

Washington State Department of Health Office of Shellfish and Water Protection

Annual Growing Area Review

PREPARED BY: Jule Schultz
AREA: Dyes Inlet
YEAR ENDING: December 31, 2011
CLASSIFICATION: Approved, Conditionally Approved, Prohibited

Activities in the Growing Area in 2011

The Approved and Prohibited portions of the growing area were sampled five times using the Systematic Random Sampling method and the Conditionally Approved portion was sampled 12 times using the Adverse Pollution Condition method in 2011. The entire area was sampled an additional time in 2011, but the data was not used because it occurred during an emergency closure of the growing area. The missed sampling event will be made up in January 2012. The Conditionally Approved portion of the growing area was closed twice in 2011 for a total of 20 days. The Approved portion of the growing area was closed under emergency conditions once for seven days due to excessive amounts of rainfall recorded at the Bremerton Airport.

Analytical Results Of Water Samples

Table 1 summarizes the results of the most recent 30 water samples collected from stations in the Approved, Conditionally Approved, and Prohibited portions of Dyes Inlet. This summary shows that all Approved stations pass the NSSP water quality standard. Table 2 summarizes the results of the most recent 30 water samples collected from stations in the Conditionally Approved portions of the Dyes Inlet area. Station 471 is Concerned and, because of the data dropping off the dataset in 2012, Stations 481 and 482 are listed as Concerned instead of Threatened. Tables 2 and 3 summarize the results of the most recent 30 water samples collected at Stations 481 and 482.

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

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Remarks and Recommendations

Kitsap County has completed shoreline surveys near Erlands Point and the west shoreline of the growing area during which they found and fixed on-site sewage systems. Clear, Strawberry, Barker, and Chico creeks are on the 303D list for fecal coliform.

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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)(APC)
Growing Area: Dyes Inlet
Classification: Approved, Conditionally Approved, Prohibited**

Fecal Coliform Organisms/100 ml

Station	Sample Date Range	Classification	Number of Samples	Range	Geometric Mean	Est. 90th Percentile	Meets Std.
466	4/14/09 – 12/31/11	Prohibited	30	<1.8 - 79	4.8	22.0	Yes
469	10/15/08 – 12/31/11	Approved	30	<1.8 - 23	2.8	7.0	Yes
470	10/15/08 – 12/31/11	Approved	30	<1.8 - 17	2.9	8.0	Yes
471	10/15/08 – 12/31/11	Approved	30	<1.8 - 130	4.1	20.0	Yes
472	10/15/08 – 12/31/11	Approved	30	<1.8 - 49	4.3	14.0	Yes
473	10/15/08 – 12/31/11	Approved	30	<1.8 - 49	3.0	10.0	Yes
474	10/15/08 – 12/31/11	Approved	30	<1.8 - 49	3.4	11.0	Yes
485	11/15/06 – 12/31/11	Prohibited	32	<1.8 - 49	2.8	9.0	Yes
486	11/15/06 – 12/31/11	Prohibited	32	<1.8 - 350	3.2	14.0	Yes
487	11/15/06 – 12/31/11	Prohibited	32	<1.8 - 170	5.0	26.0	Yes
488	11/15/06 – 12/31/11	Prohibited	32	<1.8 - 70	3.3	13.0	Yes
489	11/15/06 – 12/31/11	Prohibited	31	<1.8 - 79	3.2	12.0	Yes
490	11/15/06 – 12/31/11	Prohibited	32	<1.8 - 33	2.8	9.0	Yes
492	11/15/06 – 12/31/11	Prohibited	31	<1.8 - 49	2.3	6.0	Yes
546	11/15/06 – 12/31/11	Prohibited	32	<1.8 - 33	3.0	10.0	Yes
576	11/15/06 – 12/31/11	Prohibited	31	<1.8 - 33	2.9	9.0	Yes
577	11/15/06 – 12/31/11	Prohibited	31	<1.8 - 79	4.3	20.0	Yes
578	11/15/06 – 12/31/11	Prohibited	30	<1.8 - 110	3.1	12.0	Yes
604	11/15/06 – 12/31/11	Prohibited	32	<1.8 - 31	2.3	6.0	Yes
605	11/15/06 – 12/31/11	Prohibited	32	<1.8 - 33	3.0	9.0	Yes
606	11/15/06 – 12/31/11	Prohibited	32	<1.8 - 13	2.9	6.0	Yes
656	11/15/06 – 12/31/11	Prohibited	30	<1.8 - 110	2.7	10.0	Yes
Station	Sample Date Range	Classification	Number of Samples	Range	Geometric Mean	% Samples >43	Meets Std.
462	6/29/09 – 12/31/11	Conditionally Approved	30	<1.8 - 33	2.6	0.0	Yes
463	1/30/07 – 12/31/11	Conditionally Approved	30	<1.8 - 49	2.8	3.3	Yes
464	6/29/09 – 12/31/11	Conditionally Approved	30	<1.8 - 130	2.7	3.3	Yes
465	6/29/09 – 12/31/11	Conditionally Approved	30	<1.8 - 130	3.5	3.3	Yes
467	6/29/09 – 12/31/11	Conditionally Approved	30	<1.8 - 13	2.2	0.0	Yes
468	6/29/09 – 12/31/11	Conditionally Approved	30	<1.8 - 13	2.7	0.0	Yes
477	6/29/09 – 12/31/11	Conditionally Approved	30	<1.8 - 33	2.4	0.0	Yes
478	6/29/09 – 12/31/11	Conditionally Approved	30	<1.8 - 7.8	2.1	0.0	Yes
479	6/29/09 – 12/31/11	Conditionally Approved	30	<1.8 - 7.8	1.9	0.0	Yes
480	6/29/09 – 12/31/11	Conditionally Approved	30	<1.8 - 49	2.8	3.3	Yes
481	6/29/09 – 12/31/11	Conditionally Approved	30	<1.8 - 240	3.7	6.6	Yes
482	6/29/09 – 12/31/11	Conditionally Approved	30	<1.8 - 130	2.7	6.6	Yes
Station	Sample Date Range	Classification	Number of Samples	Range	Geometric Mean	% Samples >43	Meets Std.
483	6/29/09 – 12/31/11	Conditionally Approved	30	<1.8 - 17	2.4	0.0	Yes
484	6/29/09 – 12/31/11	Conditionally Approved	30	<1.8 - 13	2.3	0.0	Yes
491	6/29/09 – 12/31/11	Conditionally Approved	30	<1.8 - 170	2.8	3.3	Yes

TABLE 1 (cont.)

Summary of Marine Water Data (SRS)(APC)

Growing Area: Dyes Inlet

Classification: Approved, Conditionally Approved, Prohibited

Fecal Coliform Organisms/100 ml

655	6/29/09 – 12/31/11	Conditionally Approved	30	<1.8 - 49	3.0	3.3	Yes
661	6/29/09 – 12/31/11	Conditionally Approved	30	<1.8 - 49	2.7	3.3	Yes

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 m (SRS) or not more than 10 percent greater than 43 organisms/100ml. The above table shows bacteriological results in relation to program standards.

TABLE 2

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

Growing Area: **DYES INLET**

Sampling Station Number: **481**

Classification: **Conditionally Approved**

Sample Date	Sample Time	Tide	Fcoli/100ml	Temperature	Salinity
06/29/2009	13:27	Ebb	79	18	26
07/29/2009	12:48	Flood	2	25	28
08/18/2009	10:38	Ebb	1.7	18	28
09/23/2009	13:06	Ebb	6.8	15	29
10/15/2009	13:05	Flood	240	14	19
12/02/2009	12:03	Ebb	7.8	10	28
01/27/2010	13:30	Flood	1.7	9	27
02/03/2010	11:44	Ebb	1.7	9	19
03/25/2010	09:59	Flood	1.7	10	28
04/28/2010	09:58	Ebb	1.7	11	27
05/20/2010	13:17	Ebb	2	13	27
06/28/2010	09:09	Ebb	1.7	16	25
07/28/2010	13:18	Ebb	1.7	17	27
08/26/2010	07:52	Ebb	17	17	25
09/23/2010	13:20	Ebb	7.8	14	28
10/18/2010	12:16	Flood	1.7	13	28
11/29/2010	13:35	Ebb	1.7	8	28
12/20/2010	11:40	Ebb	2	8	24
01/25/2011	10:55	Ebb	1.7	8	23
02/08/2011	13:08	Ebb	1.7	8	27
03/07/2011	08:21	Ebb	1.7	6	20
03/24/2011	10:10	Ebb	2	9	16
04/26/2011	12:15	Flood	2	11	26
05/10/2011	10:11	Flood	27	11	25
06/22/2011	12:18	Ebb	2		
07/20/2011	10:06	Ebb	1.7	15	28
08/17/2011	12:29	Ebb	11	17	27
09/01/2011	10:06	Ebb	4.5	16	27
10/19/2011	12:09	Flood	1.7	14	29
12/20/2011	12:07	Flood	11	8	28

Number of Samples: 30
Geometric Mean: 3.7

Range: 1.7 - 240
% Samples > 43 : 6.6666666666

TABLE 3

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

Growing Area: **DYES INLET**

Sampling Station Number: **482**

Classification: **Conditionally Approved**

Sample Date	Sample Time	Tide	Fcoli/100ml	Temperature	Salinity
06/29/2009	13:29	Ebb	1.7	18	27
07/29/2009	12:52	Flood	2	20	28
08/18/2009	10:39	Ebb	2	18	28
09/23/2009	13:10	Ebb	2	16	28
10/15/2009	13:07	Flood	130	14	16
12/02/2009	12:05	Ebb	1.7	10	29
01/27/2010	13:35	Flood	1.7	9	27
02/03/2010	11:47	Ebb	2	9	17
03/25/2010	09:57	Flood	1.7	10	27
04/28/2010	10:01	Ebb	4.5	11	26
05/20/2010	13:19	Ebb	4.5	13	27
06/28/2010	09:12	Ebb	1.7	16	26
07/28/2010	13:21	Ebb	1.7	19	28
08/26/2010	07:50	Ebb	2	17	29
09/23/2010	13:29	Ebb	1.7	15	28
10/18/2010	12:14	Flood	1.7	13	28
11/29/2010	13:38	Ebb	1.8	8	28
12/20/2010	11:42	Ebb	1.7	8	26
01/25/2011	10:53	Ebb	2	8	17
02/08/2011	13:10	Ebb	1.7	8	27
03/07/2011	08:19	Ebb	1.7	7	22
03/24/2011	10:11	Ebb	2	9	24
04/26/2011	12:19	Flood	1.7	11	26
05/10/2011	10:09	Flood	49	11	15
06/22/2011	12:21	Ebb	7.8		
07/20/2011	10:04	Ebb	2	16	28
08/17/2011	12:32	Ebb	1.7	17	27
09/01/2011	10:05	Ebb	1.7	16	26
10/19/2011	12:12	Flood	1.7	13	29
12/20/2011	12:10	Flood	6.8	8	28

Number of Samples: 30

Range: 1.7 - 130

Geometric Mean: 2.7

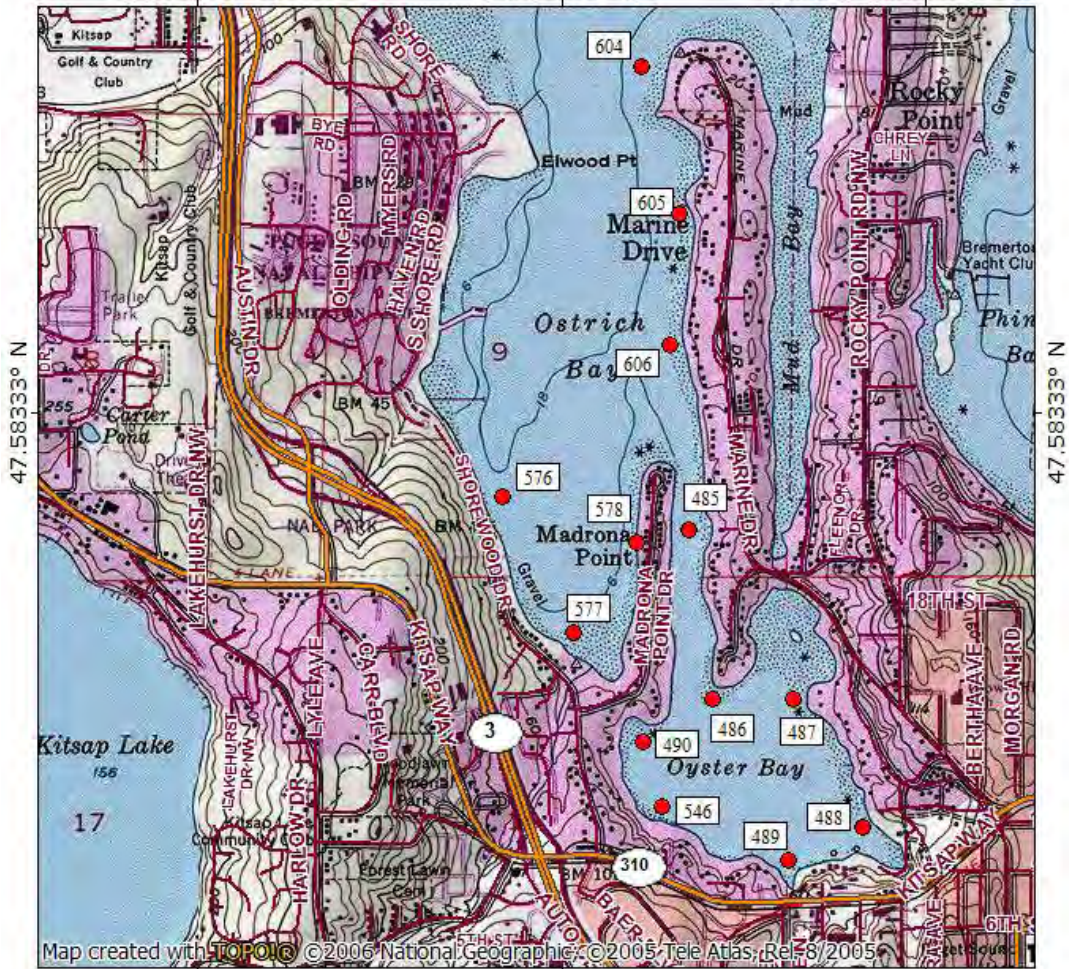
% Samples > 43 : 6.6666666666

TOPO! map printed on 02/28/12 from "DYES INLET.tpo"

122.70000° W

122.68333° W

WGS84 122.66667° W



47.58333° N

47.58333° N

Map created with TOPO! © 2006 National Geographic, © 2005 Tele Atlas, Rel. 8/2005

122.70000° W

122.68333° W

WGS84 122.66667° W

