Makah Bay

Annual Shellfish Growing Area Review

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Area: Makah Bay

Year Ending: December 31, 2024

Classification: Approved, Prohibited

Activities in the Growing Area in 2024

The growing area was in Inactive status and sampled a minimum of two times in accordance with National Shellfish Sanitation Program (NSSP) Systematic Random Sampling (SRS) criteria. A routine three-year shoreline evaluation was completed and no new pollution sources were identified.

Analytical Results of Water Samples

Table 1 summarizes the results of the last 30 samples collected from the area. All stations in the Approved area meet NSSP water quality standards. Marine Station 204 is Threatened with an estimated 90th percentile of 29.1 FC/100 mL. See Table 2 for individual results at Station 204.

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

Table 1 shows that all stations meet the NSSP standard for an Approved classification and the area is correctly classified.

TABLE 1. Summary of Marine Water Data (SRS) for the Makah Bay Growing Area

Sampling Event Type: Regulatory

Maximum Number of Samples: 30

Tides Included: All

Station Number	Classification	Date Range	Range (FC/100 mL)	GeoMean (FC/100 mL)	E90th(FC/100 mL)	Meets Standard
201	Approved	10/18/2017 - 9/17/2024	1.7 - 79.0	3.6	18.9	Y
202	Approved	11/7/2017 - 9/17/2024	1.7 - 130.0	3.6	16.7	Y
203	Approved	11/7/2017 - 9/17/2024	1.7 - 49.0	3.6	14.2	Y
204	Approved	11/7/2017 - 9/17/2024	1.7 - 140.0	4.6	29.1	Y
200	Prohibited	11/7/2017 - 9/17/2024	1.7 - 240.0	4.9	28.3	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. Individual Marine Water Quality data for the Threatened Station in Makah Bay.

Station:204

Classification: Approved

Method: SRS

Total Samples: 30 **Range (FC/100 mL): 1.7 - 140.0** **GeoMean (FC/100 mL): 4.6**			**Date Range: 11/07/2017 - 09/17/2024** **E90th (FC/100 mL): 29.1** **Meets Standard: Y**			
Sample Date	Event Type	Time	Tide	SWT	Salinity	Fecal Coliform
11/07/2017	Regulatory	09:59	Flood	8	26	33.0
01/17/2018	Regulatory	09:07	Flood	10	26	2.0
02/14/2018	Regulatory	09:13	Flood	9	28	1.7
03/12/2018	Regulatory	10:27	Ebb	9	26	1.7
04/10/2018	Regulatory	11:11	Ebb	11	25	1.7
06/11/2018	Regulatory	09:47	Flood	15	23	22.0
07/23/2018	Regulatory	10:59	Flood	16	28	23.0
10/03/2018	Regulatory	11:47	Ebb	14	25	1.7
01/10/2019	Regulatory	09:17	Ebb	10	23	1.7
02/26/2019	Regulatory	09:52	Ebb	6	30	1.7
05/21/2019	Regulatory	10:08	Flood	14	23	1.7
07/23/2019	Regulatory	11:14	Ebb	18	27	1.7
09/11/2019	Regulatory	09:40	Flood	16	31	2.0
11/18/2019	Regulatory	10:20	Ebb	11	28	2.0
05/05/2020	Regulatory	11:10	Flood	10	15	9.3
10/27/2020	Regulatory	11:30	Flood	12	20	1.7
10/26/2022	Regulatory	11:43	Flood	11	31	2.0
11/28/2022	Regulatory	08:33	Ebb	9	29	4.5
03/16/2023	Regulatory	09:22	Ebb	7	29	1.7
04/19/2023	Regulatory	10:37	Flood	8	22	4.5
06/13/2023	Regulatory	21:58	Flood	14	32	140.0
10/30/2023	Regulatory	09:10	Flood	11	32	1.7
11/20/2023	Regulatory	12:22	Ebb	11	30	1.8
12/11/2023	Regulatory	09:12	Flood	10	28	4.5
04/22/2024	Regulatory	09:58	Flood	11	35	1.7
05/13/2024	Regulatory	10:25	Ebb	12	29	4.5
06/26/2024	Regulatory	12:27	Flood	15	28	33.0
07/16/2024	Regulatory	09:07	Flood	14	30	2.0
08/06/2024	Regulatory	08:58	Ebb	15	27	70.0
09/17/2024	Regulatory	09:48	Flood	14	28	130.0

MAP 1. Makah Bay Growing Area