Big Bend Shellfish Protection District



A committee of citizens, business and government is launching a plan to:

- Reduce water pollution
- Meet state and federal water quality standards
- Ensure that water quality standards are maintained



MASON COUNTY COMMUNITY SERVICES

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This document is also available online at: <u>http://www.co.mason.wa.us/health/environmental/water_quality/big-bend.php</u>



This project has been funded wholly or in part by the United States Environmental Protection Agency under assistance agreement PC-00J88801 to Washington Department of Health. The contents of this document do not necessarily reflect the views and policies of the Environmental Protection Agency, nor does mention of trade names or commercial products constitute endorsement or recommendation for use.

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Definitions of Acronyms

- ECY Washington State Department of Ecology
- FC Fecal coliform bacteria
- FDA U.S. Food and Drug Administration
- HC #6 Hood Canal #6 commercial shellfish harvest area
- HCCC Hood Canal Coordinating Council
- ISSC Interstate Shellfish Sanitation Conference
- LOSS Large onsite septic system
- MC Mason County
- MCD Mason Conservation District
- MCPH Mason County Public Health
- MCPW Mason County Public Works
- NEP National Estuaries Program
- NHD National Hydrography Dataset
- NSSP National Shellfish Sanitation Program
- O&M Septic system operation and maintenance
- OSS Onsite septic system
- PIC Pollution identification and correction
- **QAPP** Quality Assurance Project Plan
- RCW Revised Code of Washington
- SPD Shellfish Protection District
- WAC Washington Administrative Code
- WDOH Washington State Department of Health
- WSDOT Washington State Department of Transportation

A. Purpose of the Big Bend Shellfish Protection District

Background

In September 2015, the Washington State Department of Health (WDOH) downgraded 17 acres in the Big Bend area of Hood Canal from Approved to Conditionally Approved (Map 1). The recently downgraded areas for commercial shellfish harvest are within the greater Hood Canal #6 growing area. The downgraded sections in question are designated as G and H (Map 2). This classification change is in response to WDOH Marine Station 292, in lower Hood Canal east of Union Cove, failing the National Shellfish Sanitation Program (NSSP) water quality standards for Approved classification. The NSSP is the federal/state cooperative program recognized by the FDA and ISSC for the sanitary control of shellfish produced and sold for human consumption (ISSC, 2015).

The Conditionally Approved classification indicates that harvest of shellfish is not allowed under certain conditions. For Big Bend, 0.75 inches of rainfall in 24 hours will trigger a 5 day closure for both G and H sections. Section G is 10 acres and closes after a rain event of 0.75 inches or more of rainfall. Section H is 7 acres and closes for harvest after a rain event of 0.75 inches or more of rainfall *and* is seasonally closed from May-September due to point source pollution of the nearby marina. Section I overlaps section H and is closed from May-September due to point source pollution of the nearby marina (Map 2). WDOH currently uses the rain gauge at the Taylor Shellfish FLUPSY to measure the rainfall. The FLUPSY is located in Oakland Bay near Shelton WA; 8.3 miles southeast of Station 292 (Table 2).

There are currently 6 commercial shellfish companies affected by this restriction. When a commercial shellfish area's classification is downgraded due to poor water quality, the county authority must create a shellfish protection district (SPD) and implement a program to find and correct the pollution source(s) that are causing water quality to decline. A Shellfish Protection District is a designated region wherein nonpoint pollution threatens the water quality upon which the contamination or restoration of shellfish farming or harvesting is dependent (RCW 90.72, 2008). A Shellfish Protection District program is required to be put in place after a growing area classification is downgraded.

RCW 90.72.045 - The county legislative authority shall create a shellfish protection district and establish a shellfish protection program to address causes of pollution within one hundred eighty days after the department of health, because of water quality degradation due to ongoing nonpoint sources of pollution, has, after June 11, 1992, closed or downgraded the classification of a recreational or commercial shellfish growing area within the boundaries of the county.

Mason County Public Health developed this Shellfish Protection District, in cooperation with a stakeholder advisory group of those affected by the Big Bend downgrade, to provide leadership, planning, and put into action a shared vision of improving the water quality of Big Bend. Mason County Public Health currently works closely with WDOH and ECY to share water quality efforts including but not limited to delegating area referrals, data sharing, regulation, enforcement, and resource support. This Big Bend Shellfish Protection District plan was developed to identify, investigate, and monitor fecal contamination from adjacent shoreline and upland runoff affecting Big Bend in order to re-classify the downgraded areas to an Approved classification. The

agencies, businesses, organizations, and stakeholders listed below form the Big Bend Shellfish Protection Advisory Committee. This advisory committee adopted no by-laws and established their representation on their presence and involvement within the SPD boundary.

Stakeholders Represented in the Advisory Committee

- Citizens and businesses of Mason County
- Hood Canal Coordinating Council
- Mason Conservation District
- Mason County Community Services
- Mason County Public Health
- Mason County Shellfish Growers
- Skokomish Tribe
- Washington Sea Grant, University of Washington
- Washington State Department of Ecology
- Washington State Department of Health
- Washington State University- Mason County Extension

B. Background Information and History

Physical Description of the Big Bend SPD Watershed

The Big Bend area is located on the South Shore of Hood Canal around the mouth of Big Bend Creek in Union, WA. The marine shoreline is 1.1 miles in length. There are 3 main drainages in the SPD watershed; Big Bend Creek, Dalby Creek, and Alderbrook Ridge Creek (Map 1). The Big Bend Creek is the largest stream in the SPD and is approximately 2.7 miles in length including its major tributaries and the drainage area is about 0.94 square miles. It has an estimated base flow, or the flow of the primary source of running water in a stream during dry season (excluding all runoff), of one cubic foot per second (Aspect Consulting LLC, 2009). The creek starts in a series of wetlands with the upper reaches being mostly forested, undeveloped land. The western Big Bend SPD boundary is directly adjacent to but does not overlap with the Annas Bay Shellfish Protection District but is within the Lower Hood Canal SPD. Depths are up to 150 feet in the main channel of the Hood Canal near Big Bend (Map 2). The Conditionally Approved shellfish areas being targeted do not exceed depths of 30 feet. The boundary of the SPD is based off the hydrologic connectivity of the nearby drainages to Station 292 though investigations and work may cross the boundary line if warranted (Map 3).

Marine Water Quality Monitoring on the Hood Canal

WDOH evaluates, classifies, and monitors commercial shellfish growing areas. Hood Canal #6 is regularly monitored throughout the year although not all sampling stations are on the same monitoring schedule. Station 292 is currently monitored monthly by marine water sampling for fecal coliform bacteria along with an inventory of environmental conditions.

Fecal coliform bacteria occur naturally in the digestive tracts of warm-blooded animals, such as people, livestock, pets, and wildlife, and aid in the digestion of food. The concentration of FC in water is measured to determine the likelihood of contamination of pathogenic organisms. Environmental factors, including temperature, sunlight, salinity, and available nutrients affect surface water microorganism die-off rates. Mason County Public Health partners with WDOH to secure consolidated contracts for water quality monitoring and pollution identification and correction. WDOH works with MCPH on closures, reclassifications, and areas of concern for further monitoring, investigations, and regulation (Figure 2).

For a sampling station to meet Approved classification standards, Station 292 must have an estimated 90th percentile less than 43 FC/100 mL and a geometric mean less than 14 FC/100 mL (Figures 1 and 2). Station 292 is currently meeting water quality standards with an estimated 90th percentile at 37.2 FC/100 mL and geometric mean of 6.3 FC/100 mL (Table 2). Big Bend is considered a high risk area so an evaluation for reclassification cannot occur until on-the-ground work has been done. Implementation efforts will include bacteriological surface water monitoring, dye testing septic systems, investigating unsatisfactory OSS service reports and educating the public about on-site ownership and maintenance education and livestock management. The constructed stormwater conveyance systems, higher presence of older shoreline OSS, and the overall water quality of the Hood Canal contribute to the need for increased risk mitigation.

MCPH has been working with HCCC since 2012 on a pollution identification and correction project targeting the entire Hood Canal, including this SPD. Funding for the Hood Canal PIC work, currently in Phase III, extends to 2019. Funds from the HC PIC program may be used in this area for further pollution investigation and correction.

Growth and Development

The Big Bend area is largely developed along the marine shoreline and relatively undeveloped in the upper reaches of the watershed. There are 550 parcels in the shellfish protection district excluding road easements and state lands. The use categories are: 276 (50%) residential, 255 (46%) undeveloped/resource and 19 (4%) commercial/trade/recreational. Big Bend Creek development is mostly located within 1,000 feet of the mouth of the creek. There are 296 parcels with an approved and monitored on-site septic or sewer system. According to the MCPH O&M database there are 215 conventional systems, 34 alternative systems, 22 parcels on the Alderbrook Resort & Spa private sewer, 21 parcels on a LOSS, 3 parcels on a community system, and 1 holding tank (Map 6). Of those OSS that are tracked by MCPH, 45% are less than 20 years old and 63% are less than 30 years old (Map 4) and 65% are in compliance with the WA state OSS maintenance schedule (Map 5, Table 1).

History of Shellfish Harvesting and Water Quality in Big Bend

1992 Big Bend area is classified as Prohibited due to Alderbrook Inn waste water treatment plant outfall. Previous classification is not known.

1999 Tertiary treatment (UV disinfection) is added to the Alderbrook wastewater treatment process.

2003 The Alderbrook wastewater treatment plant outfall is extended an additional 1,600 feet out into Hood Canal. This extension creates the potential for a classification upgrade within this portion of the Hood Canal #6 growing area.

2004 Results obtained by EnviroVison during their 2004 evaluation indicate that higher bacteria loading rates occurred in Big Bend Creek during the dry-season sampling events.

2004 Shoreline Survey of the Hood Canal 6 Shellfish Growing Area recommends that prior to an upgrade in classification of this area WDOH should evaluate the sampling results and flow measurements from Big Bend Creek and create an appropriate Unclassified area around its discharge to the growing area.

2006 Big Bend Cove is upgraded to Approved.

2008 Big Bend Creek is listed as a 303-d stream.

2010-2013 The Hood Canal 303(d) Stream Monitoring and OSS validation and verification study found that Fecal Coliform results from Big Bend Creek did not meet the water quality standard.

2011-2013 Mason County performed dye tests of several of the residences adjacent to Big Bend Creek, none of which were found to be failing.

A Large On-site Septic System transport line that runs through Big Bend creek is investigated. It is found to be cracked. The transport line is approximately one mile long and connects to the Blue Heron Condo's Large On-site Septic System (LOSS). This pipe was repaired.

2015- In *Annual Growing Area Review for 2014,* Marine Station 292 fails to meet NSSP water quality standards.

May 11, 2015 - A rain event produces a significant spike in fecal coliform contributing to an estimated 90th percentile well beyond the NSSP limit.

September 9, 2015- 17 acres around Marine Station 292 downgraded from Approved to Conditionally Approved for shellfish harvest. Rainfall of 0.75 inches or more in 24 hours will trigger a 5 day closure in the Conditionally Approved area of the Hood Canal #6 growing area.

2016- In *Annual Growing Area Review for 2015,* Marine Station 292 now meets NSSP water quality standards for an Approved classification.

C. Strategy for Improving the Water Quality in the Big Bend Area

Goal: To take immediate steps to:

- Reduce water pollution
- Meet state and federal water quality standards
- Ensure that water quality standards are maintained
- 1. Identify accountable agencies, create a shellfish protection district advisory team
- 2. Identify the boundary of the Big Bend Area SPD, create a map
- 3. Create a Draft Closure Response Plan
- 4. Ordinance creating SPD adopted by Commissioners
- 5. Monitor Big Bend Area
- 6. Identify Agriculture sites- currently none known
- 7. Monitor On-site Sewage Systems
- 8. Education and Capacity Building
- 9. Identify and develop strategies to correct other non-point pollution sources
- 10. Enforcement

References

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- Mason County Public Health. *Mason County Board of Health On-Site Sewage Regulations*. Shelton: Mason County, 2009. Print.
- RCW 43.70.310. Cooperation with department of ecology. Washington State Legislature: 1987.
- RCW 70.118. On-site disposal systems. Washington State Legislature: 1977.
- RCW 70.118A. On-site disposal systems-marine recovery areas. Washington State Legislature: 2007.
- RCW 70.118B. Large on-site sewage disposal systems. Washington State Legislature: 2007.
- RCW 90.72. Shellfish Protection Districts. Washington State Legislature: 2008.
- WAC 246-272A. On-site sewage systems. Washington State Legislature: 2010.
- WAC 246-272B. Large on-site sewage system regulations. Washington State Legislature: 2011.
- WAC 246-272C. On-site sewage system tanks. Washington State Legislature: 2016.

Appendix A: Maps

Map 1- Big Bend Area



Note: The SPD boundary lines were determined based on survey information from WDOH and from mapping the drainages that have a hydrologic connection to Station 292.



Map 2 – Big Bend Bathymetry – 10 ft contour intervals

Note: Bathymetry ranges from sea level to a depth of 150 ft offshore of Station 292.



Map 3 – Big Bend Topography – 20 ft contour intervals

Note: Elevation ranges from sea level to 540 ft at the SW corner of the district.

Map 4 – Big Bend OSS Age



Note: The figure above was created from a 4/4/2017 O&M database report.

2010-	2000 -	1990 -	1980 -	1970 -	1960 -	1950 -	Prior
2019	2009	1999	1989	1979	1969	1959	to 1950
19%	26%	18%	15%	17%	4%	1%	13%



Note: The figure above was created from a 4/4/2017 O&M database report. The schedule, as well as who is authorized to inspect the OSS, is contingent on the type of system.

Map 6: Big Bend OSS Type



Note: The figure above was created from a 4/4/2017 O&M database report. Conventional OSS's are comprised of a tank and drainfield and often a pressure tank and relies on the availability of soil

for effluent treatment. Alternative OSS's are lacking sufficient soil for effluent treatment and must include alternative treatment methods. Community OSS's are individual septic tanks and a shared drainfield. Holding tanks are septic tanks with no drainfield and must be pumped as needed. Large OSS's have individual tanks and a shared drainfield that services over 3,500 gal/day. Large OSSs are regulated by WDOH. The Alderbook Resort & Spa sewer is a private but is regulated by ECY.

Appendix B: Tables and Figures

	Septic System Types										
Conventional Gravity	Conventional Pressure & Mound & Open Bottom Sand Filter		ATU, Glendon, Recirculating Gravel Filter, Sub Surf. Drip & Community Drainfield	Non- Residential & Commercial	Large OSS	Sewer					
Inspection Frequency											
Every 3 years	Annually	Annually	Annually	Annually, Testing may be required	Annually, Testing may be required	Annually, Testing may be required					
		Appro	ved Service Provid	lers							
Homeowner, Pumper, O&M Specialist	Homeowner, Pumper, O&M Specialist	Homeowner, O&M Specialist	O&M Specialist, Proprietary Device Licensee	O&M Specialist	WDOH	ECY					

Table 2: Station 292 Historical Data

WDOH Marine Water Quality Summary Growing Area: Hood Canal #6

Station: 292	Classification: Conditionally Approved	Method: SRS
Total Samples: 30	Date Range:	01/02/2014 - 01/12/2017
Range (FC/100 mL): 1.7-35	0.0	E90th (FC/100 mL): 37.2
Geometric Mean (FC/100 m	IL) 6.3	Meets Standards: Y

Sample Date	Event Type	Time	Tide	SWT	Salinity	Fecal Coliform	Rainfall	Classification
01/02/2014	Regulatory	10:33	Ebb	9	22	2	0.04	Approved
03/06/2014	Regulatory	11:02	Ebb	9	14	4.5	1.31	Approved
05/20/2014	Regulatory	11:06	Ebb	16	13	17	0	Approved
06/09/2014	Regulatory	14:31	Flood	19	20	1.7	0	Approved
07/22/2014	Regulatory	12:56	Flood	18	20	1.7	0	Approved
09/15/2014	Regulatory	09:31	Flood	15	18	2	0	Approved
11/05/2014	Regulatory	10:35	Flood	11	5	49	0.02	Approved
01/27/2015	Regulatory	09:44	Flood	10	14	1.7	0	Approved
03/26/2015	Regulatory	11:34	Ebb	11	20	1.8	0.42	Approved
05/11/2015	Regulatory	13:08	Ebb	15	11	350	0	Approved
07/21/2015	Regulatory	11:31	Ebb	19	28	2	0	Approved
08/19/2015	Regulatory	10:56	Ebb	20	15	33	0	Approved
09/02/2015	Regulatory	10:44	Ebb	14	25	23	0.32	Approved
10/22/2015	Regulatory	13:15	Flood	13	13	4.5	0.03	Conditionally Approved
11/12/2015	Regulatory	09:29	Ebb	11	8	6.8	0	Conditionally Approved
12/30/2015	Regulatory	11:03	Ebb	5	10	11	0	Conditionally Approved
01/25/2016	Regulatory	12:11	Ebb	8	5	2	0	Conditionally Approved
02/29/2016	Regulatory	10:40	Ebb	10	14	2	0.59	Conditionally Approved
03/15/2016	Regulatory	12:23	Ebb	9	15	1.7	0.54	Conditionally Approved
04/19/2016	Regulatory	14:25	Flood	17	17	1.8	0	Conditionally Approved
05/17/2016	Regulatory	11:36	Flood	17	9	23	0	Conditionally Approved
06/01/2016	Regulatory	13:17	Flood	19	18	2	0	Conditionally Approved
07/14/2016	Regulatory	11:21	Flood	18	17	33	0	Conditionally Approved
08/09/2016	Regulatory	10:43	Flood	18	25	2	0	Conditionally Approved
09/07/2016	Regulatory	12:23	Ebb	16	20	4.5	0	Conditionally Approved
10/06/2016	Regulatory	11:09	Ebb	14	20	4.5	0.05	Conditionally Approved
10/18/2016	Regulatory	10:34	Ebb	12	12	33	0.77	Conditionally Approved
11/07/2016	Regulatory	11:18	Ebb	12	3	23	0.48	Conditionally Approved
12/08/2016	Regulatory	11:04	Flood	4	7	17	0	Conditionally Approved
01/12/2017	Regulatory	13:08	Flood	7	0	4.5	0	Conditionally Approved



Figure 1: Rolling Estimated 90th Percentile of Marine Station 292 from 2005-2017

Note: The above graph shows the water quality at Station 292 compared to the NSSP Limit of 43 FC/100 mL from 2004-present. The calculation is "rolling" because it is based off of the most current, 30 samples (See Table 2). An estimated 90th percentile is used instead of an average because it is a statistical calculation that doesn't hide or is skewed by outliers while still maintaining the original population of events.



Figure 2. Guidance for Water Quality Compliance in Mason County

Appendix C: Work Plan Matrix

		Lead	Participating				Date	
Task	Subtasks	group/agency	groups/agencies	Deliverable	Progress	Due date	completed	Comments
1. Identify					Completed			
accountable								
agencies and	1.1 Identify							
create a SPD	stakeholders for			List of				
advisory team	initial meeting	MCPH		stakeholders		11/15/2015	2/1/2016	
	1.2 Set date for first				Completed			
	meeting	МСРН		Meeting date			3/3/2016	
	1.3 Agree upon		Advisory	Description of	Completed			
	representation	МСРН	committee	representation			3/3/2016	
	1.4 Create				Completed			
	membership list	MCPH		Membership list			3/3/2016	
2. Identify the								
boundaries of	3.1 Identify during as		A dutio o m /					
the Big Bend	2.1 Identity drainage	MCDU	Advisory	Devedenceree	Completed	11/15/2015	2/2/2017	Completed
SPD, create map	area	MCPH	Committee	Boundary area	Completed	11/15/2015	3/3/2017	Completed
	2.2 Take map to							
	commission for	MCDU			Completed		2/16/2016	Completed
	адорноп	INICPH		шар	Completed		2/10/2010	Completed
3. Create a Draft								
Closure Response								
Plan	3.1 Create first draft	МСРН		Draft Plan	Completed	2/16/2016		
	3.2 Review and							
	revise drafts with				On-going			
	Advisory Committee		Advisory		at SPD			
	Meeting	MCPH	Committee		meetings			
	3.3 Bring draft to							
	vote, approve final		Advisory					
	version	MCPH	Committee			5/1/2017		
	3.4 Take final							
	version to							
	Commissioners	MCPH						

Task	Subtasks	Lead group/agency	Participating groups/agencies	Deliverable	Progress	Due date	Date completed	Comments
4. Ordinance	Subtasks	Broup/ ageney	8100p3/08cilcles		11081000			
creating SPD	Take draft ordinance							
adopted by	to commissioners						Passed	
Commissioners	for approval	МСРН			Completed	12/1/2015	2/9/16	
			1					
								WDOH will notify
	5.1 WDOH will							MCPH when sample
5. Monitor Big	collect marine							results are greater
Bend	samples monthly	WDOH		Data set	Ongoing	10/30/2017		than 100 FC/ 100 mL
	5.2 Mason County							
	will sample Big							Funding from this
	Bend, Dalby and							project will be
	Alderbrook Ridge							released after SPD
	Creeks in							plan is approved.
	coordination with							Includes bracket
	WDOH marine							sampling, rainfall
	sampling during dry				Starting			events, and peak use
	season	MCPH	WDOH	Data set	May 2017	10/30/2017		sampling
								Will use 2016 data for
	5.3 Mason County							prioritizing monitoring
	will sample							and collect a
	bulkhead and				Starting			minimum of 3 samples
	shoreline seeps	МСРН		Data set	May 2017	10/30/2017		per site for dry season
	5.4 WDOH assess							
	the feasibility of							
	installing a Hood							
	Canal based rain			Feasibility				
	gauge	WDOH		Report		10/30/2017		
6. Identify								
	6.1 Financing to			Number plans				
referral to MCD	MCD for			implemented				
for correction	conservation plans	МСРН	мср	with funding		10/30/2017		

		Lead	Participating				Date	
Task	Subtasks	group/agency	groups/agencies	Deliverable	Progress	Due date	completed	Comments
				a) Number of				
				farm plans and				
				conservation				
				plans				
				implemented				
				through				
				referrals				Conservation plans
								information can be
				b) Number of				shared. Farm plans
	6.2 Reporting	MCD		BMP installed		10/30/2017		are confidential
	6.3 Post correction							
	sampling after							
	installed BMPs	МСРН		Data set		10/30/2017		
				Data set of				
				number of				
				parcels with				
				presence and				
				type of				
				agricultural				
	6.4 Farm inventory	МСРН	MCD	activity		10/30/2017		
		•			• •	•		·

						Mailing can include
						O&M reminders,
						educational materials
						or events and will
7. Monitor						prioritize OSS with out
Individual On-						of date/no service and
site sewage			Number of	Summer		shoreline and stream
systems	7.1 Mailings	MCPH	mailings	2017	10/1/2017	parcels
						MCPH will offer a
						\$200 rebate for O&M
						or pumping and a
						second \$200 for
			Number of	Summer		installing risers or
	7.2 Incentives	MCPH	rebates used	2017	10/1/2017	filters

		Lead	Participating				Date	
Task	Subtasks	group/agency	groups/agencies	Deliverable	Progress	Due Date	completed	Comments
	7.3 Create current							
	(less than 2 years							
	old) evaluations			a) Number of				
	/surveys of all			parcel				Identifying: system
	shoreline and Big			Evaluations				uses, land use, OSS
	Bend Creek OSS							age, compliance,
	parcels in SPD and			b) Number of	Summer			presence of sani-cans,
	dye tests as needed	MCPH		dye tests	2017	10/1/2017		etc.
				Number of				
				after-the-fact				
				as-built	Summer			
	7.4 As-built creation	MCPH		submitted	2017	10/1/2017		
	7.5 Post correction				Summer			
	sampling	MCPH		Data set	2017	10/1/2017		
		1		1	1		1	
	MCPH WIII							OR Malassa
	participate in 2			Number				O&IVI classes,
	educational events			Number of				snoreline living
	In the SPD. Sea			events MCPH,				classes, educational
	Grant and WSU will			Sea Grant, and				booths, etc. Sea Grant
0.54	participate as their	MCDU		WSU		10/20/2017		and WSU schedule not
8. Education	schedule allows	МСРН	Sea Grant/WSU	participated in		10/30/2017		available at this time
				a) Number of				
				non-point				
				pollution issues				
	9.1 MCPH will			referred to				
	coordinate with			MCPW and				
9. Identify other	Mason County			WSDOT				
non-point water	, Public Works and							
quality	WA DOT on			a) Report on				
contamination	stormwater			stormwater				
sources. Develop	improvement			efforts by				
strategies to	projects and	MCPH/MCPW		, MCPW and				
correct	historical data	/WSDOT		WSDOT		10/30/2017		

		Lead	Participating				Date	
Task	Subtasks	group/agency	groups/agencies	Deliverable	Progress	Due date	completed	Comments
	9.2 MCPH will offer			Number of pet				
	up to 10 pet waste			waste stations				Offer will extend to
	stations to SPD	МСРН		installed		10/30/2017		businesses, HOA, etc.
	9.3 MCPH will							Sea Grant will provide
	inventory wildlife							MCPH with seal and
	sighted	МСРН	Sea Grant			10/30/2017		bird inventories

				a) Number of		
				ECY		
				enforcement		
				cases		
				b)Number of		
				houses posted		MCPH will enforce on-
	10.1 Onsite and			for non-		site regulations and
	Non-point pollution			occupancy by		ECY will enforce non-
10. Enforcement	enforcement	МСРН	ECY	МСРН	10/30/2017	point source pollution
				Number of		
				enforcement		
	10.2 LOSS			cases		
	enforcement	WDOH				
				Number of		
				enforcement		
	10.3 Sewer			cases		
	enforcement	ECY				