

Washington State Department of Health Office of Environmental Health and Safety

Annual Growing Area Review

PREPARED BY: Jean Snyder
AREA: Hood Canal 6
YEAR ENDING: December 31, 2015
CLASSIFICATION: Approved, Conditionally Approved, Prohibited

Activities In The Growing Area in 2015

The majority of the marine stations in the growing area were sampled a minimum of six times in accordance with NSSP criteria for the Systematic Random Sampling method. Stations 212, 213, and 214 were monitored 12 times to help better assess the impacts of the Skokomish River to the growing area. Approximately 17 acres near Station 292 were downgraded from Approved to Conditionally Approved. This portion of the growing area is closed for five days after 0.75-inch or greater rainfall occurs in 24-hours as recorded at the Taylor United FLUPSY gage.

A shoreline survey of the Hood Canal 6 Growing Area was completed in 2015. No Direct Impacts were identified; however two drainages with elevated levels of fecal coliform will result in the closure of several adjacent parcels. The Alderbrook Resort WWTP & Marina were re-evaluated in June 2015. Since the last facility evaluation in 2001 a standby generator with automatic switchover capable of powering the entire WWTP was installed as well as a second UV disinfection unit. No change to the shellfish closure zone was recommended at this time.

A portion of the growing area was closed from May 1st to September 30th due to boating activities at the Alderbrook dock. The area from Browns Point to Bald Point was closed nine times for 97 days due to flooding on the Skokomish River. The Conditionally Approved area near Big Bend Creek was closed five times for a total of 53 days in 2015.

The Hood Canal Coordinating Council is receiving National Estuary Program funds to implement the Hood Canal Regional Pollution Identification and Correction (HCRPIC) plan. Hoodsport and the shoreline near to Station 292 have been prioritized areas for pollution identification and corrective activities. In addition, Mason County Public Health Department received EPA, National Estuary Program funds to create a Shellfish Protection District (RCW 90.72) and draft a Closure Response Plan for the downgraded area near Station 292.

Analytical Results Of Water Samples

Table 1 summarizes the most recent unsorted 30 samples collected from each of the sampling stations, except stations 316, 317, 318, 319, and 320 which were added near Hoodsport in 2014. All stations meet NSSP standards for their respective classification. Table 2 shows the most recent 30 sample summary of Station 292 in the Conditionally Approved area unsorted and sorted by 0.75-inch rainfall recorded in 24-

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hours. Station 292 meets the NSSP standard for Approved classification with an unsorted estimated 90th percentile of 32.9 FC/100mL, however when the condition is applied the estimated 90th percentile is reduced to 16.7 FC/100mL. Station 309 and 225 are “concerned” with estimated 90th percentiles of 24.0 FC/100 ml and 21.0 FC/100mL, respectively.

Change In Actual Pollution Sources That Impact The Growing Area

There were two drainages near the Big Bend Creek Conditionally Approved area with elevated levels of fecal coliform which were identified as Indirect Impacts during the 2015 Shoreline Survey that resulted in a commercial closure of several adjacent parcels.

Classification Status

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

Remarks and Recommendations

The area is correctly classified and pollution source investigations should continue in the Hood Canal 6/ Big Bend Creek Shellfish Protection District.

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)
Growing Area: Hood Canal #6**

Sampling Event Type: Regulatory

Tides Included: ALL

| Station Number | Classification | Number of Samples | Date Range | Range (FC/100 mL) | GeoMean (FC/100 mL) | E90th (FC/100 mL) | Meets Standard |
|----------------|----------------|-------------------|-------------------------|-------------------|---------------------|-------------------|----------------|
| 192 | Approved | 30 | 1/12/2011 - 11/12/2015 | 1.7 - 46.0 | 3.0 | 8.7 | Y |
| 207 | Approved | 30 | 1/12/2011 - 11/12/2015 | 1.7 - 79.0 | 2.5 | 7.6 | Y |
| 209 | Approved | 30 | 3/1/2011 - 11/12/2015 | 1.7 - 240.0 | 4.0 | 19.6 | Y |
| 210 | Approved | 30 | 3/1/2011 - 11/12/2015 | 1.7 - 130.0 | 3.1 | 12.0 | Y |
| 212 | Approved | 30 | 7/29/2013 - 12/30/2015 | 1.7 - 110.0 | 4.2 | 17.1 | Y |
| 213 | Approved | 30 | 7/29/2013 - 12/30/2015 | 1.7 - 79.0 | 3.6 | 17.1 | Y |
| 214 | Approved | 30 | 7/29/2013 - 12/30/2015 | 1.7 - 130.0 | 2.9 | 11.0 | Y |
| 215 | Approved | 30 | 1/12/2011 - 11/12/2015 | 1.7 - 170.0 | 3.2 | 13.8 | Y |
| 216 | Approved | 30 | 1/12/2011 - 11/12/2015 | 1.7 - 46.0 | 3.1 | 9.8 | Y |
| 217 | Approved | 30 | 1/12/2011 - 11/12/2015 | 1.7 - 33.0 | 4.2 | 14.1 | Y |
| 218 | Approved | 30 | 1/12/2011 - 11/12/2015 | 1.7 - 130.0 | 4.4 | 17.8 | Y |
| 219 | Approved | 30 | 1/12/2011 - 11/12/2015 | 1.7 - 130.0 | 2.9 | 9.9 | Y |
| 220 | Approved | 30 | 1/12/2011 - 11/12/2015 | 1.7 - 49.0 | 2.6 | 7.5 | Y |
| 221 | Approved | 30 | 1/12/2011 - 11/12/2015 | 1.7 - 33.0 | 2.1 | 4.6 | Y |
| 222 | Approved | 30 | 1/12/2011 - 11/12/2015 | 1.7 - 79.0 | 3.1 | 11.3 | Y |
| 223 | Approved | 30 | 3/1/2011 - 11/12/2015 | 1.7 - 79.0 | 4.3 | 17.8 | Y |
| 224 | Approved | 30 | 1/12/2011 - 11/12/2015 | 1.7 - 49.0 | 3.4 | 13.1 | Y |
| 225 | Approved | 30 | 1/12/2011 - 11/12/2015 | 1.7 - 79.0 | 4.4 | 21.0 | Y |
| 226 | Approved | 30 | 1/12/2011 - 11/12/2015 | 1.7 - 17.0 | 2.7 | 6.7 | Y |
| 227 | Approved | 30 | 1/12/2011 - 11/12/2015 | 1.7 - 33.0 | 2.6 | 6.8 | Y |
| 228 | Approved | 30 | 1/12/2011 - 11/12/2015 | 1.7 - 79.0 | 2.7 | 9.7 | Y |
| 229 | Approved | 30 | 1/12/2011 - 11/12/2015 | 1.7 - 70.0 | 3.0 | 10.6 | Y |
| 230 | Approved | 30 | 1/12/2011 - 11/12/2015 | 1.7 - 70.0 | 2.9 | 9.9 | Y |
| 231 | Approved | 30 | 1/12/2011 - 11/12/2015 | 1.7 - 33.0 | 3.2 | 10.1 | Y |
| 232 | Approved | 30 | 1/12/2011 - 11/12/2015 | 1.7 - 110.0 | 3.2 | 13.2 | Y |
| 233 | Approved | 30 | 11/29/2010 - 11/12/2015 | 1.7 - 130.0 | 2.5 | 7.9 | Y |
| 298 | Approved | 30 | 1/12/2011 - 11/12/2015 | 1.7 - 70.0 | 3.2 | 9.7 | Y |

| Station Number | Classification | Number of Samples | Date Range | Range (FC/100 mL) | GeoMean (FC/100 mL) | E90th (FC/100 mL) | Meets Standard |
|----------------|------------------------|-------------------|------------------------|-------------------|---------------------|-------------------|----------------|
| 309 | Approved | 30 | 3/1/2011 - 12/30/2015 | 1.7 - 240.0 | 4.4 | 24.0 | Y |
| 291 | Conditionally Approved | 30 | 5/26/2011 - 12/30/2015 | 1.7 - 79.0 | 3.5 | 15.1 | Y |
| 292 | Conditionally Approved | 30 | 7/6/2011 - 12/30/2015 | 1.7 - 350.0 | 5.5 | 32.9 | Y |
| 316 | Prohibited | 13 | 9/15/2014 - 11/12/2015 | 1.7 - 79.0 | 5.3 | 30.3 | *N/A |
| 317 | Prohibited | 13 | 9/15/2014 - 11/12/2015 | 1.7 - 95.0 | 4.0 | 18.0 | *N/A |
| 318 | Prohibited | 13 | 9/15/2014 - 11/12/2015 | 1.7 - 79.0 | 3.9 | 15.5 | *N/A |
| 319 | Prohibited | 13 | 9/15/2014 - 11/12/2015 | 1.7 - 79.0 | 5.6 | 23.8 | *N/A |
| 320 | Prohibited | 12 | 11/5/2014 - 11/12/2015 | 1.7 - 33.0 | 3.5 | 12.4 | *N/A |

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.

* N/A – SRS criteria require a minimum of 30 samples from each station. *

TABLE 2
Data Summary of Station 292 Unsorted and with 0.75-inch Rainfall Sort

Sampling Event Type: Regulatory

Tides Included: ALL

| Station Number | Classification | Date Range | Range (FC/100 mL) | GeoMean (FC/100 mL) | E90th (FC/100 mL) | Meets Standard |
|--|------------------------|-------------------------|-------------------|---------------------|-------------------|----------------|
| Unsorted Data | | | | | | |
| 292 | Conditionally Approved | 7/6/2011 - 12/30/2015 | 1.7 - 350.0 | 5.5 | 32.9 | Yes |
| Sorted for less than 0.75 inch rainfall events (0-4 days) | | | | | | |
| 292 | Conditionally Approved | 10/20/2008 - 12/30/2015 | 1.7 - 350.0 | 3.6 | 16.7 | Yes |

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.

MAP 1

HOOD CANAL 6



TN MN 17° 01/27/16