



DEPARTMENT OF
ECOLOGY
State of Washington

Water Quality Program

Permit Submittal Electronic Certification

Permittee: OAK HARBOR CITY

Permit Number: WAR045554 Site Address: 865 SE BARRINGTON DR
Oak Harbor, WA 98277

Submittal Name: MS4 Annual Report Phase II Western

Version: 1 Due Date: 3/31/2022

Questionnaire

Number	Permit Section	Question	Answer
1	S5.A	Attach a copy of any annexations, incorporations or boundary changes resulting in an increase or decrease in the Permittee's geographic area of permit coverage during the reporting period per S9.D.6.	Not Applicable
2	S5.A	Attach updated annual Stormwater Management Program Plan (SWMP Plan). (S5.A.2)	Oak Harbor SWMP Plan_2_02232022092420
3	S5.A	Implemented an ongoing program to gather, track, and maintain information per S5.A.3, including costs or estimated costs of implementing the SWMP.	Yes
4	S5.A.5.b	Coordinated among departments within the jurisdiction to eliminate barriers to permit compliance. (S5.A.5.b)	Yes
5	S5.C.1.	Have you convened an interdisciplinary team to inform and assist in the development, progress, and influence of the comprehensive stormwater planning program? (S.5.c.1). August 1, 2020	Yes
15	S5.C.1.c	Continue to design and implement local development-related codes, rules, standards, or other enforceable documents to minimize impervious surfaces, native vegetation loss, and stormwater runoff, where feasible? See S5.C.1.c.i. (Required annually)	Yes
16	S5.C.1.c	From the assessment described in S5.C.1.c.i (a), did you identify any administrative or regulatory barriers to implementation of LID Principles or LID BMPs? (Required annually)	Yes
16a	S5.C.1.c	If yes, describe the barrier(s) and the measures taken to address them. (S5.C.1.c.i(a))	q16a_16a_02082022090351
17	S5.C.1.d	Developed a watershed inventory as outlined in S5.C.1.d.i? (Submitted by March 31, 2022)	Yes
17a	S5.C.1.d	Attach watershed inventory as described in S5.C.1.d.i.	Basin map Assess Receiving Wate_17a_03142022112252
18	S5.C.1.d	Developed a receiving water prioritization method and process as described in S.5.C.1.d.ii(a)-(c)? (Required by June 30, 2022.)	Not Applicable

20	S5.C.2	Did you choose to adopt one or more elements of a regional program? (S5.C.2)	No
21	S5.C.2	Attach a description of general awareness efforts conducted, including your target audiences and subject areas, per S5.C.2.a.i.	Oak Harbor Automotive Paint S_21_02082022083118
23	S5.C.2	Developed a behavior change campaign that is tailored to the community in accordance with S5.C.2.a.ii(c)? (Required no later than February 1, 2021)	Yes
23a	S5.C.2	Attach the strategy and schedule developed in accordance with S5.C.2.a.ii(c).	Informing the Public employees_23a_02082 022080257
24	S5.C.2	Began implementing strategy outlined in S.5.C.2.a.ii(c) (S5.C.2.a.ii(d) – Required by April 1, 2021)	Yes
26	S5.C.2	Promoted stewardship opportunities (or partnered with others) to encourage resident participation in activities such as those described in S5.C.2.a.iii.	Yes
26a	S5.C.2	Attach a list of stewardship opportunities provided.	Stewardship Opportunities_26a_020 82022082004
27	S5.C.3.	Describe in Comments field the opportunities created for the public, including overburdened communities, to participate in the decision-making processes involving the development, implementation, and updates of the Permittee's SWMP and the SMAP. (S5.C.3.a)	The city has held counsel workshops and presented at counsel meeting. we created a dedicated email for the public to send their comments an questions or concerns. This is posted on the city website
28	S5.C.3.	Posted the updated SWMP Plan and latest annual report on your website no later than May 31. (S5.C.3.b)	Yes
28a	S5.C.3.	List the website address in Comments field.	http://www.oakharbor.org/userfile/stormdrain
29	S5.C.4.	Maintained a map of the MS4 including the requirements listed in S5.C.4.a.i-vii?	Yes
30	S5.C.4.	Started mapping outfall size and material in accordance with S5.C.4.b.i? (Required no later than January 1, 2020)	Yes
30a	S5.C.4.	Attach a spreadsheet that lists the known outfalls' size and material(s).	Outfalls updated with new 2022_30a_0208202208 2817
31	S5.C.4.	Completed mapping connections to private storm sewers in accordance with S5.C.4.b.ii? (Required no later than August 1, 2023)	Not Applicable
32	S5.C.4.	Developed an electronic format for map, with fully described mapping standards in accordance with S5.C.4.c? (Required no later than August 1, 2021)	Yes
33	S5.C.5	Informed public employees, businesses, and the general public of hazards associated with illicit discharges and improper disposal of waste? (S5.C.5.b)	Yes

33a	S5.C.5	Actions taken to inform public employees, businesses, and the general public of hazards associated with illicit discharges and improper disposal of waste.	The City of Oak Harbor reaches out to employees and the public in a number of ways to provide education about preventing and dealing with Illicit Discharges. City employees undergo training in the Spills and Skills Non-Emergency HazMat response, Municipal Storm Water Pollution Prevention, and MS4 Rain Check training. We provide a list of rules and expectations about our FOG and Illicit Discharge Programs. We meet with business and restaurant owners and staff, providing orientations and handouts on best management practices, outdoor cleaning and washdown procedures, use of the city's car wash kits, and proper management of waste oil/grease recycle containers. We provide information to the public through the city's Facebook and Channel 10 TV station with an Illicit Discharge Detection and Elimination video. During 2021 we had our summer hire do Storm Drain Stenciling. Due to Covid-19 we did not have any groups doing stenciling. 3 fundraiser carwashes in 2021.
34	S5.C.5	Implemented an ordinance or other regulatory mechanism to effectively prohibit non-stormwater, illicit discharges as described in S5.C.5.c.	Yes
35	S5.C.5	Implemented procedures for conducting illicit discharge investigations in accordance with S5.C.5.d.i.	Yes
35a	S5.C.5	Cite field screening methodology in Comments field.	Illicit Connection and Illicit Discharge Field Screening and Source Tracing Guidance Manual

36	S5.C.5	Percentage of MS4 coverage area screened in the reporting year per S5.C.5.d.i. (Required to screen 12% on average each year.)	60
36a	S5.C.5	City field screening techniques used to determine percent of MS4 screened.	City employees do measure downs to get the sediment depth. Inspect structure of catch basin including grate. Inspect for illicit connections/discharges. Data is collected for each catch basin inspection for the year.
37	S5.C.5	Percentage of total MS4 screened from permit effective date through the end of the reporting year. (S5.C.5.d.i.)	100
38	S5.C.5	Describe how you publicized a hotline telephone number for public reporting of spills and other illicit discharges in the Comments field. (S5.C.5.d.ii)	The Hotline is on the City of Oak Harbor web page 360-279-4500
39	S5.C.5	Implemented an ongoing illicit discharge training program for all municipal field staff per S5.C.5.d.iii.	Yes
40	S5.C.5	Implemented an ongoing program to characterize, trace, and eliminate illicit discharges into the MS4 per S5.C.5.e.	Yes
41	S5.C.5	Municipal illicit discharge detection staff are trained to conduct illicit discharge detection and elimination activities as described in S5.C.5.f.	Yes
42	S5.C.5	Attach a report with data describing the actions taken to characterize, trace, and eliminate each illicit discharge reported to, or investigated by, the Permittee as described in S5.C.5.g. The submittal must include all of the applicable information and must follow the instructions, timelines, and format described in Appendix 12.	2022-02-07_IDDE_Investigations_42_02072022132253
43	S5.C.6.	Implemented an ordinance or other enforceable mechanism to effectively address runoff from new development, redevelopment, and construction sites per the requirements of S5.C.6.b.i-iii.	Yes
44	S5.C.6.	Revised ordinance or other enforceable mechanism to effectively address runoff from new development, redevelopment, and construction sites per the requirements of S5.C.6.b.i-iii. (Required no later than June 30, 2022)	Not Applicable
45	S5.C.6.	Number of adjustments granted to the minimum requirements in Appendix 1. (S5.C.6.b.i. and Section 5 of Appendix 1)	0
46	S5.C.6.	Number of exceptions/variances granted to the minimum requirements in Appendix 1. (S5.C.6.b.i., and Section 6 of Appendix 1)	0
47	S5.C.6.	Reviewed Stormwater Site Plans for all proposed development activities that meet the thresholds adopted pursuant to S5.C.6.b.i. (S5.C.6.c.i)	Yes

47a	S5.C.6.	Number of site plans reviewed during the reporting period.	5
48	S5.C.6.	Inspected, prior to clearing and construction, permitted development sites per S5.C.6.c.ii, that have a high potential for sediment transport as determined through plan review based on definitions and requirements in Appendix 7 – Determining Construction Site Sediment Damage Potential?	Yes
48a	S5.C.6.	If no, inspected, prior to clearing and construction, all construction sites meeting the minimum thresholds (S5.C.6.c.ii)?	Yes
49	S5.C.6.	Inspected permitted development sites during construction to verify proper installation and maintenance of required erosion and sediment controls per S5.C.6.c.iii.	Yes
49a	S5.C.6.	Number of construction sites inspected per S5.C.6.c.iii.	10
49b	S5.C.6.	Inspected stormwater treatment and flow control BMPs/facilities and catch basins in new residential developments every 6 months per S5.C.6.c.iv?	Yes
50	S5.C.6.	Inspected all permitted development sites upon completion of construction and prior to final approval or occupancy to ensure proper installation of permanent stormwater facilities. (S5.C.6.c.v)	Yes
51	S5.C.6.	Verified a maintenance plan is completed and responsibility for maintenance is assigned for projects prior to final approval and occupancy being granted. (S5.C.6.c.v)	Yes
52	S5.C.6.	Number of enforcement actions taken during the reporting period (based on construction phase inspections at new development and redevelopment projects). (S5.C.6.c.ii-iv) (S5.C.7.c.viii)	0
53	S5.C.6.	Achieved at least 80% of scheduled construction-related inspections. (S5.C.6.c.vi)	Yes
54	S5.C.6.	Made Ecology's Notice of Intent for Construction Activity and Notice of Intent for Industrial Activity available to representatives of proposed new development and redevelopment? (S5.C.6.d)	Yes
55	S5.C.6.	All staff whose primary job duties are implementing the program to control stormwater runoff from new development, redevelopment, and construction sites including permitting, plan review, construction site inspections, and enforcement are trained to conduct these activities? (S5.C.6.e)	Yes
56	S5.C.7.	Implemented maintenance standards that are as protective, or more protective, of facility function than those specified in the Stormwater Management Manual for Western Washington or a Phase I program approved by Ecology per S5.C.7.a.?	Yes

57	S5.C.7.	Updated maintenance standards specified in Stormwater Management Manual for Western Washington per S5.C.7.a? (Required no later than June 30, 2022)	Not Applicable
58	S5.C.7.	Applied a maintenance standard for a facility or facilities which do not have maintenance standards specified in the Stormwater Management Manual for Western Washington? If so, note in the Comments field what kinds of facilities are covered by this alternative standard. (S5.C.7.a)	No
59	S5.C.7.	Verified that maintenance was performed per the schedule in S5.C.7.a.ii when an inspection identified an exceedance of the maintenance standard.	Yes
59a	S5.C.7.	Attach documentation of maintenance time frame exceedances that were beyond the Permittee's control.	Not Applicable
60	S5.C.7.	Implemented an ordinance or other enforceable mechanisms to verify long-term operation and maintenance of stormwater treatment and flow control BMPs/facilities regulated by the permittee per (S5.C.7.b.i (a))?	Yes
61	S5.C.7.	Annually inspected stormwater treatment and flow control BMPs/facilities regulated by the Permittee per S5.C.7.b.i(b)	Yes
61a	S5.C.7.	If using reduced inspection frequency for the first time during this permit cycle, attach documentation per S5.C.7.b.i (b)	Not Applicable
62	S5.C.7.	Achieved at least 80% of scheduled inspections to verify adequate long-term O&M. (S5.C.7.b.ii)	Yes
63	S5.C.7.	Annually inspected all municipally owned or operated permanent stormwater treatment and flow control BMPs/facilities. (S5.C.7.c.i)	Yes
63a	S5.C.7.	Number of known municipally owned or operated stormwater treatment and flow control BMPs/facilities. (S5.C.7.c.i)	29
63b	S5.C.7.	Number of facilities inspected during the reporting period.	29
63c	S5.C.7.	Number of facilities for which maintenance was performed during the reporting period.	15
64	S5.C.7.	If using reduced inspection frequency for the first time during this permit cycle, attach documentation per S5.C.7.c.i.	Not Applicable
65	S5.C.7.	Conducted spot checks and inspections (if necessary) of potentially damaged stormwater facilities after major storms as per S5.C.7.c.ii.	Yes
66	S5.C.7.	Inspected municipally owned or operated catch basins and inlets every two years or used an alternative approach? Cleaned as needed? (S.5.C.7.c.iii)	Yes
66a	S5.C.7.	Number of known catch basins?	3293
66b	S5.C.7.	Number of catch basins inspected during the reporting period?	1844
66c	S5.C.7.	Number of catch basins cleaned during the reporting period?	322

67	S5.C.7.	Attach documentation of alternative catch basin cleaning approach, if used. (S5.C.7.c.iii.(a)-(c))	Not Applicable
68	S5.C.7.	Implemented practices, policies and procedures to reduce stormwater impacts associated with runoff from all lands owned or maintained by the Permittee, and road maintenance activities under the functional control of the Permittee. (S5.C.7.d)	Yes
69	S5.C.7.	Documented practices, policies, and procedures to reduce stormwater impacts associated with runoff from all lands owned or maintained by the Permittee, and road maintenance activities under the functional control of the Permittee. (S5.C.7.d – Required by December 31, 2022)	Not Applicable
70	S5.C.7.	Implemented an ongoing training program for Permittee employees whose primary construction, operations or maintenance job functions may impact stormwater quality. (S5.C.7.e)	Yes
71	S5.C.7.	Implemented a Stormwater Pollution Prevention Plan (SWPPP) for all heavy equipment maintenance or storage yards, and material storage facilities owned or operated by the Permittee in areas subject to this Permit that are not required to have coverage under an NPDES permit that covers stormwater discharges associated with the activity. (S5.C.7.f)	Yes
72	S5.C.7.	Updated, if needed, SWPPPs according to S5.C.7.f no later than December 31, 2022.	Not Applicable
73	S5.C.8	Adopted ordinance(s), or other enforceable documents, requiring the application of source control BMPs for pollutant generating sources associated with existing land uses and activities per S.5.C.8.b.i. (Required by August 1, 2022)	Not Applicable
74	S5.C.8	Established an inventory per S5.C.8.b.ii. (Required by August 1, 2022.)	Not Applicable
75	S5.C.8	Implemented an inspection program S5.C.8.b.iii (Required by January 1, 2023).	Not Applicable
76	S5.C.8	Implemented a progressive enforcement policy per S5.C.8.b.iv (Required by January 1, 2023).	Not Applicable
77	S5.C.8	Attach a summary of actions taken to implement the source control program per S5.C.8.b.iii and S5.C.8.b.iv.	Not Applicable
78	S5.C.8	Attach a list of inspections, per S5.C.8.b.iii, organized by the business category, noting the amount of times each business was inspected, and if enforcement actions were taken.	Not Applicable
79	S5.C.8	Implemented an ongoing source control training program per S5.C.8.b.v?	Yes
80	S7	Complied with the Total Maximum Daily Load (TMDL)-specific requirements identified in Appendix 2. (S7.A)	Not Applicable
81	S7	For TMDLs listed in Appendix 2: Attach a summary of relevant SWMP and Appendix 2 activities to address the applicable TMDL parameter(s). (S7.A)	Not Applicable

82	S8	Submitted payment for cost-sharing for Stormwater Action Monitoring (SAM) status and trends monitoring no later than December 1, 2019 (S8.A.1); and no later than August 15 of each subsequent year? (S8.A.2.a.)	No
84	S8	Submitted payment for cost-sharing for SAM effectiveness and source identification studies no later than December 1, 2019 (S8.B.1); and no later than August 15 of each subsequent year (S8.B.2.a or S8.B.2.c)?	Yes
86	S8	If conducting stormwater discharge monitoring in accordance with S8.C.1, submitted a QAPP to Ecology no later than February 1, 2020? (S8.C.1.b and Appendix 9)	Not Applicable
87	S8	If conducting stormwater discharge monitoring in accordance with S8.C.1, attach a data and analysis report per S8.C.1. and Appendix 9. (Due annually beginning March 31, 2021.)	Not Applicable
88	G3	Notified Ecology in accordance with G3 of any discharge into or from the Permittees MS4 which could constitute a threat to human health, welfare or the environment. (G3)	Yes
89	G3	Took appropriate action to correct or minimize the threat to human health, welfare, and/or the environment per G3.A.	Yes
90	Compliance with standards	Notified Ecology within 30 days of becoming aware that a discharge from the Permittee's MS4 caused or contributed to a known or likely violation of water quality standards in the receiving water. (S4.F.1)	Yes
91	Compliance with standards	If requested, submitted an Adaptive Management Response report in accordance with S4.F.3.a.	Not Applicable
92	Compliance with standards	Attach a summary of the status of implementation of any actions taken pursuant to S4.F.3 and the status of any monitoring, assessment, or evaluation efforts conducted during the reporting period. (S4.F.3.d)	Not Applicable
93	G20	Notified Ecology of the failure to comply with the permit terms and conditions within 30 days of becoming aware of the non-compliance. (G20)	Not Applicable
94	G20	Number of non-compliance notifications (G20) provided in reporting year. List permit conditions described in non-compliance notification(s) in Comments field.	Not Applicable

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 gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Blaine Oborn

3/15/2022 11:26:50 AM

Signature

Date

Annual Report

Number	Permit Section	Question
1	S5.A	<p>Attach a copy of any annexations, incorporations or boundary changes resulting in an increase or decrease in the Permittee's geographic area of permit coverage during the reporting period per S9.D.6.</p> <p>Not Applicable</p>
2	S5.A	<p>Attach updated annual Stormwater Management Program Plan (SWMP Plan). (S5.A.2)</p> <p>Oak Harbor SWMP Plan_2_02232022092420</p>
3	S5.A	<p>Implemented an ongoing program to gather, track, and maintain information per S5.A.3, including costs or estimated costs of implementing the SWMP.</p> <p>Yes</p>
4	S5.A.5.b	<p>Coordinated among departments within the jurisdiction to eliminate barriers to permit compliance. (S5.A.5.b)</p> <p>Yes</p>
5	S5.C.1.	<p>Have you convened an interdisciplinary team to inform and assist in the development, progress, and influence of the comprehensive stormwater planning program? (S.5.c.1). August 1, 2020</p> <p>Yes</p>
15	S5.C.1.c	<p>Continue to design and implement local development-related codes, rules, standards, or other enforceable documents to minimize impervious surfaces, native vegetation loss, and stormwater runoff, where feasible? See S5.C.1.c.i. (Required annually)</p> <p>Yes</p>
16	S5.C.1.c	<p>From the assessment described in S5.C.1.c.i(a), did you identify any administrative or regulatory barriers to implementation of LID Principles or LID BMPs? (Required annually)</p> <p>Yes</p>
16a	S5.C.1.c	<p>If yes, describe the barrier(s) and the measures taken to address them. (S5.C.1.c.i(a))</p> <p>q16a_16a_02082022090351</p>
17	S5.C.1.d	<p>Developed a watershed inventory as outlined in S5.C.1.d.i? (Submitted by March 31, 2022)</p> <p>Yes</p>
17a	S5.C.1.d	<p>Attach watershed inventory as described in S5.C.1.d.i.</p> <p>Basin map Assess Receiving Wate_17a_03142022112252</p>

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18	S5.C.1.d	Developed a receiving water prioritization method and process as described in S.5.C.1.d.ii(a)-(c)? (Required by June 30, 2022.) Not Applicable
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48	S5.C.6.	Inspected, prior to clearing and construction, permitted development sites per S5.C.6.c.ii, that have a high potential for sediment transport as determined through plan review based on definitions and requirements in Appendix 7 – Determining Construction Site Sediment Damage Potential? Yes
48a	S5.C.6.	If no, inspected, prior to clearing and construction, all construction sites meeting the minimum thresholds (S5.C.6.c.ii)? Yes
49	S5.C.6.	Inspected permitted development sites during construction to verify proper installation and maintenance of required erosion and sediment controls per S5.C.6.c.iii. Yes
49a	S5.C.6.	Number of construction sites inspected per S5.C.6.c.iii. 10
49b	S5.C.6.	Inspected stormwater treatment and flow control BMPs/facilities and catch basins in new residential developments every 6 months per S5.C.6.c.iv? Yes
50	S5.C.6.	Inspected all permitted development sites upon completion of construction and prior to final approval or occupancy to ensure proper installation of permanent stormwater facilities. (S5.C.6.c.v) Yes
51	S5.C.6.	Verified a maintenance plan is completed and responsibility for maintenance is assigned for projects prior to final approval and occupancy being granted. (S5.C.6.c.v) Yes
52	S5.C.6.	Number of enforcement actions taken during the reporting period (based on construction phase inspections at new development and redevelopment projects). (S5.C.6.c.ii-iv)(S5.C.7.c.viii) 0
53	S5.C.6.	Achieved at least 80% of scheduled construction-related inspections. (S5.C.6.c.vi) Yes
54	S5.C.6.	Made Ecology's Notice of Intent for Construction Activity and Notice of Intent for Industrial Activity available to representatives of proposed new development and redevelopment? (S5.C.6.d) Yes

Number	Permit Section	Question
55	S5.C.6.	All staff whose primary job duties are implementing the program to control stormwater runoff from new development, redevelopment, and construction sites including permitting, plan review, construction site inspections, and enforcement are trained to conduct these activities? (S5.C.6.e) Yes
56	S5.C.7.	Implemented maintenance standards that are as protective, or more protective, of facility function than those specified in the Stormwater Management Manual for Western Washington or a Phase I program approved by Ecology per S5.C.7.a.? Yes
57	S5.C.7.	Updated maintenance standards specified in Stormwater Management Manual for Western Washington per S5.C.7.a? (Required no later than June 30, 2022) Not Applicable
58	S5.C.7.	Applied a maintenance standard for a facility or facilities which do not have maintenance standards specified in the Stormwater Management Manual for Western Washington? If so, note in the Comments field what kinds of facilities are covered by this alternative standard. (S5.C.7.a) No
59	S5.C.7.	Verified that maintenance was performed per the schedule in S5.C.7.a.ii when an inspection identified an exceedance of the maintenance standard. Yes
59a	S5.C.7.	Attach documentation of maintenance time frame exceedances that were beyond the Permittee's control. Not Applicable
60	S5.C.7.	Implemented an ordinance or other enforceable mechanisms to verify long-term operation and maintenance of stormwater treatment and flow control BMPs/facilities regulated by the permittee per (S5.C.7.b.i (a))? Yes
61	S5.C.7.	Annually inspected stormwater treatment and flow control BMPs/facilities regulated by the Permittee per S5.C.7.b.i.(b) Yes
61a	S5.C.7.	If using reduced inspection frequency for the first time during this permit cycle, attach documentation per S5.C.7.b.i (b) Not Applicable
62	S5.C.7.	Achieved at least 80% of scheduled inspections to verify adequate long-term O&M. (S5.C.7.b.ii) Yes
63	S5.C.7.	Annually inspected all municipally owned or operated permanent stormwater treatment and flow control BMPs/facilities. (S5.C.7.c.i) Yes

Number	Permit Section	Question
63a	SS.C.7.	Number of known municipally owned or operated stormwater treatment and flow control BMPs/facilities. (SS.C.7.c.i) 29
63b	SS.C.7.	Number of facilities inspected during the reporting period. 29
63c	SS.C.7.	Number of facilities for which maintenance was performed during the reporting period. 15
64	SS.C.7.	If using reduced inspection frequency for the first time during this permit cycle, attach documentation per SS.C.7.c.i. Not Applicable
65	SS.C.7.	Conducted spot checks and inspections (if necessary) of potentially damaged stormwater facilities after major storms as per SS.C.7.c.ii. Yes
66	SS.C.7.	Inspected municipally owned or operated catch basins and inlets every two years or used an alternative approach? Cleaned as needed? (S.S.C.7.c.iii) Yes
66a	SS.C.7.	Number of known catch basins? 3293
66b	SS.C.7.	Number of catch basins inspected during the reporting period? 1844
66c	SS.C.7.	Number of catch basins cleaned during the reporting period? 322
67	SS.C.7.	Attach documentation of alternative catch basin cleaning approach, if used. (SS.C.7.c.iii. (a)-(c)) Not Applicable
68	SS.C.7.	Implemented practices, policies and procedures to reduce stormwater impacts associated with runoff from all lands owned or maintained by the Permittee, and road maintenance activities under the functional control of the Permittee. (SS.C.7.d) Yes
69	SS.C.7.	Documented practices, policies, and procedures to reduce stormwater impacts associated with runoff from all lands owned or maintained by the Permittee, and road maintenance activities under the functional control of the Permittee. (SS.C.7.d - Required by December 31, 2022) Not Applicable

Number	Permit Section	Question
70	S5.C.7.	<p>Implemented an ongoing training program for Permittee employees whose primary construction, operations or maintenance job functions may impact stormwater quality. (S5.C.7.e)</p> <p>Yes</p>
71	S5.C.7.	<p>Implemented a Stormwater Pollution Prevention Plan (SWPPP) for all heavy equipment maintenance or storage yards, and material storage facilities owned or operated by the Permittee in areas subject to this Permit that are not required to have coverage under an NPDES permit that covers stormwater discharges associated with the activity. (S5.C.7.f)</p> <p>Yes</p>
72	S5.C.7.	<p>Updated, if needed, SWPPPs according to S5.C.7.f no later than December 31, 2022.</p> <p>Not Applicable</p>
73	S5.C.8	<p>Adopted ordinance(s), or other enforceable documents, requiring the application of source control BMPs for pollutant generating sources associated with existing land uses and activities per S.5.C.8.b.i. (Required by August 1, 2022)</p> <p>Not Applicable</p>
74	S5.C.8	<p>Established an inventory per S5.C.8.b.ii. (Required by August 1, 2022.)</p> <p>Not Applicable</p>
75	S5.C.8	<p>Implemented an inspection program S5.C.8.b.iii (Required by January 1, 2023).</p> <p>Not Applicable</p>
76	S5.C.8	<p>Implemented a progressive enforcement policy per S5.C.8.b.iv (Required by January 1, 2023).</p> <p>Not Applicable</p>
77	S5.C.8	<p>Attach a summary of actions taken to implement the source control program per S5.C.8.b.iii and S5.C.8.b.iv.</p> <p>Not Applicable</p>
78	S5.C.8	<p>Attach a list of inspections, per S5.C.8.b.iii, organized by the business category, noting the amount of times each business was inspected, and if enforcement actions were taken.</p> <p>Not Applicable</p>
79	S5.C.8	<p>Implemented an ongoing source control training program per S5.C.8.b.v?</p> <p>Yes</p>
80	S7	<p>Complied with the Total Maximum Daily Load (TMDL)-specific requirements identified in Appendix 2. (S7.A)</p> <p>Not Applicable</p>
81	S7	<p>For TMDLs listed in Appendix 2: Attach a summary of relevant SWMP and Appendix 2 activities to address the applicable TMDL parameter(s). (S7.A)</p> <p>Not Applicable</p>

Number	Permit Section	Question
82	S8	Submitted payment for cost-sharing for Stormwater Action Monitoring (SAM) status and trends monitoring no later than December 1, 2019 (S8.A.1); and no later than August 15 of each subsequent year? (S8.A.2.a.) No
84	S8	Submitted payment for cost-sharing for SAM effectiveness and source identification studies no later than December 1, 2019 (S8.B.1); and no later than August 15 of each subsequent year (S8.B.2.a or S8.B.2.c)? Yes
86	S8	If conducting stormwater discharge monitoring in accordance with S8.C.1, submitted a QAPP to Ecology no later than February 1, 2020? (S8.C.1.b and Appendix 9) Not Applicable
87	S8	If conducting stormwater discharge monitoring in accordance with S8.C.1, attach a data and analysis report per S8.C.1. and Appendix 9. (Due annually beginning March 31, 2021.) Not Applicable
88	G3	Notified Ecology in accordance with G3 of any discharge into or from the Permittees MS4 which could constitute a threat to human health, welfare or the environment. (G3) Yes
89	G3	Took appropriate action to correct or minimize the threat to human health, welfare, and/or the environment per G3.A. Yes
90	Compliance with standards	Notified Ecology within 30 days of becoming aware that a discharge from the Permittee's MS4 caused or contributed to a known or likely violation of water quality standards in the receiving water. (S4.F.1) Yes
91	Compliance with standards	If requested, submitted an Adaptive Management Response report in accordance with S4.F.3.a. Not Applicable
92	Compliance with standards	Attach a summary of the status of implementation of any actions taken pursuant to S4.F.3 and the status of any monitoring, assessment, or evaluation efforts conducted during the reporting period. (S4.F.3.d) Not Applicable
93	G20	Notified Ecology of the failure to comply with the permit terms and conditions within 30 days of becoming aware of the non-compliance. (G20) Not Applicable
94	G20	Number of non-compliance notifications (G20) provided in reporting year. List permit conditions described in non-compliance notification(s) in Comments field. Not Applicable

Attachments:

View Files Attached to Submission

Attachment	Created	File Type	Size	App Name
View WAR045554_42_02072022132253	2022-02-07 10:00	Investigations_42_02072022132253.csv	1213026	1805256 wqwebportal
View WAR045554_17a_03142022112252	Basin map Assess Receiving Water_17a_03142022112252.pdf	1227918	1805256	wqwebportal
View WAR045554_23a_02082022080257	Informing the Public employees_23a_02082022080257.docx	1213339	1805256	wqwebportal
View WAR045554_2_02232022092420	Oak Harbor SWMP Plan_2_02232022092420.docx	1220805	1805256	wqwebportal
View WAR045554_21_02082022083118	Oak Harbor Audomhive Paint_S_21_02082022083118.pdf	1213368	1805256	wqwebportal
View WAR045554_30a_02082022082817	Outfalls updated with new 2022_30a_02082022082817.xlsx	1213365	1805256	wqwebportal
View WAR045554_16a_02082022090351	q16a_16a_02082022090351.docx	1213386	1805256	wqwebportal
View WAR045554_26a_02082022082004	Stewardship Opportunities_26a_02082022082004.docx	1213351	1805256	wqwebportal

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Stewardship Opportunities:

Storm drain marking

Litter pick up / Navy Volunteers

Whidbey Coffee & K&R Farms (September Storm Water Awareness Month)

Communities nationwide are struggling with the growing concern of providing affordable housing for all segments of their population. Under the WA NPDES Phase II requirements, low impact development best management practices are the preferred method of conveying stormwater created from impervious surfaces resulting from new or re-development. A primary tenet of low impact development is to infiltrate stormwater on site as much as possible. These stormwater infiltration facilities require pre-development site investigations, engineering, design, construction, inspections and continued facility maintenance. These costs for stormwater management on an individual parcel are rolled into the market cost of the dwelling unit quickly making the unit not accessible to low-income, or below, families.

At this point in time, we have not identified substantive measures to address this issue. We are currently reviewing our land development codes and zoning requirements in the areas of density, permitted/conditional uses, and bulk and dimensional standards.

Informing the Public employees Businesses and private sector:

The City of Oak Harbor reaches out to employees and the public in a number of ways to provide education about preventing and dealing with Illicit Discharges. City employees undergo training in the Spills and Skills Non-Emergency HazMat response, Municipal Storm Water Pollution Prevention, and MS4 Rain Check training.

We provide a list of rules and expectations about our FOG and Illicit Discharge Programs. We meet with business and restaurant owners and staff, providing orientations and handouts on best management practices, outdoor cleaning and washdown procedures, use of the city's car wash kits, and proper management of waste oil/grease recycle containers.

We get information to the public through the city's Facebook and Channel 10 TV station with an Illicit Discharge Detection and Elimination video.

During 2020 we had our summer hire do Storm Drain Stenciling.

Due to Covid-19 we did not have any groups doing stenciling or fundraiser carwashes.



Automotive & Paint Shop Outreach Project

Prepared for the City of Oak Harbor, Washington



September 2021

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Introduction

This project was designed to meet the 2021 NPDES Requirement which states that:

S5.C.2 Public Education and Outreach

The SWMP shall include an education and outreach program designed to:

- Build general awareness about methods to address and reduce impacts from stormwater runoff.
- Effect behavior change to reduce or eliminate behaviors and practices that cause or contribute to adverse stormwater impacts.
- Create stewardship opportunities that encourages community engagement in addressing the impacts from stormwater runoff.

Permittees may choose to meet these requirements individually or as a member of a regional group. Regional collaboration on general awareness or behavior change programs, or both, includes Permittees developing a consistent message, determining best methods for communicating the message, and when appropriate, creating strategies to effect behavior change. If a Permittee chooses to adopt one or more elements of a regional program, the Permittee should participate in the regional group and shall implement the adopted element(s) of the regional program in the local jurisdiction.

The minimum performance measures are:

- a. Each Permittee shall implement an education and outreach program for the area served by the MS4. The program design shall be based on local water quality information and target audience characteristics to identify high priority target audiences, subject areas, and/or BMPs. Based on the target audience's demographic, the Permittee shall consider delivering its selected messages in language(s) other than English, as appropriate to the target audience.
 - i. **General awareness.** To build general awareness, Permittees shall annually select at a minimum one target audience and one subject area from either (a) or (b):
 - a. Target audiences: General public (including overburdened communities, or school age children) or businesses (including home-based, or mobile businesses). Subject areas:
 - General impacts of stormwater on surface waters, including impacts from impervious surfaces.
 - Low impact development (LID) principles and LID BMPs.
 - b. Target audience: Engineers, contractors, developers, or land use planners. Subject areas:
 - Technical standards for stormwater site and erosion control plans.
 - LID principles and LID BMP's

- Stormwater treatment and flow control BMP's/facilities
- c. Permittees shall provide subject area information to the target audience on an ongoing or strategic schedule.
- ii. **Behavior Change.** To affect behavior change, Permittees shall select, at a minimum, one target audience and one BMP.
 - a. Target Audiences: Residents, landscapers, property managers/owners, developers, school age children, or businesses (including home-based or mobile businesses).

BMPs:

- Use and storage of: pesticides, fertilizers, and/or other household chemicals.
 - Use and storage of: automotive chemicals, hazardous cleaning supplies, carwash soaps, and/or other hazardous materials.
 - Prevention of illicit discharges.
 - Yard care techniques protective of water quality.
 - Carpet cleaning.
 - Repair and maintenance BMPs for: vehicles, equipment, and/or home/buildings.
 - Pet waste management and disposal.
 - LID Principles and LID BMPs.
 - Stormwater facility maintenance, including LID facilities.
 - Dumpster and trash compactor maintenance.
 - Litter and debris prevention.
 - Sediment and erosion control.
 - (Audience specific) Source control BMPs (refer to SS.C.8).
 - (Audience specific) Locally-important, municipal stormwater-related subject area.
- b. No later than July 1, 2020, each Permittee shall conduct a new evaluation of the effectiveness of an ongoing behavior change campaign (required under SS.C.1.a.ii and SS.C.1.c of the 2013 Permit). Permittees shall document lessons learned and recommendations for which option to select from S5.C.2.a.ii.(c).

- Permittees that select option SS.C.2.a.ii.(c)3, below, may forgo this evaluation if it will not add value to the overall behavior change program.
- c. Based on the recommendation from S5.C.2.a.ii.(b), by February 1, 2021, each Permittee shall follow social marketing practices and methods, similar to community-based social marketing, and develop a campaign that is tailored to the community, including development of a program evaluation plan. Each Permittee shall:

- a. Develop a strategy and schedule to more effectively implement the existing campaign; or
- b. Develop a strategy and schedule to expand the existing campaign to a new target audience or BMPs; or
- c. Develop a strategy and schedule for a new target audience and BMP behavior change campaign.
- d. No later than April 1, 2021, begin to implement the strategy developed in S5.C.2.a.ii.(c). 6
- e. No later than March 31, 2024, evaluate and report on:
 - a. The changes in understanding and adoption of targeted behaviors resulting from the implementation of the strategy; and
 - b. Any planned or recommended changes to the campaign in order to be more effective; describe the strategies and process to achieve the results.
- f. Permittees shall use results of the evaluation to continue to direct effective methods and implementation of the ongoing behavior change program.
- iii. Stewardship. Each Permittee shall provide and advertise stewardship opportunities and/or partner with existing organizations (including non-permittees) to encourage residents to participate in activities or events planned and organized within the community, such as: stream teams, storm drain marking, volunteer monitoring, riparian plantings, and education activities.

Community Based Social Marketing was utilized to the maximum extent possible within the identified budget. Community Based Social Marketing, by definition is "to influence behavior for the greater social good." In this case, the greater good is water quality. To reach local automobile repair shops and paint stores in the Oak Harbor area, an education and outreach program was developed to increase the use of best management practices occurring in the outdoor spaces used by automotive & paint shops for disposal, cleaning and vendor activity to improve overall water quality.

Target Audience Research

The target audience was identified as: automotive & paint shop managers in Oak Harbor who are responsible for following guidelines for secondary containment.

Existing Literature

The focus groups discussed in the report were comprised of automotive & paint shop owners and employees from several locations throughout Western Washington. The report identified motivators and barriers to best management practices, messaging and how to best communicate with this audience.

Some of the key findings from this report of most interest for our project included:

General Awareness of Secondary Containment

- Most automotive and paint shops staff have tools/guidelines in place for secondary spill containment

Motivators to Follow Secondary Containment Guidelines

- Automotive & Paint Shop staff are motivated to keep the environment healthy, do the right thing and keep pests away.

The Message, Images and Products

- The message should be communicated in staff meetings
- Participants favored posters that conveyed the message quickly. Those posters had bold graphics, and minimal text that got right to the point.
- Automotive and Paint shop staff favored posters and reminder brochures in their paychecks

Who is responsible for disposing the waste?

- Staff is responsible for disposing of the waste (not an outside company)

Local Observations

The City of Oak Harbor is trying to gain an understanding of how automotive repair facilities and paint shops handle their secondary containment.

The City identified the following as the best practices that they wanted to see this project address:

- Keeping the containers and tanks closed when not in use?
- Cleaning area with a hose
- Cleaning area using a broom and dustpan instead of a hose
- Using spill kits to clean up spills, big or small, outdoors
- Notifying the manager when containers are full
- Dumping waste & filters

Survey Research

The decision to conduct a survey of local Oak Harbor automotive and paint facility management to see how they manage spills. Because the City of Oak Harbor had dedicated staff whose responsibilities included monthly visits to each facility in the City, and good relationships were already being established, it was decided that Oak Harbor Staff would conduct the survey in house, and in person using a survey tool completed by the Consultant.

The survey included questions of a quantitative nature, including yes/no answers and ratings. It was expected that Oak Harbor staff would spend approximately 10 minutes completing each survey, and the goal was to complete 10 in-person surveys.

City Staff collected 7 completed surveys from local automotive and paint managers. However, much of the data collected was delusive. This is most likely due to the fact that the survey was designed as a two-way conversation between the interviewer and the interviewee, to collect quantitative data regarding our target audience. The survey, however, was completed by a facility manager, without City Staff present.

Key Findings

Some of the questions were such that quantitative data could be extracted. The following is a summary of the key findings:

Company Spill Policies

- 85.71% keep containers and tanks closed when not in use
- 50% clean area with a hose
- 100% clean area using a broom and dustpan instead of a hose
- 100% use a spill kit to clean up spills, big or small, outdoors
- 100% notify the manager when containers are full
- 83.33% properly dump their waste and filters

Communication

- 100% reported that discussing outdoor best practices in staff meetings was a useful or very useful way to communicate to employees
- 57% reported that hanging posters, signs or stickers as daily reminders of outdoor best practices was a useful or very useful way to communicate to employees

Motivators

- The top 3 motivators to following best practices are "To keep environment healthy", "To do the right thing" and "Keep pests away".

Best Practices

- 71% reported that they have a spill kit at their shops however only 60% indicate they know how to use it.
- 100% of automotive & paint shops staff are responsible for disposing of the waste.
- 57% of automotive & paint shops clean their floors in house, and none of them reported cleaning them outdoors.
- The top 2 reasons for not cleaning up spills, which account for 55% of the total responses, are "we don't spill anything" (33%) and "don't know how" (22%).

Motivators

A difference with the findings from the 2016 Restaurant Focus Group Report, automotive and paint employees in Oak Harbor seem to be less motivated by their relationship with their boss. When asked what motivates them to follow outdoor guidelines, nearly 100% of staff rated "to keep environment healthy" and "to do the right thing" as an 8 or higher on a scale from 1 to 10. A number of employees also mentioned "keeping pests away like mice, rats and birds" as an overall motivator.

The Top 3 motivators for following best practices while completing tasks behind the automotive and paint shops were "to keep the environment healthy", "to do the right thing, and "to keep pests away." The first two motivators listed here were tied for the top spot.

What motivates YOU (or would motivate you) to follow these guidelines every time you are completing tasks outdoors? Rate each from 1 to 10, with 1 being "not motivating at all" to 10 being "very motivating".



Barriers

This survey did not look at the barriers to why people did or did not have a plan. This is the first time the City has contacted these establishments so this survey was to find out a baseline for compliance.

Communication and Messaging

When asked what policies the staff use for secondary spill containment it appears they all perform the correct duties to clean up spills as 4 of the 6 responded with 100% compliance and one with 83.33%. The interesting stat is that 100% of respondents said they use a broom and dustpan instead of a hose however 50% of respondents said they clean the area with a hose. Not sure how to interpret that discrepancy.

The Top 3 Ways to communicate best practices to automotive and paint employees are (1) Talk about them in staff meetings, with 86% providing a rating of higher than 5 and (2) hand out flyers to new employees, with 57% providing a rating of higher than 5 and (3) Hang posters, signs or stickers, with 84% providing a rating of higher than 5.

We also came up with a few ideas for tools that managers could use and want to hear what you think. Please rate each of the following ways in which your manager might communicate outdoor task guidelines to you from 1 to 10, with 1 being "not a useful way"



Printed material is the clear choice for communicating as it embodies the top 4 choices for communicating to employees.

Goals and Objectives

After reviewing the data and considering the ability to evaluate certain behaviors given the available budget, the goals for this project will be defined by best practice, as follows:

Spill Containment Reminders

Provide printed handouts that managers can hang on walls, use during team meetings and include in employee pay checks reminding people how to properly handle spills.

Spill Kits

Increase the number of automotive & paint shops in Oak Harbor who have spill kits to 100%

Marketing Strategy & Estimated Budget

Target Audience: Automotive and paint employees in Oak Harbor who are responsible for completing outdoor tasks.

Target Behavior: Increase the use of best management practices occurring in the outdoor spaces used by automotive & paint shops for disposal, cleaning and vendor activity.

BMP Poster for Mop Sink Area or Back Door

Messaging

The BMPs to be addressed should include:

- Keeping the dumpster lid closed
- Keeping the grease rendering container closed
- Using a spill kit for spills of ALL sizes
- Picking up all loose garbage
- Do not clean area with a hose

The BMPs should be visual in nature and include either (1) photos of the right and wrong way OR (2) be illustrative in nature, mimicking a comic book or video game look and feel. The poster will likely be seen as an employee passes it by quickly, without much or any time to stop and read any text, so graphics should dominate the poster.

Additional information that should be included is a clear explanation of WHY each BMP should be done. This information should focus on the link between the BMPs, runoff and the environment how the BMPs will reduce the instances of pests.

Materials

The poster should be 11"x17" in size to ensure it can be easily read. Because it will be posted near the back door of the automotive & paint shops, it should be printed on a

thick material that is resistant to mild moisture that might be found near a mop sink and or other surfaces.

Considerations

- Most managers likely will not have access to a computer during staff training

Evaluation Plan

A very important part of any social marketing campaign evaluation. In order to understand if your project has influenced a change in the target behavior, you must first collect concrete baseline data. A portion of the baseline data was collected during the research survey, and the remainder is identified below.

Prior to the distribution of any marketing materials, Oak Harbor Staff will take note of each of the following best practices during their normal, monthly inspections:

- Keeping the containers and tanks closed when not in use
- Cleaning area with a hose
- Cleaning area using a broom and dustpan instead of a hose
- Using spill kits to clean up spills, big or small, outdoors
- Notifying the manager when containers are full
- Dumping waste and filters

The worksheet to be used by City Staff to collect this information is located in Appendix A.

Plan for Implementation

1. Collect observational data from automotive & paint shops first
2. Develop and print materials per the marketing strategy
3. Distribute materials to all automotive & paint shops in Oak Harbor within a 30 day timeframe
4. Track distribution using the tracking sheet in Appendix B.
5. 60 days after all the materials have been distributed, repeat the observational survey (Appendix A) during monthly site inspections within a 30 day timeframe.
6. Evaluate the data and develop a list of recommendations for future changes to the program.

Start Initial
Observational
Survey
& Begin
Development of
Marketing
Materials



Day 30:
Complete 30-day
Observational
Survey



Evaluate Data
& Plan for
Future
Changes



Day 1:
Distribute
Marketing
Materials &
Track
Distribution



Day 60:
Complete the
60-Day
Observational
Survey



Appendix A

Oak Harbor Automotive & Paint Shop Outreach: Survey Interview Questions

Introduction:

The City of Oak Harbor is collecting information from our local automotive and paint shops to learn more about the job duties you conduct outside the shops. The information I collect today is completely confidential and will not be tied to any specific location or person after this interview, so your honesty is very much appreciated. This interview will take 5 minutes to complete.

1. _____ On a scale from 1 to 10, with 1 being "extremely unhealthy" and 10 being "very healthy", how healthy is Puget Sound?
2. Most automotive and paint shops have guidelines to follow for secondary spill containment. For each guideline, please tell me yes or no, if it is a guideline that YOU to follow at this location:
 - a) _____ Keeping the containers and tanks closed when not in use?
 - b) _____ Cleaning area with a hose
 - c) _____ Cleaning area using a broom and dustpan instead of a hose
 - d) _____ Using spill kits to clean up spills, big or small, outdoors
 - e) _____ Notifying the manager when containers are full
 - f) _____ Dumping waste & filters

3) We also came up with a few ideas for tools that managers could use and want to hear what you think. Please rate each of the following ways in which your manager might communicate outdoor task guidelines to you from 1 to 10, with 1 being "not a useful way to communicate outdoor guidelines" and 10 being a "very useful way to communicate outdoor guidelines".

- a) _____ Hang posters, signs or stickers as daily reminders.
(make note if they score this option as a 3 or higher)
- b) _____ Training videos
- c) _____ Talk about them in staff meetings
- d) _____ Hand out flyers to new employees

e) _____ Include occasional flyers with paychecks

4) What motivates YOU (or would motivate you) to follow these guidelines every time you are completing tasks outdoors? Rate each from 1 to 10, with 1 being "not motivating at all" to 10 being "very motivating".

- a) _____ To keep boss happy
- b) _____ To be recognized, like "employee of the month" or similar
- c) _____ To keep the environment healthy
- d) _____ To keep pests away like mice, rats and birds
- e) _____ To do the right thing
- f) _____ Are there other reasons you want to suggest:

5) _____ Does your location have a spill kit for outdoor spills? **Yes or No**

a) **(If yes)** Do you or your staff know how to use it?

6) Is staff responsible for cleaning the floor or does an outside company do that?

Circle One Staff OR Contractor

a) If they answer "Staff"
How is the floor cleaned?

7) Is staff responsible for disposing of the waste or does an outside company do that?

Circle One Staff OR Contractor

a) **If they answer "Staff"**
Where are the tanks/container get taken to/disposed of?

Number	Feat Code	Northing	Easting	Type	Dia
1	OUTFALL	470456.389	1194755.589	Conc	12
2	OUTFALL	473448.118	1196822.913	HDPE	42
3	OUTFALL	475030.498	1199268.188	Conc	8
5	OUTFALL	470457.3894	1194755.589	CPEP	15
30	OUTFALL	472025.978	1189053.334	Conc	8
31	OUTFALL	472025.978	1189053.334	Conc	8
32	OUTFALL	472025.978	1189053.334	Conc	8
33	OUTFALL	472025.978	1189053.334	Conc	8
34	OUTFALL	472025.978	1189053.334	Conc	8
35	OUTFALL	475545.697	1199751.675	Conc	24
38	OUTFALL	472025.978	1195310.282	Conc	36
63	OUTFALL	475638.44	1200543.797	Conc	8
64	OUTFALL	475615.134	1200755.023	Alum	8
65	OUTFALL	475562.651	1201039.201	Alum	12
66	OUTFALL	475508.129	1201219.058	Conc	8
67	OUTFALL	475316.058	1201645.431	Conc	18
68	OUTFALL	475623.097	1200139.124	Conc	12
69	OUTFALL	474967.337	1198968.442	Conc	8
70	OUTFALL	475001.198	1199112.195	Conc	8
71	OUTFALL	475087.054	1199580.005	Conc	8
72	OUTFALL	475057.479	1199425.356	Conc	8
73	OUTFALL	474215.31	1198134.157	Conc	42
74	OUTFALL	473514.974	1196836.782	Conc	42



Assess Receiving Water Conditions

NPDES Phase II Permit Requirement S5.C.1.d.i

City of Oak Harbor

General Profile

Oak Harbor is located in north central Whidbey Island in Island County, approximately 40 miles northwest of Everett. The Washington State Office of Financial Management indicates the 2020 population of the city was about 22,910 persons. Naval Air Station – Whidbey Island is adjacent to the city and is the region's largest employer. Development within the city is a combination of residential and commercial segments, with over 2,200 acres, or about 67% of the total land area, zoned for residential development.

Topography

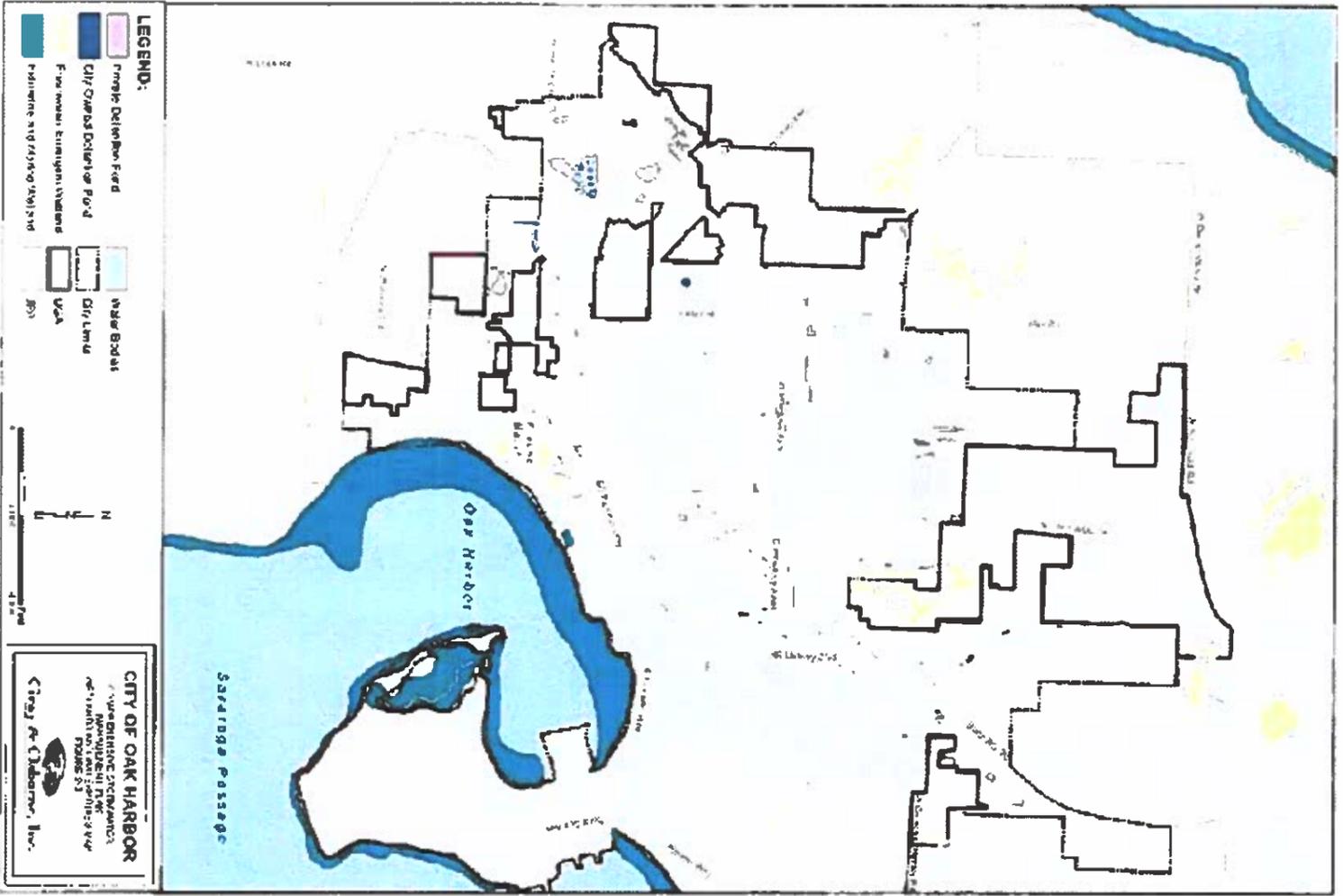
The City of Oak Harbor lies in a topographic bowl facing southeast towards Oak Harbor Bay. Portions of the city are outside this bowl and instead slope down to the west towards the Strait of Juan de Fuca. Elevations within the city range from sea level at the south end to 307 feet towards the north.

Waterways and Waterbodies

Both marine and fresh waterbodies exist within the Oak Harbor city limits as shown on the attached map. The largest fresh waterbody within the city is Loers Pond, located within the Whidbey Island Golf and Country Club golf course. Loers Pond receives surface water from the Golf Course and Waterloo Marsh basins and discharges to an unnamed stream. This unnamed stream, draining west to Swan Lake, has been added to the Department of Ecology 303(d) list due to bacteria and dissolved oxygen. Sampling locations for the unnamed stream are believed to be outside of the city limits.

Freund Marsh is a freshwater wetland located along the Oak Harbor waterfront, just west of Windjammer Park (also known as City Beach). It receives surface runoff from the city before discharging to the Bay. The marsh is classified as a 100-year floodplain by FEMA.

The primary marine waterway is Oak Harbor Bay which borders the city to the south, leading to Saratoga Passage. A portion of the Bay along Windjammer Park is listed on the Department of Ecology 303(d) list due to bacteria. The City of Oak Harbor Marina is located on the east end of the bay, adjacent to Crescent Harbor.



Water Quality

In Oak Harbor, stormwater runoff flows predominantly over residential, commercial, and other urbanized areas. As rain falls and runs off of these areas, sediments and pollutants are entrained in the runoff and transported to downstream surface waters where they may cause damage to aquatic organisms, impact typical water uses, and reduce the aesthetic value of the water body. In addition, as natural vegetated areas are converted to rooftops, streets, parking lots, and urban landscaping, there is a significant increase in the volume and rate of runoff, causing flooding out of catch basins and ditches. Tidal fluctuations play an important role in the city's stormwater management. With most drainage within the city discharging to Oak Harbor, high tides can submerge the outfalls. This reduces drainage capacity, resulting in surcharging of pipes. The decreased water quality and sediment deposition (sedimentation) can cause significant damage to aquatic organisms, including permanent habitat degradation.

Section 303(d)

The 303(d) listing for impaired waterbodies that have been established in Oak Harbor includes:

Unnamed Creek from Loer's Pond
To Swan Lake..... Category 5 for bacteria and dissolved oxygen;
Category 2 for temperature.

Oak Harbor along Windjammer/
City Beach Park..... Category 5 for bacteria.

Oak Harbor and Saratoga Passage..... Category 2 for sediment (4-methylphenol, benzoic
acid, benzyl alcohol, and phenol.

Unnamed Creek to Crescent
Harbor..... Category 2 for bacteria.

Category 5 waters are polluted waterbodies that require a TMDL or other water quality improvement (WQI) project, however, a WQI project has not been established for the unnamed creek or Oak Harbor. Category 2 waters have some evidence of a water quality problem, but not enough to require production of a WQI project.

Oak Harbor Bay

Seven of the eleven basins identified in the city drain into Oak Harbor Bay. The seven basins total slightly over 2,500 acres, or about 77% of the city. The major types of nonpoint pollution sources in the Oak Harbor area are generically related to urban development, including commercial and industrial activities and transportation-related facilities. Other important sources of nonpoint pollution may include illicit connections to the storm drain system and on-site sewage systems.

Urban development and the related construction activities of land clearing and site preparation are potential sources of stormwater pollution. Areas that have been cleared of vegetation are more prone to erosion and can significantly increase sediment loading to nearby waterbodies. In addition to soil erosion and the transport of sediment, other pollutants can be generated by construction activities. Pesticides, fertilizers, petroleum products, cleaning solvents, paints, asphalt byproducts, acids, and salts as well as solid wastes are potential sources of stormwater pollution. The pouring and finishing of concrete can also adversely affect water quality by potentially increasing pH of the water.

Stormwater problems caused by land development does not stop after construction. The volume of stormwater runoff and peak discharge rate increase as a direct result of the decrease in vegetation and increase in the amount of impervious surfaces. Higher flow rates accelerate bank erosion and scour in the receiving systems, which result in an increase in sediment deposition further downstream.

While not as prevalent as residential development, commercial development in the city may also contribute to nonpoint pollution. Potential sources of pollution from these developments include oil and grease, suspended solids and metals from the parking lots; bacterial loads and garbage from improper waste storage and disposal practices at grocery stores and restaurants; and fertilizers, pesticides, and herbicides from landscaping activities.

Based on national studies, runoff from commercial development most likely contributes metals, such as cadmium (a catalyst used in tire manufacture) and lead, to stormwater runoff. These contaminants are produced by dry/fall from vehicle emissions, vehicle wear and tear, and chemical products. Other contaminants that may be associated with the commercial establishments in the city include toxic organic compounds such as pesticides and PAHs (polycyclic aromatic hydrocarbons). VOCs (volatile organic compounds), such as solvents, may also be present in urban runoff and are typically associated with spills and improper waste disposal activities. Improper chemical storage and waste disposal practices are common sources of contaminants migrating off site from commercial and industrial establishments. The improper use of garbage dumpsters, such as exposing the contents to rain or depositing garbage on the ground rather than in the dumpster, are also potential sources of stormwater pollution.

Stormwater runoff from highways as well as city collectors and residential streets can contain elevated concentrations of metals, suspended solids, and organic compounds such as petroleum hydrocarbons. Studies have shown that pollutant loading is directly related to the amount of vehicle traffic. Also, heavy trucks and equipment tend to be larger contributors than passenger vehicles and light trucks. Major highways with high vehicle use can be significant sources of nonpoint pollutant loading. Sanding in the winter further contributes material to the drainage system. Major thoroughfares in the city include State Route 20 (West Pioneer Way and South Oak Harbor Street), and Regatta Drive.

Nonpoint pollution from domestic activities in the city consists primarily of pet waste and runoff from residential gardens and landscaping. Pet wastes are likely the most significant source of nonpoint pollution from residential activities. Runoff laden with animal wastes, fertilizers, pesticides, or herbicides can contribute to nonpoint pollution.

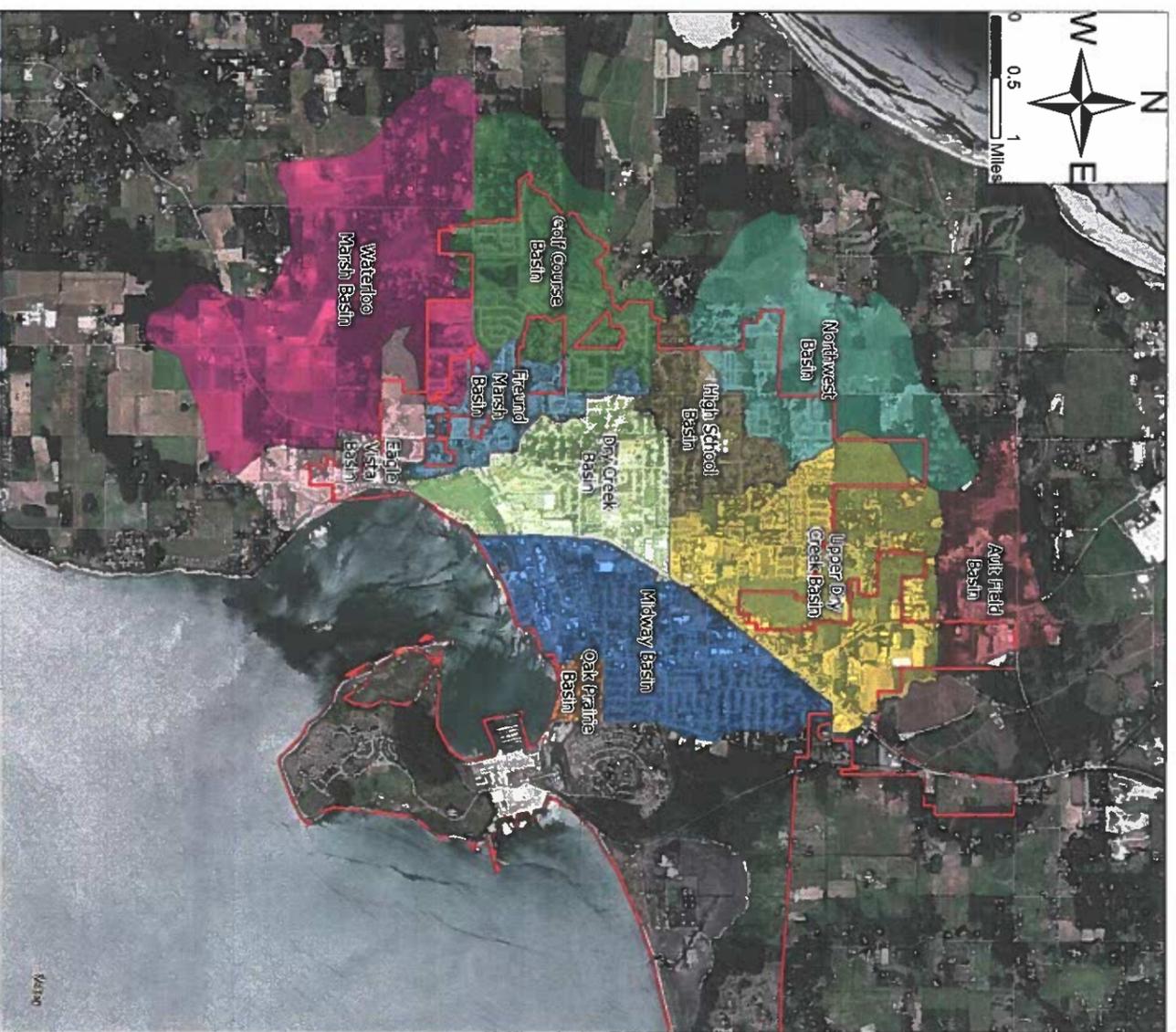
References

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BASIN ANALYSIS AND RECEIVING WATER ASSESSMENT

Oak Harbor Basin Name	Assessment Unit	Relative Conditions Summary
Upper Dry Creek	6048	Water Flow Summary: High degradation to all (storage, delivery, recharge, discharge) water flow processes. Mostly moderate high importance for all water flow processes. Restoration is the overwhelming management strategy in this assessment unit. Water Quality Summary: High degradation to phosphorus, metals, nitrogen and pathogens processes, but low degradation to sediment processes. Moderate high export potential in all water quality parameters. Sediment export and degradation management priority is protection, while phosphorus, metals, nitrogen and pathogens prescribe restoration as primary management strategy.
Midway	6048	Fish & Wildlife Habitats Summary: A sum of 3 components: (local salmonid habitats ranked 0, no freshwater lotic salmonid habitats, downstream salmonid habitats (ranked 1, lowest), and hydrogeomorphic features (ranked 5.1-5.5, 0-10 highest)) ranked 11 with 1 lowest and 20 highest. Terrestrial habitats index ranked low at 10.94-13.98 (0.00 lowest - 100.00 highest). Average of all marine shoreline components was 7-8 with 1 being the lowest and 20 highest. Maximum of freshwater components was 10 (1 lowest - 20 highest). Terrestrial open space blocks was unranked while the average of top 5 marine shoreline was 8-9 (1 lowest - 20 highest). The aquatic ecological integrity was 11-20 (0 lowest - 100 highest).
Freund Marsh	6048	
Dry Creek	6048	
High School	6048	
Waterloo Marsh	6116	Water Flow Summary: High degradation to surface and delivery processes and moderate high (recharge) to low (discharge) for an overall of high degradation. Moderate high importance in surface storage processes and low importance in recharge, discharge and delivery processes for an overall of moderate importance. Management strategy ranges from development restoration (recharge & delivery) to conservation (discharge) and restoration (surface) for an overall restoration development strategy.
Golf Course	6116	Water Quality Summary: Moderate high degradation in all water quality processes. Moderate high export potential in nitrogen, moderate in metals and pathogens and low in sediment and phosphorus. Restoration of sinks was the management strategy in all but nitrogen where restoration of source processes was proposed. Fish & Wildlife Habitats Summary: A sum of 3 components: (local salmonid habitats ranked 5, 0 lowest 10 highest, downstream salmonid habitats (ranked 14, 1 lowest 20 highest), and hydrogeomorphic features (ranked 8.1-8.5, 0-10 highest)) ranked the highest at 20. Terrestrial habitats index was 34.82-42.85 (100 highest). Average of all marine shoreline components was 8-9 (1 lowest - 20 highest). Maximum of freshwater components was 8-9 and was based on Strait of Juan de Fuca shoreline. Terrestrial open space blocks was 0.71-0.80 out of a possible 1.00, while the average of top 5 marine shoreline was 11-12 with this shoreline also on the Strait of Juan de Fuca. The aquatic ecological integrity was 21-30 (0 lowest - 100 highest).
Northwest	6115	The Northwest basin sits within Assessment Unit 6115 which extends to the Strait of Juan de Fuca. Our information does not extend the Northwest basin to the Strait. Inclusion of relative conditions for the entire Assessment Unit 6115 could be misrepresentative for the City of Oak Harbor and was not analyzed.
Ault Field	6039	The Ault Field basin represented a small portion of Assessment Unit 6039 and with only 61 acres, or only 2% within the City of Oak Harbor, was not analyzed for relative conditions.
Eagle Vista	6045	The Eagle Vista basin represented a small portion of Assessment Unit 6045. Inclusion of relative conditions for the entire Unit could be misrepresentative for the City of Oak Harbor and was not analyzed. The portion of the Eagle Vista basin within the City jurisdiction represented only 4% of the total land area.
Oak Prairie	6110	The Oak Prairie basin represented a small portion of Assessment Unit 6110. Inclusion of relative conditions for the entire Unit could be misrepresentative for the City of Oak Harbor and was not analyzed. The Oak Prairie basin represents only 2% of the total City land area.

Drainage Basins, City of Oak Harbor and Vicinity

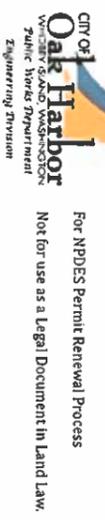


OBJECTID	Name	Total Area_Acre	Inside_City_Acre	Percent_Inside_City
1	Upper Dry Creek Basin	992,903,992	680	69
2	Golf Course Basin	707,351,99	415	59
3	Midway Basin	721,640,991	716	99
4	Freund Marsh Basin	248,740,997	185	74
5	Dry Creek Basin	507,846,008	507	100
6	Waterloo Marsh Basin	1346,060,059	80	6
7	Northwest Basin	779,213,989	196	25
8	Ault Field Basin	357,415,009	61	17
9	Eagle Vista Basin	281,114,014	118	42
10	High School Basin	279,252,014	261	93
11	Oak Prairie Basin	56,097,401	56	100

Legend

- City of Oak Harbor, City Limits
- Drainage Basins**
- Upper Dry Creek Basin
- Golf Course Basin
- Midway Basin
- Freund Marsh Basin
- Dry Creek Basin
- Waterloo Marsh Basin
- Northwest Basin
- Ault Field Basin
- Upper Dry Creek Basin
- Golf Course Basin
- High School Basin
- Dry Creek Basin
- Oak Prairie Basin
- Waterloo Marsh Basin

Map Prepared on March 3rd 2022 by:
 Jonathan B.K. Pollock, Engineering Technician
 jpollock@oakharbor.org | (360) 279-4520



For NPDES Permit Renewal Process
 Not for use as a Legal Document in Land Law.

BASIN ANALYSIS AND RECEIVING WATER ASSESSMENT							
Oak Harbor Basin Name	Total Acres	Acres Within Oak Harbor	Percent of Total	Acres Outside Oak Harbor	Percent of Total	Receiving Water	Assessment Unit ¹
Upper Dry Creek	993	680	68%	313	32%	This basin lies west of SR 20 near the north end of the city. It includes mostly open space, industrial, and commercial land uses. Drainage flows towards SR 20 and south toward Dry Creek Basin, eventually reaching Oak Harbor.	6048
Midway	722	716	99%	6	1%	This basin includes most of the area south and east of SR 20 and borders NAS Whidbey Seaplane Base to the east. It is heavily developed and drains through an extensive conveyance system to multiple outfalls into Oak Harbor.	
Freund Marsh	249	185	74%	64	26%	This basin lies in the southern end of the city and includes mostly low density residential land uses. Drainage travels southeast towards Freund Marsh.	
Dry Creek	508	508	100%	0	0%	This is the most heavily developed basin, containing the central core of the city as well as Freund Marsh to the south. Drainage is piped through an extensive conveyance system to Freund Marsh with a large outfall directly to Oak Harbor.	
High School	279	261	94%	18	6%	Located north of Dry Creek Basin and separated from the Northwest Basin by a ridge. This basin drains south, contributing to flows in the Dry Creek Basin.	
Waterloo Marsh	1,346	80	6%	1,266	94%	Mostly outside of the city limits to the south and within the Joint Planning Area, this basin includes the Waterloo Marsh which directs drainage to Loers Pond to the north and into the Golf Course Basin, eventually reaching the Strait of Juan de Fuca.	6116
Golf Course	707	415	59%	292	41%	This basin covers the southwest portion of the city. It encompasses the Whidbey Golf and Country Club and primarily has residential and open space land uses. This basin includes Loers Pond as well as other smaller detention ponds which drain west towards Swan Lake and the Strait of Juan de Fuca.	
Northwest	779	196	25%	583	75%	This basin is minimally developed, and contains a large wetland and numerous drainage sinks. Stormwater runoff infiltrates into the groundwater, evaporates, floods, or reaches the wetland and follows an unnamed drainage course west, eventually reaching the Strait of Juan de Fuca.	6115
Ault Field	357	61	17%	296	83%	This basin is located at the northernmost edge of the city and urban growth area. It has mostly industrial land uses and drains to the north, eventually reaching the Strait of Juan de Fuca.	6039
Eagle Vista	281	118	42%	163	58%	This basin is located at the south end of the city limits above the cliffs overlooking Oak Harbor from the west. Drainage flows east over these unstable bluffs and into Oak Harbor. In the summer of 2018, a significant HDPE outfall was installed over the bluff to convey water from a collection point on SW Scenic Heights Street to the beach.	6045
Oak Prairie	56	56	100%	0	0%	In the southeast corner of the city, Oak Prairie is the smallest basin and includes multiple outfalls discharging directly into Oak Harbor.	6110
¹ Assessment unit numbers from the Puget Sound Watershed Characterization Project.							

Inspection ID	Date Opened	Time	Date Closed	Source	Inspect How was incident discovered?
IDDE1022	9/17/2021	12:00am			ERTS Referral
IDDE1021	12/8/2021	12:00am			Direct Report To Your Staff
IDDE1020	11/1/2021	12:00am			Direct Report To Your Staff
IDDE1019	12/30/2021	12:00am			Direct Report To Your Staff
IDDE1018	9/28/2021	12:00am			Staff Referral
IDDE1017	9/28/2021	12:00am			Staff Referral
IDDE1016	9/21/2021	12:00am			Direct Report To Your Staff
IDDE1015	3/15/2021	12:00am			Direct Report To Your Staff, ERTS Referral, Business Inspection, O&M/Facility Inspection, Source Control Inspection
IDDE1014	3/30/2021	12:00am			Staff Referral
IDDE1013	2/10/2021	12:00am			Direct Report To Your Staff, Staff Referral, ERTS Referral, O&M/Facility Inspection, Source Control Inspection
IDDE1012	3/10/2021	12:00am			Staff Referral
IDDE1011	2/10/2021	1:45pm			Staff Referral, ERTS Referral, Source Control Inspection
IDDE1010	12/8/2021	10:30am			Staff Referral
IDDE1009	12/7/2021	1:15am			Staff Referral
IDDE1008	10/21/2021	12:00am			Other: Cb inspection , Staff Referral
IDDE1007	8/31/2021	12:00am			Source Control Inspection
IDDE1006	8/17/2021	12:00am			Direct Report To Your Staff
IDDE1005	6/18/2021	12:00am			Pollution Hotline (phone, web, app)
IDDE1004	5/10/2021	8:30am			Direct Report To Your Staff
IDDE1003	5/10/2021	12:00am			Pollution Hotline (phone, web, app)
IDDE1000	1/25/2021	8:50pm		SW1004	O&M/Facility Inspection

City	State	Zip	Country	Intersectio	Intersectio	Latitude	Longitude	Source Nar	Source Phc	Source Em:	Hotspot	Status	Inspector N	Inspector P	Inspector E	Updated	Created
Oak Harbor	WA	98277	US			48.28212	-122.659				no	Investigatic	Kindle Sulli 360-279-45	ksullivan@	#####	#####	#####
Oak Harbor	WA	98277	US			48.30753	-122.653				no	Investigatic	Kindle Sulli 360-279-45	ksullivan@	#####	#####	#####
Oak Harbor	WA	98277	US	Barrington	Kaleeton Lj	48.28698	-122.67	Unknown			no	Investigatic	Kindle Sulli 360-279-45	ksullivan@	#####	#####	#####
Oak Harbor	WA	98277	US			48.2845	-122.663	Unknown			no	Investigatic	Kindle Sulli 360-279-45	ksullivan@	#####	#####	#####
Oak Harbor	WA	98277	US	SR 20	Pioneer W:	48.28699	-122.658	Unknown			no	Investigatic	Kindle Sulli 360-279-45	ksullivan@	#####	#####	#####
Oak Harbor	WA	98277	US	Barrington	Erie Street	48.28945	-122.663	City of Oak Harbor	Garbage Truck		no	Investigatic	Kindle Sulli 360-279-45	ksullivan@	#####	#####	#####
Oak Harbor	WA	98277	US			48.29047	-122.669	Hank Maintenance			no	Investigatic	Kindle Sulli 360-279-45	ksullivan@	#####	#####	#####
Oak Harbor	WA	98277	US			48.31655	-122.649	Reggie White			no	Investigatic	Kindle Sulli 360-279-45	ksullivan@	#####	#####	#####
Oak Harbor	WA	98277	US	SR 20	NE 16th	48.31123	-122.638	Us Navy			no	Investigatic	Kindle Sulli 360-279-45	ksullivan@	#####	#####	#####
Oak Harbor	WA	98277	US			48.31655	-122.649	Reggie White			yes	Investigatic	Kindle Sulli 360-279-45	ksullivan@	#####	#####	#####
Oak Harbor	WA	98277	US			48.28943	-122.666	Jake Marriot / Evergreen	Constructuc		no	Investigatic	Kindle Sulli 360-279-45	ksullivan@	#####	#####	#####
Oak Harbor	WA	98277	US			48.2887	-122.66	Teriyaki Time			no	Investigatic	Kindle Sulli 360-279-45	ksullivan@	#####	#####	#####
Oak Harbor	WA	98277	US			48.30679	-122.671	John Collin 206-483-8222			no	Investigatic	Kindle Sulli 360-279-45	ksullivan@	#####	#####	#####
Oak Harbor	WA	98277	US			48.30753	-122.653	Spring Hollow ERTZ # 711198			no	Investigatic	Kindle Sulli 360-279-45	ksullivan@	#####	#####	#####
Oak Harbor	WA	98277	US			48.30777	-122.643				yes	Investigatic	Kindle Sulli 360-279-45	ksullivan@	#####	#####	#####
Oak Harbor	WA	98277	US			48.28828	-122.653	JASON OSTRAND			yes	Investigatic	Kindle Sulli 360-279-45	ksullivan@	#####	#####	#####
Oak Harbor	WA	98277	US			48.30783	-122.666	Parkwood 360-632-1551			yes	Investigatic	Kindle Sulli 360-279-45	ksullivan@	#####	#####	#####
Oak harbor	WA	98277	US	Sr 20	24th ave	48.27906	-122.669	Will Jennings			no	Investigatic	Kindle Sulli 360-279-45	ksullivan@	#####	#####	#####
Oak Harbor	WA	98277	US			48.29814	-122.654				no	Investigatic	Kindle Sulli 360-279-45	ksullivan@	#####	#####	#####
Oak Harbor	WA	98277	US			48.29682	-122.656	Bloch Prop 425-830-51	Darren@bl		no	Investigatic	Kindle Sulli 360-279-45	ksullivan@	#####	#####	#####
Oak Harbor	WA	98277	US			48.33303	-122.627				no	Investigatic	Kindle Sulli 360-279-45	ksullivan@	#####	#####	#####