

Hood Canal 5

Annual Shellfish Growing Area Review



Prepared By: Liz Maier

Area: Hood Canal 5

Year Ending: December 31, 2024

Classification: Approved, Conditionally Approved

Activities in the Growing Area in 2024

All stations in the growing area were sampled at least six times in accordance with the National Shellfish Sanitation Program (NSSP) Systematic Random Sampling (SRS) criteria. Station 186 in the unclassified area of Lilliwaup Bay was sampled 12 times. Six of these samples were collected when the adjacent Conditionally Approved area was in Open status. The Conditionally Approved portion of the growing area was closed for a total of 184 days due to seasonal water quality (closed May 1 through October 31).

Using local assessment funding, Mason County Public Health developed the Lilliwaup Closure Response Plan and targeted the Lilliwaup portion of the growing area for shoreline evaluations and outreach efforts. The County collected monthly fecal coliform samples from Lilliwaup Creek as part of its ambient monitoring program and conducted freshwater sampling events synchronized with Department of Health's marine water sampling. The Mason County Clean Water District continues to meet quarterly.

Analytical Results of Water Samples

Table 1 summarizes the most recent 30 samples collected from each station. All stations including Station 186 meet the NSSP standard for an Approved classification. Table 2 summarizes the most recent 30 samples collected from Station 186 during the Open status period for the Conditionally Approved area (November through April). Station 186 meets the NSSP standard during the Open period, and sorting Closed period data out of the 30-sample dataset improves water quality statistics at this station. Table 3 summarizes Closed period data (May through October) from Station 186 over the same date range presented in Table 1. Water quality does not meet the NSSP Adverse Pollution Conditions (APC) criteria, with 2 of the 17 most recent samples (11.76%) exceeding 43 FC/100mL.

Change in Actual Pollution Sources that Impact the Growing Area

We currently have no information indicating that the area has new sources of pollution.

Classification Status

- Well within the classification standards
- Meets standards, but threatened with downgrade in classification
- Fails to meet current classification standards

Remarks and Recommendations

All stations meet the applicable NSSP water quality standard, and the area is correctly classified. The Department should continue to sample monthly at Station 186 and work with Mason County Public Health to identify and correct sources of pollution in the Lilliwaup watershed.

Management Plan Evaluation

1. Have all parties involved complied with the conditions of the management plan Yes
2. Has reporting been adequate to manage the conditional area..... Yes
3. Does the area consistently meet approved area criteria when it is open for harvest Yes
4. Has a field inspection of critical pollution sources been conducted Yes

TABLE 1. Summary of Marine Water Data (SRS) for the Hood Canal 5 Growing Area

Sampling Event Type: Regulatory

Maximum Number of Samples: 30

Tides Included: All

| Station Number | Classification | Date Range | Range (FC/100mL) | Geomean (FC/100mL) | Est. 90 th Percentile (FC/100mL) | Meets Standard |
|----------------|----------------|-------------------------|------------------|--------------------|---|----------------|
| 167 | Approved | 1/21/2020 - 11/12/2024 | 1.7 - 70.0 | 2.5 | 8.1 | Y |
| 169 | Approved | 1/21/2020 - 11/12/2024 | 1.7 - 14.0 | 2.8 | 7.0 | Y |
| 170 | Approved | 1/21/2020 - 11/12/2024 | 1.7 - 49.0 | 2.0 | 4.7 | Y |
| 172 | Approved | 1/21/2020 - 11/12/2024 | 1.7 - 22.0 | 1.9 | 3.6 | Y |
| 173 | Approved | 1/21/2020 - 11/12/2024 | 1.7 - 11.0 | 2.2 | 4.5 | Y |
| 174 | Approved | 1/21/2020 - 11/12/2024 | 1.7 - 33.0 | 2.1 | 4.8 | Y |
| 175 | Approved | 1/21/2020 - 11/12/2024 | 1.7 - 79.0 | 2.9 | 11.4 | Y |
| 176 | Approved | 1/21/2020 - 11/12/2024 | 1.7 - 7.8 | 1.9 | 3.0 | Y |
| 177 | Approved | 1/21/2020 - 11/12/2024 | 1.7 - 33.0 | 2.6 | 8.0 | Y |
| 178 | Approved | 1/21/2020 - 11/12/2024 | 1.7 - 49.0 | 2.3 | 6.4 | Y |
| 179 | Approved | 1/21/2020 - 11/12/2024 | 1.7 - 22.0 | 2.1 | 4.7 | Y |
| 180 | Approved | 1/21/2020 - 11/12/2024 | 1.7 - 49.0 | 2.6 | 8.9 | Y |
| 181 | Approved | 1/21/2020 - 11/12/2024 | 1.7 - 13.0 | 2.5 | 5.9 | Y |
| 182 | Approved | 1/21/2020 - 11/12/2024 | 1.7 - 130.0 | 3.5 | 19.8 | Y |
| 183 | Approved | 1/21/2020 - 11/12/2024 | 1.7 - 79.0 | 2.5 | 7.9 | Y |
| 184 | Approved | 1/21/2020 - 11/12/2024 | 1.7 - 110.0 | 3.3 | 15.4 | Y |
| 185 | Approved | 1/21/2020 - 11/12/2024 | 1.7 - 79.0 | 3.6 | 17.7 | Y |
| 187 | Approved | 1/21/2020 - 11/12/2024 | 1.7 - 23.0 | 3.1 | 10.2 | Y |
| 188 | Approved | 1/21/2020 - 11/12/2024 | 1.7 - 49.0 | 2.6 | 8.1 | Y |
| 189 | Approved | 1/21/2020 - 11/12/2024 | 1.7 - 33.0 | 2.5 | 7.1 | Y |
| 190 | Approved | 1/21/2020 - 11/12/2024 | 1.7 - 240.0 | 2.6 | 10.8 | Y |
| 191 | Approved | 1/21/2020 - 11/12/2024 | 1.7 - 49.0 | 2.8 | 9.2 | Y |
| 193 | Approved | 1/21/2020 - 11/12/2024 | 1.7 - 49.0 | 2.8 | 9.3 | Y |
| 194 | Approved | 1/21/2020 - 11/12/2024 | 1.7 - 170.0 | 2.1 | 6.4 | Y |
| 303 | Approved | 1/21/2020 - 11/12/2024 | 1.7 - 240.0 | 3.1 | 18.1 | Y |
| 310 | Approved | 1/21/2020 - 11/12/2024 | 1.7 - 540.0 | 2.2 | 8.5 | Y |
| 186 | Unclassified | 10/26/2021 - 12/12/2024 | 1.7 - 130.0 | 4.7 | 22.4 | Y |

The standard for approved shellfish growing waters is fecal coliform geometric mean not greater than 14 organisms/ 100 mL with an estimated 90th percentile not greater than 43 organisms/ 100 mL. The above table shows bacteriological results in relation to program standards.

TABLE 2. Summary of Conditionally Approved Marine Water Data (SRS) in Open Status in the Hood Canal 5 Growing Area

Sampling Event Type: Regulatory

Number of Samples: 30

Tides Included: All

Includes data from the Open period (November through April)

| Station Number | Classification | Date Range | Range (FC/100mL) | Geomean (FC/100mL) | Est. 90 th Percentile (FC/100mL) | Meets Standard |
|----------------|----------------|------------------------|------------------|--------------------|---|----------------|
| 186 | Unclassified | 3/26/2015 - 12/12/2024 | 1.7 - 23.0 | 3.5 | 10.6 | Y |

The above table shows bacteriological results in relation to NSSP criteria. NSSP standards for approved shellfish growing waters are a fecal coliform geometric mean not greater than 14 organisms/100 mL and an estimated 90th percentile not greater than 43 organisms/100mL.

TABLE 3. Summary of Conditionally Approved Marine Water Data (APC) in Closed Status in the Hood Canal 5 Growing Area

Sampling Event Type: Regulatory

Number of Samples: 17

Tides Included: All

Includes data from the Closed period (May through October) collected over the same date range as the unsorted data in Table 1

| Station Number | Classification | Date Range | Range (FC/100 mL) | GeoMean (FC/100 mL) | % Samples > 43 | Meets Standard |
|----------------|----------------|-------------------------|-------------------|---------------------|----------------|----------------|
| 186 | Unclassified | 10/26/2021 - 12/31/2024 | 1.7 - 130.0 | 5.8 | 11.76 | N |

The above table shows bacteriological results in relation to APC criteria. APC standards for approved shellfish growing waters are a fecal coliform geometric mean not greater than 14 organisms/100 mL and not more than 10% of samples greater than 43 organisms/100mL.

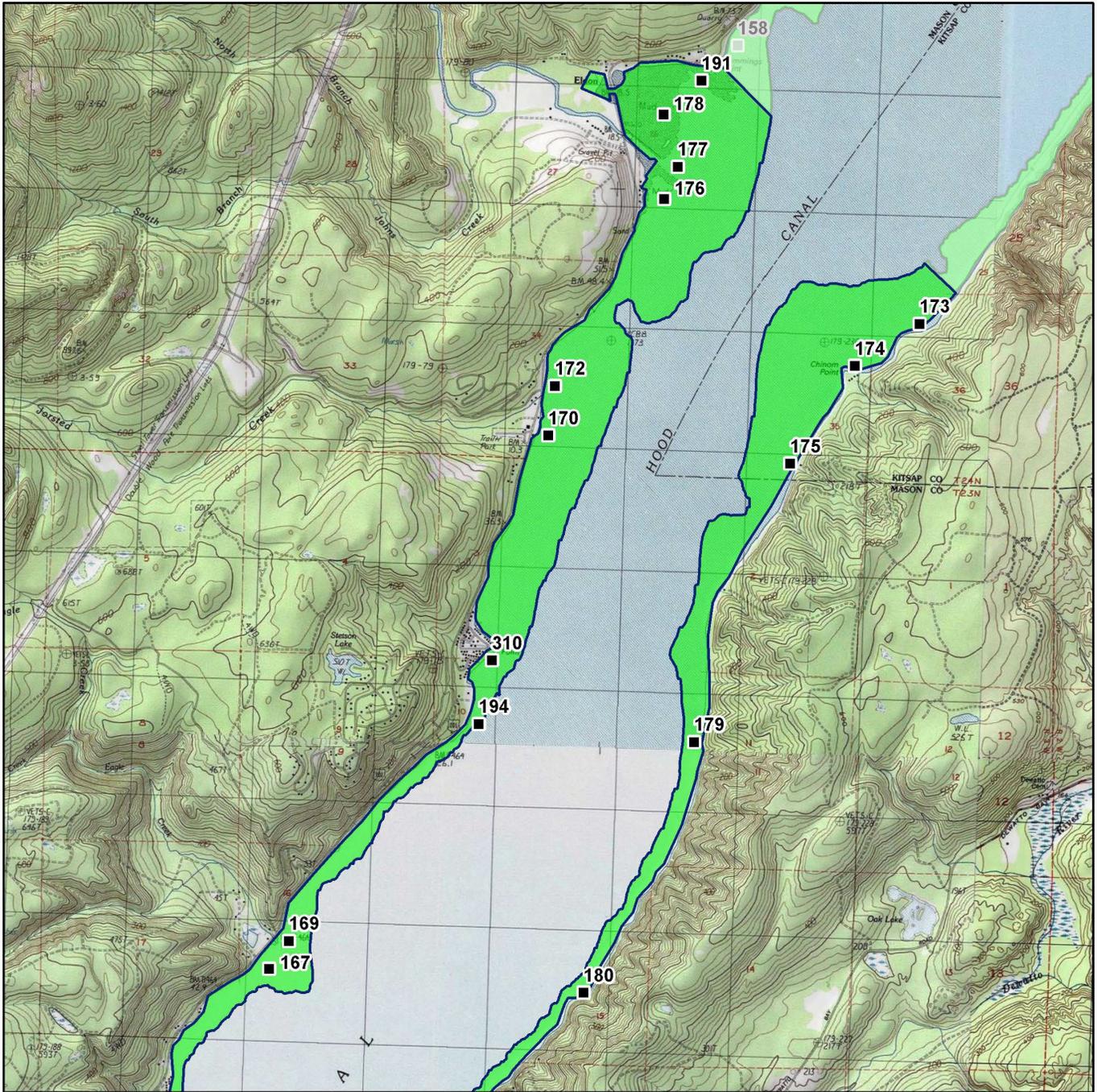
MAP 1. Hood Canal 5 Growing Area (1 of 2)

 Hood Canal #5 (1 of 2)

0 1 2 Miles



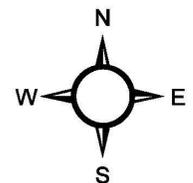
Date Updated: 7/11/2018



Classification

-  Approved
-  Conditional
-  Prohibited
-  Restricted
-  Unclassified

Sampling Stations



* Some sampling stations are highlighted with grey box for ease of reading.

MAP 2. Hood Canal 5 Growing Area (2 of 2)

