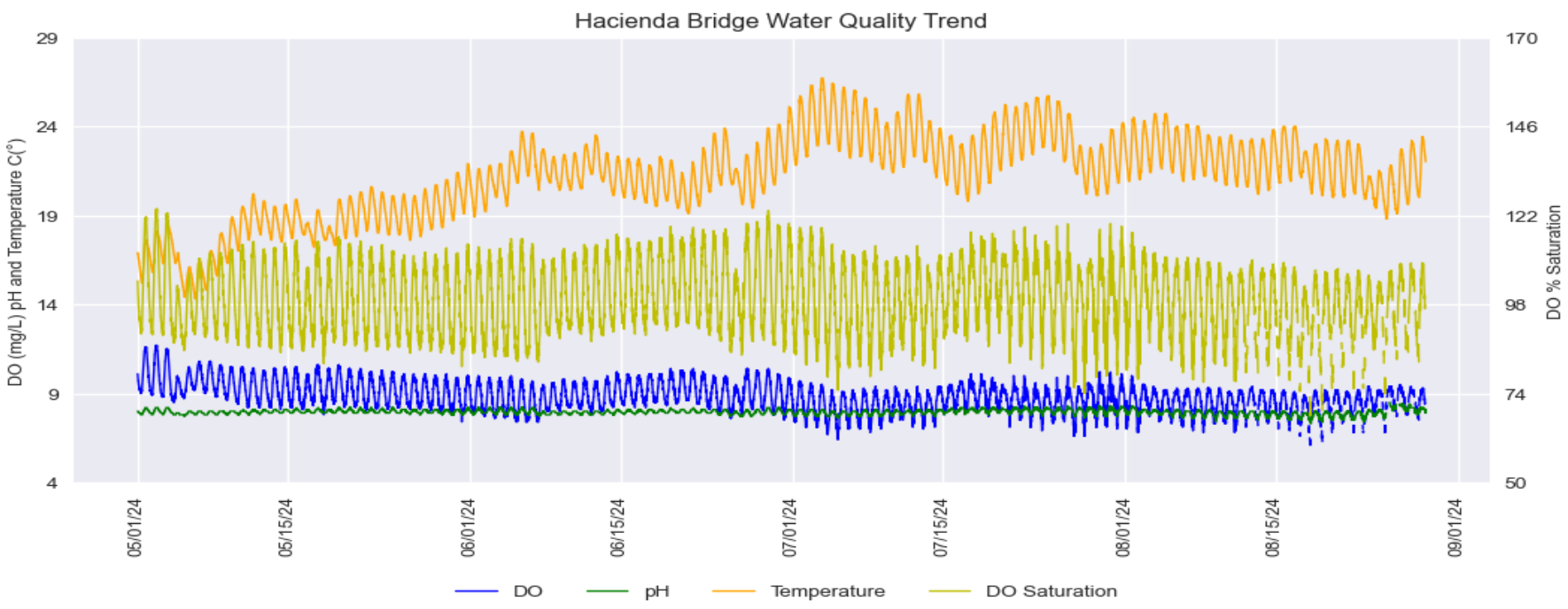
Provisional Data Subject to Revision

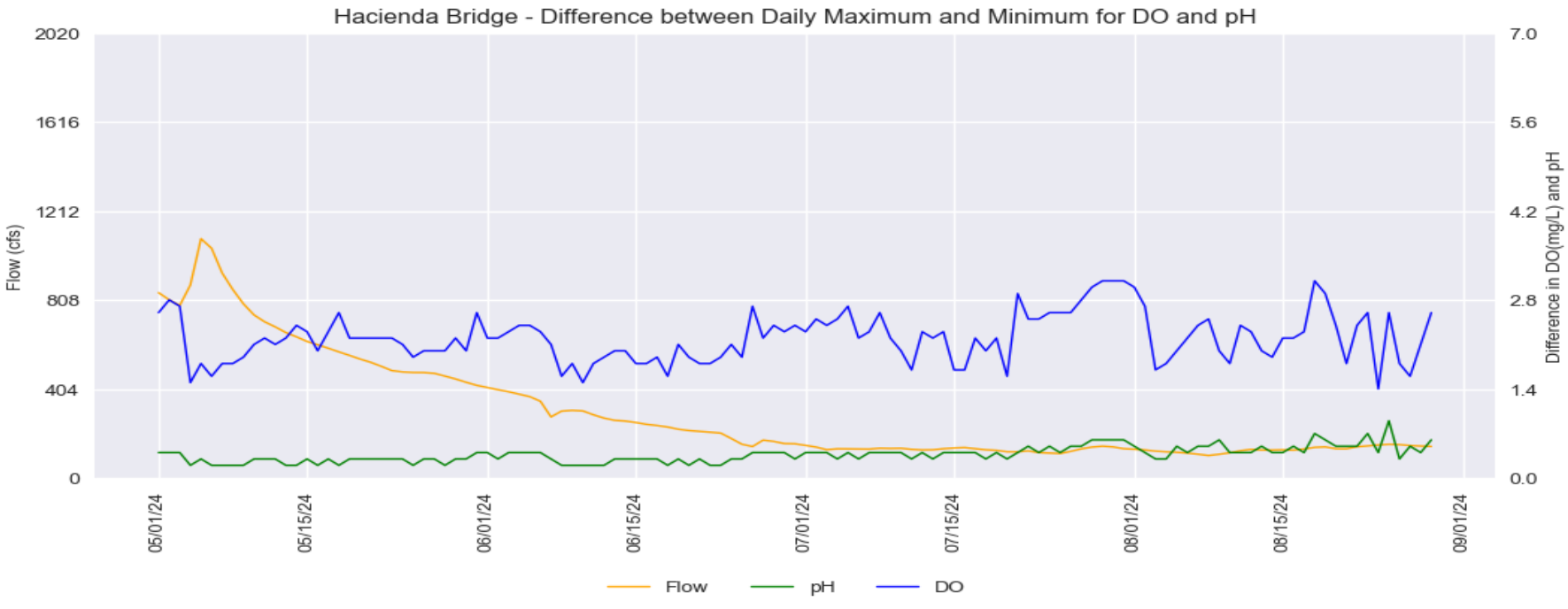
## Digger Bend




## Hacienda Bridge

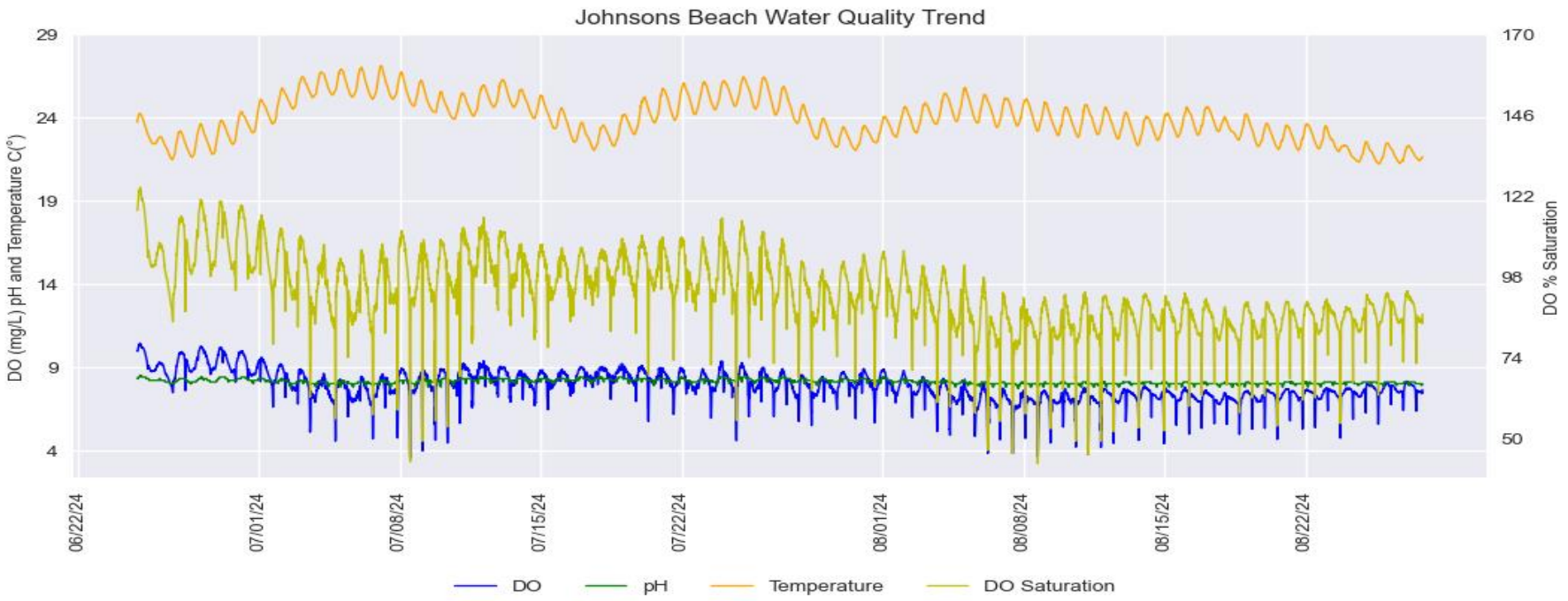


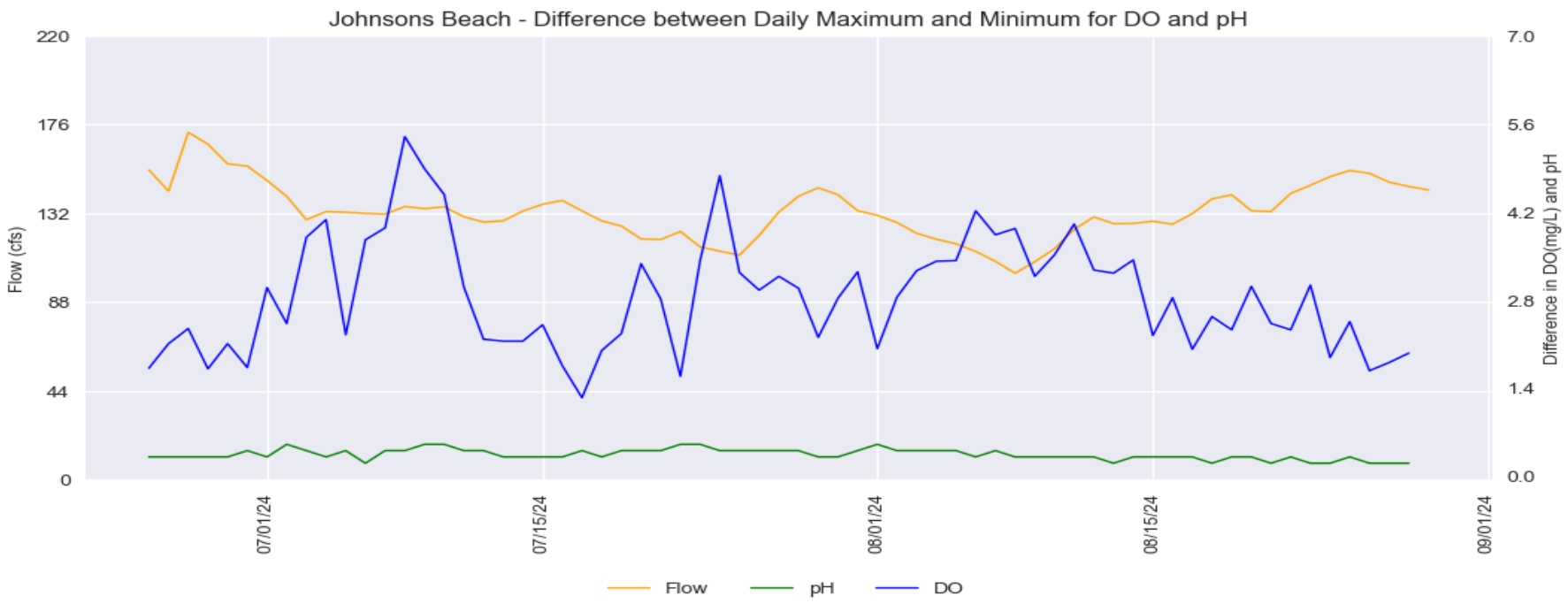



Russian River Water Quality June 24, 2024 – August 29, 2024

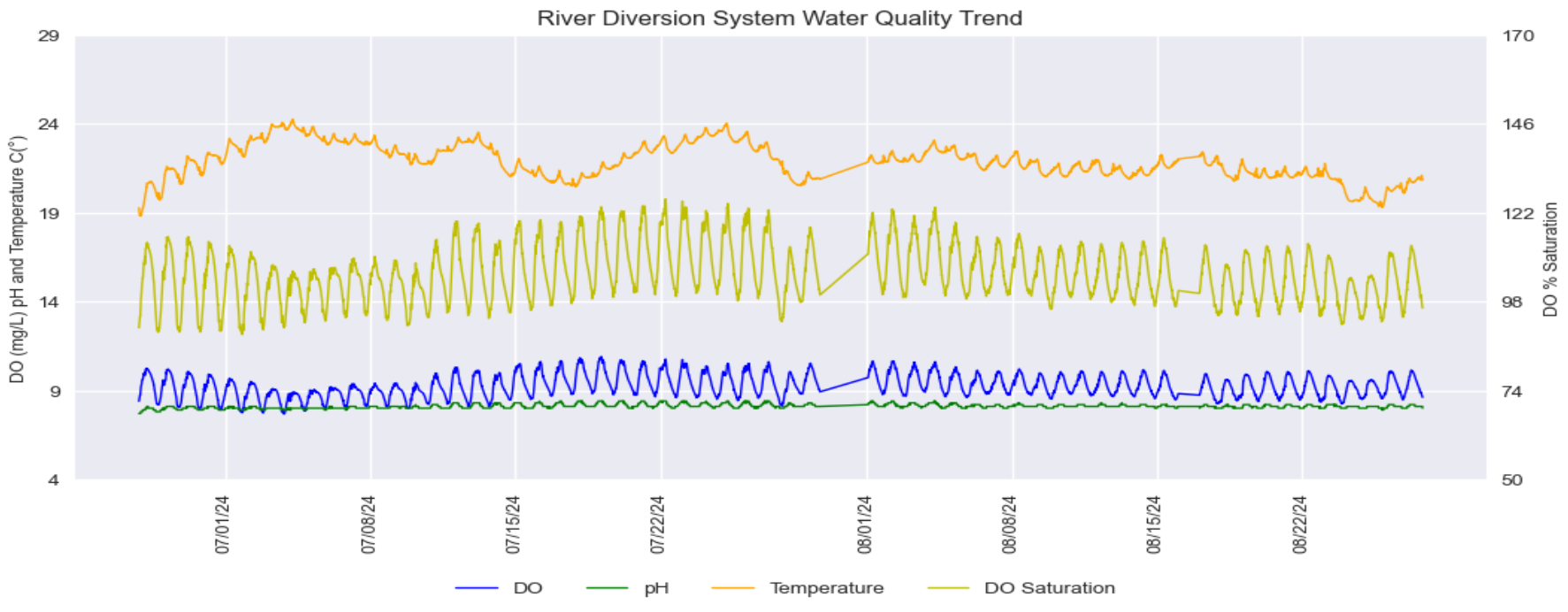
Provisional Data Subject to Revision

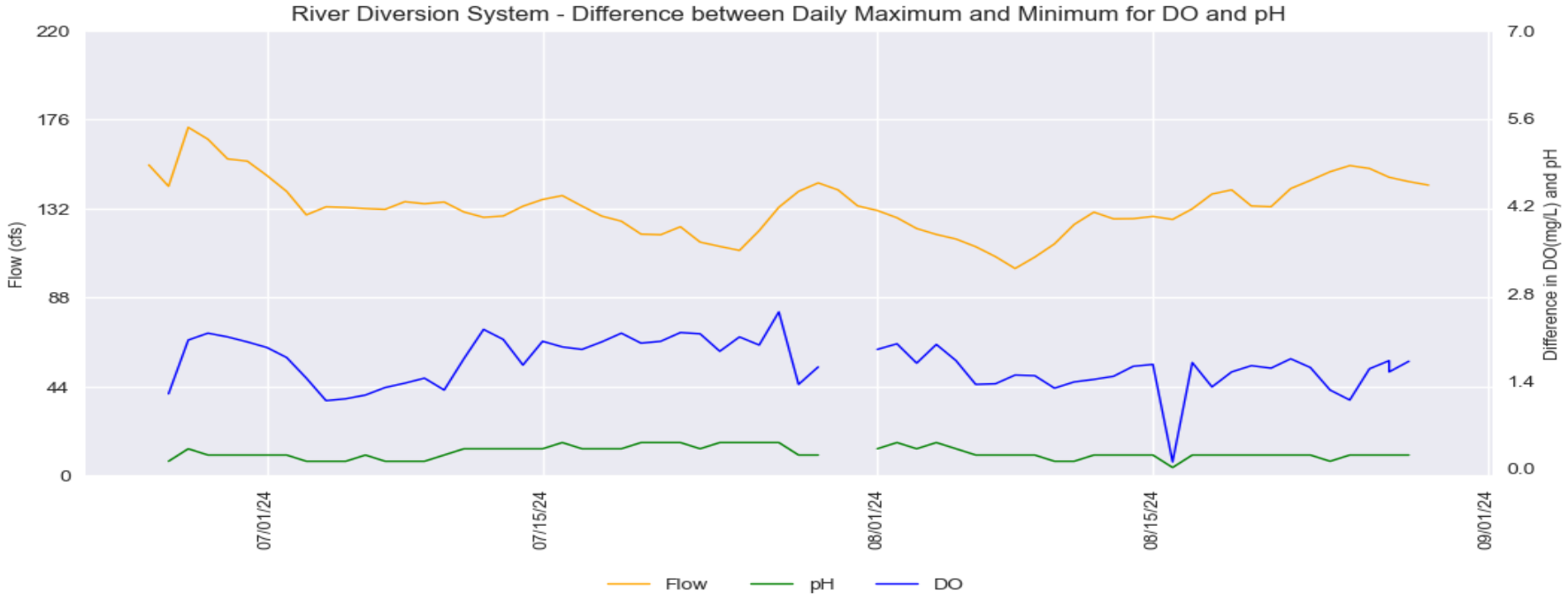
**Johnsons Beach**



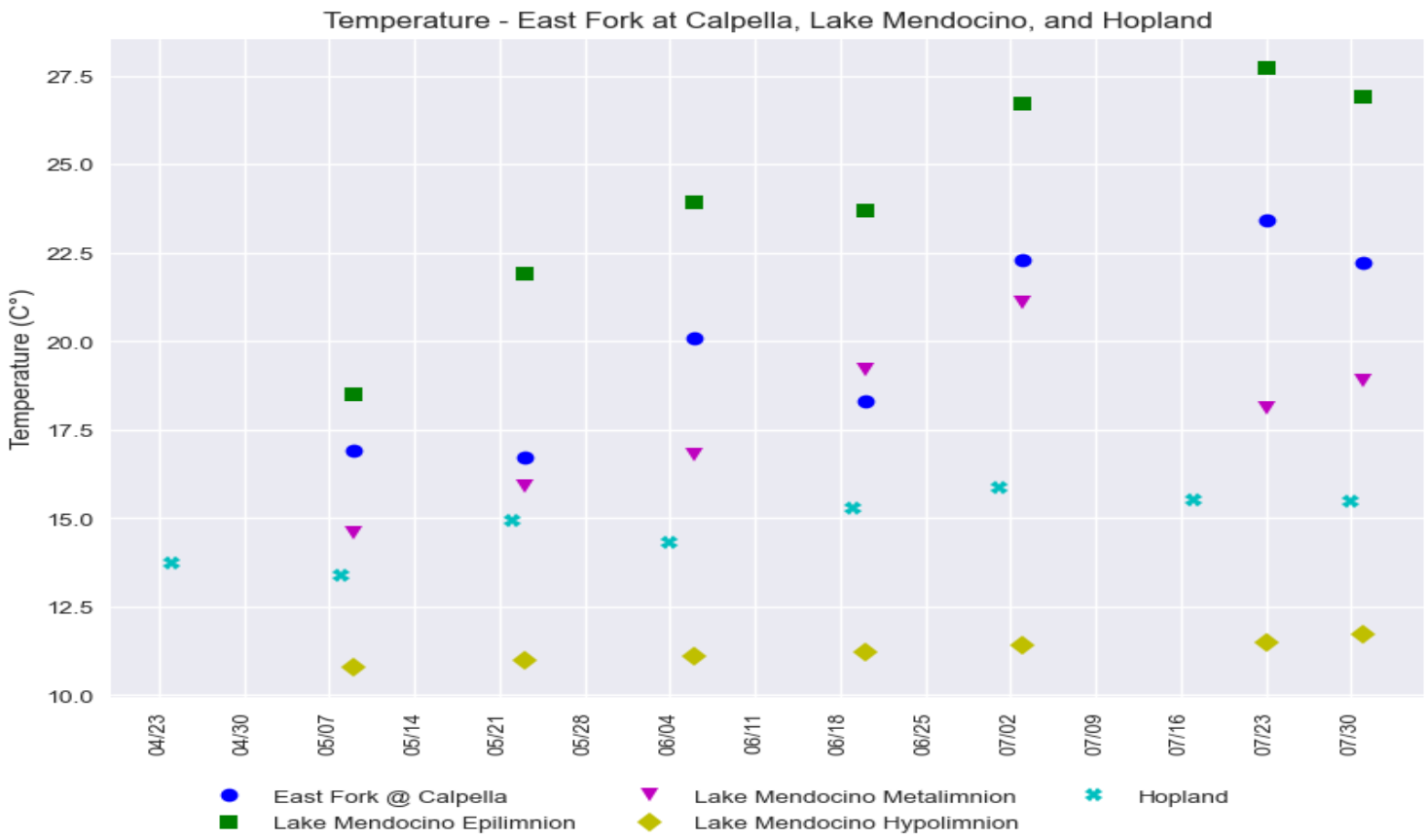

**River Diversion System at Mirabel**

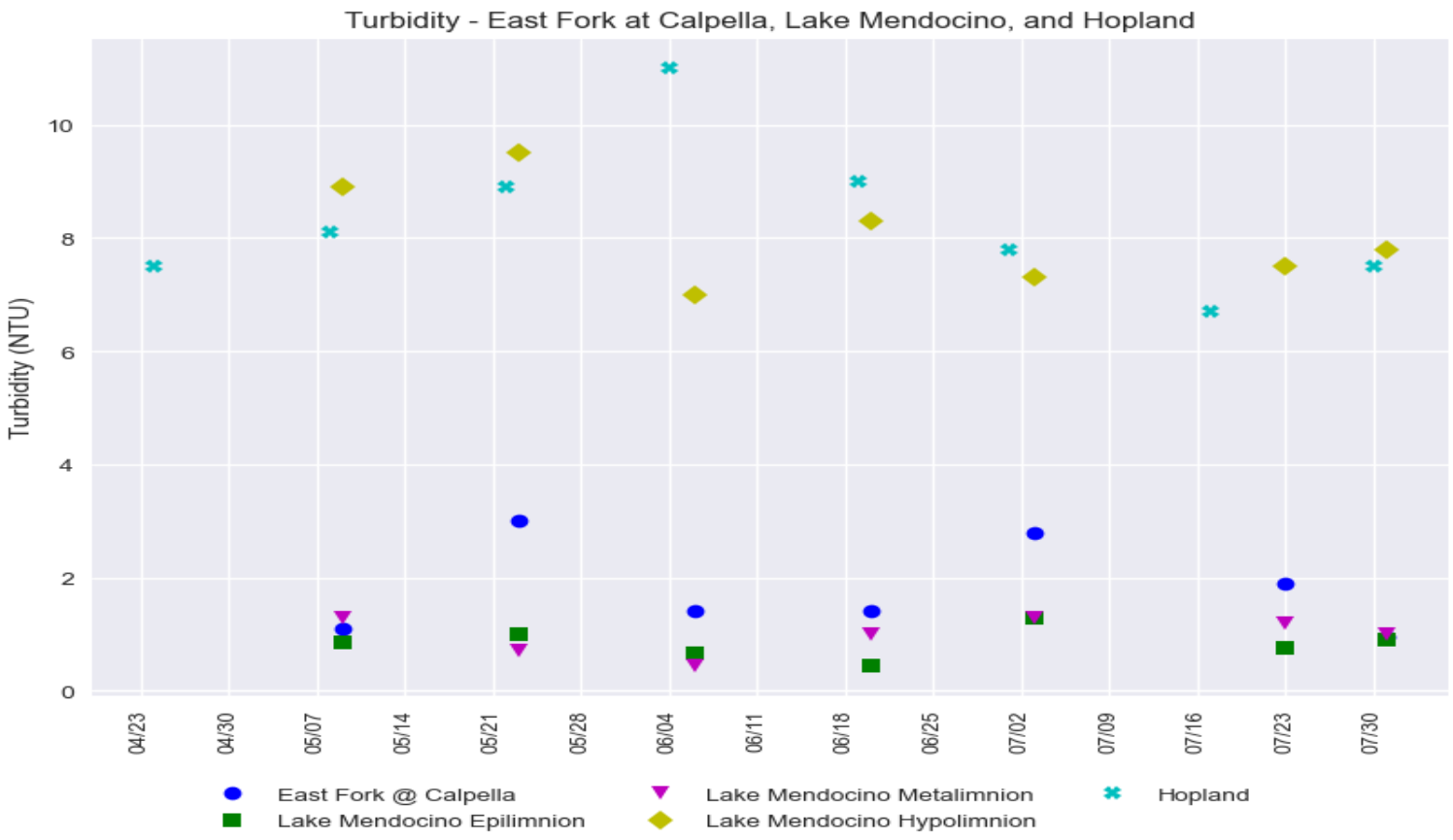


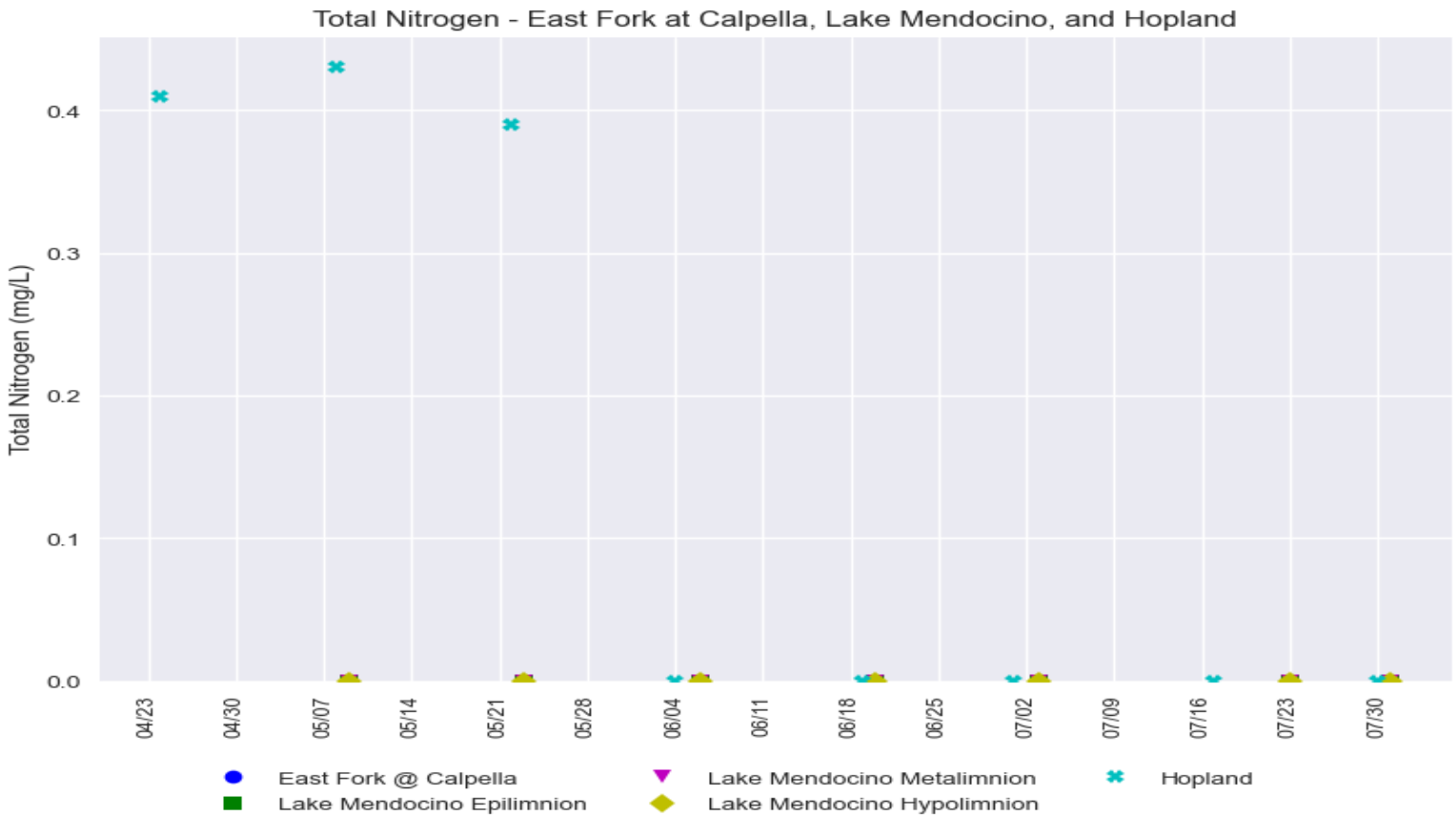



# Russian River Water Quality Grab Samples

Provisional Data Subject to Revision

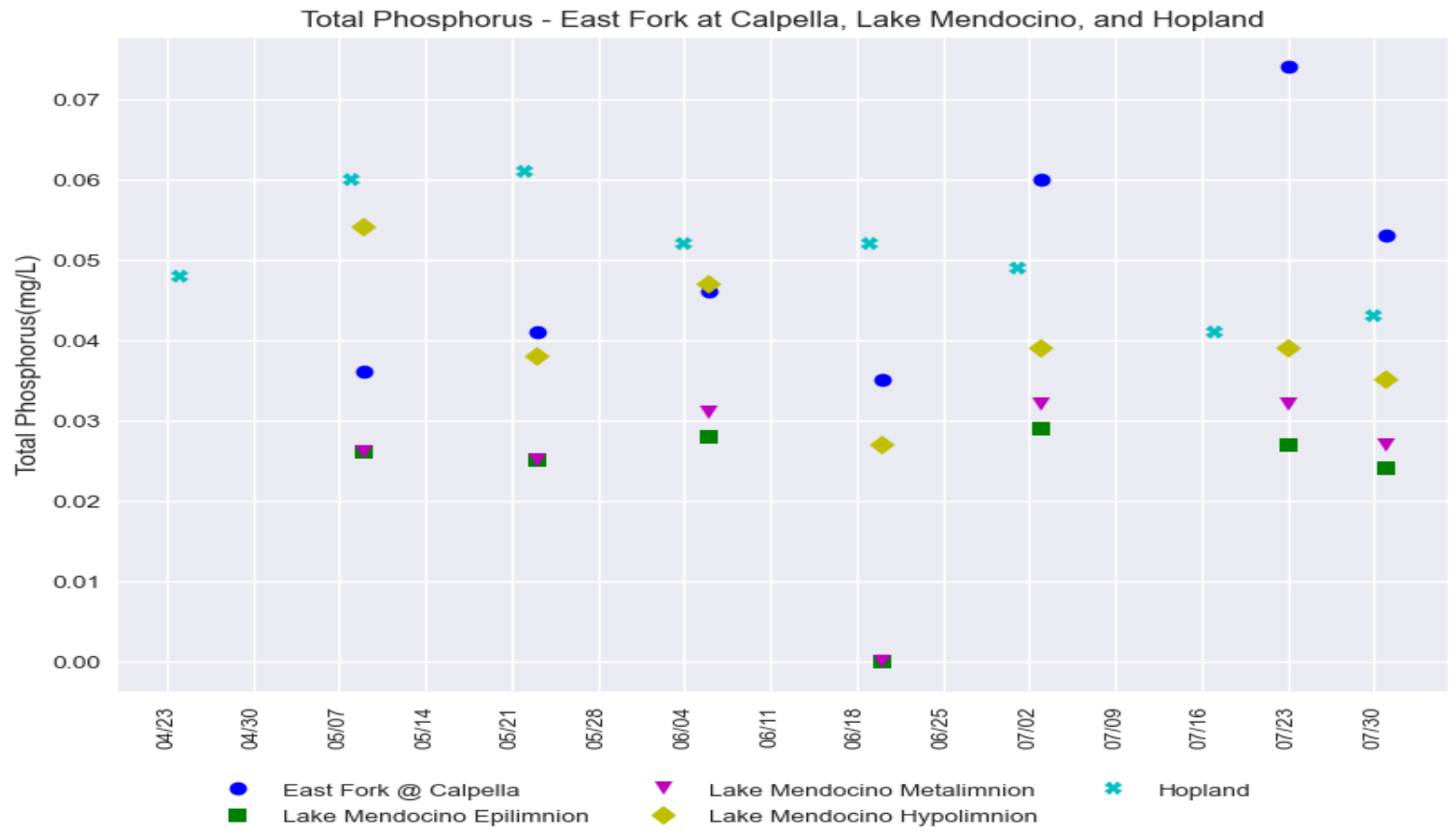


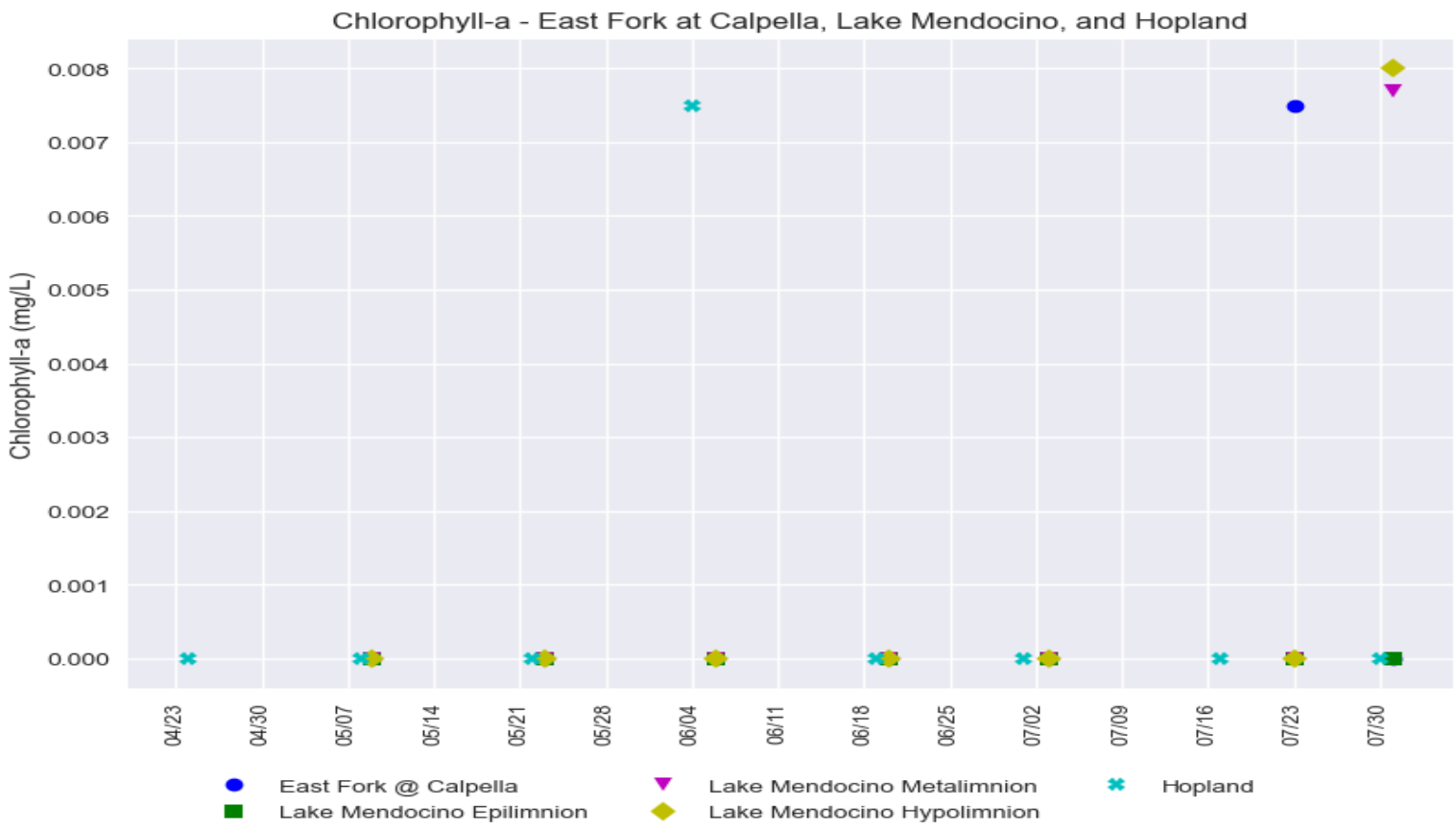



# Russian River Water Quality Grab Samples

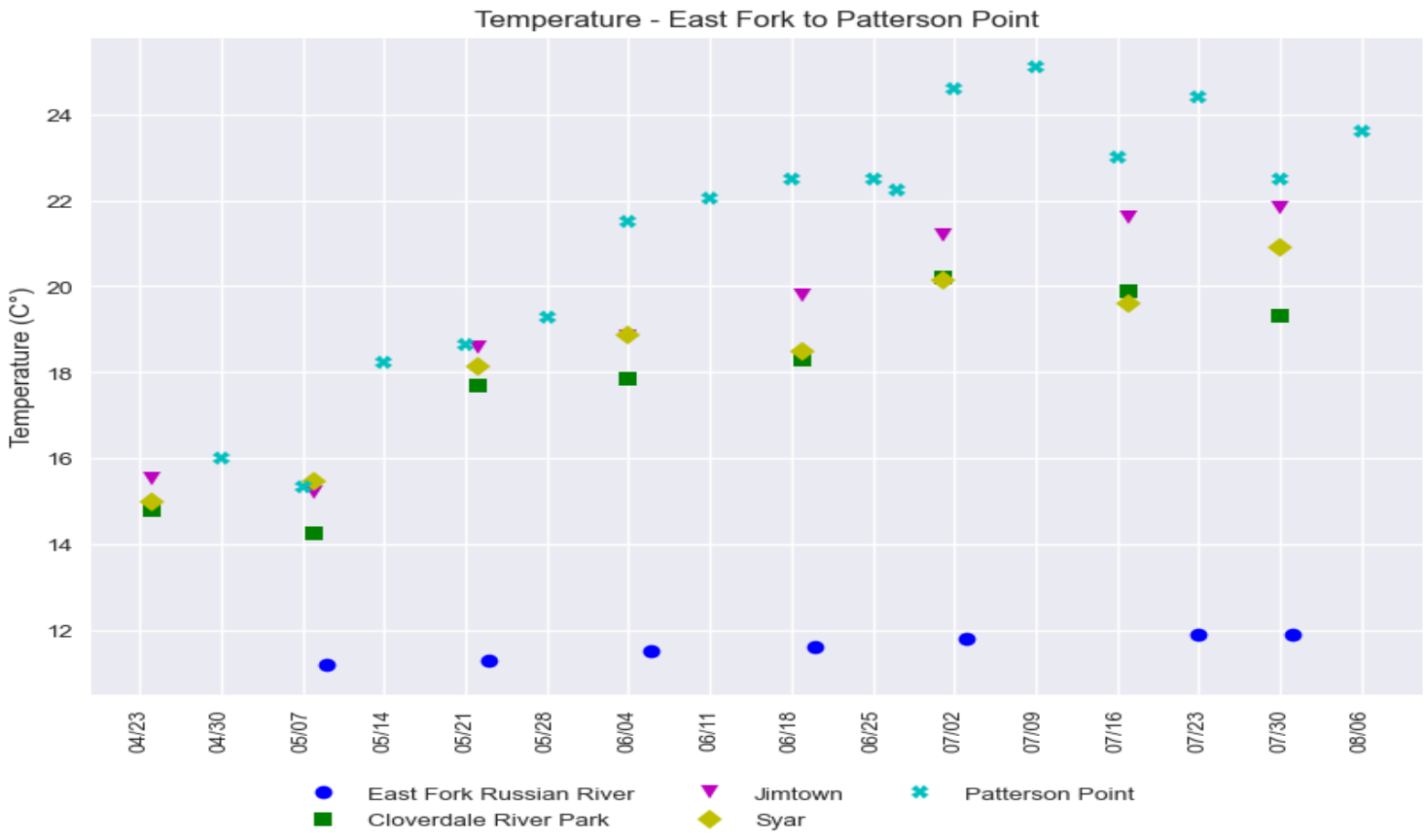
Provisional Data Subject to Revision

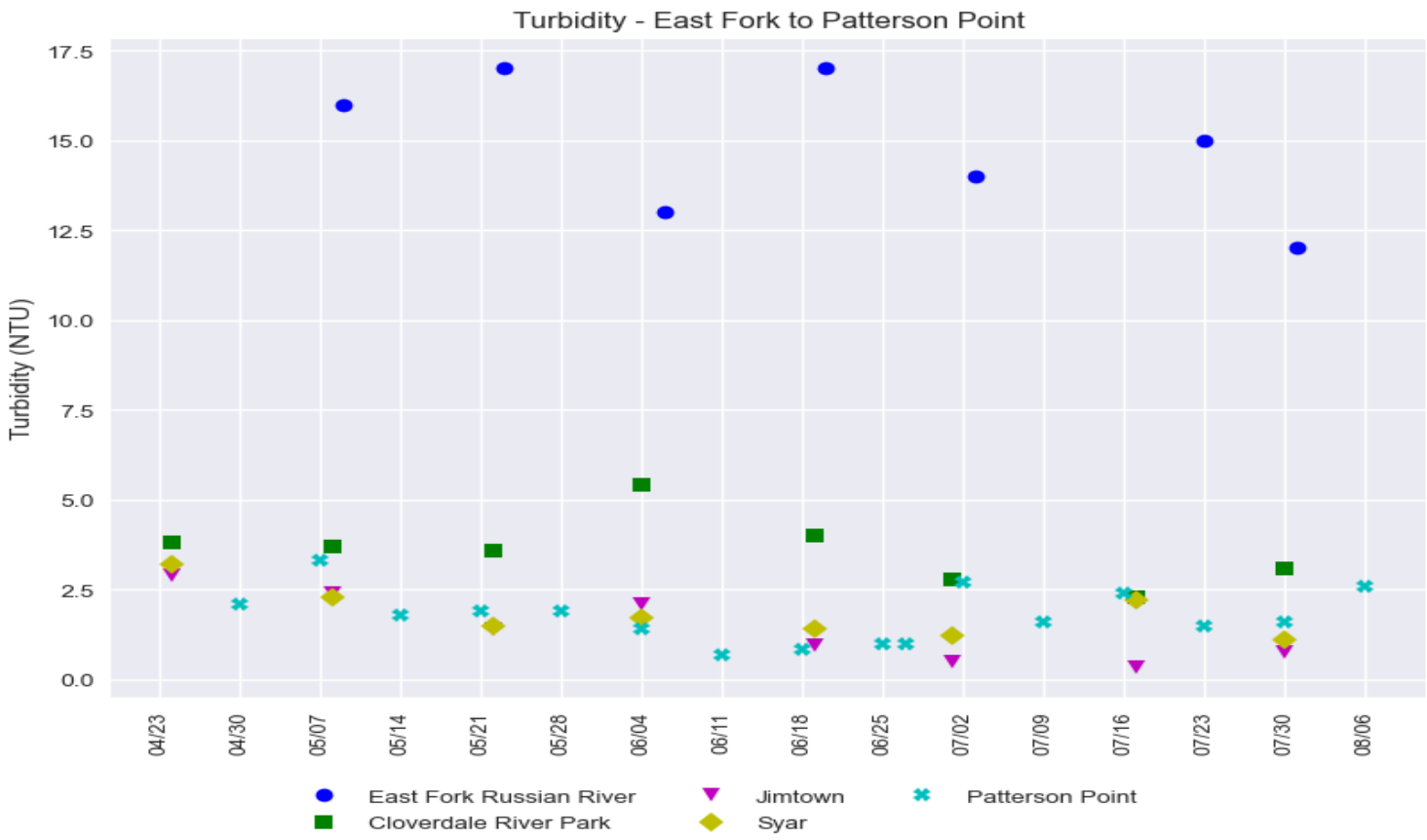


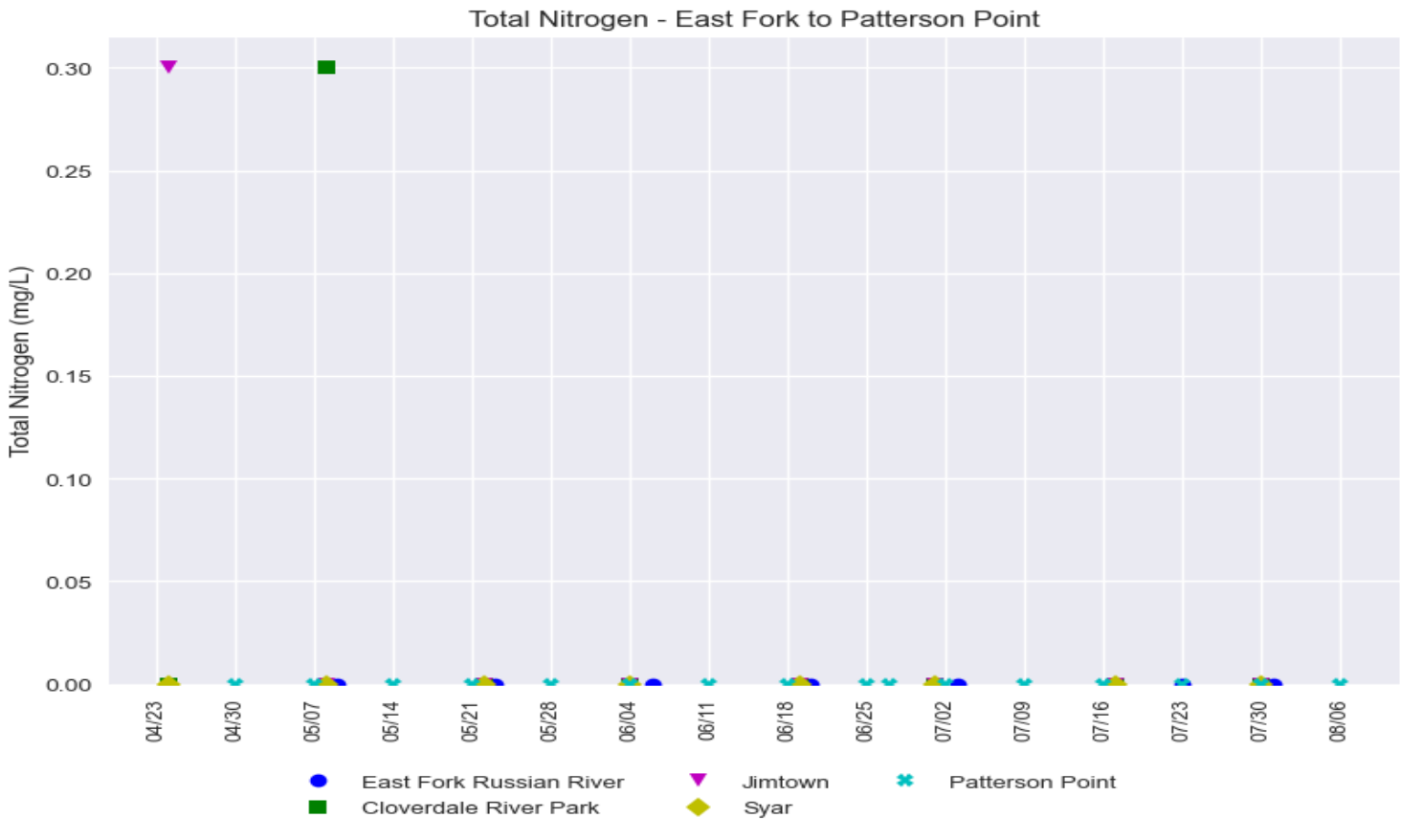



# Russian River Water Quality Grab Samples

Provisional Data Subject to Revision

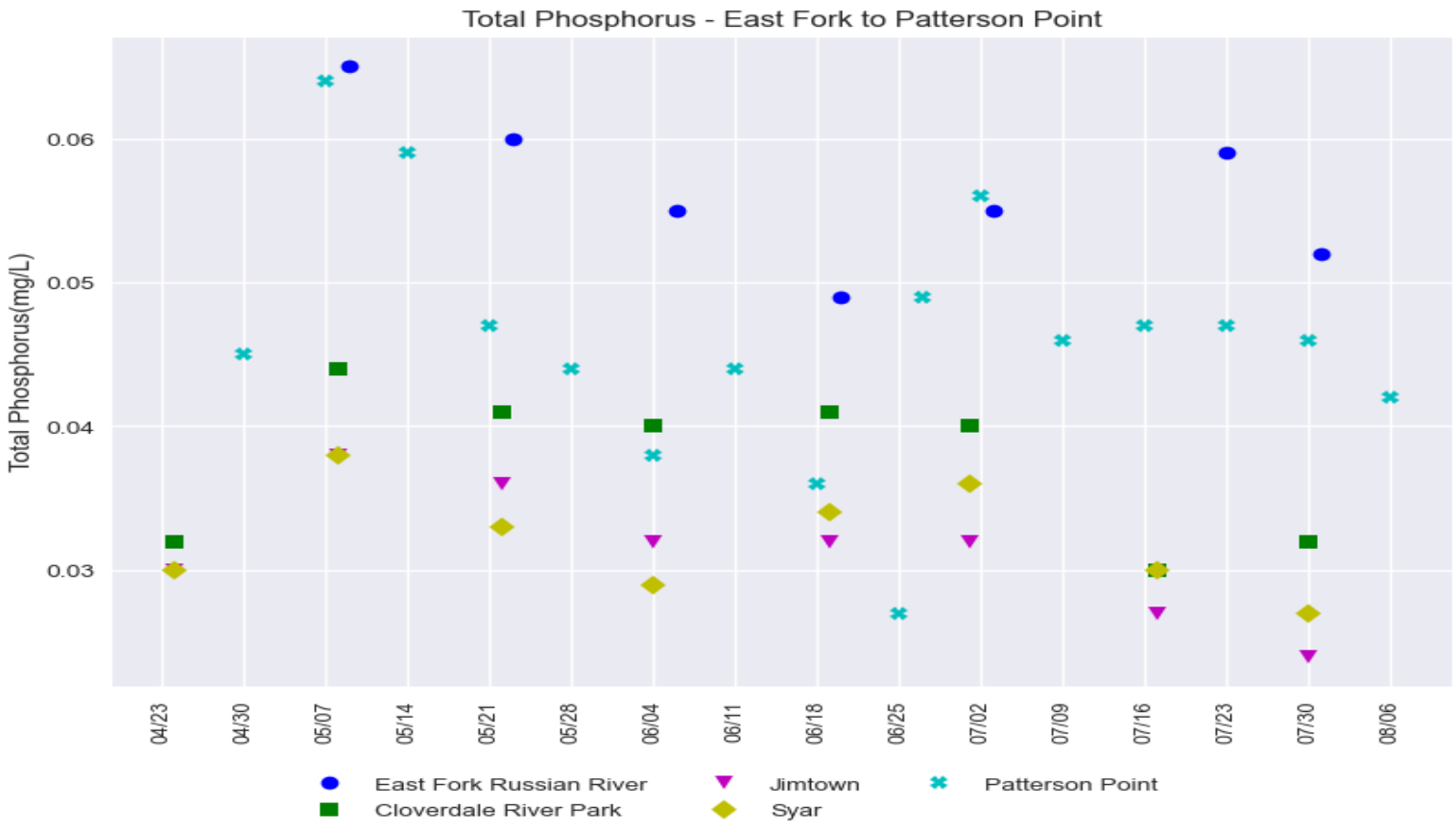


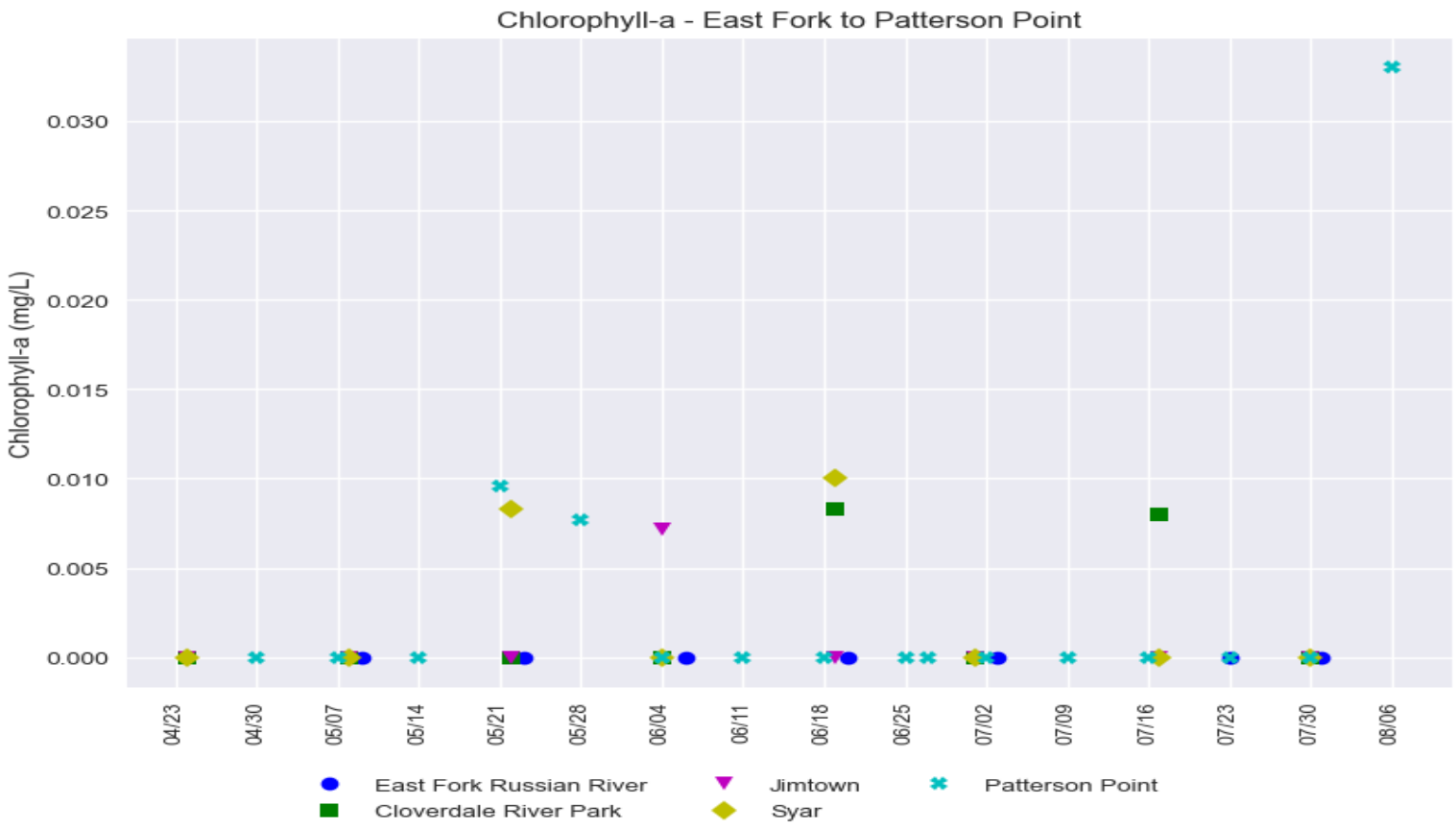



# Russian River Water Quality Grab Samples

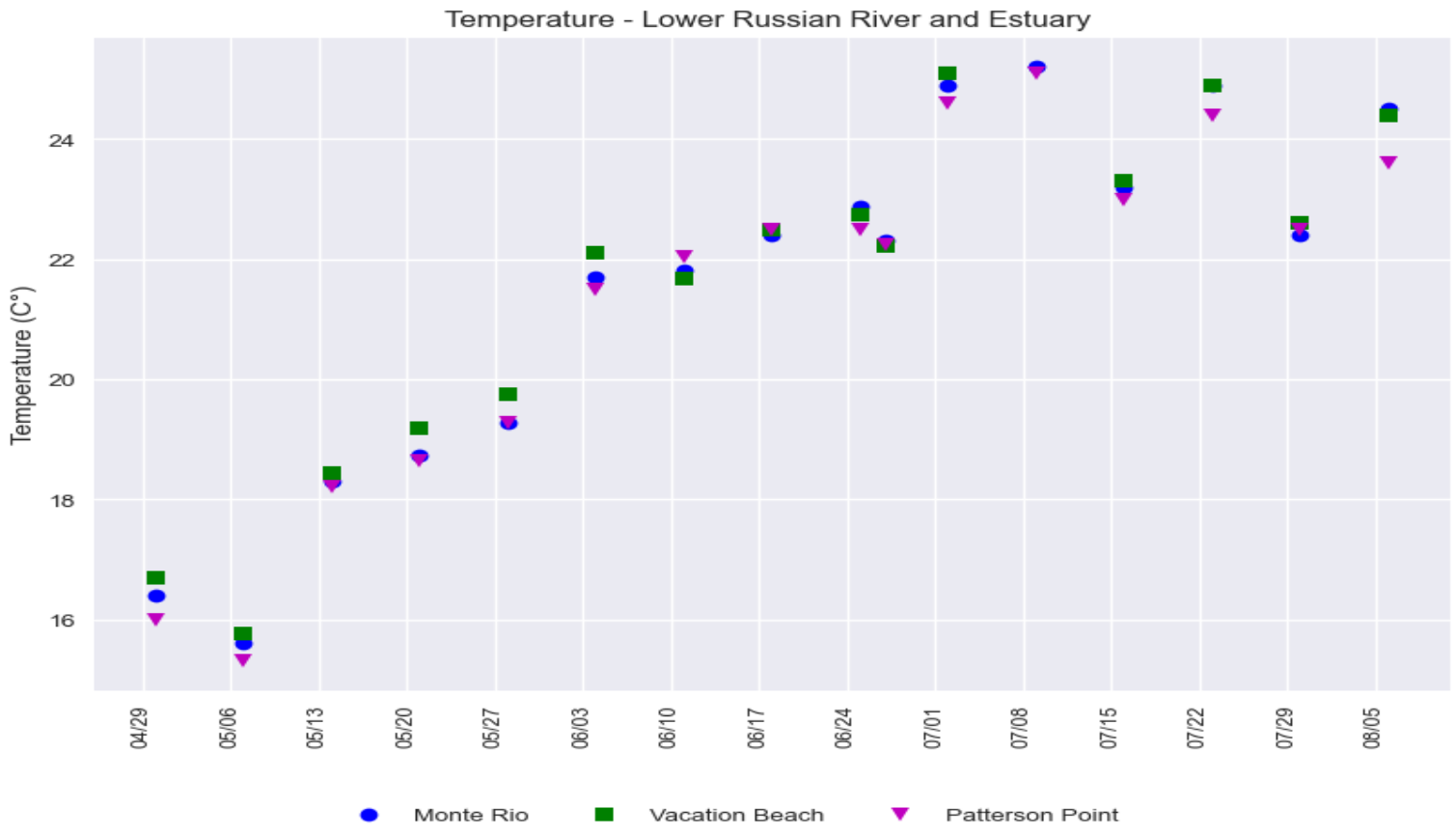
Provisional Data Subject to Revision

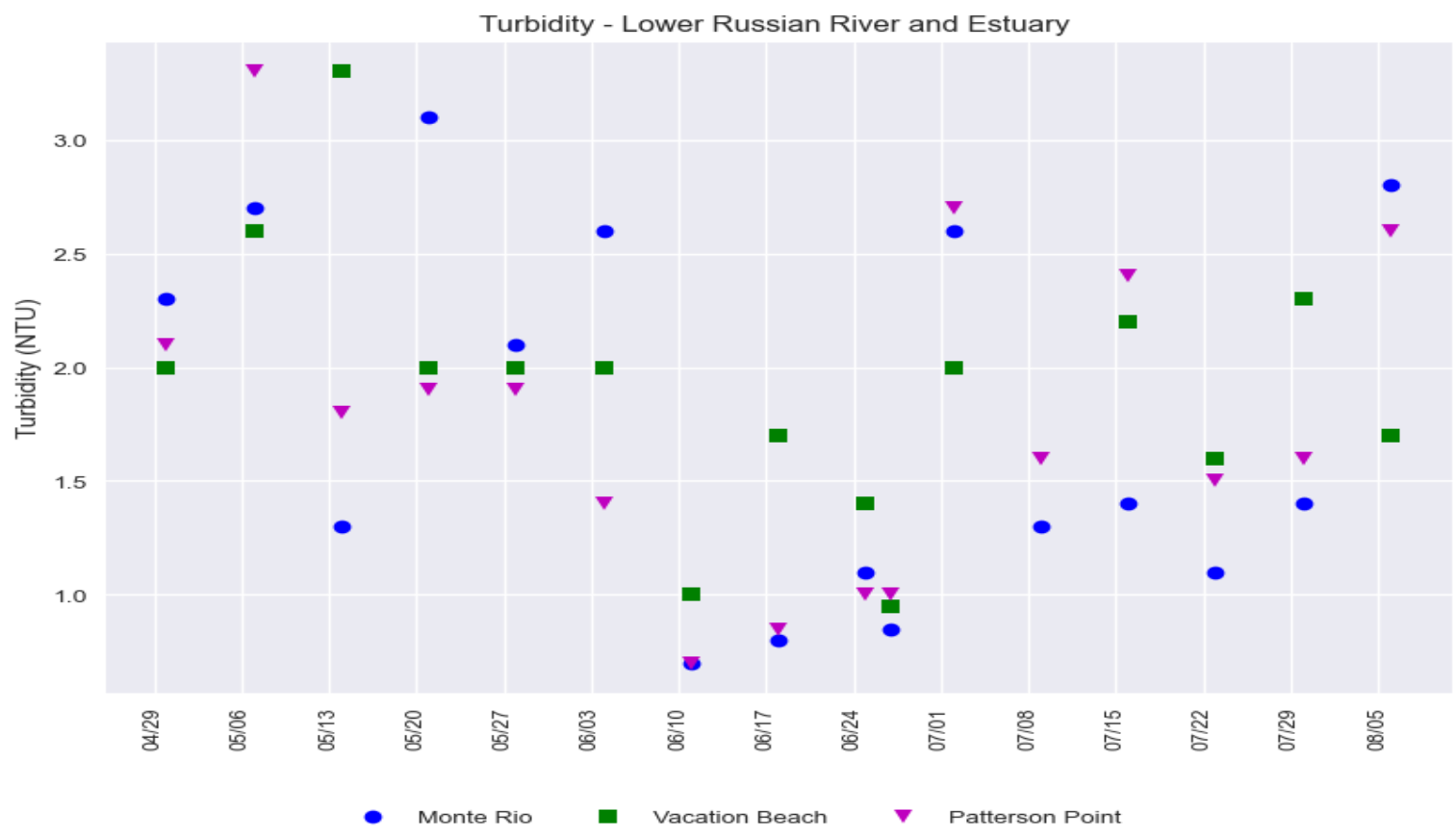


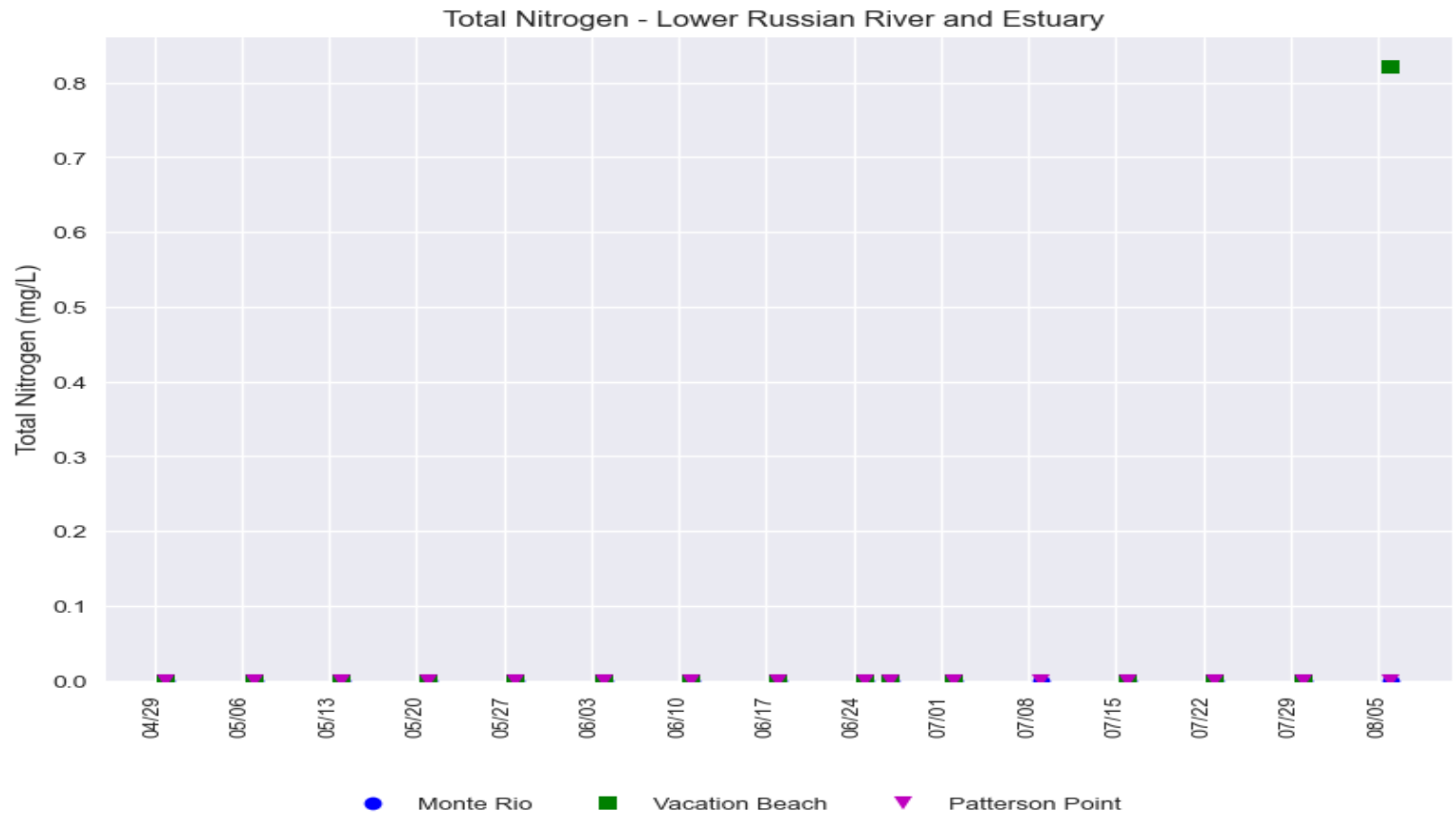



# Russian River Water Quality Grab Samples

Provisional Data Subject to Revision

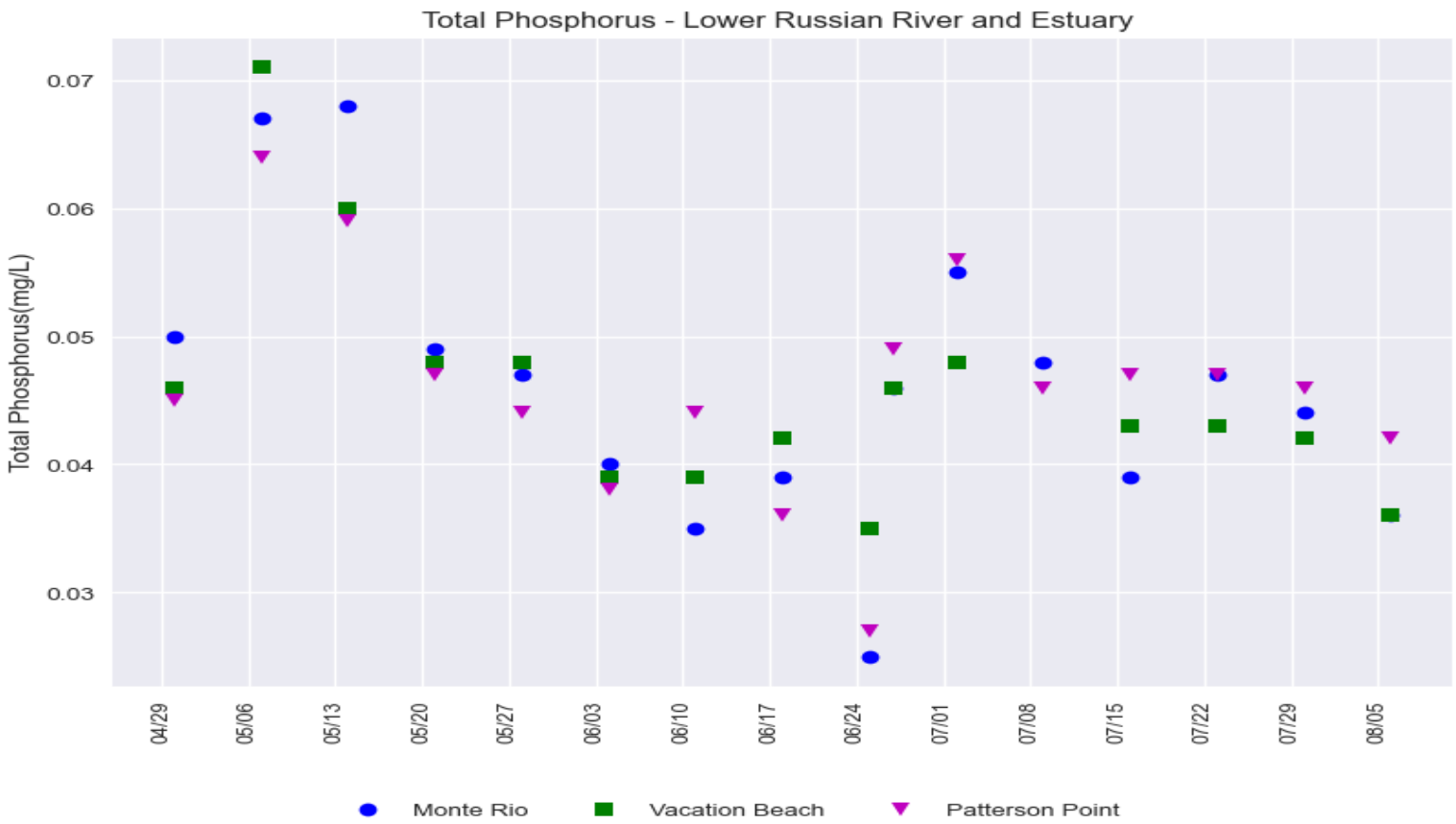


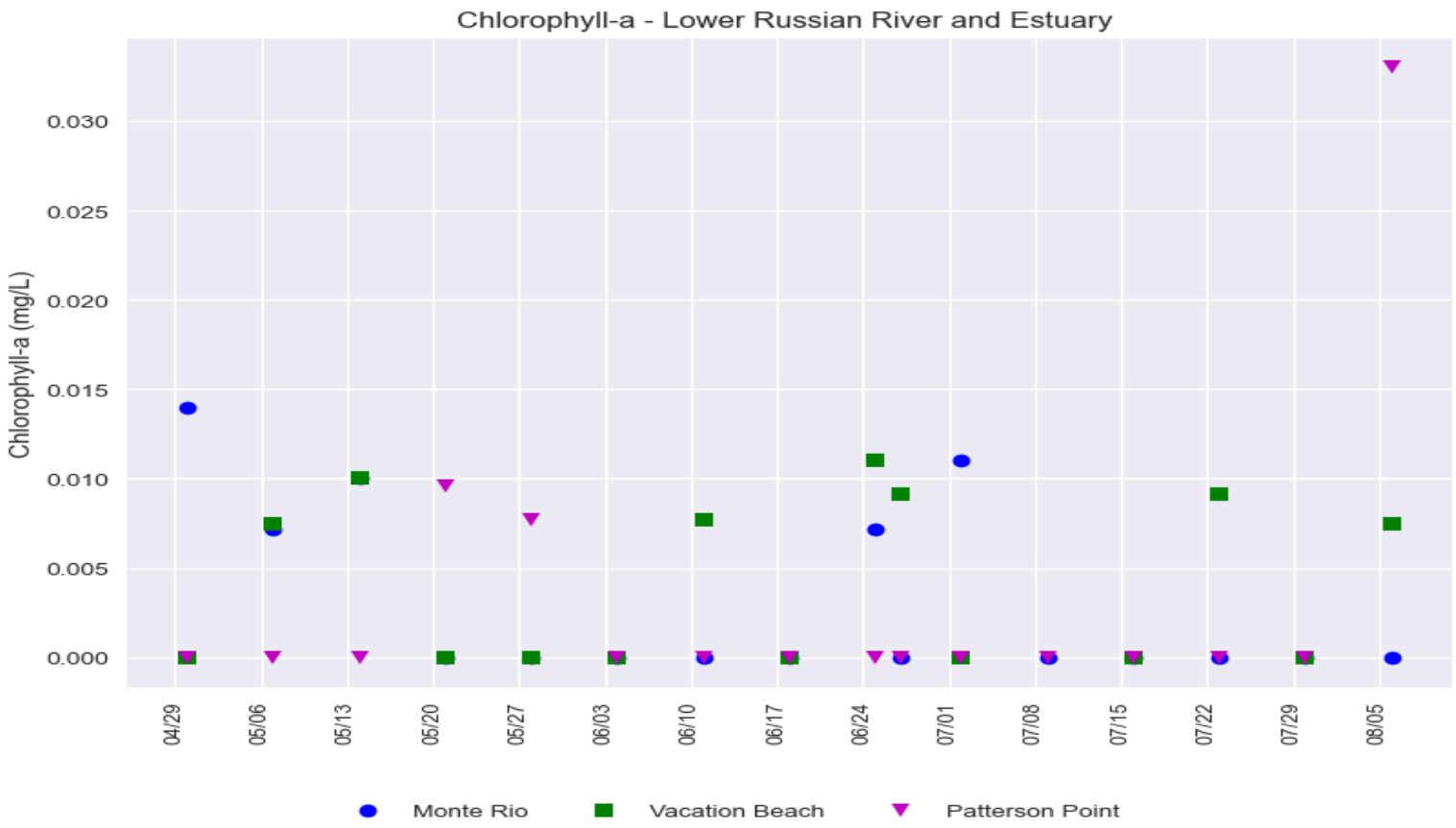



# Russian River Water Quality Grab Samples

Provisional Data Subject to Revision



# Russian River Water Quality Grab Samples (June 18 - August 6, 2024)
# Provisional Data Subject to Revision

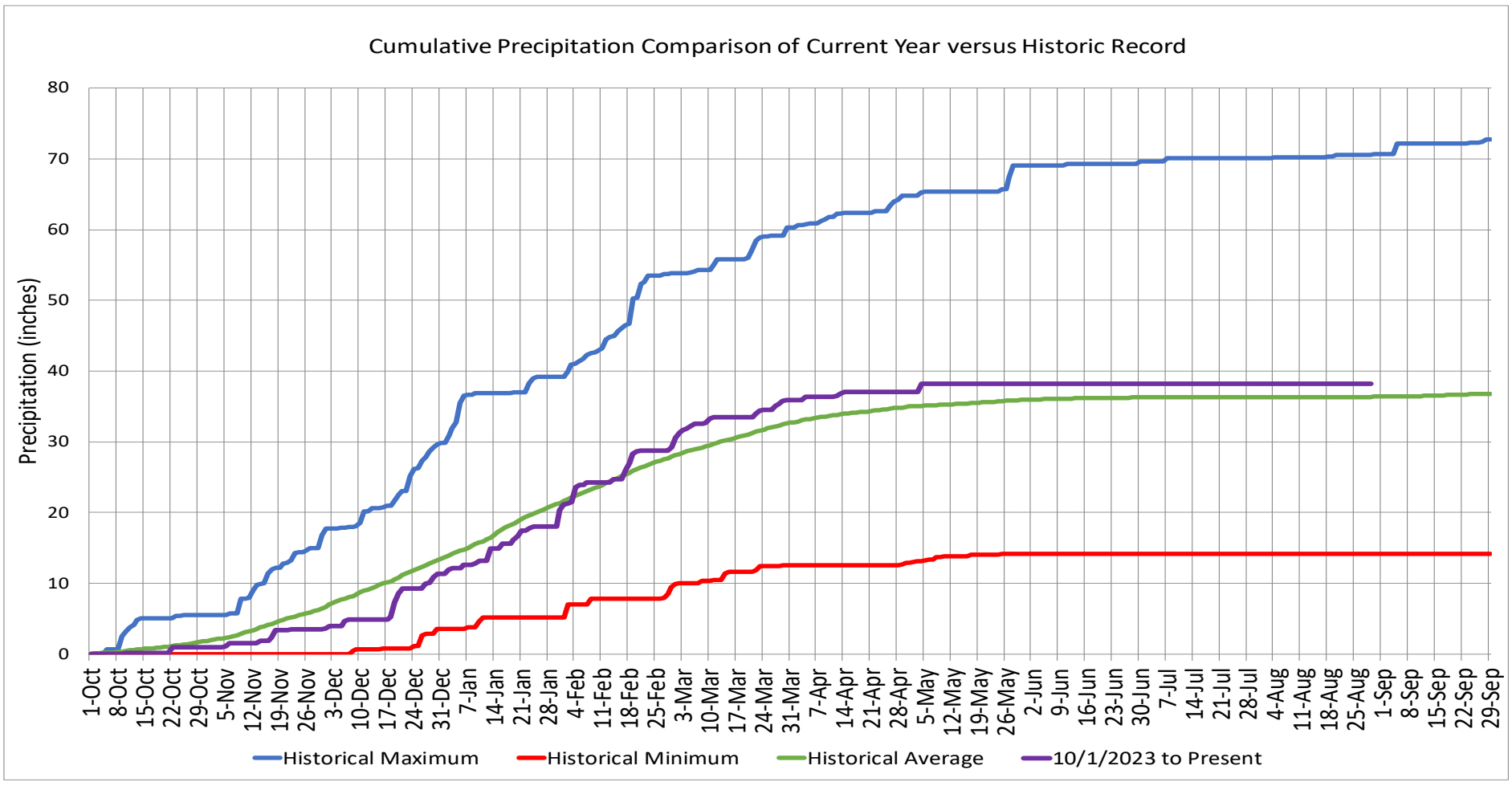
## Russian River Estuary Standard Bacterial Indicators

| Parameter*** | CDPH Guidance* | Date | Patterson Point | Monte Rio | Vacation Beach |
|---|---|---|---|---|---|
| Total Coliforms MPN/100 mL | 10,000 | 6/18/2024 | 816.4 | 920.8 | 1986.3 |
| | | 6/25/2024 | 1782** | 3076** | 2282** |
| | | 6/27/2024 | 1607** | 1722** | 2382** |
| | | 7/2/2024 | 4352** | 5794** | 2613** |
| | | 7/16/2024 | 6131** | 3076** | 2909** |
| | | 7/23/2024 | 3448** | 3255** | 1789** |
| | | 7/30/2024 | 1299.7 | 1732.9 | 1553.1 |
| | | 8/6/2024 | 1789** | 2282** | 1553** |
| E. Coli MPN/100 mL | 235 | 6/18/2024 | 25.6 | 27.5 | 25.6 |
| | | 6/25/2024 | 39.3 | 62.4 | 14.8 |
| | | 6/27/2024 | 44.1 | 56.3 | 34.5 |
| | | 7/2/2024 | 101.2 | 105 | 11 |
| | | 7/16/2024 | 21.1 | 4.1 | 16 |
| | | 7/23/2024 | 29.2 | 25.9 | 14.6 |
| | | 7/30/2024 | 21.1 | 21.1 | 20 |
| | | 8/6/2024 | 20.1 | 6.3 | 6.3 |
| Enterococcus MPN/100 mL**** | 61 | 6/18/2024 | 12.1 | 23.8 | 14.5 |
| | | 6/25/2024 | 34.1 | 96 | 27.9 |
| | | 6/27/2024 | 16.9 | 16 | 19.3 |
| | | 7/2/2024 | 34.1 | 238.2 | 24.6 |
| | | 7/16/2024 | 5.2 | 1 | 3.1 |
| | | 7/23/2024 | 21.3 | 9.7 | 1 |
| | | 7/30/2024 | 14.5 | 5.2 | 7.5 |
| | | 8/6/2024 | 6.3 | 1 | <1.0 |

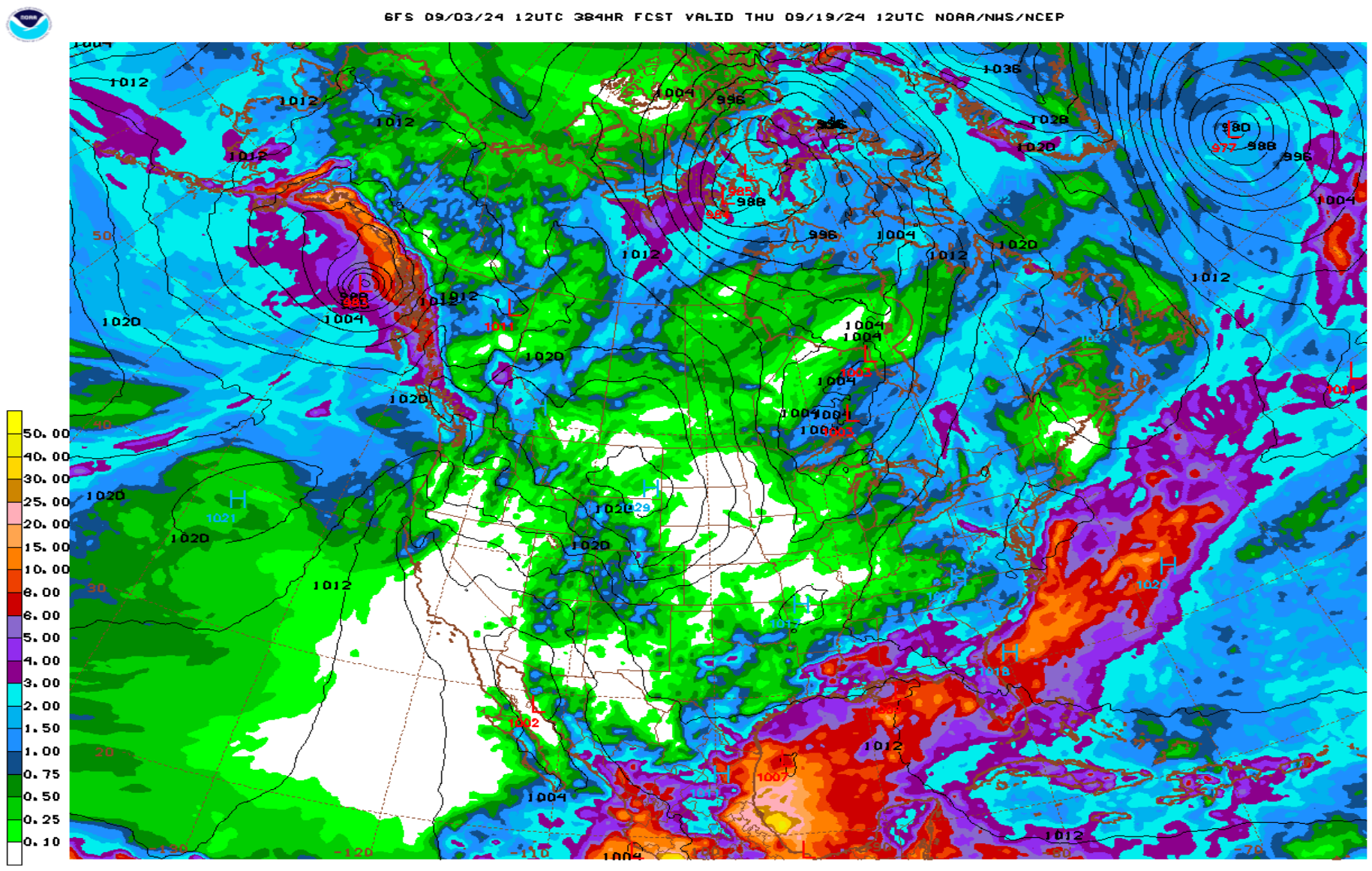
*California Department of Public Health (CDPH) Guidance for Fresh Water Beaches - Single Sample Values:
Freshwater beaches include Patterson Point, Monte Rio, and Vacation Beach
Beach posting is recommended when indicator organisms exceed any of the above corresponding levels
**Sample diluted 1:10
***Method Detection Limit for all parameters = 2 MPN/100 mL or 20 MPN/100 mL if sample diluted
****We continue to collect enterococcus data, however it is not a reliable fecal indicator bacteria in freshwater

# Precipitation

| Ukiah Municipal Airport (WBAN: 72590523275 (KUKI)) | |
|---|---|
| Date Range | Cumulative (inches) |
| Oct 1, 2023 - Aug 29, 2024 | **38.22** |
| Last 7 Days* | **0.00** |




## Global Forecast System Model 16-day Cumulative Precipitation Forecast




| Date Range | Forecasted Cumulative (inches) |
|---|---|
| Sep 3 - Sep 19, 2024 | **0.00** |