



Protect Our Shoreline

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*Coalition to Preserve Puget Sound Habitat
Protect Our Shoreline
Henderson Bay Shoreline Association
APHETI
Mayo Cove Shoreline Association
Dutcher Cove Shoreline Association*

Analysis of geoduck farm obstruction and visibility during summer daylight hours from Memorial Day weekend to Labor Day, 2007, Olympia, WA

If there are also oyster bags and manila clam nets on the beach, these are at a much higher tidal elevation so will present an obstruction and be visible every day during the summer. Geoduck tubes stick up 3-4 inches from the sediment, so this is a conservative estimate.

The industry says that geoduck operations are planted on a rotational basis, so in any one vicinity there may be tubes obstructing the water and visible on a yearly basis, not just the 1-2 years that tubes are in place for a particular area.

According to the Geoduck Growers Environmental Codes of Practice¹, "a length of pipe is pushed into the substrate in the intertidal zone from approximately the -2 tidal elevation to the +3 tidal elevation (MLLW) about 12 inches apart. About 3-4 inches of the PVC pipe is left above the substrate."

This information is derived from the dairiki.org tide table for Olympia, Washington.²

Date 2007	Daylight Hours	Plant to <=+2	Days Seen	Plant to <=+3	Days Seen
26-May		0.00		0.00	
27-May		1.50	1.00	1.50	1.00
28-May		3.00	1.00	3.00	1.00
29-May		3.50	1.00	3.50	1.00
30-May		4.50	1.00	4.50	1.00
31-May		4.50	1.00	4.50	1.00
1-Jun	15.50	5.00	1.00	5.50	1.00
2-Jun		5.00	1.00	5.50	1.00
3-Jun		5.00	1.00	5.50	1.00
4-Jun		4.50	1.00	5.00	1.00
5-Jun		4.50	1.00	5.00	1.00
6-Jun		4.00	1.00	4.50	1.00
7-Jun		3.00	1.00	3.50	1.00
8-Jun		0.00		0.00	
9-Jun		0.00		0.00	
10-Jun		2.00	1.00	3.00	1.00
11-Jun		4.00	1.00	4.50	1.00
12-Jun		4.50	1.00	5.00	1.00
13-Jun		5.00	1.00	5.50	1.00
14-Jun		5.00	1.00	5.50	1.00
15-Jun		5.00	1.00	5.50	1.00

¹ Geoduck Growers Environmental Codes of Practice,
<http://www.protectourshoreline.org/taylor/8GeoduckCodesOfPractice.pdf>

² <http://www.dairiki.org/tides/monthly.php/oly>

16-Jun		5.00	1.00	5.50	1.00
17-Jun		4.50	1.00	5.00	1.00
18-Jun		4.50	1.00	5.00	1.00
19-Jun		4.50	1.00	5.00	1.00
20-Jun		2.50	1.00	3.50	1.00
21-Jun		0.00		2.00	1.00
22-Jun	16.00	0.00		0.00	
23-Jun		0.00		0.00	
24-Jun		0.00		2.50	1.00
25-Jun		2.50	1.00	3.00	1.00
26-Jun		3.50	1.00	4.00	1.00
27-Jun		4.50	1.00	5.00	1.00
28-Jun		4.50	1.00	5.00	1.00
29-Jun		5.00	1.00	5.50	1.00
30-Jun		5.00	1.00	5.50	1.00
1-Jul	16.00	5.00	1.00	5.50	1.00
2-Jul		5.00	1.00	5.50	1.00
3-Jul		4.50	1.00	5.00	1.00
4-Jul		4.00	1.00	4.50	1.00
5-Jul		3.00	1.00	4.00	1.00
6-Jul		0.00		2.00	1.00
7-Jul		0.00		1.50	1.00
8-Jul		2.00	1.00	3.50	1.00
9-Jul		3.50	1.00	4.00	1.00
10-Jul		4.50	1.00	5.00	1.00
11-Jul		5.00	1.00	5.50	1.00
12-Jul		5.00	1.00	5.50	1.00
13-Jul		5.00	1.00	5.50	1.00
14-Jul		5.00	1.00	5.50	1.00
15-Jul	15.50	5.00	1.00	5.50	1.00
16-Jul		4.50	1.00	5.00	1.00
17-Jul		4.00	1.00	4.50	1.00
18-Jul		3.00	1.00	4.00	1.00
19-Jul		1.00	1.00	2.50	1.00
20-Jul		0.00		0.00	
21-Jul		0.00		0.00	
22-Jul		0.00		2.00	1.00
23-Jul		1.00	1.00	3.50	1.00
24-Jul		3.00	1.00	4.00	1.00
25-Jul		3.50	1.00	4.00	1.00
26-Jul		4.00	1.00	4.50	1.00
27-Jul		4.50	1.00	5.00	1.00
28-Jul		4.50	1.00	5.00	1.00
29-Jul		4.50	1.00	5.00	1.00
30-Jul		5.00	1.00	5.00	1.00
31-Jul		4.50	1.00	4.75	1.00
1-Aug	15.00	4.00	1.00	4.25	1.00
2-Aug		3.00	1.00	3.50	1.00
3-Aug		0.00		2.00	1.00
4-Aug		0.00		0.00	
5-Aug		0.00		1.50	1.00
6-Aug		2.00	1.00	2.75	1.00
7-Aug		4.00	1.00	4.25	1.00
8-Aug		5.00	1.00	5.50	1.00

9-Aug		5.00	1.00	5.50	1.00
10-Aug		5.00	1.00	5.50	1.00
11-Aug		4.50	1.00	5.00	1.00
12-Aug		4.00	1.00	4.50	1.00
13-Aug		4.00	1.00	4.50	1.00
14-Aug		3.00	1.00	4.00	1.00
15-Aug		3.00	1.00	3.50	1.00
16-Aug		0.00		2.25	1.00
17-Aug		0.00		0.00	
18-Aug		0.00		0.00	
19-Aug		0.00		0.00	
20-Aug		0.00		1.00	1.00
21-Aug		1.00	1.00	2.00	1.00
22-Aug		2.50	1.00	3.50	1.00
23-Aug		3.50	1.00	4.50	1.00
24-Aug		3.50	1.00	4.50	1.00
25-Aug		4.00	1.00	4.50	1.00
26-Aug		4.00	1.00	4.50	1.00
27-Aug		4.00	1.00	4.50	1.00
28-Aug		3.50	1.00	4.00	1.00
29-Aug		3.00	1.00	3.50	1.00
30-Aug		2.00	1.00	2.50	1.00
31-Aug	14.00	0.00		1.50	1.00
1-Sep		0.00		0.00	
2-Sep		0.00		0.00	
3-Sep		0.00		0.50	1.00
=====	=====	=====	=====	=====	=====
Total	92.00	300.50		363.25	
Avg per day	15.33	2.98		3.60	
Avg Percent per day		19.40%		23.46%	
Tot Days		101.00		101.00	
Days under water		24.00		13.00	
Days above water*		77.00		88.00	
% Days above water*		76%		87%	

*All or portion of geoduck farm above water