

Drayton Harbor

Annual Shellfish Growing Area Review



Prepared By: Scott Chernoff

Area: Drayton Harbor

Year Ending: December 31, 2022

Classification: Approved, Conditionally Approved, Prohibited

Activities in the Growing Area in 2022

The growing area was sampled ten times in accordance with National Shellfish Sanitation Program (NSSP) Systematic Random Sampling criteria. Seven of the samples were collected during the Open status. The Conditionally Approved portion was closed for a total of 92 days due to season (closed November 1 to January 31).

A routine shoreline survey was conducted, and no Direct or Indirect Impacts were identified. An evaluation of the Blaine WRF was completed and no changes to the closure zone are recommended. A combined sewage overflow threshold of 100,000 gallons at Marine Drive near Cain Creek CSO will be used for an emergency closure of the growing area. A comprehensive evaluation report is in the central growing area file. An evaluation of the Port of Blaine and Semiahmoo marinas were completed and no changes to the closure zone are recommended. A comprehensive evaluation report is in the central growing area file.

In September, 42 acres, adjacent to Station 413, were reclassified from Approved from Conditionally Approved due to poor water quality. The new Conditionally Approved area is closed to harvest from November 1 through January 31 of each year.

The Whatcom Clean Water Program, Whatcom County Public Works, and Whatcom Conservation District received National Estuary Program (NEP) funding for coordinating and implementing a pollution identification and control program in the watershed. Washington State Department of Agriculture (WSDA) and Washington State Department of Ecology (Ecology) received NEP funding for enhanced water compliance monitoring and referral and technical assistance, with WSDA focusing on dairies and Ecology addressing nonpoint pollution stemming from nondairy agriculture. The Drayton Harbor Shellfish Protection District continued quarterly meetings.

Analytical Results of Water Samples

Table 1 summarizes the most recent 30 samples collected from each of the sampling stations. All stations in the Approved area meet the NSSP standard for an Approved classification. Stations 378, 379, and 413, which monitor the status of the Conditionally Approved areas, fail the Approved standard with all data. Station 428 only has 14 samples. Table 2 shows a summary of the last 30 samples collected from these stations during Open status (February – October) and show that the condition is appropriate for the area.

Station 6 is Threatened with an estimated 90th percentile of 30.4 FC/100mL. Station 4 is Concerned with an estimated 90th percentile of 24.3 FC/100mL. Table 3 includes the last 30 sample results for Station 6.

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 some concerns
- 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.

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 Drayton Harbor 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
3	Approved	12/11/2019 - 12/15/2022	1.7 - 110.0	4.3	19.8	Y
4	Approved	1/8/2020 - 12/15/2022	1.7 - 110.0	4.6	24.3	Y
5	Approved	1/8/2020 - 12/15/2022	1.7 - 33.0	3.7	13.9	Y
6	Approved	1/8/2020 - 12/15/2022	1.7 - 350.0	4.7	30.4	Y
12	Approved	1/8/2020 - 12/15/2022	1.7 - 130.0	3.0	11.7	Y
313	Approved	1/8/2020 - 12/15/2022	1.7 - 23.0	3.2	10.4	Y
314	Approved	1/8/2020 - 12/15/2022	1.7 - 70.0	3.7	15.5	Y
315	Approved	1/8/2020 - 12/15/2022	1.7 - 33.0	3.4	12.0	Y
428	Conditionally Approved	6/2/2021 - 12/15/2022	1.7 - 33.0	2.4	6.9	*N/A
8	Prohibited	1/8/2020 - 12/15/2022	1.7 - 920.0	12.4	104.2	N
11	Prohibited	1/8/2020 - 12/15/2022	1.7 - 280.0	4.2	20.2	Y
15	Prohibited	1/8/2020 - 12/15/2022	1.7 - 1600.0	13.2	127.6	N
378	Prohibited	1/8/2020 - 12/15/2022	1.7 - 350.0	5.8	45.4	N
379	Prohibited	1/8/2020 - 12/15/2022	1.7 - 240.0	5.6	47.8	N
413	Prohibited	12/11/2019 - 12/15/2022	1.7 - 220.0	7.7	49.4	N

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.

*SRS criteria require a minimum of 30 samples from each station.

TABLE 2. Summary of Conditionally Approved Marine Water Data (SRS) during Open Status in the Drayton Harbor 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
428	Conditionally Approved	6/2/2021 - 10/26/2022	1.7 - 4.5	2.0	3.3	*N/A
378	Prohibited	4/3/2019 - 10/26/2022	1.7 - 130.0	3.5	12.5	Y
379	Prohibited	4/3/2019 - 10/26/2022	1.7 - 64.0	3.3	13.0	Y
413	Prohibited	3/12/2019 - 10/26/2022	1.7 - 49.0	4.3	15.5	Y

The standard for approved shellfish growing waters is fecal coliform geometric mean not greater than 14 organisms / 100 mL with not more than 10 percent greater than 43 organisms / 100 mL. The above table shows bacteriological results in relation to program standards.

*SRS criteria require a minimum of 30 samples from each station.

TABLE 3. Marine Water Quality Summary for the Threatened Station in Drayton Harbor

Station: 6

Classification: Approved

Method: SRS

Total Samples: 30 Range (FC/100 mL): 1.7 – 350.0 GeoMean (FC/100 mL): 4.7				Date Range: 01/08/2020 – 12/15/2022 E90th (FC/100 mL): 30.4 Meets Standard: Yes		
Sample Date	Event Type	Time	Tide	SWT	Salinity	Fecal Coliform
01/08/2020	Regulatory	14:42	Ebb	8	28	33.0
02/13/2020	Regulatory	09:04	Flood	8	29	17.0
04/27/2020	Regulatory	08:39	Ebb	12	29	2.0
06/24/2020	Regulatory	08:35	Ebb	18	26	2.0
07/15/2020	Regulatory	15:11	Flood	19	12	1.7
08/06/2020	Regulatory	08:21	Ebb	18	25	1.7
09/23/2020	Regulatory	11:34	Flood	13	31	49.0
10/21/2020	Regulatory	11:06	Flood	12	30	4.5
11/18/2020	Regulatory	15:16	Flood	10	28	22.0
12/09/2020	Regulatory	10:49	Flood	9	20	350.0
01/06/2021	Regulatory	10:22	Flood	7	19	94.0
02/09/2021	Regulatory	14:37	Ebb	7	28	4.0
03/03/2021	Regulatory	08:51	Ebb	7	28	4.0
04/06/2021	Regulatory	14:48	Ebb	10	30	1.7
05/04/2021	Regulatory	10:22	Flood	13	29	2.0
06/02/2021	Regulatory	13:19	Ebb	18	30	1.7
07/15/2021	Regulatory	08:50	Flood	18	22	4.0
08/17/2021	Regulatory	14:07	Flood	18	26	2.0
09/23/2021	Regulatory	08:30	Ebb	14	30	1.7
10/12/2021	Regulatory	14:59	Ebb	11	31	2.0
01/11/2022	Regulatory	14:16	Ebb	6	28	33.0
02/08/2022	Regulatory	09:30	Flood	6	25	2.0
05/19/2022	Regulatory	09:01	Ebb	11	29	1.7
07/14/2022	Regulatory	20:04	Flood	19	21	2.0
08/17/2022	Regulatory	09:27	Flood	18	27	2.0
09/07/2022	Regulatory	15:55	Flood	18	26	1.7
10/19/2022	Regulatory	14:38	Flood	12	31	1.7
10/26/2022	Regulatory	08:58	Ebb	11	29	2.0
11/15/2022	Regulatory	13:38	Ebb	9	31	2.0
12/15/2022	Regulatory	10:24	Flood	6	28	13.0

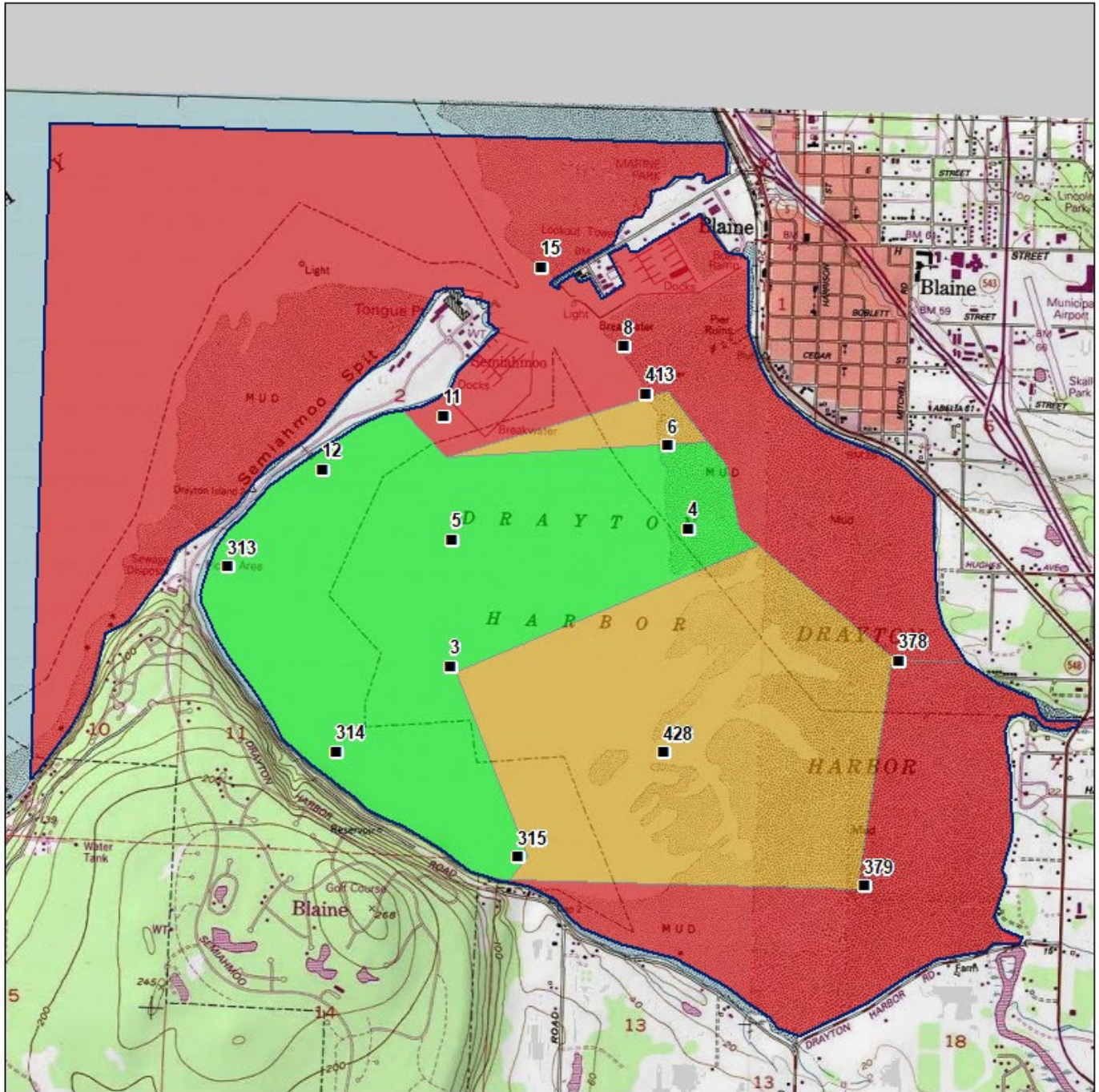
MAP 1: Drayton Harbor Growing Area



 Drayton Harbor

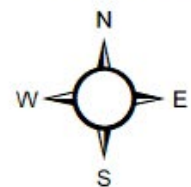
0 0.75 1.5 Miles



Date Updated: 8/4/2022



Classification		Sampling Stations
	Approved	
	Conditional	
	Prohibited	
	Restricted	
	Unclassified	



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