

DEPARTMENT OF ECOLOGY
DEC 04 2018
WATER QUALITY PROGRAM

2018

ANNUAL REPORT

**ZOSTERA JAPONICA CONTROL ON COMMERCIAL
CLAM BEDS IN WILLAPA BAY**

WIEGARDT & SONS INC.

Submitted to:

Washington Department of Ecology

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Author:

David Beugli

WGHOGA

Treatment Information

All treatments occurred within the boundaries of the provided bed corner coordinates, but all acres within these boundaries may not have been treated. Under special condition S4.B when a buffer is not required due to a cooperating land owner that parcel edge is marked with an X indicating a cooperating land owner. In some cases a parcel edge may have a cooperating land owner and a distance from edge of treatment measurement indicating that multiple landowners own land on the property edge. For additional information concerning locations treated, size in acres, treatment dates, distance from the property, parcel or lease boundary and amount of active ingredient applied to the treatment area refer to Table 1.

Table 1. Treatment information for the control of *Zostera japonica* on commercial clam beds in Willapa Bay, WA.

Treatment Dates	Bed Name	Parcel	Corner Coordinates		Distance From Parcel Boundary To Edge of Treatment Site				Cooperating Landowners				Acres	Amount of Pesticide Applied (oz)	Active Ingredient (Total lbs.)	Active Ingredient (oz./acre)
			Latitude	Longitude	North Edge	East Edge	South Edge	West Edge	North Edge	East Edge	South Edge	West Edge				
5/28/2018	TL67	13112255067	46.5916	-124.0282	>35'	>50m	>50m	>50m	X	X	X		19.6	156.8	1.23	0.97
			46.5919	-124.0261												
			46.5929	-124.0247												
			46.5922	-124.0236												
			46.5899	-124.0226												
			46.5903	-124.0269												
5/29/2018	TL67	13112255067	46.5935	-124.0290	>35'	>50m	>50m	>50m	X	X	X		9.2	73.6	0.58	0.97
			46.5934	-124.0274												
			46.5941	-124.0262												
			46.5928	-124.0252												
			46.5921	-124.0261												
			46.5917	-124.0281												
5/30/2018	TL67	13112255067	46.5901	-124.0265	>50m	>50m	>50m	>50m	X	X	X	X	34.2	273.6	2.14	0.97
			46.5901	-124.0239												
			46.5869	-124.0228												
			46.5854	-124.0229												
			46.5852	-124.0226												
			46.5843	-124.0224												

46.5843 -124.0236
 46.5943 -124.0309
 46.5954 -124.0306
 46.5952 -124.0287
 46.5946 -124.0279
 46.5946 -124.0279
 46.5939 -124.0273
 46.5934 -124.0278
 46.5936 -124.0293

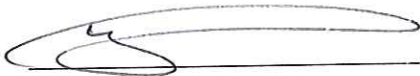
5/31/2018	E228	79005000228	46.6042	-124.0321	0'	0'	0'	0'	X	X	X	X	34.5	276	2.16	0.97
	E108	79005000108	46.6054	-124.0335												
	E232	79005000232	46.6063	-124.0330												
	E3	79005003003	46.6074	-124.0332												
	E94	79005000094	46.6093	-124.0321												
	E202	79005000202	46.6086	-124.0356												
	E79	79005001079	46.6070	-124.0347												
			46.6066	-124.0366												
			46.6056	-124.0359												
			46.6037	-124.0330												
			46.6023	-124.0340												
			46.6035	-124.0322												
			46.6017	-124.0303												
			46.6010	-124.0321												
			46.6017	-124.0330												

Monitoring Results

Under special condition S5.A monitoring is required if treatment occurs up to the 10m property line buffer. In 2018 no treatments occurred up to the 10m property line buffer therefore no additional monitoring was required.

Signature Requirements

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of those persons directly responsible for gathering information, the information in the report is, to the best of my knowledge and belief, true, accurate, and complete and will be updated as necessary. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment of knowing violations.



Signature

11/30/18

Date