

# Oakland Bay

## Annual Shellfish Growing Area Review



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Area: Oakland Bay

Year Ending: December 31, 2023

Classification: Approved, Conditionally Approved, Prohibited

### Activities in the Growing Area in 2023

The growing area was sampled 11 times in accordance with National Shellfish Sanitation Program (NSSP) Systematic Random Sampling (SRS) criteria. All samples were collected at stations in the Conditionally Approved area during the Open status. The Conditionally Approved area was closed 6 times for 37 days due to rainfall ( $\geq 1$  inch in 24 hours). All of Oakland Bay was closed on an emergency basis from December 5-10 due to excessive rainfall. The Conditionally Approved area around stations 129 and 614 was Restricted from June through September.

Based on a harvest request, a reevaluation of the Shelton WWTP was completed. Due to improvements at the plant and increased holding capacity, a portion of the Prohibited area is in process of being reclassified to Conditionally Approved and will be finalized in the first quarter of 2024.

Mason County received EPA National Estuary Program (NEP) funding for pollution identification and correction in the watershed. Mason Conservation District received NEP funds through the Washington State Conservation Commission to provide technical assistance and education and outreach to landowners to promote the implementation of livestock best management practices. The Mason County Clean Water District met quarterly.

### Analytical Results of Water Samples

All stations meet NSSP standards. Table 1 summarizes the most recent 30 samples collected from each of the sampling stations. It includes samples collected when the Conditionally Approved area was closed to harvest. Table 2 summarizes the most recent 30 samples sorted for 1 inch of rainfall in the Conditionally Approved area. Two of the last thirty marine water sampling events occurred during Closed status. Table 3 summarizes data sorted for 1 inch of rainfall at stations 129 and 614 during the non-Restricted period. Table 4 shows data from stations 129 and 614 during the Restricted period.

### Change in Actual Pollution Sources that Impact the Growing Area

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

### Classification Status

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

## Remarks and Recommendations

The area is correctly classified. The Department should continue to meet and work with Mason County and others to find and fix pollution sources in the watershed. The Department should evaluate the appropriateness of the rainfall condition at stations 129 and 614. Unsorted and sorted data at these stations have similar summary statistics.

## 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 Oakland Bay 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 <sup>th</sup> Percentile (FC/100mL)	Meets Standard
116	Approved	4/15/2021 - 11/1/2023	1.7 - 23.0	2.7	6.4	Y
117	Approved	4/15/2021 - 11/1/2023	1.7 - 33.0	4.3	12.9	Y
118	Approved	4/15/2021 - 11/1/2023	1.7 - 33.0	4.7	18.5	Y
119	Approved	4/15/2021 - 11/1/2023	1.7 - 130.0	3.4	15.4	Y
120	Approved	4/15/2021 - 11/1/2023	1.7 - 13.0	2.9	7.4	Y
121	Approved	4/15/2021 - 11/1/2023	1.7 - 22.0	3.7	9.6	Y
123	Approved	4/15/2021 - 11/1/2023	1.7 - 33.0	3.3	8.8	Y
125	Approved	2/23/2021 - 11/1/2023	1.7 - 49.0	5.0	19.0	Y
126	Approved	2/23/2021 - 11/1/2023	1.7 - 49.0	4.2	12.8	Y
127	Approved	2/23/2021 - 11/1/2023	1.7 - 22.0	3.1	8.1	Y
128	Approved	4/15/2021 - 11/1/2023	1.7 - 49.0	2.9	10.3	Y
615	Approved	4/15/2021 - 11/1/2023	1.7 - 240.0	4.0	17.9	Y
639	Approved	4/15/2021 - 11/1/2023	1.7 - 79.0	3.5	12.6	Y
758	Approved	2/23/2021 - 11/1/2023	1.7 - 110.0	4.5	18.8	Y
858	Approved	4/15/2021 - 11/1/2023	1.7 - 17.0	2.8	6.6	Y
129	Conditionally Approved	2/23/2021 - 11/1/2023	1.7 - 350.0	8.5	53.3	N
614	Conditionally Approved	2/23/2021 - 11/1/2023	1.7 - 170.0	11.7	91.8	N
114	Prohibited	4/15/2021 - 11/1/2023	1.7 - 79.0	3.5	12.8	Y
115	Prohibited	4/15/2021 - 11/1/2023	1.7 - 49.0	3.4	10.5	Y
122	Prohibited	4/15/2021 - 11/1/2023	1.7 - 17.0	3.5	8.9	Y
124	Prohibited	4/15/2021 - 11/1/2023	1.7 - 33.0	2.8	8.6	Y

The standard for Approved shellfish growing waters is a 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 for the Oakland Bay Growing Area**

Sampling Event Type: Regulatory

Number of Samples: 30

Tides Included: All

Includes data for rainfall amounts: 0 - 0.99" on days 0 – 4 previous to the sampling event.

Station Number	Classification	Date Range	Range (FC/100mL)	Geomean (FC/100mL)	Est. 90 <sup>th</sup> Percentile (FC/100mL)	Meets Standard
129	Conditionally Approved	9/21/2020 - 11/1/2023	1.7 - 350.0	7.6	50.4	N
614	Conditionally Approved	9/21/2020 - 11/1/2023	1.7 - 170.0	11.6	94.0	N

The standard for Approved shellfish growing waters is a 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 3. Summary of Conditionally Approved Marine Water Data (SRS) in Open, non-Restricted Status in the Oakland Bay Growing Area**

Sampling Event Type: Regulatory

Number of Samples: 30

Tides Included: All

Includes data for rainfall amounts: 0 - 0.99" on days 0 – 4 previous to the sampling event.

Includes data for the open period (October through May)

Station Number	Classification	Date Range	Range (FC/100mL)	Geomean (FC/100mL)	Est. 90 <sup>th</sup> Percentile (FC/100mL)	Meets Standard
129	Conditionally Approved	11/7/2017 - 11/1/2023	1.7 - 17.0	4.0	11.8	Y
614	Conditionally Approved	11/7/2017 - 11/1/2023	1.7 - 49.0	4.0	13.5	Y

The standard for Approved shellfish growing waters is a 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 4. Summary of Conditionally Approved Marine Water Data (APC) during the Restricted Period in the Oakland Bay Growing Area**

Sampling Event Type: Regulatory

Number of Samples: 15

Tides Included: All

Includes data for the Restricted period (June through September).

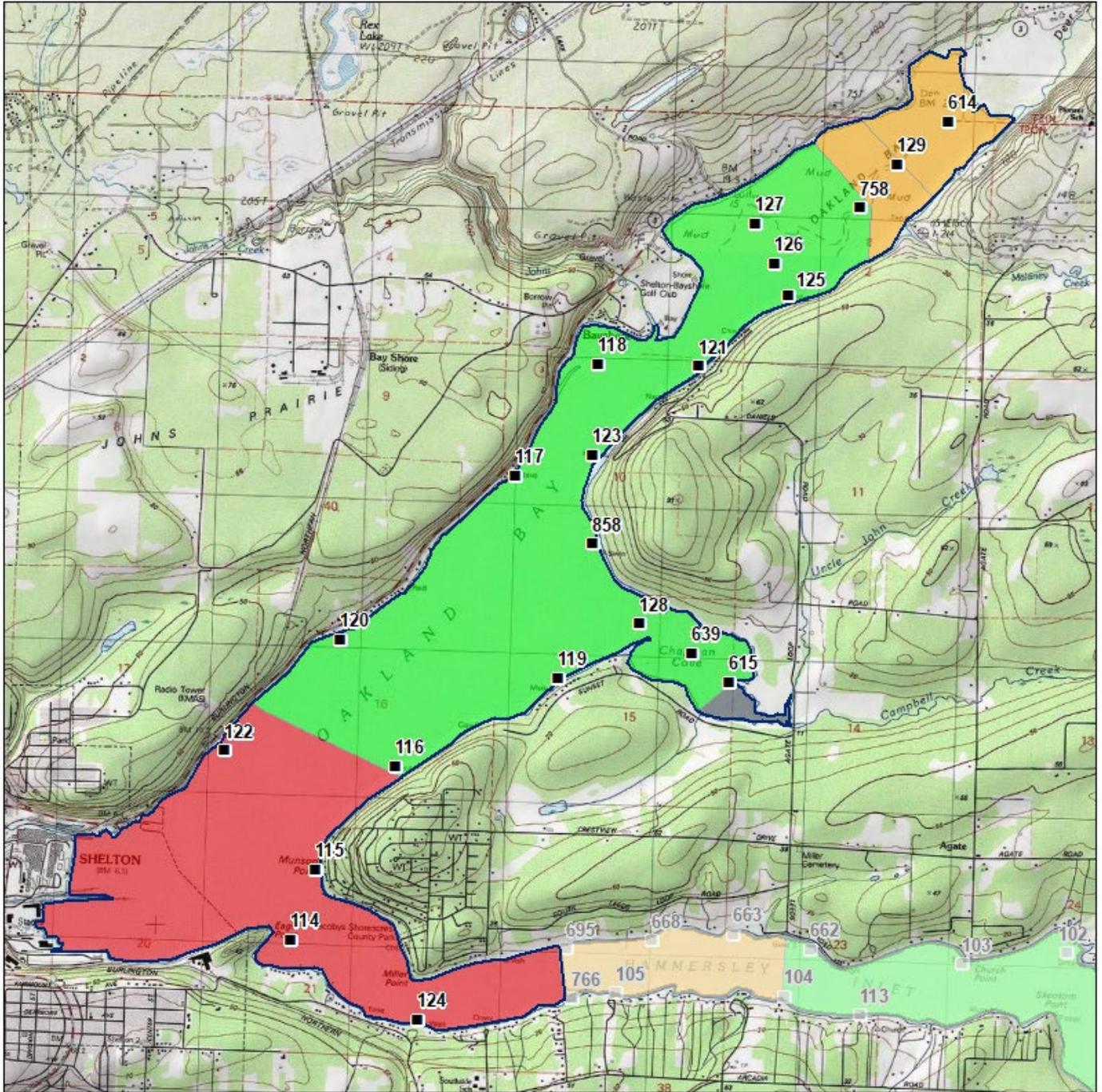
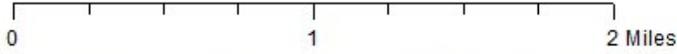
Station Number	Classification	Date Range	Range (FC/100mL)	Geomean (FC/100mL)	% Samples > 260	Meets Standard
129	Conditionally Approved	10/7/2020 - 11/1/2023	1.7 - 17.0	3.4	0.00	Y
614	Conditionally Approved	10/7/2020 - 11/1/2023	1.7 - 49.0	4.1	0.00	Y

The standard for Restricted shellfish growing waters is a fecal coliform geometric mean not greater than 88 organisms / 100 mL with not more than 10 percent greater than 260 organisms / 100 mL. The above table shows bacteriological results in relation to program standards.

MAP 1. Oakland Bay Growing Area

Oakland Bay

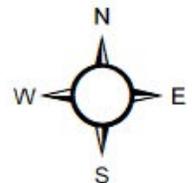
Washington State Department of Health  
 Date Updated: 12/13/2019



**Classification**

- Approved
- Conditional
- Prohibited
- Restricted
- Unclassified

**Sampling Stations**



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