

Washington State Department of Health Office of Shellfish and Water Protection

Annual Growing Area Review

PREPARED BY: Kelly Curtis, Environmental Specialist

AREA: East Straits-
Green Pt (A), Freshwater Bay (A), Deep Creek (I), Pysht (I)

YEAR ENDING: December 31, 2011

CLASSIFICATION: Approved: Active (18 stations), Inactive (8 stations); Prohibited

Activities In The Growing Area In 2011

Samples were collected from the Active stations in the growing area six times and from the Inactive stations (January 2009) two times during the year using the Systematic Random Sampling method. We completed an evaluation of the upland conditions around Station 140 due to the extremely high sampling results during the September sampling event.

Analytical Results Of Water Samples

Tables 1 (Inactive stations) and 2 (Active stations) summarize the results from a minimum of the last 30 samples collected from the area. All stations in the area, except Station 140, pass the NSSP water quality standard. Table 3 shows individual sampling dates for Station 140. Results at Station 140 in October 2010 and September 2011 were >2,400 fc/100 ml increasing the estimated 90th percentile to 58 fc/100 ml.

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

Tables 1 and 2 show that all stations except #140 meet the NSSP Approved water quality standard. The extremely elevated sampling results at Station 140 places the station in Failing Status.

Table 1

SUMMARY OF MARINE WATER DATA (SRS)

Growing Area: **EAST STRAITS**

Classification: Approved, Inactive

From **08/24/2004** To **09/27/2011**

FECAL COLIFORM ORGANISMS/100 ML

Station Number	Classification	Number of Samples	Range	Geometric Mean	Est. 90th Percentile	Meets Std.
136	Approved	32	1.7 - 350.0	3.7	19.0	Yes
137	Approved	32	1.7 - 79.0	2.7	9.0	Yes
139	Approved	31	1.7 - 130.0	3.1	12.0	Yes
140	Approved	31	1.7 - 2,401.0	4.6	58.0	No
141	Approved	31	1.7 - 33.0	3.2	11.0	Yes
142	Approved	30	1.7 - 33.0	3.9	14.0	Yes
143	Approved	31	1.7 - 31.0	2.8	8.0	Yes
174	Approved	32	1.7 - 1,600.0	3.2	18.0	Yes

All tides information is presented

The standard for approved shellfish growing waters is fecal coliform geometric mean not greater than 14 organisms/100 ml and an estimate of the 90th percentile not greater than 43 organisms/100 ml. The above table shows bacteriological results in relation to program standards.

† All samples have been verified.

Table 2

SUMMARY OF MARINE WATER DATA (SRS)

Growing Area: **EAST STRAITS**

Classification: **Approved, Active**

From **11/21/2006** To **11/03/2011**

FECAL COLIFORM ORGANISMS/100 ML

Station Number	Classification	Number of Samples	Range	Geometric Mean	Est. 90th Percentile	Meets Std.
116	Approved	30	1.7 - 11.0	1.8	2.0	Yes
117	Approved	30	1.7 - 4.5	1.8	2.0	Yes
118	Approved	30	1.7 - 49.0	2.0	4.0	Yes
119	Approved	30	1.7 - 4.5	1.9	2.0	Yes
120	Approved	30	1.7 - 13.0	2.2	4.0	Yes
121	Approved	30	1.7 - 4.5	1.8	2.0	Yes
122	Approved	30	1.7 - 23.0	2.1	4.0	Yes
123	Approved	30	1.7 - 4.8	1.8	2.0	Yes
124	Approved	30	1.7 - 17.0	2.1	4.0	Yes
127	Approved	30	1.7 - 4.5	1.8	2.0	Yes
128	Approved	30	1.7 - 17.0	2.2	5.0	Yes
144	Approved	30	1.7 - 4.5	1.8	2.0	Yes
145	Approved	30	1.7 - 7.4	1.9	2.0	Yes
146	Approved	30	1.7 - 2.0	1.7	1.0	Yes
147	Approved	30	1.7 - 21.0	2.0	4.0	Yes
148	Approved	30	1.7 - 4.0	1.7	2.0	Yes
149	Approved	30	1.7 - 11.0	2.1	4.0	Yes
150	Approved	30	1.7 - 49.0	2.1	5.0	Yes

All tides information is presented

The standard for approved shellfish growing waters is fecal coliform geometric mean not greater than 14 organisms/100 ml and an estimate of the 90th percentile not greater than 43 organisms/100 ml. The above table shows bacteriological results in relation to program standards.

Table 3

**SUMMARY OF SHELLFISH GROWING AREAS
WATER QUALITY STUDY RESULTS**

Growing Area: **EAST STRAITS**

Sampling Station Number: **140**

Classification: **Approved**

Sample Date	Sample Time	Tide	Fcoli/100ml	Temperature	Salinity
08/24/2004	09:58	Ebb	79	14	32
10/05/2004	06:24	Flood	1.8	9	27
01/18/2005	10:05	Ebb	33	5	18
03/08/2005	08:31	Flood	1.7	8	28
09/13/2005	12:47	Ebb	1.7		33
10/26/2005	11:38	Ebb	1.7	9	30
11/16/2005	10:13	Flood	2		
01/10/2006	10:36	Ebb	23	6	20
03/29/2006	12:50	Flood	1.7	9	29
05/25/2006	13:40	Flood	1.7	13	30
07/10/2006	13:56	Flood	1.8		31
09/26/2006	09:45	Ebb	2	9	33
12/04/2006	10:31	Flood	2	8	28
03/27/2007	11:09	Ebb	3	8	
05/24/2007	12:35	Ebb	2		24
07/18/2007	15:00	Flood	13	13	30
10/16/2007	12:26	Flood	1.7	10	32
11/14/2007	12:27	Flood	4.5	9	18
12/19/2007	11:41	Flood	1.7	8	22
02/06/2008	09:15	Flood	23	5	18
03/18/2008	13:10	Ebb	1.7		22
05/27/2008	11:45	Ebb	1.7		28
06/18/2008	13:40	Flood	1.7	14	30
09/25/2008	15:05	Flood	2	11	30
12/09/2008	09:43	Flood	1.8	7	29
04/21/2009	07:32	Flood	1.7		
09/01/2009	12:10	Flood	2	14	31
06/07/2010	11:00	Flood	1.7	14	19
10/25/2010	13:45	Ebb	2401	10	21
06/09/2011	09:20	Ebb	2	30	13
09/27/2011	12:45	Flood	2400	13	28

Number of Samples: 31

Geometric Mean: 4.6

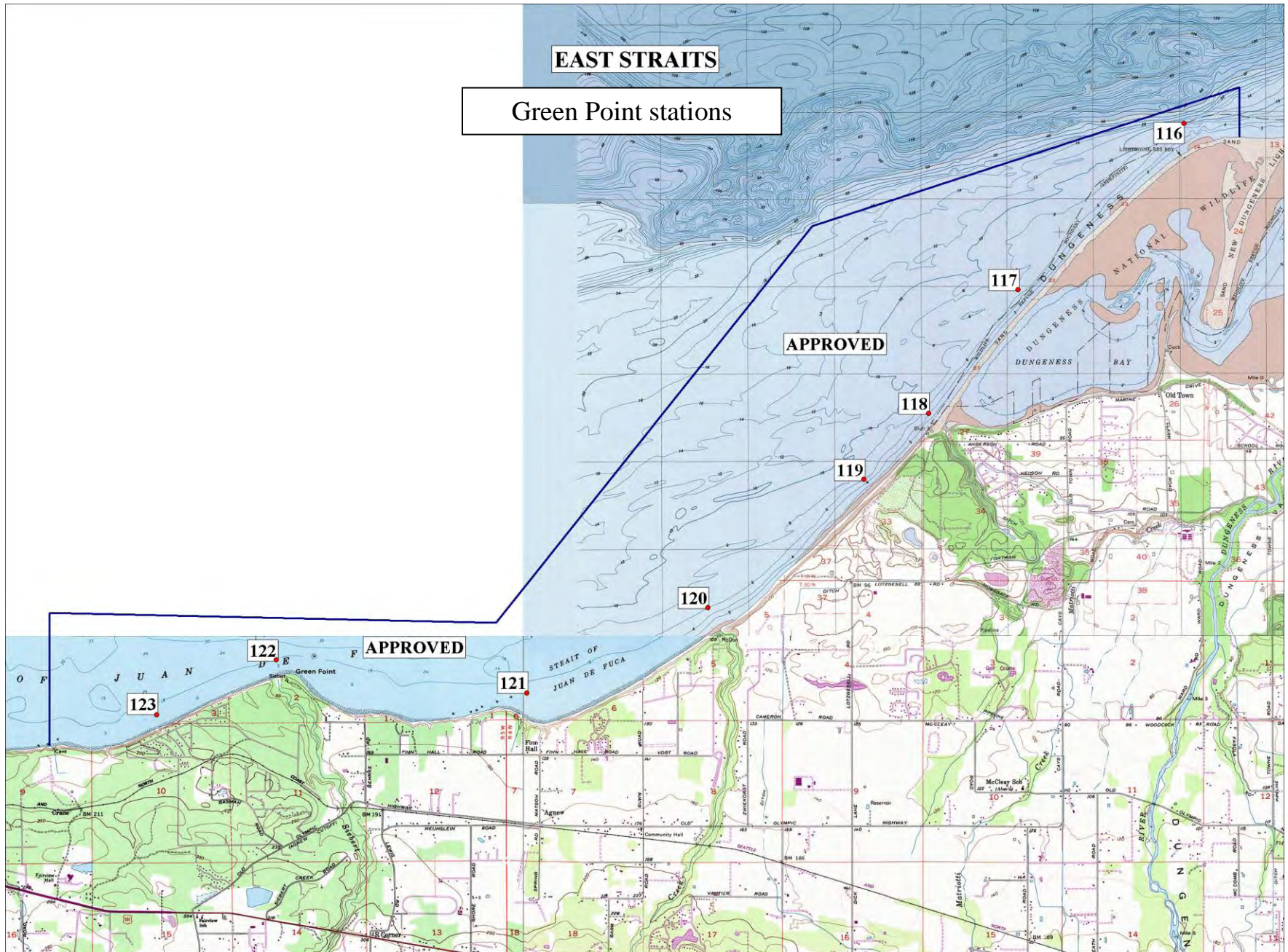
Range: 1.7 - 2401

Estimated 90th Percentile: 58

† All samples have been verified.

EAST STRAITS

Green Point stations



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