

# Washington State Department of Health Office of Shellfish and Water Protection

## Annual Growing Area Review

**PREPARED BY:** Jule Schultz  
**AREA:** MacKaye Harbor  
**YEAR ENDING:** December 31, 2011  
**CLASSIFICATION:** Approved, Conditionally Approved

### Activities In The Growing Area in 2011

The MacKaye Harbor growing area was sampled six times using the Systematic Random Sampling Method. The Conditionally Approved area, located in Barlow Bay, was closed from May through September due to boating activities in the marina. The Conditionally Approved portion of the growing area was sampled four times while in Open status.

### Analytical Results Of Water Samples

Table 1 summarizes the most recent 30 samples from the Approved and Conditionally Approved portions of the MacKaye Harbor growing area. All stations meet NSSP criteria for an Approved classification.

### Change In Actual Pollution Sources That Impact The Growing Area

The Conditionally Approved area was re-evaluated in 2011. The evaluation recommended an upgrade to Approved based on lack of moored boats in Barlow Bay.

### 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

The Conditionally Approved portion of the growing area should be upgraded to Approved.

**Washington State Department of Health  
Office of Shellfish and Water Protection**

**Annual Growing Area Review**

**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)**

Growing Area: **MACKAYE HARBOR**

Classification: **Approved,Conditionally Approved**

From **12/13/2006** To **12/31/2011**

**FECAL COLIFORM ORGANISMS/100 ML**

<b>Station Number</b>	<b>Classification</b>	<b>Number of Samples</b>	<b>Range</b>	<b>Geometric Mean</b>	<b>Est. 90th Percentile</b>	<b>Meets Std.</b>
70	Approved	31	1.7 - 4.5	1.7	2.0	Yes
71	Approved	30	1.7 - 7.8	1.9	3.0	Yes
74	Approved	31	1.7 - 13.0	1.9	3.0	Yes
75	Approved	31	1.7 - 23.0	1.8	3.0	Yes
76	Approved	31	1.7 - 6.8	2.0	3.0	Yes
77	Approved	31	1.7 - 23.0	2.2	5.0	Yes
78	Approved	31	1.7 - 4.5	1.7	2.0	Yes
79	Approved	31	1.7 - 4.5	1.8	2.0	Yes
72	Conditionally Approved	31	1.7 - 7.8	1.8	2.0	Yes
73	Conditionally Approved	31	1.7 - 13.0	2.1	4.0	Yes

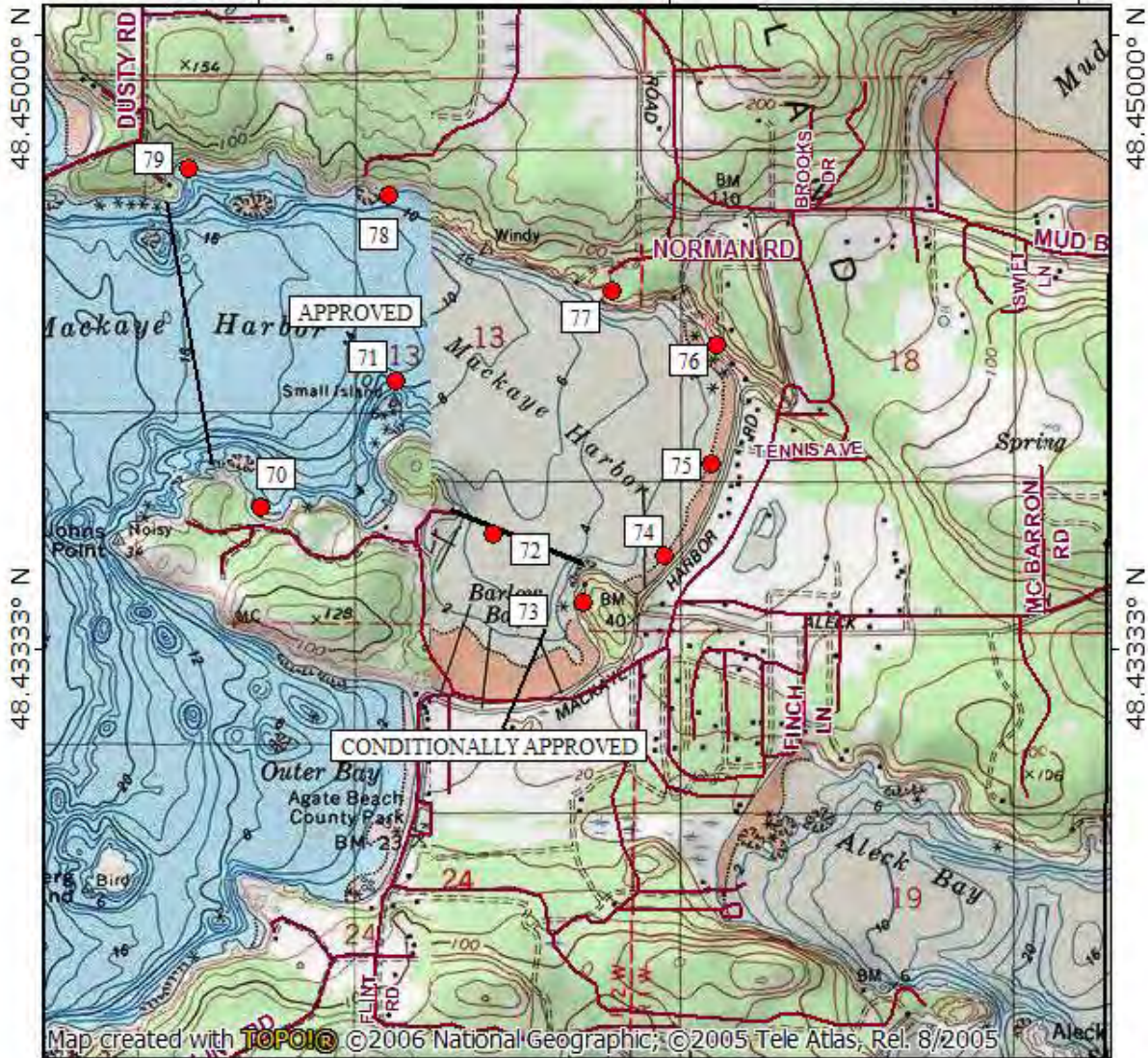
All tides information is presented

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.

TOPO! map printed on 02/28/12 from "MACKAYE HARBOR.tpo"

122.88333° W 122.86667° W WGS84 122.85000° W



48.43333° N

48.43333° N

48.45000° N

48.45000° N

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

122.88333° W 122.86667° W WGS84 122.85000° W

