Good Afternoon,

The Water Boards continues to receive reports of a significant cyanobacteria harmful algal bloom (HAB) occurring in the Stockton downtown waterfront (McLeod Lake, Mormon Slough) and conducted a field investigation, including multiple nearby locations. On 8/24/20, State Water Board’s HAB Program received lab results of the August 19 water samples collected by Central Valley Regional Water Board and State Water Board staff. Most sample results detected cyanobacteria at the DANGER level (highest advisory threshold) – results are summarized in the table below.

Incident Details:
- Extensive cyanobacteria HABs throughout the Stockton downtown waterfront, San Joaquin River, Port of Stockton and Mormon Slough with extremely elevated cyanotoxin concentrations in the bloom material (scum, film) that accumulates near slow moving areas (e.g. oases, docks).
- Multiple cyanobacteria genera (Microcystis, Pseudanabaena, Dolichospermum) detected at locations sampled
- Microcystins exceeding recommended Guidance for posting of planktonic blooms (https://mywaterquality.ca.gov/habas/resources/habas_response.html#posting_guidance) up to 220 times higher than the Danger level (highest advisory threshold).

<table>
<thead>
<tr>
<th>Sample site</th>
<th>Microcystine (μg/L)</th>
<th>Recommended Signage</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 Mormon Slough</td>
<td>138.6</td>
<td>4487.3</td>
</tr>
<tr>
<td>11 Downtown Marina</td>
<td>61.14</td>
<td>1239.4</td>
</tr>
<tr>
<td>12 Moree Park Boat Launch</td>
<td>77.94</td>
<td>117.8</td>
</tr>
<tr>
<td>13 Port of Stockton</td>
<td>79.39</td>
<td>Not collected</td>
</tr>
<tr>
<td>14 Louis Park</td>
<td>12.35</td>
<td>265.0</td>
</tr>
<tr>
<td>15 Buckeye Cove</td>
<td>4.52</td>
<td>Not collected</td>
</tr>
</tbody>
</table>

Incident Locations:
Refer to the Water Boards Web HAB Map for Stockton area for current details and updates.

Stockton Waterfront closer look:

Next Steps:
- Postings of recommended Danger and Caution signs should be verified by San Joaquin County Environmental Health staff at public access points at or near sampling locations, in highly visible locations to potential recreationalists. (https://mywaterquality.ca.gov/habas/resources/habas_response.html#advisory_signs)
  - Consider posting Caution signs at additional areas/visual indicators (discolored water, mats/scums, paint-like appearance) observed.
- Request Division of Drinking Water and Dept. Of Water Resources staff coordinate with entities who have downstream drinking water intakes.
- State Water Board will request public notification via the Water Board public information officer and posted the recommended advisories to the Water Boards Web HAB Map
- Continue coordination with State Water Board via cya@waterboards.ca.gov email and Central Valley Regional Water Board (Matt Krause as new HAB coordinator Matt.Krause@waterboards.ca.gov)
- Report any potentially HAB-related illness reports by submitting an online bloom report California Harmful Algal Bloom Portal or email to cyanobact@waterboards.ca.gov
- HAB-related illness workgroup has notified nearby veterinary and medical hospitals.

![Trigger Levels for Human and Animal Health](chart)

*Action levels are met or one or more criteria are met.
*For HAB-related illness reports by submitting an online bloom report California Harmful Algal Bloom Portal or email to cyanobact@waterboards.ca.gov

Thank you.