

# Skagit Bay South

## Annual Shellfish Growing Area Review



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Area: Skagit Bay South

Year Ending: December 31, 2020

Classification: Approved, Prohibited

### Activities in the Growing Area in 2020

Five samples were collected from each of the stations in the growing area. The required samples were not collected due to travel, physical distancing, or staffing issues related to the COVID-19 pandemic.

Snohomish County and local partners continued working in the Stillaguamish River watershed using National Estuary Program grant funds for on-site septic system operations and maintenance incentives and pollution identification and control projects.

### Analytical Results of Water Samples

Table 1 summarizes results of the 30 most recent samples collected from each of the sampling stations. All stations meet the NSSP standard for their respective classifications. Stations 185 and 192 are categorized as Threatened with an estimated 90<sup>th</sup> percentile of 28.6 and 35.0 FC/100mL, respectively. Stations 180, 184, 186, and 179 are categorized as Concerned. Station 179 is classified as Prohibited; however, this station holds the sanitary line with the Approved portion of the growing area. Table 2 includes individual sample results for Stations 185 and 192.

### 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 some concerns
- 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 water quality standard for an Approved classification and the area is correctly classified.

**TABLE 1. Summary of Marine Water Data (SRS) Skagit Bay South**

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
180	Approved	10/21/2015 - 12/21/2020	1.7 - 79.0	5.7	23.5	Y
183	Approved	10/21/2015 - 12/21/2020	1.7 - 33.0	3.6	11.0	Y
184	Approved	10/21/2015 - 12/21/2020	1.7 - 110.0	5.0	22.9	Y
185	Approved	10/21/2015 - 12/21/2020	1.7 - 130.0	5.9	28.6	Y
186	Approved	10/21/2015 - 12/21/2020	1.7 - 79.0	5.0	21.5	Y
187	Approved	10/21/2015 - 12/21/2020	1.7 - 49.0	3.5	11.6	Y
188	Approved	10/21/2015 - 12/21/2020	1.7 - 17.0	2.8	7.1	Y
189	Approved	10/21/2015 - 12/21/2020	1.7 - 17.0	2.3	5.1	Y
190	Approved	10/21/2015 - 12/21/2020	1.7 - 70.0	4.0	15.7	Y
191	Approved	10/21/2015 - 12/21/2020	1.7 - 23.0	2.5	6.2	Y
192	Approved	9/21/2015 - 12/21/2020	1.7 - 110.0	8.0	35.0	Y
269	Approved	10/21/2015 - 12/21/2020	1.7 - 79.0	4.5	19.7	Y
341	Approved	10/21/2015 - 12/21/2020	1.7 - 17.0	2.2	4.5	Y
179	Prohibited	8/6/2015 - 12/21/2020	1.7 - 79.0	5.9	24.1	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. Marine Water Quality Summary – Threatened Stations in Skagit Bay South Growing Area**

Station: 185

Classification: Approved

Method: SRS

Total Samples: 30

Range (FC/100 mL): 1.7 – 130.0

GeoMean (FC/100 mL): 5.9

Date Range: 10/21/2015 – 12/21/2020

E90th (FC/100 mL): 28.6

Meets Standard: Y

Sample Date	Event Type	Time	Tide	SWT	Salinity	Fecal Coliform
10/21/2015	Regulatory	12:09	Flood	14	20	2.0
02/29/2016	Regulatory	11:02	Ebb	9	15	1.7
03/30/2016	Regulatory	10:20	Ebb	11	12	33.0
05/04/2016	Regulatory	14:51	Flood	14	5	33.0
07/27/2016	Regulatory	12:25	Flood	19	6	33.0
09/22/2016	Regulatory	10:06	Flood	15	16	7.8
11/21/2016	Regulatory	10:43	Flood	9	5	17.0
01/05/2017	Regulatory	09:55	Flood	2	12	4.5
03/07/2017	Regulatory	13:41	Ebb	6	15	4.5
04/04/2017	Regulatory	08:47	Flood	9	0	27.0
06/27/2017	Regulatory	08:41	Ebb	16	7	23.0
09/26/2017	Regulatory	09:01	Flood	14	20	2.0
12/27/2017	Regulatory	10:36	Flood	6	20	7.8
02/27/2018	Regulatory	12:29	Flood	6	12	2.0
04/09/2018	Regulatory	12:22	Flood	9	1	4.0
06/11/2018	Regulatory	17:34	Ebb	17	4	2.0
08/09/2018	Regulatory	16:25	Flood	19	20	1.7
10/30/2018	Regulatory	12:49	Ebb	11	17	13.0
12/18/2018	Regulatory	13:00	Flood	9	24	4.5
01/29/2019	Regulatory	12:47	Ebb	5	5	1.7
05/01/2019	Regulatory	16:01	Flood	14	17	1.7
07/22/2019	Regulatory	08:56	Flood	18	18	1.7
08/27/2019	Regulatory	14:54	Flood	18	20	2.0
09/18/2019	Regulatory	08:29	Flood	14	18	17.0
11/05/2019	Regulatory	12:25	Flood	10	21	2.0
02/18/2020	Regulatory	12:38	Flood	6	0	1.7
06/30/2020	Regulatory	14:01	Flood	15	1	11.0
08/27/2020	Regulatory	13:35	Flood	18	16	2.0
10/12/2020	Regulatory	13:02	Flood	12	13	130.0
12/21/2020	Regulatory	11:34	Ebb	7	7	13.0

**TABLE 2. Continued**

Station: 192

Classification: Approved

Method: SRS

Total Samples: 30

Range (FC/100 mL): 1.7 – 110.0

GeoMean (FC/100 mL): 8.0

Date Range: 9/21/2015 – 12/21/2020

E90th (FC/100 mL): 35.0

Meets Standard: Y

Sample Date	Event Type	Time	Tide	SWT	Salinity	Fecal Coliform
09/21/2015	Regulatory	13:43	Ebb	16	8	110.0
10/21/2015	Regulatory	12:07	Flood	14	20	2.0
02/29/2016	Regulatory	10:58	Ebb	9	16	2.0
03/30/2016	Regulatory	10:17	Ebb	11	10	11.0
05/04/2016	Regulatory	14:44	Flood	14	5	17.0
07/27/2016	Regulatory	12:17	Flood	19	6	49.0
09/22/2016	Regulatory	10:04	Flood	15	16	6.8
11/21/2016	Regulatory	10:41	Flood	10	6	13.0
01/05/2017	Regulatory	09:52	Flood	4	12	4.5
03/07/2017	Regulatory	13:39	Ebb	6	18	1.7
04/04/2017	Regulatory	08:41	Flood	9	2	2.0
06/27/2017	Regulatory	08:38	Ebb	16	6	49.0
09/26/2017	Regulatory	08:58	Flood	14	18	4.0
12/27/2017	Regulatory	10:34	Flood	6	19	13.0
02/27/2018	Regulatory	12:23	Flood	6	13	2.0
06/11/2018	Regulatory	17:30	Ebb	16	6	4.5
08/09/2018	Regulatory	16:20	Flood	19	14	7.8
10/30/2018	Regulatory	12:37	Ebb	11	17	13.0
12/18/2018	Regulatory	12:56	Flood	9	22	13.0
01/29/2019	Regulatory	12:44	Ebb	5	6	4.5
05/01/2019	Regulatory	15:56	Flood	14	16	1.7
07/22/2019	Regulatory	08:52	Flood	18	7	7.8
08/27/2019	Regulatory	14:50	Flood	18	18	4.5
09/18/2019	Regulatory	08:25	Flood	14	18	22.0
11/05/2019	Regulatory	12:21	Flood	10	21	2.0
02/18/2020	Regulatory	12:34	Flood	6	0	4.5
06/30/2020	Regulatory	13:57	Flood	15	2	49.0
08/27/2020	Regulatory	13:30	Flood	18	15	4.5
10/12/2020	Regulatory	13:00	Flood	12	8	33.0
12/21/2020	Regulatory	11:30	Ebb	7	5	17.0

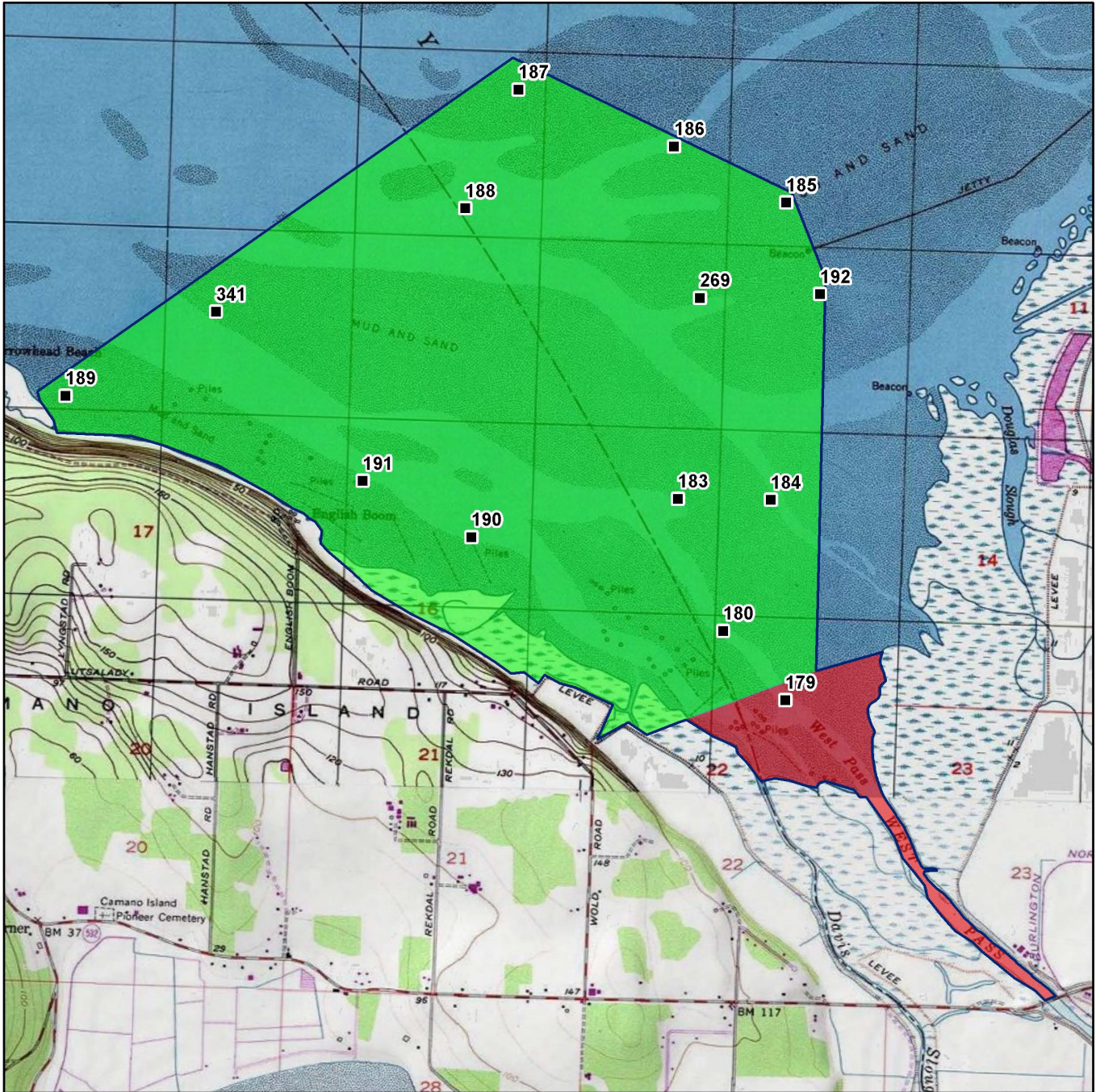
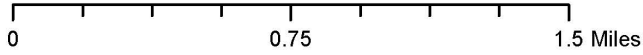


MAP 1. Skagit Bay South Growing Area

South Skagit Bay

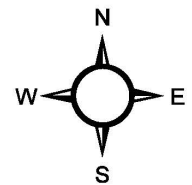


Date Updated: 7/11/2018



- Classification**
- Approved
  - Conditional
  - Prohibited
  - Restricted
  - Unclassified

**Sampling Stations**



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