

# Washington Department of Ecology

## Electronic Submission Cover Letter



**WQWebSubmittal - Submittal Submission Id: 1800463 - 3/4/2022 11:13:56 AM**

Company Name	Signer Name	System Name
City of Mukilteo	Matt Nienhuis	WQWebPortal

### Attachments:

Document Name Or Description	Document Name
Submitted Copy of Record for City of Mukilteo	Copy of Record CityofMukilteo Friday March 4 2022
WAR045532_2_01312022084141	2022 Final SWMP Plan_2_01312022084141
WAR045532_23a_02082022162107	BehaviorChangeStrategyandSched_23a_02082022162107
WAR045532_21_02042022103719	GeneralAwarenessActivities2021_21_02042022103719
	MemoOn No Answers to 2021 Questions
WAR045532_17a_02082022161532	Mukilteo SMAP Watershed Invent_17a_02082022161532
WAR045532_30a_01312022090102	NPDES_Annual_List_of_Outfalls__30a_01312022090102
WAR045532_26a_02042022103719	StewardshipOpportunities2021_26a_02042022103719
WAR045532-2021-ImportedIDDEs_03042022075759	WAR045532-2021-ImportedIDDEs_03042022075759

### Attestation Agreed to at Signing:

I certify I personally signed and submitted to the Department of Ecology an Electronic Signature Agreement. I understand that use of my electronic signature account/password to submit this information is equal to my written signature. I have read and followed all the rules of use in my Electronic Signature Agreement. I believe no one but me has had access to my password and other account information.

I further certify: I had the opportunity to review the content or meaning of the submittal before signing it; and to the best of my knowledge and belief, the information submitted is true, accurate, and complete. I intend to submit this information as part of the implementation, oversight, and enforcement of a federal environmental program. I am aware there are significant penalties for submitting false information, including possible fines and imprisonment.



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DEPARTMENT OF  
**ECOLOGY**  
State of Washington

## Water Quality Program

### Permit Submittal Electronic Certification

**Permittee:** MUKILTEO CITY

**Permit Number:** WAR045532

**Site Address:** 11930 Cyrus Way  
Mukilteo, WA 98275

**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)	2022 Final SWMP Plan_2_01312022084141
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)	No
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.	Mukilteo SMAP Watershed Invent_17a_02082022161532
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)	Yes

20a	S5.C.2	If yes, list the elements, and the regional program.	Participated in Puget Sound Starts Here social media campaign. Elements included pet waste cleanup, proper car washing to prevent runoff and car maintenance to reduce leaks. Participated in regional Dumpster Outreach pilot program. Elements included promoting the best management practice of keeping dumpster lids closed at local businesses. The field portion of the Dumpster Outreach pilot program was completed in 2021.
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.	GeneralAwarenessActivities2021_21_02042022103719
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).	BehaviorChangeStrategyandSched_23a_02082022162107 Comment: The behavior change campaign was part of a regional program, made up of a loose consortium of municipalities. The City of Mukilteo established its own internal timeline, but operated within the bigger picture of the regional Dumpster Outreach program. The City provided input on the pilot program, shared data with the regional campaign, and contributed funds for marketing materials. Attachments to this report show the strategy that was developed through the regional campaign. These were presented as powerpoints during group meetings. The attachment also includes the schedule that Mukilteo followed to implement the regional strategy. A final report was being developed at the time of writing of the 2021 Annual Report. We anticipate to include that effort next year.
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.	StewardshipOpportunities2021_26a_02042022103719
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 annual SWMP was posted as a news item and on the City's website, announcing opportunities for comment. The website provides translation services. Scoping with consultants for a public participation process for both the SMAP and the Source Control Program was begun in late 2021.

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.	<a href="https://mukilteowa.gov/departments/public-works/surface-water/stewardship/npdes/">https://mukilteowa.gov/departments/public-works/surface-water/stewardship/npdes/</a>
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).	NPDES_Annual_List_of_Outfalls_30a_01312022090102
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.	As part of our standard response to illicit discharge, we educate the person / business about the negative impacts of improper disposal on aquatic systems. We inform our employees through both in house, online, and in person trainings on hazards associated with illicit discharge and improper disposal of waste. This is started soon after an employee starts and through our stormwater training program.
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 and Manual, May 2020 Revision

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.)	48
36a	S5.C.5	Cite field screening techniques used to determine percent of MS4 screened.	We use catch basin inspections - and screened 48% of the catch basin inspection inventory
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.)	97
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)	It is posted on the city web page. It is also included on take-away materials for outreach events.
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.	WAR045532-2021-ImportedIDDEs_03042022075759
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.	24

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)?	No
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.	3
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)	2
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)	Yes
58a	S5.C.7.	Note what kinds of facilities are covered by this alternative standard. (S5.C.7.a)	MAINTENANCE STANDARDS THAT ARE NOT COVERED IN THE SWMMWW FOR WHICH WE HAVE A STANDARD INCLUDE DITCHES AND IN-STREAM WEIRS
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)	169
63b	S5.C.7.	Number of facilities inspected during the reporting period.	169
63c	S5.C.7.	Number of facilities for which maintenance was performed during the reporting period.	31
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?	4137

66b	S5.C.7.	Number of catch basins inspected during the reporting period?	2001
66c	S5.C.7.	Number of catch basins cleaned during the reporting period?	485
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.	Yes
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?	Not Applicable

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.)	Yes
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)	Not Applicable
89	G3	Took appropriate action to correct or minimize the threat to human health, welfare, and/or the environment per G3.A.	Not Applicable
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)	Not Applicable
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.*

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Matt Nienhuis

3/4/2022 11:13:54 AM

Signature

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Date



STORMWATER MANAGEMENT PROGRAM (SWMP) PLAN

JANUARY 2022 – DECEMBER 2022

# Stormwater

Rain flows across hard surfaces.  
It picks up our pollution.  
The pollution flows to the Sound.



IT'S ALL  
CONNECTED  
& flows to the Sound

Prepared in fulfillment of NPDES Permit requirements

By

The City of Mukilteo  
11930 Cyrus Way  
Mukilteo, WA 98275

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## **Executive Summary**

### **The NPDES Program**

The National Pollutant Discharge Elimination System (NPDES) is a program created under the Federal Clean Water Act. In Washington State, authority over the program is given to Washington State Department of Ecology (Ecology). The intent of the NPDES Program is to protect and restore water quality in waters of the State so that they can support beneficial uses, such as fishing and swimming. Some governmental and private entities must obtain an NPDES Permit, and comply with conditions set forth in the Permit, before discharging stormwater or wastewater to waters regulated by Federal and State governments. The City of Mukilteo is such an entity.

### **The Western Washington Phase II Municipal Stormwater Permit**

In 1999, the United States Environmental Protection Agency (EPA) created an NPDES Phase II Permit. This Permit requires operators of small Municipal Separate Storm Sewer Systems (MS4s) to obtain coverage, as defined in U.S. Census Bureau urbanized areas. The City of Mukilteo operates an MS4 under this definition.

The City of Mukilteo has been operating under a Phase II Permit since 2007. On August 1, 2019, Ecology issued a new Phase II Permit. The City is operating under this Permit through July 31, 2024. The Permit allows municipalities to discharge stormwater from municipal systems into waters of the state, as long as they implement programs to reduce pollutants in stormwater to the maximum extent practicable (MEP), apply all known and reasonable technologies (AKART) to address stormwater pollutants, and protect receiving waters from degradation.

The full text of the 2019 Permit can be viewed at Department of Ecology's website:  
<https://ecology.wa.gov/Regulations-Permits/Permits-certifications/Stormwater-general-permits/Municipal-stormwater-general-permits>

### **Purpose of the Annual Stormwater Management Program Plan**

Condition S5. of the Permit requires that all Permittees have a Stormwater Management Program (SWMP). "A SWMP is a set of actions comprising the components listed in S5 and any additional actions necessary, to meet the requirements of applicable TMDLs..." (S5.A. of the Permit). The City's SWMP must be implemented City-wide, must include an ongoing program for gathering, tracking, maintaining, and using information to inform the SWMP. The SWMP also requires internal and external coordination.

The City must prepare a written SWMP Plan that outlines the City's planned activities for the upcoming year for programs in S5.C. of the Permit. The City prepares and posts the draft SWMP Plan and solicits public feedback related to those planned activities. The most current SWMP Plans are posted on the City's website. The City submits an Annual Report on Permit-related requirements to the Washington State Department of Ecology by March 31st of each year as required by the Permit. The Annual Report is available online, or interested parties can request a copy by calling (425) 263-8000.

## **2022 NPDES Permit Coverage and Planned Activities**

This SWMP Plan covers planned activities for the period January 1, 2022, through December 31, 2022, and follows the organization of 2019 Permit Section 5.C as follows:

- S.5.C.1 – Stormwater Planning
- S.5.C.2 – Public Education and Outreach
- S.5.C.3 – Public Involvement and Participation
- S.5.C.4 – MS4 Mapping and Documentation
- S.5.C.5 – Illicit Discharge Detection and Elimination
- S.5.C.6 – Control Runoff from New Development, Redevelopment and Construction Sites
- S.5.C.7 – Operations and Maintenance
- S.5.C.8 – Source Control Program for Existing Development

Information on Section 7, Compliance with Total Maximum Daily Load Requirements, and Section 8, Monitoring, are also included in this document.

This draft SWMP Plan will be available for comment through February 1, 2022. The final document is required by March 31, 2022, and will be available on the City's website at <https://mukilteowa.gov/departments/public-works/surface-water/stewardship/npdes/>.

The City's *Comprehensive Surface Water Management Plan*, last updated in 2015, contains policies and goals for the surface water utility on a broader range of topics. The full plan can be found on the City's website at: <http://mukilteowa.gov/departments/public-works/surface-water/programs-and-planning>.

## **Permit Condition S5.C.1 – Stormwater Planning**

### **Overview**

The goal of the Stormwater Planning effort is to build on past City efforts to protect receiving water quality and beneficial uses under anticipated future developed conditions. The city will continue this effort with a multi-disciplinary team and coordination of many of the City's long-range land use plans used to accommodate growth or transportation.

### **Stormwater Planning 2022 Planned Activities**

The City will continue to work with its interdisciplinary team (convened in 2019) to continue to work on items related to Stormwater Planning. Specific activities include:

1. Responding to the series of Stormwater Planning Annual Report questions, on or before March 31, 2022.
2. Assessing, identifying, and addressing any barriers to implementation of LID Principles or LID BMPs.
3. Continue work on the Stormwater Management Action Plan. Key work product will include completion of the *Receiving Water Assessment* and the *Receiving Water Prioritization*. It is also anticipated that the *Stormwater Management Action Plan* for at least one high priority catchment will be complete by the end of 2022.

## **Permit Condition S5.C.2 – Public Education and Outreach**

### **Overview**

There are two goals of the education and outreach program. The first is to build general awareness related to the impacts from polluted stormwater. The second is to affect individual behavior change related to specific practices that contribute pollution to our streams and the Puget Sound. Many of these programs may continue to experience impacts due COVID-19 social distancing and other state mandated requirements, but it is anticipated the city will meet Permit requirements.

### **Education and Outreach 2022 Planned Activities**

The City of Mukilteo's education and outreach program has several elements to help residents and business owners understand stormwater pollution as a significant water quality concern.

#### **Regional Collaboration**

The City is involved in education programs locally and regionally. The City tailors existing programs to fit our residents' and stormwater needs. Examples of continuing partnerships include: Snohomish County Health District, Snohomish County Surface Water Management, Snohomish Conservation District, and neighboring municipalities through the Stormwater Outreach for Municipalities (STORM) group.

The City's Dumpster Outreach Behavior Change Program, Youth Stormwater and Water Quality Awareness classes are specific programs that are the direct result of regional collaboration (see below for program details).

#### **Stormwater Outreach for Municipalities (STORM) Long-Term Funding Committee**

STORM is a regional work group comprised of municipal Permittees from jurisdictions of all sizes. The STORM work group is led by a steering committee and has several work groups for separate stormwater related outreach topics. STORM meets quarterly, where information is shared across jurisdictions. Mukilteo leverages the expertise that STORM provides through use of educational materials and partnership opportunities in regional campaigns, and contributes content, when available.

Mukilteo is a member of the Long-Term Funding Committee (LTF Committee), one subcommittee of STORM. Over many years, a STORM Coordinator position has been temporarily funded with grant monies or other non-stable funding sources. The STORM Coordinator oversees meeting agendas, trainings, and spearheads regional outreach campaigns.

City staff will continue to assist the Long-Term Funding Committee to secure stable funding for a Coordinator position in 2022. The City does not have the capacity to replace the value of the STORM Coordinator, so support of a long term funding mechanism is a benefit to the City's stormwater utility.

#### **General Awareness**

The Permit provides lists of target audiences and subject areas from which Permittees can choose for their General Awareness programs. The components of the City's General Awareness program are below, with the target audiences and subject areas from the lists:

##### **Stormwater Informational Banners**

Target Audience: General Public

Subject Area: General impacts of stormwater on surface waters, including impacts from impervious surfaces.

In 2022, the City will continue to employ banners at various locations across the City with key best practice messaging, including car wash practices, pet waste disposal practices, stewardship opportunities, and clearing leaf and debris from storm drains.

##### **Stormwater Messaging on City Vehicles**

In 2022, the City will work to design and install stormwater messaging on large Public Works vehicles, such as the Spill Trailer.

##### **Youth Stormwater and Water Quality Awareness**

Target Audience: Elementary School-Aged Children

Subject Area: General impacts of polluted rain water on surface waters, including impacts from impervious surfaces.

The City will continue its partnership with the Snohomish Conservation District (SCD), through the SCDs Sound Education programs, to provide education at the elementary school level. Topics include lessons titled “Four Drops of Rain”, “It’s not Fido’s Fault!”, “Macro Mayhem”, “Salmon of Puget Sound”, “Water Quality Monitoring with Test Kits”, and “Water Quality Monitoring with Live Benthic Macros”. These classes may be held in an in person, or online format.

#### *Pet Waste Station Messaging*

Target Audience: General Public

Subject Area: General impacts of polluted rain water on surface waters, including impacts from impervious surfaces.

The Stormwater Utility will continue to provide mutt mitts (dog waste bags) with stormwater messaging at City parks and other City-managed pet waste stations.

### **Behavior Change**

#### *Dumpster Outreach*

The City will continue to implement the strategy based on the pilot program in 2021, with the goal to reach the target audience for better dumpster management.

### **Stewardship**

#### *Drain Marking Program*

The City will continue to offer its Drain Marking program as a stewardship opportunity for interested groups. The City has kits available that include all of the necessary tools and equipment to apply drain markers within the City.

#### *Private Stormwater System and BMP Maintenance*

Most of the private stormwater facilities within the City do not fall under the Permit’s requirements for the City to inspect for maintenance, due to the age of the infrastructure. As opportunity arises, City staff work with private property homeowners and Homeowner’s Associations to educate them on private stormwater BMPs, their maintenance requirements, and the importance of these facilities on the landscape.

#### *Adopt A Drain Program*

The City will explore participation in the Adopt A Drain program in 2022. The program allows citizens adopt catch basins within the City for regular clearing of leaves, trash and debris from the drain surface. The program provides necessary instructions to conduct this work in a safe manner. Adopters can track their collective progress online.

## **Permit Condition S5.C.3 – Public Involvement and Participation**

### **Overview**

The City's goal for public involvement and participation is to actively engage its residents, business owners, property owners, and contractors in preservation and protection of clean water. The City achieves this through advisory councils, public hearings, watershed committees, volunteer opportunities, and other avenues for participation as activities arise.

### **Public Involvement and Participation 2022 Planned Activities**

#### **SWMP Plan Update**

Public involvement is sought during development of the SWMP Plan. Residents are encouraged to review and comment on the SWMP Plan by visiting the City of Mukilteo's website at <http://mukilteowa.gov/departments/public-works/surface-water/stewardship/npdes/>.

The final 2022 SWMP Plan and the 2021 Annual Report will be posted on the City's website no later than May 31, 2022.

#### **Annual Utility Update to Council**

City staff plans to provide a stormwater utility update to City Council in the first quarter of 2021. The update includes reports on Permit compliance, as well as other goals and performance measures for the Utility. This update is advertised on the [Council Agenda](#).

#### **Stormwater Management Action Plan (Permit Condition S5.C.1)**

The Stormwater Management Action Plan will include two opportunities for public outreach and involvement in 2022. A courtesy request for feedback will be distributed to interested parties to weigh in on the prioritization process in early 2022. As the final SMAP is being developed, the city will again solicit feedback on projects that should be considered for the high priority watershed.

#### **Source Control Program Development (Permit Conditions S5.C.8)**

The City will continue development of its Source Control Program in 2022. Staff will send early correspondence to potentially affected businesses on two separate occasions. The first will be to notify businesses of the upcoming program. The second will be to provide an opportunity for their input. Staff will continue to present the program requirements to several city work groups. In addition, a formal Notice and Hearing process will occur in early 2<sup>nd</sup> quarter 2022 for adoption of the Ordinance.

## **Permit Condition S5.C.4 – MS4 Mapping and Documentation**

### **Overview**

The goal of the mapping program is to provide continuous improvements and updates to the City's map of the stormwater network. Accurate mapping helps the utility understand flows in the

system, trace illicit connections and spills, and identify discharge locations to natural water bodies.

## **Mapping and Documentation 2022 Planned Activities**

### Maintain maps of the City's stormwater drainage system (MS4)

- Continue collecting pipe material and pipe size information for all known outfalls.
- Maintain and update the City's MS4 maps, including points of significance, such as outfalls, waters of the state, stormwater facilities, and all known connections.
- Continue efforts for complete mapping of all known connections from the MS4 to a privately owned stormwater system (scheduled to be complete August 1, 2023).
- Maintain the [City's Stormwater Network Viewer](#), available online.

## **Permit Condition S5.C.5 – Illicit Discharge Detection and Elimination**

### **Overview**

The goal of the illicit discharge detection and elimination (IDDE) program is to prevent, detect, characterize trace and eliminate illicit discharges and connections found in the MS4. This goal is achieved through inspection, education, regulation, and enforcement.

## **Illicit Discharge Detection and Elimination 2022 Planned Activities**

The City will continue to implement its ongoing program to detect and identify non-stormwater discharges and will begin to implement and follow the *Illicit Connection and Illicit Discharge Field Screening and Source Tracing Guidance Manual* (Herrera, May 2020 Revision).

Other program elements include:

- Maintain City's Spill Hotline: (425) 263-8088
- Report applicable discharges to the Department of Ecology
- Continue to implement the City's internal training program
- Continue to screen the City's MS4 as part of the annual catch basin and facility inspections
- Follow up on any potential illicit connections discovered as part of the city's CCTV pipe inspection program

## **Permit Condition S5.C.6 – Control Runoff from New Development, Redevelopment and Construction Sites**

### **Overview**

Permit Section 5.C.6 requires that Mukilteo develop, implement and enforce a program to reduce pollutants in stormwater runoff from new development, redevelopment, and construction site

activities. Controlling runoff from developed properties reduces peak flow flooding, pollutant loading, and other negative freshwater impacts.

## **Control Runoff from New Development 2022 Planned Activities**

- Continue to apply Mukilteo Municipal Code (MMC) Section 13.12.160 to address runoff from new development, redevelopment, and construction site projects. The City requires development projects to meet the Minimum Requirements, thresholds, and definitions of the Appendix 1 of the Permit. This is administered through the 2014 *Stormwater Management Manual for Western Washington* (Ecology Manual) and the City of Mukilteo's 2019 Amendment of the 2017 Development Standards (DS) for all permitted new development and redevelopment projects.
- Adoption of the 2019 *Stormwater Management Manual for Western Washington* in early 2022. Adoption of the 2019 Ecology Manual is also required as part of the Source Control ordinance (see below). The city will subsequently revise the Mukilteo Development Standards to reflect reference changes to the 2019 Ecology Manual.
- Continue to implement a permitting process that requires site plan review, inspections and enforcement mechanisms for noncompliance.
- Update training for staff involved in controlling stormwater runoff in development.
- The City will continue to apply Ecology's maintenance standards in Chapter 4 of Volume V of the Ecology Manual.

## **Permit Condition S5.C.7 – Operations and Maintenance**

### **Overview**

The City's goal is to implement and document a program that ensures maintenance activities to prevent or reduce pollutant runoff to the maximum extent practicable, including stormwater facility maintenance and other non-stormwater related maintenance activities.

## **Municipal Operations and Maintenance 2022 Planned Activities**

- The City will follow the maintenance standards of Chapter 4.6 of Volume V of the Ecology Manual, and the *Green Stormwater Operations and Maintenance Manual* (Seattle Public Utilities, 2009) using the timeframes for maintenance found in the Permit.

### Maintenance of Stormwater Facilities:

- The city has adopted the maintenance standards of the Ecology Manual.
- Continue annual facility and BMP inspections for private stormwater treatment and flow control BMPs/facilities permitted after July 29, 2009 (the date the City began permitting projects in accordance with the 2007 Permit).
- Inspect all municipally owned or operated stormwater facilities. The City has approximately 145 stormwater treatment and flow-control facilities. The City Public Works operations staff will inspect each of these in 2022 to identify maintenance needs.

- Public Works operations staff routinely perform spot checks of potentially damaged permanent treatment and flow-control facilities, other than catch basins, after major storm events.
- Public Works operations staff will inspect 50% of the City's owned or operated catch basins and address any maintenance deficiencies.
- Staff will continue to follow their practices, policies and procedures to reduce stormwater impacts associated with runoff from all municipal lands and associated with municipal operations. Documentation of these practices will be complete by the June 30, 2022 deadline.
- The City Public Works facility will continue to operate according to the Surface Water Pollution Prevention Plan (SWPPP). Operations staff inspect the facility quarterly, in accordance with the SWPPP.

## **Permit Condition S5.C.8 – Source Control for Existing Development**

### **Overview**

Source Control for Existing Development is a new Permit requirement. The goal of the source control program for existing development is to provide technical assistance to business that have the potential to pollute. This assistance will be aimed at implementing operational BMPs or treatment facilities, where warranted.

### **Source Control for Existing Development 2022 Planned Activities**

The City anticipates completion of the required business inventory list and adoption of the required ordinance for progressive enforcement in early 2022. Pending budget appropriation, the city will hire a new surface water staff to accommodate the additional work load imposed by this program. We anticipate the new hire in late 2022.

## **Permit Condition S7 – Total Maximum Daily Load (TMDL)**

The City of Mukilteo has no load allocation under any TMDL. Therefore, no activities are planned under this element.

## **Permit Condition S8 – Monitoring and Assessment**

### **Overview**

The goals of monitoring and assessment under the Permit are to: 1) study small streams and marine nearshore areas to track long term trends in water quality and 2) study the effectiveness of the elements required under the SWMP.

Section 8 of the Permit covers Status and Trends Monitoring, Effectiveness Studies, and Source Identification and Diagnostic Monitoring (SIDM). At the beginning of the Permit cycle, the City was given the option to either 1) conduct its own qualifying Status and Trends Monitoring and/or Effectiveness Studies, or 2) opt in to a regional collective fund. This fund is used to complete studies of regional significance. In the case of the SIDM, the City is required to pay into a collective fund. The city chose to opt in to the regional collective fund.

The Stormwater Work Group (SWG), a subgroup of the Puget Sound Ecosystem Monitoring Program identifies objectives for stormwater monitoring. Working with regional input from several municipalities and the general public, the SWG develops an approach to provide information about stormwater impacts and the effectiveness of stormwater management actions. The SWG makes recommendations to Ecology for directed studies and shares the results with Permittees. For more information, see the SWG webpage at: <https://ecology.wa.gov/Regulations-Permits/Reporting-requirements/Stormwater-monitoring/Stormwater-Action-Monitoring>

## **Opt-In Decisions**

The City of Mukilteo will make annual payments into the collective fund for both Regional Status and Trends Monitoring and SWMP Effectiveness and SIDM Studies. No additional stormwater monitoring is expected in 2022.

## **Appendix A – Internal Coordination**



Date: July 16, 2020

To: Dave Osaki, Community Development Director  
Michelle Meyers, Finance Director  
Jeff Price, Recreation & Cultural Services Director  
Choel Kang, Police Chief  
Chris Alexander, Fire Chief

Cc: Mayor Gregerson  
Steve Powers, City Administrator

From: Andrea Swisstack, Director, Public Works

RE: NPDES Internal Coordination

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## NPDES Internal Coordination

### *Internal Coordination Requirement*

The City has coverage under the National Permit Discharge Elimination System (NPDES) Phase II Permit (“Permit”). The Permit requires that the City implement many programs, spanning nearly every City department to one degree or another.

Under Section S5.A.5.b of the Permit, the City is required to have a written description of internal coordination mechanisms to eliminate barriers to compliance with the terms of the Permit. The written description is required to be included in the City’s Annual Report beginning March 31, 2021, and to be included in the Annual Stormwater Management Program Plan.

### *Internal Coordination Goals*

- Assure that current programs, practices, and policies meet Permit requirements.
- Inform development of the annual Stormwater Management Program Plan, required under Section S4.A of the Permit.
- Assure that processes are in place to capture, compile, and report on required information for the Annual Report.
- Make NPDES requirements known and understood City-wide.
- Share relevant documents related to NPDES Permit requirements across City departments.
- Implement and track required training programs.
- Other tasks that arise in relation Permit compliance.
- Report out to the Executive Office and Council, as appropriate.



Several tasks in the NPDES Permit require cross-departmental coordination to achieve Permit compliance. The City intends to leverage already existing meetings for Internal Coordination opportunities on Permit compliance topics, where more than one department may be affected. These standing meetings are not specific to NPDES Permit requirements, but can have Permit related topics as meeting items. In some cases, program development on specific topics may require a special interdisciplinary team. These teams are convened as necessary, in an ad hoc manner. The coordination meetings can be a place where ad hoc team members are identified.

Standing meetings, attendees, and frequencies for Internal Coordination opportunities are listed below.

#### **Cabinet Meetings - Weekly**

Executive Department (Mayor or City Administrator)  
Fire Chief  
Police Chief  
City Department Directors

#### **Planning Engineering Fire (PEF) Meeting - Weekly**

Fire Marshal  
Assistant City Engineer  
Senior Engineering Technician  
Surface Water Programs Manager  
Surface Water Technician  
Planning Manager  
Senior Planner  
Associate Planners  
Assistant Planner  
Permit Center staff

#### **Stormwater Meeting - Monthly**

Public Works Director  
Public Works Superintendent  
Surface Water Programs Manager

#### **GIS-Storm-Operations Meeting - Quarterly**

Public Works Superintendent  
Surface Water Programs Manager  
Planning Manager  
Storm Maintenance Lead  
GIS Coordinator  
GIS Technician



**Public Works Department Meeting - Quarterly**

City Engineer

Superintendent

All Engineering Staff

All Operations Staff



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# Technical Memorandum

Prepared for: City of Mukilteo

Project Title: Mukilteo Stormwater Management Action Plan (SMAP)

Project No.: 155075

## Technical Memorandum

Subject: Mukilteo SMAP Watershed Inventory Table and Map

Date: February 7, 2022

To: Jennifer Adams, Surface Water Programs Manager

From: Margaret Ales, P.E., and Damon Diessner

Copy to: Mike Milne, Vice-President

Prepared by: Margaret Ales, P.E., Project Manager

Reviewed by: Mike Milne, Vice-President

### Limitations:

*This document was prepared solely for City of Mukilteo in accordance with professional standards at the time the services were performed and in accordance with the contract between City of Mukilteo and Brown and Caldwell dated April 7, 2020. This document is governed by the specific scope of work authorized by City of Mukilteo; it is not intended to be relied upon by any other party except for regulatory authorities contemplated by the scope of work. We have relied on information or instructions provided by City of Mukilteo and other parties and, unless otherwise expressly indicated, have made no independent investigation as to the validity, completeness, or accuracy of such information.*

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## List of Abbreviations

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AUs	analysis units
BC	Brown and Caldwell
BMPs	best management practices
BLR	Buildable Lands Report
CAMP	Critical Areas Mitigation Program
City	City of Mukilteo
CIP	Capital Improvement Project
Ecology	Washington State Department of Ecology
GIS	geographic information system
LID	low impact development
MS4	municipal separate stormwater sewer system
MUGA	Mukilteo Urban Growth Area
PAUs	project analysis units
PSRC	Puget Sound Regional Council
SMAP	Stormwater Management Action Planning /Plan
TM	technical memorandum
WQA	Water Quality Assessment

## Section 1: Introduction and Purpose

The City of Mukilteo (City) is developing a Stormwater Management Action Planning (SMAP) to meet the requirements of the 2019 Phase II National Pollution Discharge Elimination System (NPDES) permit (Permit). The SMAP development process involves three elements:

- Receiving Water Conditions Assessment
- Receiving Water Prioritization
- Stormwater Management Action Plan

This Technical Memorandum (TM) describes the Receiving Water Conditions Assessment. In accordance with Permit Condition S5.C.1.d. and Ecology's SMAP Guidance (Guidance) (Ecology 2019). This TM includes a watershed inventory table, a map of the delineated basins, a description of the relative condition for receiving waters and watersheds, and a discussion of the stormwater management influence assessment. These items must be submitted to Ecology by March 31, 2022.

## Section 2: Background and Data Sources to Assess Receiving Water Conditions

A significant amount of existing data was used to assess relative receiving water conditions and stormwater management influence, including several past watershed-scale planning studies that considered many of the issues suggested in the SMAP Guidance. (For a complete list of resources, see the References section). The City and Brown and Caldwell (BC) also reviewed additional stormwater-related planning information suggested in the SMAP Guidance including the Mukilteo Watershed-based Stormwater Strategies Plan (Strategies Plan) (ESA 2013) which included information used to perform the receiving water assessment. Information to develop the SMAP included:

- Prior City watershed studies and condition assessments
- Current sources for Ecology water quality assessments and designated use information
- Future stormwater conditions and development/redevelopment potential
- Information on overburdened communities in the City

**Prior watershed studies and condition assessments.** Several condition assessments, retrofit project plans, and long-range plans were reviewed and considered. These documents included the following:

- 2001 Comprehensive Stormwater Management Plan (Tetra Tech/KCM 2001)
- Smuggler's Gulch Retrofit Study Pre-Design Report (Perteet, Inc. 2010)
- Stormwater Strategies Plan (ESA 2013)
- Mukilteo Stormwater Retrofit Project Identification and Prioritization Report (ESA and BC 2014)
- Pre-Design Report Mukilteo Watershed Based Stormwater Retrofit Plan (BC 2015)
- 2015 Mukilteo Comprehensive Surface Water Management Plan (BC et al 2015)

Of these sources, the Strategies Plan provided the most relevant information for the Receiving Water Assessment. It characterized the City's watersheds and receiving waters using methodologies consistent with those outlined in the SMAP Guidance. The Strategies Plan prioritized the subbasins, or “project analysis units” (PAUs), based on the anticipated relative benefits from a suite of potential stormwater management actions. This information was augmented by additional considerations suggested in the SMAP Guidance, as described below.

**Water quality condition and designated beneficial uses.** The PAU factsheets in the 2013 Strategies Plan included impaired water listings from the state Water Quality Assessment (WQA). BC updated the listings for each watershed based on Ecology's draft 2018 WQA (Ecology 2020) and prepared a summary description as part of the receiving water condition in the watershed inventory table.

**Future land use conditions.** Information from the Snohomish County Buildable Lands Report (BLR) (Snohomish 2021) was used to evaluate future land use conditions within the city limits. The BLR's Land Status map projects the approximate locations and amounts of new development and redevelopment in the City. Redevelopment of areas with little to no existing stormwater management measures is expected to improve stormwater quality and flow control compared to existing conditions. New development of open or vacant land will be subject to State requirements and local codes designed to mitigate stormwater impacts on receiving waters.

As mentioned above, stormwater quality in PAUs with significant potential redevelopment may improve in the future because redeveloped sites must meet the applicable Minimum Requirements for Permit Condition S5.C6: Controlling Runoff from New Development, Redevelopment, and Construction Sites. PAUs without anticipated redevelopment may be good candidates for stormwater retrofits or tailored stormwater management programs based upon receiving water conditions and needs. PAUs with underdeveloped areas with a larger percentage for potential new development would benefit from land management and development strategies. For Mukilteo, the latter case appears to present few opportunities because the majority of the buildable area is built out. The majority of potential development is redevelopment, with approximately five percent of the buildable land anticipated to be developed or redeveloped by 2035, per the BLR planning horizon.

**Overburdened communities.** The SMAP Guidance recommends giving “*a higher priority to basins with overburdened communities where water quality issues and human health impacts overlap and can be addressed (at least partly) through stormwater management improvements.*” Information about overburdened communities was obtained from the Washington Department of Health, “Washington Environmental Health Disparities Map (Health Disparity)” (WDOH 2021).

The Health Disparity data are summarized by census tract and divided into four themes (Environmental Exposures, Environmental Effects, Sensitive Populations and Socioeconomic Factors). Census tracts across Washington are compared using a 1-10 Disparity Rank.

BC used mapping tools and a method of weighted averages for census tracts covering Mukilteo to apply the overall Heath Disparity rankings to each PAU in the City. The weighted average of disparity rankings were developed using the Health Disparity score for each census tract covering Mukilteo and the MUGA. The census tract area was then divided into subareas in GIS using the PAU basin delineation and simple geoprocessing tools. The result was a set of PAU subareas assigned a Health Disparity score from the census tract. Using an area-weighted area average method, the final Health Disparity score was calculated for each PAU and rounded to a whole number as necessary. These scores will be used as a factor in the prioritization process.

## Section 3: Stormwater Management Influence and Relative Conditions and Contributions

PAUs were sorted and ranked using receiving water condition information to develop the Stormwater Management Influence and Relative Conditions and Contributions for the PAUs. The sorting helps the City prepare for subsequent SMAP work such as prioritization and developing a SMAP for at least one high priority catchment area.

### 3.1 Stormwater Management Influence

The primary goal of the stormwater management influence assessment is help sort receiving waters according to their relative expected benefit from the SMAP. Ecology's SMAP Guidance suggests Permit holders use "their judgment as to the relative influence of [their] MS4 and potential SMAP actions to protect or improve receiving water condition" for current and future conditions.

The City SMAP team considered several watershed and MS4 characteristics to help identify PAUs with relatively low stormwater management influence, but ultimately chose to not eliminate any PAUs from the prioritization and subsequent SMAP planning process. In general, PAUs within Mukilteo have similar land uses with stormwater pollution potential. Eliminating certain PAUs from this planning effort would be based on relatively arbitrary considerations given the similarity of PAUs across the City. Further, removing low stormwater management influence PAUs from the prioritization list is functionally equivalent to leaving them as a low-ranking priority. While a SMAP would likely not be developed for these PAUs, leaving them in the prioritization process documents as relevant information could help the City identify potential future opportunities, such as leveraging other related projects, or partnerships with surrounding jurisdictions.

To help assess the stormwater management influence, the Guidance suggests permit holders answer the following questions for each basin:

1. What are the major pollutants and/or flow impacts associated with individual point sources versus non-point sources? Will the loadings and/or runoff volumes increase under expected future land use conditions?
2. Can these sources be addressed through other land management strategies, including policies, code, or development standards?
3. Can future growth be managed to minimize adverse stormwater impacts?

The following paragraphs contain Mukilteo's responses to these questions. Given the homogeneity of the Mukilteo watersheds, a single response is prepared for each question.

**Response 1a. What are the major pollutants and/or flow impacts associated with individual point sources versus non-point sources?** There are no known point source pollutant discharges in the City of Mukilteo. The non-point pollutant sources listed below are typical of residential urban, commercial, and industrial areas in the Puget Sound lowlands (EPA 2021):

**Brown AND Caldwell :**

- Sediment from soil erosion
- Oil, grease, petrochemicals, and other toxic materials from motor vehicles as well as from commercial and industrial land uses
- Pesticides and nutrients from lawns, gardens, and commercial landscaping
- Viruses, bacteria, pharmaceuticals, and nutrients from pet waste and failing septic systems
- Road salt from de-icing
- Metals from roof shingles, motor vehicles, commercial areas, and other sources
- Thermal pollution from impervious surfaces such as streets, parking lots, and rooftops

Stormwater from many industrial sites require coverage under the state industrial general stormwater permit which require monitoring and best management practices (BMPs) to control pollutants such as petroleum hydrocarbons, zinc, and copper.

**Response 1b. Will the loadings and/or runoff volumes increase under expected future land use conditions?**

Future land use for areas of new development will include some increases in these pollutant loadings that will be mitigated by the latest BMPs required by the Ecology NPDES Permit and the Ecology Stormwater Management Manual for Western Washington. Conversely, future redevelopment should reduce pollutant loading due to the improved stormwater management practices of the NPDES Permit requirements. However, the percentage of the buildable land forecasted for new or redevelopment within the jurisdiction is five percent and, therefore, is not a strong distinguishing factor between the PAUs.

**Response 2. Can these sources be addressed through other land management strategies, including policies, code, or development standards?** Mukilteo is already implementing the land management strategies listed below to reduce stormwater impacts on receiving waters:

- Native vegetation inclusion and protection were included in municipal code updates in 2016 as part of the City's extensive LID code update.
- Critical areas protection, including critical areas delineation and the Critical Areas Management Plan (ESA 2011) to mitigate development project impacts on wetlands, streams, and wetland buffer areas.
- Riparian corridor preservation through City acquisition and protection of receiving water riparian corridors.
- Impervious surface limitations for new and redevelopment with LID-based code revisions in 2016.

With little anticipated future growth, the land development strategies for new development are expected to yield modest receiving water benefits. The City will maintain its existing land management strategies and incorporate new strategies where applicable.

**Response 3. Can future growth be managed to minimize adverse stormwater impacts?** Future growth can be managed to minimize future adverse stormwater management impacts through a combination of new stormwater controls and future land use strategies as noted in the Response 2 above. However, with future growth (redevelopment and new development) limited to roughly five percent of the total buildable lands, additional programmatic efforts such as public outreach, operations and maintenance strategies, and stormwater retrofit projects will be necessary to help reduce stormwater pollution.

## 3.2 Relative Conditions and Contributions

The purpose of assessing relative conditions and contributions is to narrow the list of receiving waters and PAUs for the SMAP prioritization process. In keeping with Ecology's SMAP Guidance, BC assessed relative conditions and contributions based on the following three considerations:

- 1. Evaluate future conditions and consider how changes could impact water quality, habitat, and biota.** BC evaluated Land Status data from the 2021 Buildable Lands Report to identify areas of new development and redevelopment within the 2035 planning horizon. Areas with redevelopment have the potential to improve water quality by triggering improved onsite stormwater management, water quality BMPs and flow control facilities. New development has the potential to impact water quality and flow control if the development is not fully mitigated.
- 2. Evaluate which PAUs should be “protected” and “restored”.** BC used information from the City’s Strategies Plan to analyze and categorize PAUs for Preserve, Repair and Targeted strategies. The PAUs categorized with Preserve and Repair management strategy were given a priority of “highest”. The majority of PAUs were categorized for Targeted Strategies and varied in priority ranking of High, Moderate and Low, providing decision-making criteria for targeted investments. PAUs categorized for Repair strategies and High priority PAUs categorized for Targeted Strategies have the greatest gap between known conditions and pollution control goals. It is important to note that the Strategies Plan was a regional watershed scale study and PAUs categorized for Repair strategies are located outside Mukilteo’s jurisdiction.
- 3. Understand existing plans and planning efforts.** The City has developed a draft list of current projects (planned and completed) that address water quality, flow control and/or flooding (BC 2020). The list includes project locations, anticipated capital improvements, planning and construction status, study or planning effort source, and relative ranking resulting from the study/planning effort.

## Section 4: Watershed Inventory Table and Map

BC developed a watershed inventory table and associated map using the PAU subbasin delineations and data from the City's 2013 Strategies Plan, GIS files, State water quality tools, and new information gathered about future growth and overburdened communities. The March 31, 2022, deliverable to Ecology, must include an inventory table with the following information:

- Water body name
- Total watershed area
- Percent of the total watershed area within Mukilteo
- Brief description of the relative conditions of the receiving waters and contributing area conditions

The City first delineated its drainage basins in the 2001 Comprehensive Surface Water Management Plan. For the 2013 Strategies Plan, the City refined the delineations to include the entire drainage basins and enable a more complete understanding of the contributing areas.

The 2015 Comprehensive Surface Water Management Plan summarizes the City's streams as follows:

*"All of the streams and stream segments with the City are fairly small (classified as 1st order in the Strahler system) with many of the drainages beginning in the low gradient headwaters (the plateau area) and becoming steeper in the ravines before discharging to the Puget Sound. Edgewater, Japanese Gulch, and Big Gulch, and small portions of Smuggler's Gulch and Brewery Creek have headwaters that lie outside of Mukilteo. Goat Ravine Trail, Olympic View Ravine, Naketa Beach, Chennault, Upper Chennault, and Lower Chennault lie entirely with Mukilteo, with the exceptions of the outfalls. All streams discharging to Puget Sound cross over the Burlington Northern [Santa Fe (BNSF)] Railroad jurisdiction at some point. Brewery Creek, Edgewater Creek and Japanese Gulch cross under the railroad tracks but have some piped flow path between BNSF right-of-way and the Puget Sound. The outfall pipes of the remaining 10 Puget Sound streams lie under the BNSF right-of-way."*

Permit Condition S5.C.1, requires submittal of "a map of the delineated basins with references to the watershed inventory table" and "a brief description of the relative conditions of the receiving waters and the contributing areas". Figure 1 contains a map of the delineated basins in Mukilteo. Figure 1 also includes basin delineation for PAUs outside the City limits but within the Mukilteo Urban Growth Area (MUGA), even though annexation of the area is not anticipated within the next ten years. These areas are included in Figure 1 to maintain the understanding of the contributing areas and to help identify potential future opportunities such as projects and partnerships with surrounding jurisdictions. No inventory work was performed for basins located completely outside Mukilteo's jurisdiction, and these basins will not be included in the prioritization process.

Table 1 below contains the watershed inventory table required by the permit. The City will use the watershed inventory table to assist with prioritization, selecting at least one priority PAU to develop the SMAP, and identify projects and programs while considering issues involving overburdened communities in the Mukilteo City limits.

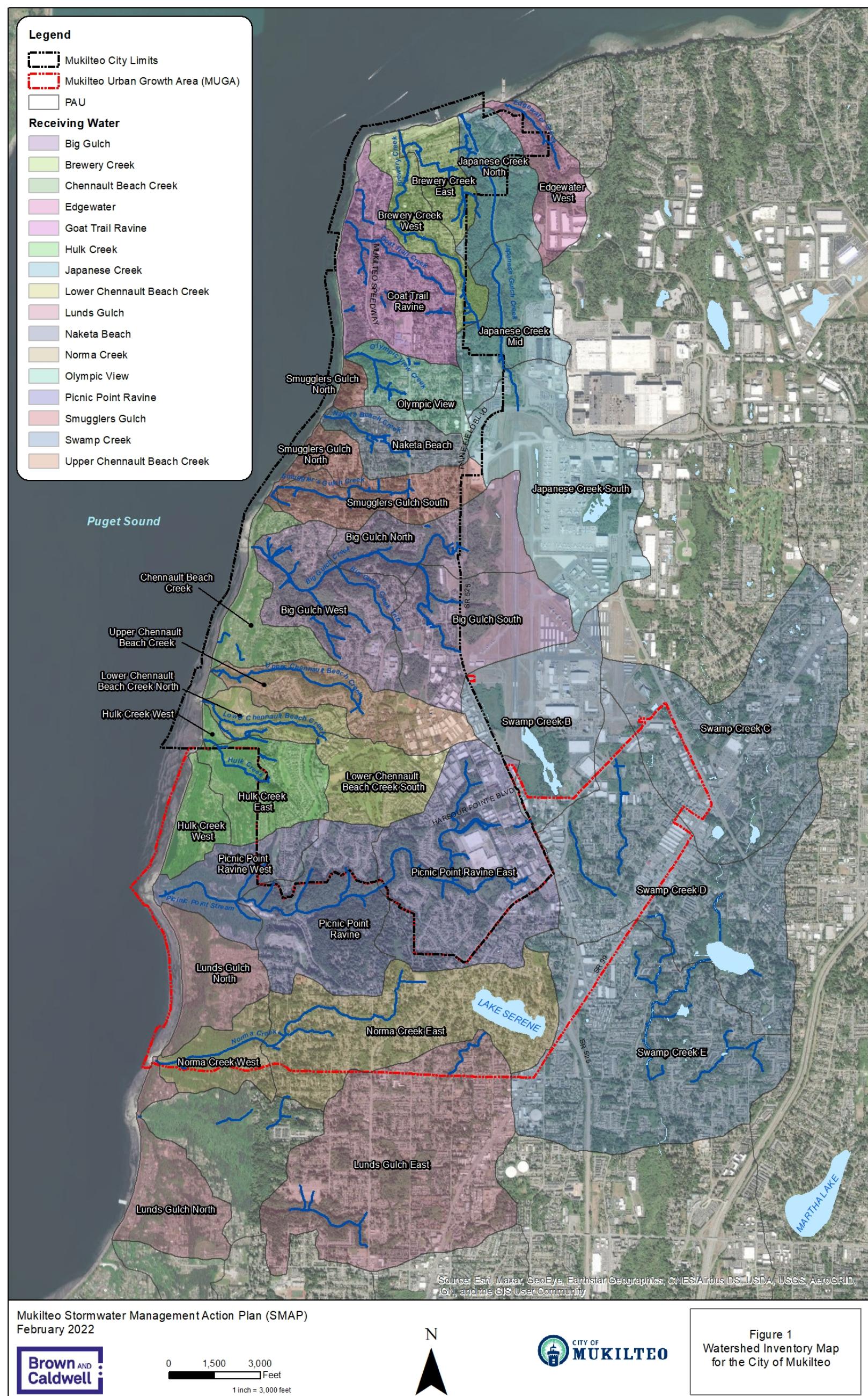


Figure 1. Watershed Inventory Map

**Table 1. Watershed Inventory Summary**

Receiving Water Name	Total Watershed Area (acres)	Percent Total Watershed Area within Mukilteo City Limits	Relative Conditions of Receiving Water and Watershed by PAUs a, b, c
Big Gulch Creek	1,807	68	<p>Big Gulch Creek basin is comprised of three project analysis units (PAUs), Big Gulch North, Big Gulch South, and Big Gulch West.</p> <ul style="list-style-type: none"> <li>The Big Gulch North PAU is 303 acres total with 55 percent of its basin area within city limits. This PAU is characterized as 23 percent impervious and situated on a plateau landscape position. The majority of the land use is characterized as Industrial, Single Family and Parks, (44, 25 and 21 percent, respectively). Approximately one percent of the area is designated as wetland. Delivery and recharge are key watershed processes within this PAU, and both have been impaired by impervious surfaces. The 2013 Strategies Plan analysis categorized this PAU for Targeted strategies in stormwater management decision making. Approximately one percent of the developable land in the Mukilteo portion of this PAU is anticipated to experience new or redevelopment by 2035. This PAU has no state impaired water quality listings. Designated aquatic life use identified as core summer salmonid habitat. Using the City-derived weighted average for environmental health disparity, this PAU has a ranking of 5 based on the Environmental Health Disparity Database scale of 1-10 with 10 having the greatest disparity.</li> <li>The Big Gulch South PAU is 419 acres total with 48 percent of its basin area within city limits. This PAU is characterized as 41 percent impervious and situated on a plateau landscape position. The majority of the land use is characterized as Industrial, Single Family and Commercial, (59, 13 and 13 percent, respectively). Approximately one percent of the area is designated as wetland. Delivery and recharge are key watershed processes within this PAU, and both have been impaired by impervious surfaces. The 2013 Strategies Plan analysis categorized this PAU for Targeted strategies in stormwater management decision making. Approximately six percent of the developable land in the Mukilteo portion of PAU is anticipated to experience new or redevelopment by 2035. This PAU has no state impaired water quality listings. Designated aquatic life use identified as core summer salmonid habitat. Using the City-derived weighted average for environmental health disparity, this PAU has a ranking of 5 based on the Environmental Health Disparity Database scale of 1-10 with 10 having the greatest disparity.</li> <li>The Big Gulch West PAU is 365 acres total with 100 percent of its basin area within city limits. This PAU is characterized as 26 percent impervious and situated on a ravine landscape position with a large portion of the PAU located in well vegetated steep ravine. The majority of the land use is characterized as Single Family and Parks, (58 and 32 percent, respectively). Approximately one percent of the area is designated as wetland. Delivery is a key watershed process within this PAU and has been impaired by impervious surfaces. The 2013 Strategies Plan analysis categorized this PAU for Targeted strategies in stormwater management decision making. Approximately six percent of the developable land in the Mukilteo portion of PAU is anticipated to experience new or redevelopment by 2035. This PAU has no state impaired water quality listings. Designated aquatic life use identified as core summer salmonid habitat. Using the City-derived weighted average for environmental health disparity, this PAU has a ranking of 4 based on the Environmental Health Disparity Database scale of 1-10 with 10 having the greatest disparity.</li> </ul>
Brewery Creek	303	90	<p>Brewery Creek basin is comprised of two PAUs, Brewery Creek East, and Brewery Creek West.</p> <ul style="list-style-type: none"> <li>The Brewery Creek East PAU is 133 acres total with 94 percent of its basin area within city limits. This PAU is characterized as 42 percent impervious and situated on a ravine landscape position. The majority of the land use is characterized as Single Family and Commercial, (81 and 11 percent, respectively). There are no wetlands in this PAU. Delivery is a key watershed process within this PAU and has been impaired by impervious surfaces. The 2013 Strategies Plan analysis categorized this PAU for Targeted strategies in stormwater management decision making. Approximately one percent of the developable land in the Mukilteo portion of this PAU is anticipated to experience new or redevelopment by 2035. This PAU has no state impaired water quality listings nor designated aquatic life use. Using the City-derived weighed average for environmental health disparity, this PAU has a ranking of 2 based on the Environmental Health Disparity Database scale of 1-10 with 10 having the greatest disparity.</li> <li>The Brewery Creek West PAU is 171 acres total with 86 percent of its basin area within City limits. This PAU is characterized as 35 percent impervious and situated on a ravine landscape position. The majority of the land use is characterized as Single Family and Industrial, (76 and 13 percent, respectively). There are no wetlands in this PAU. Delivery is a key watershed process within this PAU and has been impaired by impervious surfaces. The 2013 Strategies Plan analysis categorized this PAU for Targeted strategies in stormwater management decision making. Approximately three percent of the developable land in the Mukilteo portion of PAU is anticipated to experience new or redevelopment by 2035. This PAU has no state impaired water quality listings. Designated aquatic life use identified as core summer salmonid habitat. Using the City-derived weighed average for environmental health disparity, this PAU has a ranking of 2 based on the Environmental Health Disparity Database scale of 1-10 with 10 having the greatest disparity.</li> </ul>
Chennault Beach Creek	184	100	<p>Chennault Beach Creek basin is comprised of PAU, Chennault Beach Creek.</p> <ul style="list-style-type: none"> <li>The Chennault Beach Creek PAU is 184 acres total with 100 percent of its basin area within city limits. Chennault Beach Creek PAU is split into an upper and lower portion by the Upper Chennault Beach Creek PAU as a result of earlier mapping techniques. The Chennault Beach Creek PAU is characterized as 33 percent impervious and situated on a bluff landscape position. The majority of the land use is characterized as Single Family, 96 percent of the total land use area. There are no wetlands in this PAU. Delivery is a key watershed process within this PAU and has been impaired by impervious surfaces. The 2013 Strategies Plan analysis categorized this PAU for Targeted strategies in stormwater management decision making. Less than 1 percent of the developable land in the Mukilteo portion of PAU is anticipated to experience new or redevelopment by 2035. This PAU has no state impaired water quality listings nor designated aquatic life use. Using the City-derived weighed average for environmental health disparity, this PAU has a ranking of 4 based on the Environmental Health Disparity Database scale of 1-10 with 10 having the greatest disparity.</li> </ul>
Edgewater Creek	341	8	<p>Edgewater Creek basin is comprised of two PAUs of which one has a portion within Mukilteo city limits, Edgewater West.</p> <ul style="list-style-type: none"> <li>The Edgewater West PAU is 175 acres total with 15 percent of its basin area within city limits. This PAU is characterized as 21 percent impervious and situated on a ravine landscape position. The majority of the land use is characterized as Industrial and Single Family, (58 and 40 percent, respectively). There are no wetlands in this PAU. Delivery is a key watershed process within this PAU and has been impaired by impervious surfaces. The 2013 Strategies Plan analysis categorized this PAU for Targeted strategies in stormwater management decision making. Less than 1 percent of the developable land in the Mukilteo portion of PAU is anticipated to experience new or redevelopment by 2035. This PAU has no state impaired water quality listings. Designated aquatic life use identified as salmonid spawning, rearing and migration. Using the City-derived weighted average for environmental health disparity, this PAU has a ranking of 2 based on the Environmental Health Disparity Database scale of 1-10 with 10 having the greatest disparity.</li> </ul>
Goat Trail Creek	382	100	<p>Goat Trail Creek basin is comprised of one PAU, Goat Trail Ravine.</p> <ul style="list-style-type: none"> <li>The Goat Trail Ravine PAU is 382 acres total with 100 percent of its basin area within city limits. This PAU is characterized as 35 percent impervious and situated on a ravine landscape position. The majority of the land use is characterized as Single Family, 87 percent of the total land use area. There are no wetlands in this PAU. Delivery is a key watershed process within this PAU and has been impaired by impervious surfaces. The 2013 Strategies Plan analysis categorized this PAU for Targeted strategies in stormwater management decision making. Less than 1 percent of the developable land in the Mukilteo portion of PAU is anticipated to experience new or redevelopment by 2035. This PAU has no state impaired water quality listings nor designated aquatic life use. Using the City-derived weighed average for environmental health disparity, this PAU has a ranking of 2 based on the Environmental Health Disparity Database scale of 1-10 with 10 having the greatest disparity.</li> </ul>
Hulk Creek	375	44	<p>Hulk Creek is comprised of two PAUs, Hulk Creek East, and Hulk Creek West</p> <ul style="list-style-type: none"> <li>The Hulk Creek East PAU is 248 acres total with 60 percent of its basin area within city limits. This PAU is characterized as 23 percent impervious and situated on a ravine landscape position. The majority of the land use is Single Family, 95 percent. Less than one percent of the area is designated as wetland. Delivery is a key watershed process within this PAU and has been impaired by impervious surfaces. The 2013 Strategies Plan analysis categorized this PAU for Targeted strategies in stormwater management decision making. Less than 1 percent of the developable land in the Mukilteo portion of PAU is anticipated to experience new or redevelopment by 2035. This PAU has no state impaired water quality listings. Designated aquatic life use identified as core summer salmonid habitat. Using the City-derived weighted average for environmental health disparity, this PAU has a ranking of 3 based on the Environmental Health Disparity Database scale of 1-10 with 10 having the greatest disparity.</li> </ul>

**Table 1. Watershed Inventory Summary**

Receiving Water Name	Total Watershed Area (acres)	Percent Total Watershed Area within Mukilteo City Limits	Relative Conditions of Receiving Water and Watershed by PAUs a, b, c
			<ul style="list-style-type: none"> <li>The Hulk Creek West PAU is 127 acres total with 13 percent of its basin area within city limits. Hulk Creek West PAU is split into an upper and lower portion by the Hulk Creek East PAU as a result of earlier mapping techniques. Portions of the upper Hulk Creek West PAU discharge directly to Puget Sound. The Hulk Creek West PAU is characterized as 11 percent impervious and situated on a bluff landscape position. The majority of the land use is characterized as Single Family, 91 percent. Approximately two percent of the area is designated wetland. Delivery is a key watershed process within this PAU and has been impaired by impervious surfaces. The 2013 Strategies Plan analysis categorized this PAU for Targeted strategies in stormwater management decision making. Less than 1 percent of the developable land in the Mukilteo portion of PAU is anticipated to experience new or redevelopment by 2035. This PAU has no state impaired water quality listings. Designated aquatic life use identified as core summer salmonid habitat. Using the City-derived weighed average for environmental health disparity, this PAU has a ranking of 3 based on the Environmental Health Disparity Database scale of 1-10 with 10 having the greatest disparity.</li> </ul>
Japanese Creek	1,148	16	<p>Japanese Creek basin is comprised of three PAUs, Japanese Creek Mid, Japanese Creek North and Japanese Creek South.</p> <ul style="list-style-type: none"> <li>The Japanese Creek Mid PAU is 277 acres total with 19 percent of its basin area within city limits. This PAU is characterized as 25 percent impervious and situated on a ravine landscape position. The majority of the land use is Industrial, 93 percent of the total land use area. Less than one percent of the area is designated as wetland. Delivery is a key watershed process within this PAU and has been impaired by impervious surfaces. The 2013 Strategies Plan analysis categorized this PAU for Targeted strategies in stormwater management decision making. Sixty percent of the developable land within the Mukilteo portion of this PAU is forecasted to experience new or redevelopment by 2035. This PAU has no state impaired water quality listings. Designated aquatic life use identified as salmonid spawning, rearing and migration. Using the City-derived weighed average for environmental health disparity, this PAU has a ranking of 2 based on the Environmental Health Disparity Database scale of 1-10 with 10 having the greatest disparity.</li> <li>The Japanese Creek North PAU is 213 acres total with 48 percent of its basin area within city limits. This PAU is characterized as 15 percent impervious and situated on a plateau landscape position, however the PAU contains portions of a well vegetated steep ravine. The majority of the land use is characterized as Industrial and Single Family, (50 and 39 percent, respectively). Delivery and discharge are key processes within this PAU. Less than one percent of the area is designated as wetland. The discharge process is relatively intact, but delivery process is impaired by impervious surfaces and surface storage has been impaired by loss of wetlands. The 2013 Strategies Plan analysis categorized this PAU for Preserve strategies in stormwater management decision making. Less than one percent of the developable land within the Mukilteo portion of this PAU is anticipated to experience new or redevelopment by 2035. This PAU has no state impaired water quality listings. Designated aquatic life use identified as salmonid spawning, rearing and migration. Using the City-derived weighed average for environmental health disparity, this PAU has a ranking of 2 based on the Environmental Health Disparity Database scale of 1-10 with 10 having the greatest disparity.</li> <li>The Japanese Creek South PAU is 659 acres total with 4 percent of its basin area within city limits. This PAU is characterized as 35 percent impervious and situated on a plateau landscape position. The majority of the land use is Industrial, 96 percent. Approximately three percent of the PAU area is designated as wetland. Delivery and recharge are both key watershed processes within this PAU and have been impaired by impervious surfaces. The 2013 Strategies Plan analysis categorized this PAU for Targeted strategies in stormwater management decision making. Thirteen percent of the developable land within the Mukilteo portion of this PAU is anticipated to experience new or redevelopment by 2035. This PAU has no state impaired water quality listings. Designated aquatic life use identified as salmonid spawning, rearing and migration. Using the City-derived weighed average for environmental health disparity, this PAU has a ranking of 5 based on the Environmental Health Disparity Database scale of 1-10 with 10 having the greatest disparity.</li> </ul>
Lower Chennault Beach Creek	337	100	<p>Lower Chennault Beach Creek basin is comprised of two PAUs, Lower Chennault Beach Creek North, and Lower Chennault Beach Creek South.</p> <ul style="list-style-type: none"> <li>The Lower Chennault Beach Creek North PAU is 122 acres total with 100 percent of its basin area within city limits. This PAU is characterized as 31 percent impervious and situated on a ravine landscape position with a large portion of the PAU located in well vegetated steep ravine. The majority land use is Single Family, Parks, Multi-Family, Industrial, and Parks (53, 17, 15, and 15 percent, respectively). Less than one percent of the area is designated as wetland. Delivery is a key watershed process within this PAU and has been impaired by impervious surfaces. The 2013 Strategies Plan analysis categorized this PAU for Targeted strategies in stormwater management decision making. Less than one percent of the developable land within the Mukilteo portion of this PAU is anticipated to experience new or redevelopment by 2035. This PAU has no state impaired water quality listings. Designated aquatic life use identified as core summer salmonid habitat. Using the City-derived weighed average for environmental health disparity, this PAU has a ranking of 3 based on the Environmental Health Disparity Database scale of 1-10 with 10 having the greatest disparity.</li> <li>The Lower Chennault Beach Creek South PAU is 215 acres total with 100 percent of its basin area within city limits. This PAU is characterized as 30 percent impervious and situated on a plateau landscape position. The majority of the land use is Multi-family and Commercial, (51 and 30 percent, respectively). Approximately 21 percent the PAU area is designated as wetland. Delivery, surface storage and recharge are key watershed process within this PAU. Surface storage processes are relatively intact, but delivery and recharge processes are impaired by impervious surfaces. The 2013 Strategies Plan analysis categorized this PAU for Preserve strategies in stormwater management decision making. This PAU has no state impaired water quality listings. Designated aquatic life use identified as core summer salmonid habitat. Using the City-derived weighed average for environmental health disparity, this PAU has a ranking of 4 based on the Environmental Health Disparity Database scale of 1-10 with 10 having the greatest disparity.</li> </ul>
Naketa Beach Creek	160	100	<p>Naketa Beach Creek is comprised of one PAU, Naketa Beach.</p> <ul style="list-style-type: none"> <li>The Naketa Beach PAU is 160 acres total with 100 percent of its basin area within city limits. This PAU is characterized as 41 percent impervious and situated on a ravine landscape position. The majority of the land use is Single Family, Multi-Family and Commercial, (61, 21, and 18 percent, respectively). There are no wetlands in this PAU. Delivery is a key watershed process within this PAU and has been impaired by impervious surfaces. The 2013 Strategies Plan analysis categorized this PAU for Targeted strategies in stormwater management decision making. Approximately 15 percent of the developable land in the PAU is anticipated to experience new or redevelopment by 2035. This PAU has no state impaired water quality listings. Designated aquatic life use identified as core summer salmonid habitat. Using the City-derived weighed average for environmental health disparity, this PAU has a ranking of 4 based on the Environmental Health Disparity Database scale of 1-10 with 10 having the greatest disparity.</li> </ul>
Olympic View Creek	172	100	<p>Olympic View Creek is comprised of one PAU, Olympic View.</p> <ul style="list-style-type: none"> <li>The Olympic View PAU is 173 acres total with 100 percent of its basin area within city limits. This PAU is characterized as 31 percent impervious and situated on a ravine landscape position. The majority of the land use is Single Family and Multi-family, 78 and 10 percent, respectively. Less than one percent of the area is designated as wetland. Delivery is a key watershed process within this PAU and has been impaired by impervious surfaces. The 2013 Strategies Plan analysis categorized this PAU for Targeted strategies in stormwater management decision making. Approximately three percent of the developable land in the Mukilteo portion of PAU is anticipated to experience new or redevelopment by 2035. This PAU has no state impaired water quality listings. Designated aquatic life use identified as core summer salmonid habitat. Using the City-derived weighed average for environmental health disparity, this PAU has a ranking of 2 based on the Environmental Health Disparity Database scale of 1-10 with 10 having the greatest disparity.</li> </ul>
Picnic Point Creek	1,416	53	<p>Picnic Point Creek basin is comprised of three PAUs, Picnic Point Ravine, Picnic Point Ravine East, and Picnic Point Ravine West.</p> <ul style="list-style-type: none"> <li>The Picnic Point Ravine PAU is 441 acres total with 24 percent of its basin area within city limits. This PAU is characterized as 16 percent impervious and situated on a ravine landscape position. The majority of the land use is Single Family, 98 percent of the total land use area. Approximately two percent the PAU area is designated as wetland. Delivery is a key watershed process within this PAU and has been impaired by impervious surfaces. The 2013 Strategies Plan analysis categorized this PAU for Targeted strategies in stormwater decision making. Less than one percent of the developable land within the Mukilteo portion of this PAU is forecasted to experience new or redevelopment by 2035. This PAU has a water quality condition category of 5 and is therefore on the polluted/impaired water 303(d) list. Designated aquatic life use identified as core summer salmonid habitat. Using the City-derived weighed average for environmental health disparity, this PAU has a ranking of 3 based on the Environmental Health Disparity Database scale of 1-10 with 10 having the greatest disparity.</li> <li>The Picnic Point Ravine East PAU is 747 acres total with 78 percent of its basin area within city limits. This PAU is characterized as 40 percent impervious and situated on a plateau landscape position. The majority of the land use is characterized as Single Family and Industrial, 49 and 38 percent, respectively. Approximately five percent the PAU area is designated as wetland. Delivery and recharge are key processes within this PAU and both processes have been impaired by impervious surfaces. The 2013 Strategies Plan analysis categorized this PAU for Targeted strategies in stormwater management decision making. Approximately 16 percent of the developable land within the Mukilteo portion of this PAU is anticipated to experience new or redevelopment by 2035. This PAU has a water quality</li> </ul>

**Table 1. Watershed Inventory Summary**

Receiving Water Name	Total Watershed Area (acres)	Percent Total Watershed Area within Mukilteo City Limits	Relative Conditions of Receiving Water and Watershed by PAUs a, b, c
			<p>condition category of 5 and is therefore on the polluted/impaired water 303(d) list. Designated aquatic life use identified as core summer salmonid habitat. Using the City-derived weighed average for environmental health disparity, this PAU has a ranking of 4 based on the Environmental Health Disparity Database scale of 1-10 with 10 having the greatest disparity.</p> <ul style="list-style-type: none"> <li>The Picnic Point Ravine West PAU is 229 acres total with 28 percent of its basin area within city limits. This PAU is characterized as 15 percent impervious and situated on a ravine landscape position. The land use is 100 percent Single Family. Less than one percent the PAU area is designated as wetland. Delivery is a key watershed process within this PAU and has been impaired by impervious surfaces. The 2013 Strategies Plan analysis categorized this PAU for Targeted strategies in stormwater management decision making. Less than one percent of the developable land within the Mukilteo portion of this PAU is anticipated to experience new or redevelopment by 2035. This PAU has a water quality condition category of 5 and is therefore on the polluted/impaired water 303(d) list. Designated aquatic life use identified as core summer salmonid habitat. Using the City-derived weighed average for environmental health disparity, this PAU has a ranking of 3 based on the Environmental Health Disparity Database scale of 1-10 with 10 having the greatest disparity.</li> </ul>
Smugglers Gulch Creek	331	96	<p>Smuggler's Gulch Creek is comprised of two PAUs, Smugglers Gulch North, and Smugglers Gulch South</p> <ul style="list-style-type: none"> <li>The Smugglers Gulch North PAU is 112 acres total with 100 percent of its basin area within city limits. Smugglers Gulch North is split into an upper and lower portion by the Naketa Beach PAU as a result of earlier mapping techniques. Large portions of Smugglers Gulch North discharge directly to Puget Sound. This PAU is characterized as 23 percent impervious and situated on a bluff landscape position. The majority of the land use is Single Family and Multi-Family, 90 and 10 percent, respectively. There are no wetlands in this PAU. Delivery is a key watershed process within this PAU and has been impaired by impervious surfaces. The 2013 Strategies Plan analysis categorized this PAU for Targeted strategies in stormwater management decision making. Approximately four percent of the developable land in the PAU is anticipated to experience new or redevelopment by 2035. This PAU has no state impaired water quality listings nor designated aquatic life use. Using the City-derived weighed average for environmental health disparity, this PAU has a ranking of 3 based on the Environmental Health Disparity Database scale of 1-10 with 10 having the greatest disparity.</li> <li>Smugglers Creek South PAU is 220 acres total with 94 percent of its basin area within city limits. This PAU is characterized as 26 percent impervious and situated on a ravine landscape position. The majority of the land use is characterized as Single Family, 89 percent. Approximately two percent of the area is designated wetland. Delivery is a key watershed process within this PAU and has been impaired by impervious surfaces. The 2013 Strategies Plan analysis categorized this PAU for Targeted strategies in stormwater management decision making. Less than 1 percent of the developable land in the Mukilteo portion of PAU is anticipated to experience new or redevelopment by 2035. This PAU has no state impaired water quality listings. Designated aquatic life use identified as core summer salmonid habitat. Using the City-derived weighed average for environmental health disparity, this PAU has a ranking of 4 based on the Environmental Health Disparity Database scale of 1-10 with 10 having the greatest disparity.</li> </ul>
Swamp Creek	6,603	< 1	<p>Swamp Creek is comprised of seven PAUs of which one has a portion within Mukilteo city limits, Swamp Creek B.</p> <ul style="list-style-type: none"> <li>The Swamp Creek B PAU is 463 acres total with 7 percent of its basin area within city limits and drains to Swamp Creek which is outside of Mukilteo. This PAU is characterized as 50 percent impervious and situated on a plateau landscape position. The majority of the land use is Industrial, 94 percent. Approximately ten percent of the area is designated wetland. Delivery and recharge area key watershed processes and has been impaired. The 2013 Strategies Plan analysis categorized this PAU for Targeted strategies in stormwater management decision making. Approximately 39 percent of the developable land in the PAU is anticipated to experience new or redevelopment by 2035. This PAU has no state impaired water quality listings. Designated aquatic life use identified as core summer salmonid habitat. Using the City-derived weighed average for environmental health disparity, this PAU has a ranking of 5 based on the Environmental Health Disparity Database scale of 1-10 with 10 having the greatest disparity.</li> </ul>
Upper Chennault Beach Creek	277	100	<p>Upper Chennault Beach Creek is comprised of one PAU, Upper Chennault Beach Creek.</p> <ul style="list-style-type: none"> <li>The Upper Chennault Beach Creek PAU is 278 acres total with 100 percent of its basin area within city limits. This PAU is characterized as 43 percent impervious and situated on a ravine landscape position. The land use is somewhat evenly distributed between Single Family, Multi-family, Industrial and Commercial (34, 25, 21 and 11 percent, respectively). Approximately two percent of the area is designated wetland. Delivery is a key watershed process and has been impaired by impervious surfaces. The 2013 Strategies Plan analysis categorized this PAU for Targeted strategies in stormwater management decision making. Approximately four percent of the developable land in the PAU is anticipated to experience new or redevelopment by 2035. This PAU has no state impaired water quality listings. Designated aquatic life use identified as core summer salmonid habitat. Using the City-derived weighted average for environmental health disparity, this PAU has a ranking of 4 based on the Environmental Health Disparity Database scale of 1-10 with 10 having the greatest disparity.</li> </ul>

a. PAUs within Mukilteo have relatively similar geologic considerations and land uses with very similar stormwater pollution potential.

b. Watershed key processes include Delivery which means amount of flow generated in the watershed by precipitation; Surface Storage which means amount of run off stored as surface water; Recharge which means ease of infiltration in the watershed.

c. The Environmental Health Disparity rankings help to compare health and social factors that may contribute to disparities in a community.

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<https://www.doh.wa.gov/DataandStatisticalReports/WashingtonTrackingNetworkWTN/InformationbyLocation/WashingtonEnvironmentalHealthDisparitiesMap> (July 8, 2020).

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<https://apps.leg.wa.gov/WAC/default.aspx?cite=173-201A-602> (July 8, 2020).

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# CITY OF MUKILTEO

2019 Permit Section S5.C.2  
Public Education & Outreach  
2021 City of Mukilteo Activities

Activity	Activity Description	Target Audience	Subject Area
<b>Puget Sound Starts Here Social Media Campaign</b>	Social media posts on promoting pet waste cleanup, proper car washing and car maintenance to protect surface waters from storm water runoff	General public	General impacts of stormwater on surface waters
<b>Stormwater Banners</b>	Banners with general awareness themes: <ul style="list-style-type: none"><li>• pet waste</li><li>• car washing</li><li>• clearing leaf fall</li><li>• stewardship opportunities with link to city webpage</li></ul> Each topic is posted throughout the city, rotating on approximately a quarterly basis. Copies of banners attached.	General public	General impacts of stormwater on surface waters
<b>Newspaper PSA</b>	PSA in Mukilteo Beacon to remind residents to clear leaf fall from their storm drains (see article attached)	General public	General impacts of stormwater on surface waters - Keeping drains clear



# Wash On Your Lawn, Or At a Car Wash



IT'S ALL  
CONNECTED



CITY OF  
**MUKILTEO**

[mukstormwater.com](http://mukstormwater.com)

# Be a Clean Water Steward... Volunteer!



[mukstormwater.com](http://mukstormwater.com)

# Clear Blocked Storm Drains Put Leaves in Your Yard Waste



[mukstormwater.com](http://mukstormwater.com)

# Pick Up Pet Waste

## Bag It, Trash It



[mukstormwater.com](http://mukstormwater.com)

# GUESTVIEW

## Let's keep our storm drains clear



Photo and graphics courtesy of City of Mukilteo

As we approach fall, your City's Public Works Department is busy preparing to handle the thousands of leaves that will fall on City streets.

If left unattended these leaves risk clogging storm drains and can lead to local flooding. Below are tips on how to handle the leaves this fall and information on how you can help keep them out of the drains.

### Rain and leaves don't mix

Rain, combined with falling leaves, is the perfect recipe for clogging storm drains which can cause local flooding of roads and private property. City crews work hard to keep storm drains clear, but with over 4,000 drains in Mukilteo we could use your help.

With your assistance, we can keep streets safe, clean and can reduce property damage caused by flooding. Please monitor your neighborhood storm drains. If you see leaves blocking your storm drain grate, please remove them if it is safe and you are able to do so, or report the blockage to the City of Mukilteo Public Works Department.

### What is a storm drain?

Storm drains are covered by rectangular slotted grates and are normally near the edge of the street. These grates collect water which then flows to the nearest stream or waterway.

### How should I clean a storm drain?



Residents are encouraged to keep their storm drains free from leaves.

### Stay Safe

Only clear a drain if you can do it safely and NEVER remove a storm drain lid or attempt to clean a drain located in a busy street. Do not wade into water when you are unsure of the depth.

### Can I use a leaf blower to clean up my yard?

Yes, however avoid blowing leaves into the street, where they clog storm drains. Blow or rake leaves into a pile and then place them in your yard waste cart.

### What else can I do with my leaves?

Compost your yard waste. Next time you mow, mulch the leaves while cutting the grass. They are great nutrients for your lawn, but not for our waterways. You can also turn your leaves into beneficial compost, and they will be ready for your spring garden.

### Check your gutters and downspouts

Clear gutters and downspouts of leaves and debris and replace leaky or broken gutters and downspouts. Make sure downspouts are directing water away from your house.

### Remember if it's on the ground, it's in our water

- Never allow yard waste to be washed down or put into storm drains.
- Remove debris and residue that could end up in a storm drain from concrete and paved areas around your house.
- Do not clean driveways and sidewalks with a hose, instead sweep driveways and sidewalks clean.
- Do not sweep or blow grass clippings into the street or into a storm drain.
- Remove leaves and other debris from the storm drain inlets in the street near your residence.
- Do not dump pollutants or trash down storm drain inlets. These can clog and severely pollute our local bodies of water. Call the City's spill hotline at 425-263-8088 if you see something entering a storm drain or a stream channel that looks like it shouldn't be there.



## GUESTVIEW

BY MATT NIENHUIS  
PUBLIC WORKS SUPERINTENDENT

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### What is a storm drain?

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### How should I clean a storm drain?

If you see a clogged storm drain and it can be accessed safely, use a rake, shovel, or stick to clear the drain and place the leaves in your yard waste cart or home compost pile. If you are unable to remove the blockage safely report it to the City of Mukilteo Public Works Department at 425-263-8000 or to Fix it Public Works!, which can be found on the City's website at Mukilteoeowa.gov.



Residents are encouraged to keep their storm drains free from leaves.

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## LETTERS TO THE EDITOR

### Zieve supports keeping Mukilteo's small-town feeling

In my interactions with fellow Mukilteo residents, whether it is at Lighthouse Park, the gulch, the grocery store, or at one of our many memorable restaurants, I have found a common thread – love for Mukilteo, the way it is. A small-town feel with spectacular views, ease of parking, mobility, and services.

Whether they are retirees, young families, or students; White, Black or brown; dog lovers or photographers; homeowners or renters, they cannot believe that this little piece of heaven is not taken over by the dehumanizing high density urban sprawl.

Peter Zieve has one goal and one goal alone – Keep Mukilteo a small town. Do not crush its soul by encouraging high-density growth – whether it is to meet some made up state-driven mandate or for the pursuit of more tax dollars or for campaign contributions from builders or marijuana businesses.

Peter is a self-made entrepreneur, who sees and speaks clearly and always has the desires of the common Mukilteo resident in mind. He does not need to satisfy any of these other agendas. Vote for Peter!

**Ashvin Sanghvi  
Mukilteo**

### Marine represents residents' views on housing, public safety

I am a long time resident of Mukilteo, approximately 30 years. I am writing to you to highlight what I believe to be important to my fellow neighbors. I have gone door to door knocking as well as conducted meetings in my home about the upcoming Mukilteo elections for mayor and councilmembers. The following are key data points that are important to the majority of Mukilteans:

The HAP – people truly do not want high density in Mukilteo or their properties rezoned. They moved here to get away from that – especially those who moved here a long time ago, and just as important people who have moved here in the past couple of years to get away from Seattle and high-density neighborhoods.

People want to protect the character of Mukilteo – keep it small and safe

People do not want to defund the police or what will be next, the fire department?

People do not want higher taxes!

The only person in my mind who can fit the bill in accomplishing fair, sensible, progressive and responsible government is to reelect Joe Marine for mayor. Joe not only brings former mayor experience, but leads with integrity and compassion! He listens!

The community has spoken loudly to the current

mayor and councilmembers and we were told by some that we were just paranoid! Not true, we simply want Mukilteo to remain safe for all of our residents, protect our property values, and keep our schools intact.

I, therefore, request you to highlight these issues in your newspaper to generate public interest on the matter. We need the right leadership to keep Mukilteo going in the right direction – Select Joe Marine!

**Sharon Swann  
Mukilteo**

### Zieve wants to keep Mukilteo a small town, supports the police

This endorsement is for Peter Zieve for Mukilteo City Council Position #1. I can't think of anyone that would represent our city better than Peter.

Peter sent a postcard to all residents recently which stated his campaign voice of "KEEP MUKILTEO A SMALL TOWN." We don't need high-density housing with reduced parking, such as the Vantage apartments across from the Safeway. His opponent, Louis Harris, is an advocate for high-density projects and has posted on social media that that he supports defunding the police. Peter fully supports our police to keep Mukilteo safe.

From being Mukilteo's largest employer to interacting and supporting our civic events, to his huge contribution to the Boys and Girls Club of Mukilteo, to meeting, interacting with and improving the lives of the people of Mukilteo, and so much more too numerous to list.

I believe Mukilteo is honored to have such as esteemed man that wants to spend his retirement years bringing his vast expertise to this position, which will not only bring a new perspective but also contribute new wisdom and insight into the Mukilteo governance. I ask you to join me in giving Peter our full support.

**Rosalie Remick  
Mukilteo**

### Schwab is a tireless supporter of Mukilteo School District students

We are rapidly closing in on the general election in November. In odd-numbered years, people don't always pay as much attention to local races as they do in even-numbered years. However, in so many respects, local elections are as important or are more important than state and federal ones.

With that in mind, I want to state my unequivocal support for Judy Schwab to be reelected to the Mukilteo School District Board of Directors. I've had

see LETTERS page 5

### Online Poll

#### Last week's question & results:

Visitors to the Mukilteo waterfront often have difficulties in finding parking. Would you like to see a parking facility built somewhere on the waterfront?

- 55% Said YES • 45% Said NO

#### This week's summary:

The Mukilteo City Council resumed virtual meetings this week due to concerns about increasing COVID-19 cases. Some Councilmembers want to hold in-person meetings with safety protocols in place.

[www.mukilteobeacon.com](http://www.mukilteobeacon.com)

#### This week's poll question:

Should the council hold virtual or in-person meetings?

We want to know what you think: Vote online now at [www.mukilteobeacon.com](http://www.mukilteobeacon.com) and look for the results in the Sept. 29 issue of The Beacon.

# Regional Dumpster Lid Campaign

Final meeting  
before launch!



- Schedule
- Pilot Site Selection
- Eval Review & Data Entry
- Tool Review

# Timeline

Date(s)	Task	Notes
by February 19	Identify 5-6 businesses to target (*even if I'm only piloting with 2)	Quick "windshield survey"
February 22-26	Prepare Forms	<ul style="list-style-type: none"> <li>✓ Fill out top of evaluation form for each pre-campaign survey business.</li> <li>✓ Send to staff performing evaluation if not you.</li> </ul>
February 22-26	Plan Baseline Evaluation Schedule	<ul style="list-style-type: none"> <li>✓ Plan out schedule for self or staff to check dumpster lids at each business 1-2 times per day for 1 week. The more data the better. Recommendation is 2x per day, AM &amp; PM.</li> <li>✓ Include weekends if business is open on weekends.</li> </ul>
March 1-7	Baseline Evaluation Surveys  These evaluations must be completed before start of campaign and prior to any communications with pilot participants.	<ul style="list-style-type: none"> <li>*Evaluate 5 or 6 businesses if possible, even though I will pilot 2, just in case they:           <ol style="list-style-type: none"> <li>1. Won't participate in pilot.</li> <li>2. Put their lid down all the time during the pre-campaign evaluation and are therefore not a good candidate for the campaign.</li> <li>3. Some other unknown reason that makes them not a good pilot candidate.</li> </ol> </li> </ul> <p>Any businesses you do not use for your pilot can be saved for implementation after the pilot. You may also choose to continue evaluating them along with your pilot businesses as a control.</p>
March 9-19	Decide which businesses to use for Pilot.	Reach out and schedule visits with businesses as needed.
March 22-31	Implement Campaign Pilot	Have at least 1 business implementation completed and any others to have date/time scheduled.
April 1 –depending on when businesses start campaign.	Start of Campaign Evaluation	Schedule evaluation 1-2 times a day for 1-2 weeks after the start of implementation

# Baseline Review – Pilot Business Selection Process

Business/location	total # possible	# open	days open/7	issues	notes	shared or single	high/med/low potential for pilot
15 Lake Bellevue	28	14	7	recycling lid trapped open recycling overflowing	need to resolve issues focus later on all of Lk Bellevue	single	low
40 Lake Bellevue	28	4	2	some issues with garbage & recycling out of dumpsters		single	low
156th - Control Group	56	14	7	garbage & recycling overflowing trash outside of dumpsters recycling always open	control	shared	medium/low
Brierwood - Chown	28	15	7	lids trapped	ask Republic to resolve asap	shared	medium
Brierwood - Trophy	28	25	7	Furniture, overflow, mess!	site on a hill/slope	shared	high
I Love Sushi	28	5	3			single	
Orielys	28	0	0			single	
Oscko & Med Market	28	14	7	may have recycling capacity issues		shared	high
Porsche	14	12	6	car parts and misc garbage around dumpster	Control Plan all of Lk Bellevue separately	single	high
Service King	56	44	7	none		single	high
Shell Gas Station	14	14	7	none obvious but need to make sure lid is not trapped open	check lid	single	high
Pacific Village Center North	140	32	7	who owns small brown bins? Republic dumpsters left open a lot	Control small brown bins go to compactor	shared	medium
Biryani Palace	28	1	1			shared	low
Brown Bear Car Wash	28	6	5	always recycling that is left open	pole used to prop lid, tool used to pack down recycling	single	low
Dicks Restaurant Supply	28	17	7	always debris on the ground around dumpsters	store is adjacent to Valley Creek	single	high
Ezell's	42	18		Garbage lid stuck open!	request Republic resolve, low priority	shared	low



## Keep The Lids Shut – New Dumpster Lid Program

**Brierwood**  
Near Lake Bellevue  
Bellevue, WA 98008

**Re: Coming soon to a dumpster near you!**

Dear Brierwood

The City of Bellevue Water Quality Staff will be putting stickers on your dumpsters to remind users to put the lids down after each use. Closing lids on dumpsters reduces smells, pests, and keeps rain out.

We want to make it as easy as possible for you and your employees to close the dumpster lids every time you take out your garbage or recycling. We'll also be delivering reminder signs and posters, tips and information about keeping dumpster areas clean, and additional free options like a pledge, floor signs, and a voucher for a step stool.

Open dumpsters can cause problems for local waterways. When lids are left open, rainwater gets in. Then dumpster juice can leak from dumpsters or pour out when it is empties into the garbage truck. Sometimes, it even leaks from the garbage truck. When this happens, pollution from the dumpster juice gets washed into the nearest storm drain and then flows into nearby bodies of water like Lake Bellevue, Kelsey Creek, and Lake Washington.

**We would like to meet with you to give you materials and chat briefly.**

We will be in your area between March 25 -31. We will try to reach out to set up a time or you can reach out to Laurie Devereaux, Bellevue Stream Team Program Administrator, to schedule a time at [ldevereaux@bellevuewa.gov](mailto:ldevereaux@bellevuewa.gov) or 425-452-5200. If we don't coordinate a time, we'll stop by when we are already in your neighborhood.

**We look forward to being partners in helping protect local water quality.**

Best fishes,

Laurie Devereaux  
City of Bellevue Utilities  
Water Quality, Stream Team  
425-452-5200 | [ldevereaux@bellevuewa.gov](mailto:ldevereaux@bellevuewa.gov)

# Optional Letter

DUMPSTER LID CAMPAIGN FIELD NOTES								
Business Name								
Staff name/title								
Address				City				
Dumpster Ownership		<input type="checkbox"/> Shared <input type="checkbox"/> Single <input type="checkbox"/> Other						
<b>What materials did you offer &amp; provide</b> Circle each item OFFERED <input type="checkbox"/> if declined   Leave blank if N/A								
Tier 1	letter/ email in advance	In person meeting	Sticker on Dumpster	Sign in Dumpster Area	Poster/ Door Signs	Shut It Flyer	Keep It Clean Flyer	
Tier 2	Pledge+ Window Cling	Champion	Waste Consult	Step Stool	Ground Sign	Drain Marker	Floor Sign	Other
Materials or Tool Declined/Not Used - Please explain:								
We would like to follow up with businesses in September. What is the best way to reach you?								
What is the best way to share information with employees? Is there something we could create that would be helpful?								
Any site issues or information where work is needed, or program could be improved? Any site issues that need to be followed up on?								
Are there any tools you are going to <del>to</del> return to the site to provide like floor signs?								

# Required Field Notes

- Field Notes at each business – details matter
- Capture Qualitative Data
- Helpful when you return for 6-month questionnaire

# Data Entry – Plan to enter results into Survey Monkey

## Excel

AutoSave On

Dumpster Lid Eval Form\_03.16.21 - Saved

Devereaux, Laurie

File Home Insert Page Layout Formulas Data Review View Help

Font Alignment Number Styles Cells Editing

Clipboard F13

**Business Name**

**Address** City

**Business Hours**

**Dumpster Ownership**  Shared  Single  Other

**Business Type**  Automotive  Construction  Food/Restaurant  Grocery  
 Medical/Dental  Office  Pet/Vet  Print/Paint  Retail  
 Salon/Beauty/Gym  Other

**Circle Toolkit Items** In Person Meeting Flyers X 2 Sticker on Dumpster Sign in Dumpster Area Door Signs Pledge & Info Step Stool

**Number of Dumpsters** Garbage \_\_\_\_\_ Recycling \_\_\_\_\_ Organics \_\_\_\_\_ Other \_\_\_\_\_

**Evaluation Phases**

Baseline (1 week, pre-pilot)  
 Recomend 2 check daily, AM & PM  
 Start (First 2 weeks of pilot)  
 Intermittent (Spring - fall)  
 Final (2 weeks, end of pilot)

Garbage Pick-up Day(s) Mon Tue Wed Thur Fri Sat

Recycling Pick-up Day(s) Mon Tue Wed Thur Fri Sat

Organics Pick-up Day(s) Mon Tue Wed Thur Fri Sat

Ground Sign Drain Marker Window Cling Champion Waste Consult

Date Time AM PM Eval Period # Garbage Open # Recycling Open # Organics Open # Dupsers Closed Pick-up Day? N=no Weather D (Dry) R (Raining) Notes or issues

AM / PM B/S/I/F G/R/O/N D / R

AM / PM B/S/I/F G/R/O/N D / R

AM / PM B/S/I/F G/R/O/N D / R

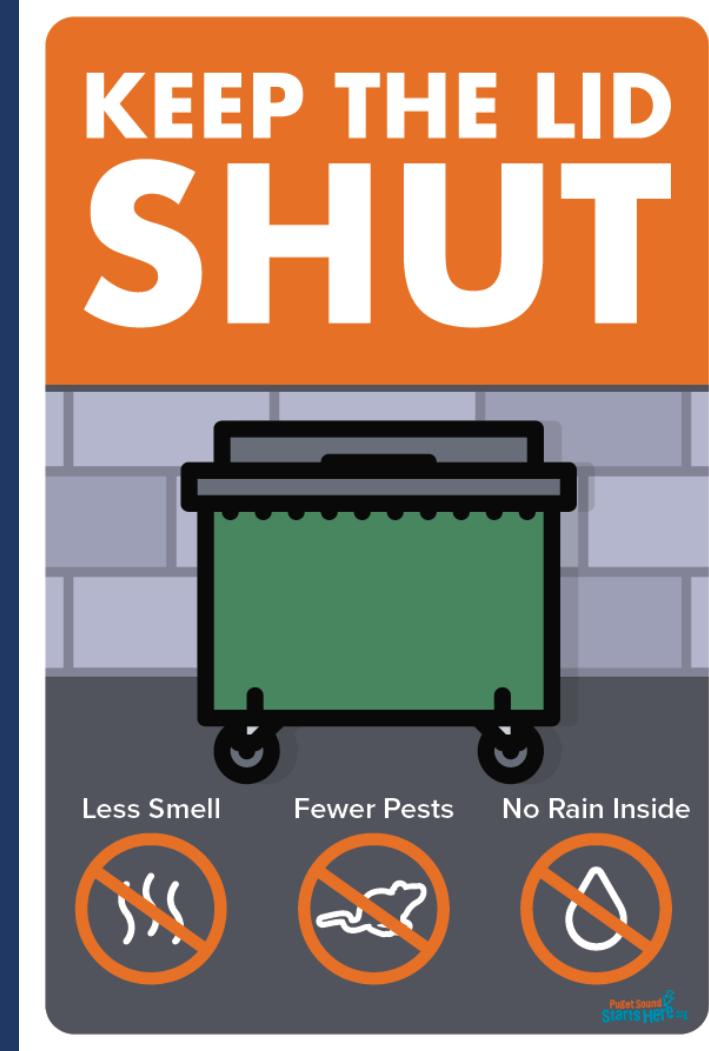
## Fillable PDF Form

<b>Business Name</b>				<b>Evaluation Phases</b>	Baseline (1 week, pre-pilot)							
Address				City	Start (First 2 weeks of pilot)							
Business Hours					Intermittent (Spring - fall)							
Dumpster Ownership		<input type="checkbox"/> Shared	<input type="checkbox"/> Single	<input type="checkbox"/> Other	Final (2 week, end of pilot)							
<b>Business Type</b>	Automotive			If other business type, please describe:								
<b>Circle Toolkit Items</b>	Information	Pledge & Info	Sticker on Dumpster	Sign in Dumpster Area	Door Signs	Step Stool	Ground Sign	Drain Marker	Window Cling	Champion	Waste Consult	Other
<b>Number of Dumpsters</b>	Garbage	Recycling	Organics									
Date	Time	AM PM	Eval Period	# Garbage Open	# Recycling Open	# Organics Open	# Dupsers Closed	Pick-up Day? N=no	Weather D (Dry) R (Raining)	Notes or issues		
		AM <input type="button" value="▼"/>	B <input type="button" value="▼"/>					N <input type="button" value="▼"/>	D <input type="button" value="▼"/>			
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		AM <input type="button" value="▼"/>	B <input type="button" value="▼"/>					N <input type="button" value="▼"/>	D <input type="button" value="▼"/>			
		AM <input type="button" value="▼"/>	B <input type="button" value="▼"/>					N <input type="button" value="▼"/>	D <input type="button" value="▼"/>			

# Sticker



# Sign & Poster



\_packets mail today!  
Should deliver by  
**March 19-23**

Everyone gets at least 2 packets\* (depending on what you requested)

\*Each packet will have

- 3 stickers
- 1 sign
- 1 door poster

Window Cling





# Print materials & Tier 2 Items

# KEEP IT CLEAN!

INFO AND TIPS TO KEEP  
YOUR DUMPSTER AREA CLEAN



## SHUT IT!

Close the lids on all of your dumpsters to reduce smells, deter pests, and keep water out. Closing lids helps prevent stormwater pollution and keeps recycling clean, empty, and dry.

Hard to reach? Find a tool that can help! Make sure your tool gets put away after each use so they do not interfere with garbage trucks. Local businesses are using:

- An outdoor stool for easy reach
- A simple pole or old tool handle to prop lids open temporarily and to flip lids open and closed



## REPORT IT!

Report broken lids, lids trapped open against a wall, or dumpster leaks as soon as possible for maintenance or replacement.

Contact Republic Services at 425-646-2492.



## CLEAN IT!

Prevent messes and be prepared to clean up immediately when they happen.

- Have a spill kit readily available that is appropriate for your business.
- Inspect and sweep around dumpsters at least once a week.



**Bellevue Utilities Hotline:**  
Report spills or water quality concerns  
to 425-452-7840

## MANAGE IT!

Manage extra or oversized recyclables or garbage promptly.

### Bulky items

- Call Republic Services for a quote: **425-646-2492**
- Visit "What Do I Do With King County" for more options [www.kingcounty.gov/whatdoidowith](http://www.kingcounty.gov/whatdoidowith)



### DROP-OFF SITE



### FLATTEN IT!

Break down your cardboard boxes to make room for more recyclables. Request a free box cutter at [recycle@bellevuewa.gov](mailto:recycle@bellevuewa.gov) or 425-452-6932.



### COVER IT!

Store used cooking oil recycling containers in a covered area or a spill containment box to reduce messes and keep out water.



### RECONSIDER IT!

Contact [recycle@bellevuewa.gov](mailto:recycle@bellevuewa.gov) or 425-452-6932 to request resources and support for waste reduction, recycling, and composting. Bellevue Utilities offers personalized assistance with waste reduction and recycling solutions that can benefit your business and our environment.



### LOCK IT!

Republic Services can provide dumpsters with lock bars. Delivery fees may apply. Fees apply for servicing locked containers. Call **Republic Services at 425-646-2492** to discuss next steps.



# Informational Flyer



**CLOSE THE LIDS ON ALL DUMPSTERS  
EVERY TIME THEY ARE USED FOR LESS SMELL,  
FEWER PESTS, AND NO RAIN INSIDE**

**CLOSE THE LIDS ON ALL DUMPSTERS  
EVERY TIME THEY ARE USED FOR LESS SMELL,  
FEWER PESTS, AND NO RAIN INSIDE**



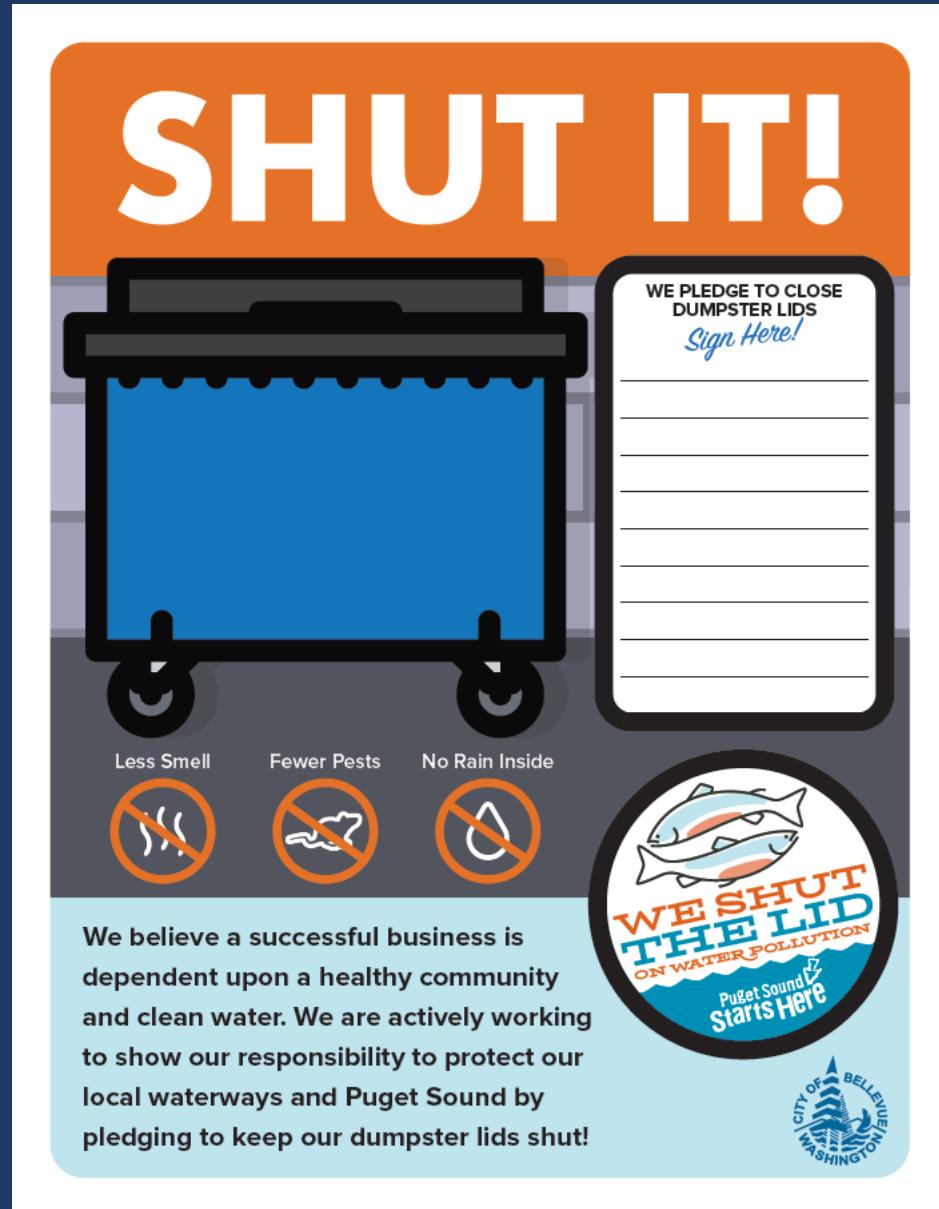
Report stormwater pollution in Bellevue to the **Utilities Hotline** at **425-452-7840**

Open dumpsters cause problems for local waterways. When lids are left open, rainwater gets in. Then dumpster juice can leak from dumpsters or pour out when it is emptied into the garbage truck. Sometimes, it even leaks from the garbage truck. When this happens, pollution from the dumpster juice gets washed into the nearest storm drain and then flows into nearby bodies of water like Lake Bellevue, Kelsey Creek, and Lake Washington.

Thank you for helping prevent pollution.  
**Bellevue Stream Team**  
[streamteam@bellevuewa.gov](mailto:streamteam@bellevuewa.gov)  
425-452-5200

ems for local  
open, rainwater  
can leak from  
it is emptied into  
s, it even leaks  
n this happens,  
uice gets washed  
nd then flows

nt pollution.



## Tier 2 Option Pledge & Window Cling





## City of Olympia Dumpster Lid Campaign \$50 Step Stool Rebate

Puget Sound is in trouble. Toxic runoff causes aquatic habitat damage, putting many of our indigenous aquatic species at risk. Most of the pollution reaching Puget Sound comes from polluted stormwater runoff. To protect water quality in Puget Sound, your businesses have adopted a dumpster area best management practice (BMP) by closing the dumpster lids every time. Closing dumpster lids every time reduces smell, reduces pests and keeps rain out! For participating in the program and pledging to close your dumpster lids every time, you are eligible for a \$50 step stool rebate.

<b>Business Information</b> <small>Please print clearly</small>		<small>Attach a copy of your purchase receipt, showing step stool model number, purchase price, date purchased and proof of payment to this form.</small>
Business Name:		
Name (check payable to):		
Mailing Address (including City, State & Zip code):		
Phone Number:		
Email:		
<b>Waiver of Liability</b>		
In consideration of voluntary participation in the dumpster behavior change campaign sponsored by City of Olympia, I hereby individually and on behalf of my heirs, executors, assigns, and personal representatives, forever release and hold harmless the City of Olympia its officials, employees, agents, volunteers, and agents and waive any right of recovery that I might have to bring a claim or lawsuit against them for any personal injury, death, or other consequences occurring to me arising out of my voluntary participation in this activity. I understand that I will be volunteering my time to work on this project and therefore will not be compensated monetarily or otherwise by City of Olympia.		
<b>Terms &amp; Conditions</b>		
Step stool must be purchased for use at a business participating in the dumpster behavior change program. Limit one rebate per participating business. Step stools purchased for less than \$50 will be rebated at the purchase price, plus applicable sales tax. Allow at least 4 weeks to process your application. Applications with missing or incomplete information will not be processed. City of Olympia staff has the right to inspect the step stool upon request.		
<b>Acceptance of Terms &amp; Conditions</b>		
Acceptance of Terms & Conditions: By signing below, I verify that I have read, understood and agree to the terms and conditions of this rebate offer as set forth above.		
Signature		Date

**Submit completed form & copy of receipt to:**

Mail: City of Olympia ATTN: Susan McCleary or Email: [smccleary@ci.olympia.wa.us](mailto:smccleary@ci.olympia.wa.us)  
PO Box 1967  
Olympia, WA 98507

FOR OFFICE USE ONLY: RECEIVED: \_\_\_\_\_ ACTION: \_\_\_\_\_ LETTER ISSUED: \_\_\_\_\_  
Approval Account Charge Code: \_\_\_\_\_ Signatures: \_\_\_\_\_

# Tier 2 Option Stool

# More Tier 2 Items!

- ✓ Pledge/Window Cling
- ✓ Step Stool
- Ground Sign
- Storm Drain Marker
- Champion
- Waste Consult
- Other



# Strip Malls



- Plan to talk to the property manager/owner in addition to tenants
  - Ask permission to install signs
  - Inform them you are reaching out to their tenants
  - Rally their support!
- Visit to each business - offer info & door poster to all businesses
- Take Field Notes for each business you visit!

# Be Prepared

- Stickers/Posters/Signs
- Flyers & Pledge sheets
- Field Data Sheets
- Installation Kit
  - Clorox Wipes
  - Gloves
  - Paper Towels
  - Garbage Bag
  - Zip ties
- Tape if using extra posters
- Logowear
- ID badge
- Business card
- Other info or swag



# Installing Stickers & Signs

- Ask property owner/manager for permission to install signs. Ask if they have preference for location.
- Signs in obvious location, easy to see from a distance. If there is not wall or enclosure for a sign, note that on your data sheet.
- Stickers on open flat area.
- Zip ties for signs if needed.



# Need more materials for Pilot?

- I can send you the files to print yourself.
- I will send a link & info for the current print vendor.
- I will send info for my graphic designer
- Floor sign & window cling will be available from current vendor as well.



# Questions?





# Dumpster Lid Campaign Launch

# Start Baseline Evaluations!



Business Name	Wilma's Diner							Evaluation Phases  Reccomend 2 check daily, AM & PM		Baseline (1 week, pre-pilot)	
Address	1718 Eat Street			City	Bellevue					Start (First 2 weeks of pilot)	
Business Hours		Fri/Sat 8-10, Sun - Thurs 8:00 - 8:00								Intermittent (Spring - fall)	
Dumpster Ownership		<input checked="" type="checkbox"/> Shared <input type="checkbox"/> Single <input type="checkbox"/> Other								Final (1 week, end of pilot)	
Business Type	Food / Res		If other business type, please describe:  Pretend you don't notice any typos						Garbage Pick-up Day(s)	<input checked="" type="checkbox"/> Mon <input type="checkbox"/> Tue <input type="checkbox"/> Wed <input checked="" type="checkbox"/> Thu <input type="checkbox"/> Fri <input type="checkbox"/> Sat	
									Recycling Pick-up Day(s)	<input type="checkbox"/> Mon <input type="checkbox"/> Tue <input type="checkbox"/> Wed <input checked="" type="checkbox"/> Thu <input checked="" type="checkbox"/> Fri <input type="checkbox"/> Sat	
Circle Toolkit Items	Information	Pledge & Info	Sticker on Dumpster	Sign in Dumpster Area	Door Signs	Step Stool	Ground Sign	Organics Pick-up Day(s)	<input type="checkbox"/> Mon <input type="checkbox"/> Tue <input checked="" type="checkbox"/> Wed <input type="checkbox"/> Thu <input type="checkbox"/> Fri <input type="checkbox"/> Sat		
Number of Dumpsters	Garbage	1	Recycling	2	Organics	1		Champion	<input type="checkbox"/> Waste Consult	Other	

Date	Time	AM PM	Eval Period	# Garbage Open	# Recycling Open	# Organics Open	# Dumpsters Closed	Pick-up Day? N=no	Weather D (Dry) R (Raining)	Notes or issues
3/1/21	9:00	AM	B	1	1	0	2	G	D	
3/1/21	4:00	PM	B	1	1	0	2	G	D	garbage overflowing
3/2/21	8:11	AM	B	0	1	1	2	N	D	
3/2/21	3:50	PM	B	1	1	1	1	N	D	
3/3/21	7:45	AM	B	0	0	0	4	N	D	
3/3/21	4:30	PM	B	1	2	1	0	N	D	

Business Name	Wilma's Diner							Evaluation Phases		<u>Baseline</u> (1 week, pre-pilot) <u>Start</u> (First 2 weeks of pilot) <u>Intermittent</u> (Spring - fall) <u>Final</u> ( <b>2 weeks</b> , end of pilot)					
Address	1718 Eat Street			City	Bellevue		Reccomend 2 check daily, AM & PM								
Business Hours	Fri/Sat 8-10, Sun - Thurs 8:00 - 8:00														
Dumpster Ownership	<input checked="" type="checkbox"/> Shared <input type="checkbox"/> Single <input type="checkbox"/> Other							Garbage Pick-up Day(s)		<input checked="" type="checkbox"/> Mon <input type="checkbox"/> Tue <input type="checkbox"/> Wed <input checked="" type="checkbox"/> Thu <input type="checkbox"/> Fri <input type="checkbox"/> Sat					
Business Type	Food / Res <input type="button" value="▼"/> If other business type, please describe:							Recycling Pick-up Day(s)		<input type="checkbox"/> Mon <input type="checkbox"/> Tue <input type="checkbox"/> Wed <input checked="" type="checkbox"/> Thu <input checked="" type="checkbox"/> Fri <input type="checkbox"/> Sat					
Circle Toolkit Items	Information	Pledge & Info	Sticker on Dumpster	Sign in Dumpster Area	Door Signs	Step Stool	Ground Sign	Drain Marker	Window Cling	Champion	Waste Consult	Other			
Number of Dumpsters	Garbage	1	Recycling	2	Organics	1									

Date	Time	AM PM	Eval Period	# Garbage Open	# Recycling Open	# Organics Open	# Dumpsters Closed	Pick-up Day? N=no	Weather D (Dry) R (Raining)	Notes or issues		
3/1/21	9:00	AM	B	1	1	0	2	G	D			
3/1/21	4:00	PM	B	1	1	0	2	G	D	garbage overflowing		
3/2/21	8:11	AM	B	0	1	1	2	N	D			
3/2/21	3:50	PM	B	1	1	1	1	N	D			
3/3/21	7:45	AM	B	0	0	0	4	N	D			
3/3/21	4:30	PM	B	1	2	1	0	N	D			

Business Name	Wilma's Diner							Evaluation Phases  Reccomend 2 check daily, AM & PM		Baseline (1 week, pre-pilot)		
Address	1718 Eat Street			City	Bellevue					Start (First 2 weeks of pilot)		
Business Hours		Fri/Sat 8-10, Sun - Thurs 8:00 - 8:00								Intermittent (Spring - fall)		
Dumpster Ownership		<input checked="" type="checkbox"/> Shared <input type="checkbox"/> Single <input type="checkbox"/> Other								Final (1 week, end of pilot)		
Business Type	Food / Res		If other business type, please describe:  Pretend you don't notice any typos						Garbage Pick-up Day(s)		<input checked="" type="checkbox"/> Mon <input type="checkbox"/> Tue <input type="checkbox"/> Wed <input checked="" type="checkbox"/> Thu <input type="checkbox"/> Fri <input type="checkbox"/> Sat	
									Recycling Pick-up Day(s)		<input type="checkbox"/> Mon <input type="checkbox"/> Tue <input type="checkbox"/> Wed <input type="checkbox"/> Thu <input checked="" type="checkbox"/> Fri <input type="checkbox"/> Sat	
								Organics Pick-up Day(s)		<input type="checkbox"/> Mon <input type="checkbox"/> Tue <input checked="" type="checkbox"/> Wed <input type="checkbox"/> Thu <input type="checkbox"/> Fri <input type="checkbox"/> Sat		
Circle Toolkit Items	Information	Pledge & Info	Sticker on Dumpster	Sign in Dumpster Area	Door Signs	Step Stool	Ground Sign	Drain Marker	Window Cling	Champion	Waste Consult	Other
Number of Dumpsters	Garbage	1		Recycling	2		Organics	1				

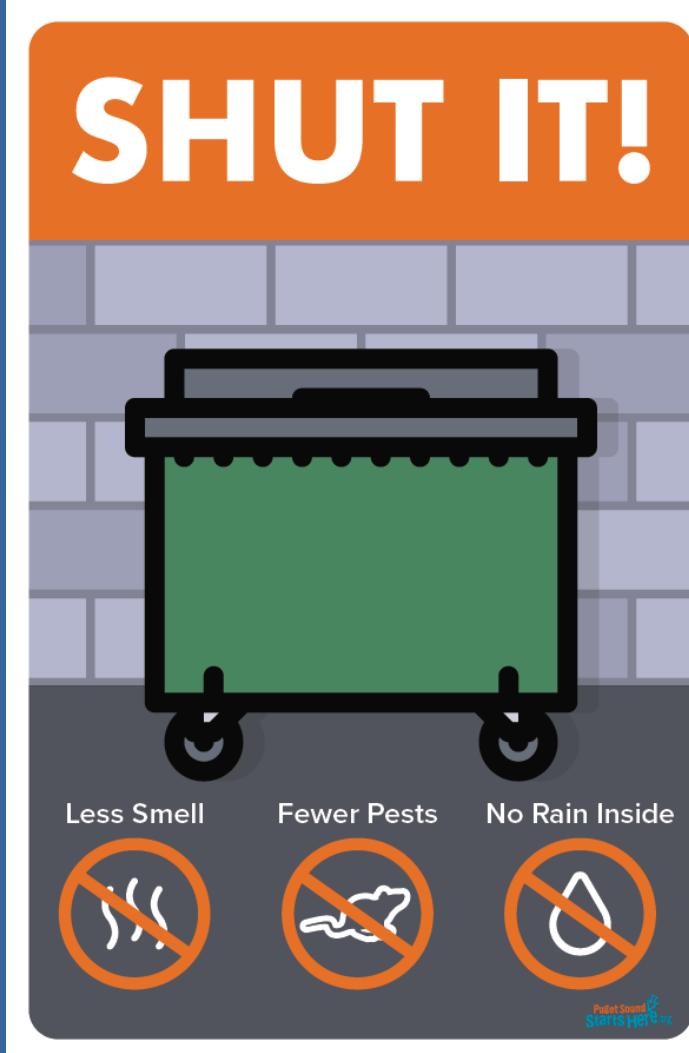
Total  
All dumpsters  
Any kind

Date	Time	AM PM	Eval Period	# Garbage Open	# Recycling Open	# Organic Open	# Dumpsters Closed	Notes
3/1/21	9:00	AM	B	1	1	0	2	G
3/1/21	4:00	PM	B	1	1	0	2	G D garbage overflowing
3/2/21	8:11	AM	B	0	1	1	2	N D
3/2/21	3:50	PM	B	1	1	1	1	N D
3/3/21	7:45	AM	B	0	0	0	4	N D
3/3/21	4:30	PM	B	1	2	1	0	N D

Business Name	Wilma's Diner							Evaluation Phases <b>Reccomend 2 check daily, AM &amp; PM</b>				
Address	1718 Eat Street			City	Bellevue							
Business Hours		Fri/Sat 8-10, Sun - Thurs 8:00 - 8:00										
Dumpster Ownership		<input checked="" type="checkbox"/> Shared <input type="checkbox"/> Single <input type="checkbox"/> Other			Garbage Pick-up Day(s)		<input checked="" type="checkbox"/> Mon <input type="checkbox"/> Tue <input type="checkbox"/> Wed <input checked="" type="checkbox"/> Thu <input type="checkbox"/> Fri <input type="checkbox"/> Sat					
Business Type	Food / Res		If other business type, please describe:					Recycling Pick-up Day(s)		<input type="checkbox"/> Mon <input type="checkbox"/> Tue <input type="checkbox"/> Wed <input checked="" type="checkbox"/> Thu <input checked="" type="checkbox"/> Fri <input type="checkbox"/> Sat		
Circle Toolkit Items	Information	Pledge & Info	Sticker on Dumpster	Sign in Dumpster Area	Door Signs	Step Stool	Ground Sign	Drain Marker	Window Cling	Champion	Waste Consult	Other
Number of Dumpsters	Garbage	1	Recycling	2	Organics	1			<b>Use notes of needed</b>			

Date	Time	AM PM	Eval Period	# Garbage Open	# Recycling Open	# Organics Open	# Dumpsters Closed	Pick-up Day? N=no	Weather D (Dry) R (Raining)	Notes or issues	
3/1/21	9:00	AM	B	1	1	0	2	G	D		
3/1/21	4:00	PM	B	1	1	0	2	G	D	garbage overflowing	
3/2/21	8:11	AM	B	0	1	1	2	N	D		
3/2/21	3:50	PM	B	1	1	1	1	N	D		
3/3/21	7:45	AM	B	0	0	0	4	N	D		
3/3/21	4:30	PM	B	1	2	1	0	N	D		

# Sticker



# Sign & Poster



Each packet will have

- 3 stickers
- 1 sign
- 1 door poster

Unless you request otherwise by noon 3/2/21, you will receive 2 packets

\_packets will arrive  
March 19-23

# Did you send your mailing address to Tally?



Request more  
stickers by noon  
3/2/21 if needed

Request more posters if  
needed too but we will try to  
make extra posters and flyers  
printable so you can create  
more as needed.



# Know Your Sites

- # of Dumpsters
- # of Businesses
- Property Owner/Manager/Tenant
- Contact Information
- How/where will you install outdoor signs



# Strip Malls



- Plan to talk to the property manager/owner in addition to tenants
  - Ask permission to install signs
  - Inform them you are reaching out to their tenants
  - Rally their support!
- Visit to each business - offer info & door poster to all businesses

# Installing Stickers & Signs

- Ask property owner/manager for permission to install signs. Ask if they have preference for location.
- Signs in obvious location, easy to see from a distance. If there is not wall or enclosure for a sign, note that on your data sheet.
- Stickers on open flat area.
- Holes and zip ties for signs if needed.



# Be Prepared

- Installation Kit
  - Clorox Wipes
  - Gloves
  - Paper Towels
  - Garbage Bag
  - Zip ties
- Tape if using extra posters
- Logowear
- ID badge
- Business card
- Other info or swag



Business Name	Wilma's Diner							Evaluation Phases  Reccomend 2 check daily, AM & PM		Baseline (1 week, pre-pilot)											
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Business Hours		Fri/Sat 8-10, Sun - Thurs 8:00 - 8:00								Intermittent (Spring - fall)											
Dumpster Ownership		<input checked="" type="checkbox"/> Shared	<input type="checkbox"/> Single	<input type="checkbox"/> Other						Final (1 week, end of pilot)											
Business Type	Fodd / Res	If other business type, please describe:						Garbage Pick-up Day(s)	<input checked="" type="checkbox"/> Mon	<input type="checkbox"/> Tue	<input type="checkbox"/> Wed	<input checked="" type="checkbox"/> Thu	<input type="checkbox"/> Fri	<input type="checkbox"/> Sat							
Circle Toolkit Items	Information	<input checked="" type="checkbox"/>	Pledge & Info	<input checked="" type="checkbox"/>	Sticker on Dumpster	<input checked="" type="checkbox"/>	Sign in Dumpster Area	<input checked="" type="checkbox"/>	Door Signs	<input checked="" type="checkbox"/>	Step Stool	Ground Sign	Drain Marker	Window Cling	Recycling Pick-up Day(s)	<input type="checkbox"/> Mon	<input type="checkbox"/> Tue	<input type="checkbox"/> Wed	<input type="checkbox"/> Thu	<input checked="" type="checkbox"/> Fri	<input type="checkbox"/> Sat
Number of Dumpsters	Garbage	1	Recycling	2	Organics	1									Organics Pick-up Day(s)	<input type="checkbox"/> Mon	<input type="checkbox"/> Tue	<input checked="" type="checkbox"/> Wed	<input type="checkbox"/> Thu	<input type="checkbox"/> Fri	<input type="checkbox"/> Sat

Date	Time	AM PM	Eval Period	# Garbage Open	# Recycling Open	# Organics Open	# Dumpsters Closed	Pick-up Day? N=no	Weather D (Dry) R (Raining)	Notes or issues
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3/1/21	4:00	PM	B	1	1	0	2	G	D	garbage overflowing
3/2/21	8:11	AM	B	0	1	1	2	N	D	
3/2/21	3:50	PM	B	1	1	1	1	N	D	
3/3/21	7:45	AM	B	0	0	0	4	N	D	
3/3/21	4:30	PM	B	1	2	1	0	N	D	



## Approach

- All carrot, no stick – we are there to help!
- Show Me & Help Me Groups
- Consider sending letter in advance – I will share mine.

# Try Tier 2 Items!

- Step Stool – waiver or voucher? \*
- Ground Sign
- Storm Drain Marker
- Champion \*
- Pledge/Window Cling \*
- Waste Consult
- Other



# Questions?



# Dumpster Lid Campaign Evaluation



# Choose Your Pilot Businesses



**Recommend 5-6 for Baseline Data**

## **Selection Criteria**

- Dumpster lids are open
- Dumpsters are fully operational (lids present and able to close)

# Dumpster Lid Evaluation Phases

## Baseline

- 1 Week
- 1-2 X per day
- Must happen before any other contact



## Start

- 2 Weeks
- 1-2 X per day
- Begin soon after pilot launch

## Intermittent

- Frequency TBD
- 1 X per day
- Between Start & Final

## Final

- 2 Weeks
- 1-2 X per day
- Fall 2021



# Dumpster Lid Evaluation Form – Field Sheet

<b>Business Name</b>								<b>Evaluation Phases</b>		<u>Baseline</u> (1 week, pre-pilot) <u>Start</u> (First 2 weeks of pilot) <u>Intermittent</u> (Spring - fall) <u>Final</u> (1 week, end of pilot)				
<b>Address</b>								Reccomend 2 check daily, AM & PM						
<b>Business Hours</b>														
<b>Dumpster Ownership</b>		<input type="checkbox"/> Shared <input type="checkbox"/> Single <input type="checkbox"/> Other			<b>Garbage Day</b>		Mon	Tue	Wed	Thu	Fri	Sat		
<b>Business Type</b>		<input type="checkbox"/> Automotive <input type="checkbox"/> Construction <input type="checkbox"/> Food/Restaurant <input type="checkbox"/> Grocery <input type="checkbox"/> Medical/Dental <input type="checkbox"/> Office <input type="checkbox"/> Pet/Vet <input type="checkbox"/> Print/Paint <input type="checkbox"/> Retail <input type="checkbox"/> Salon/Beauty/Gym <input type="checkbox"/> Other:												
<b>Circle Toolkit Items</b>	<b>Information</b>	<input type="checkbox"/> Pledge & Info	<input type="checkbox"/> Sticker on Dumpster	<input type="checkbox"/> Sign in Dumpster Area	<input type="checkbox"/> Door Signs	<input type="checkbox"/> Step Stool	<input type="checkbox"/> Ground Sign	<input type="checkbox"/> Drain Marker	<input type="checkbox"/> Window Cling	<input type="checkbox"/> Champion	<input type="checkbox"/> Waste Consult	<input type="checkbox"/> Other		
<b>Number of Dumpsters</b>		<b>Garbage</b>	_____	<b>Recycling</b>	_____	<b>Organics</b>	_____							

<b>Date</b>	<b>Time</b>	AM PM	Eval Period	# Garbage Open	# Recycling Open	# Organics Open	# Dupsters Closed	Garbage Day?	Weather D (Dry) R (Raining)	Notes or issues		
		AM / PM	B/S/I/F					Y / N				
		AM / PM	B/S/I/F					Y / N				
		AM / PM	B/S/I/F					Y / N				
		AM / PM	B/S/I/F					Y / N				
		AM / PM	B/S/I/F					Y / N				

# Additional Evaluation Action

- Updated & fillable form coming soon
- Submit data - *stay tuned for details on how*

# Final Qualitative Questionnaire (Fall 2021)

- In-person follow up with pilot businesses
- Questionnaire will be provided

# Timeline

Date(s)	Task	Notes
<b>by February 19</b>	Identify 5-6 businesses to target (*even if I'm only piloting with 2)	Quick "windshield survey"
<b>February 22-26</b>	Prepare Forms	<ul style="list-style-type: none"> <li>✓ Fill out top of evaluation form for each pre-campaign survey business.</li> <li>✓ Send to staff performing evaluation if not you.</li> </ul>
<b>February 22-26</b>	Plan Baseline Evaluation Schedule	<ul style="list-style-type: none"> <li>✓ Plan out schedule for self or staff to check dumpster lids at each business 1-2 times per day for 1 week. The more data the better. Recommendation is 2x per day, AM &amp; PM.</li> <li>✓ Include weekends if business is open on weekends.</li> </ul>
<b>March 1-7</b>	<p>Baseline Evaluation Surveys</p> <p>These evaluations must be completed before start of campaign and prior to any communications with pilot participants.</p>	<p>*Evaluate 5 or 6 businesses if possible, even though I will pilot 2, just in case they:</p> <ol style="list-style-type: none"> <li>1. Won't participate in pilot.</li> <li>2. Put their lid down all the time during the pre-campaign evaluation and are therefore not a good candidate for the campaign.</li> <li>3. Some other unknown reason that makes them not a good pilot candidate.</li> </ol> <p>Any businesses you do not use for your pilot can be saved for implementation after the pilot. You may also choose to continue evaluating them along with your pilot businesses as a control.</p>
<b>March 9-19</b>	Decide which businesses to use for Pilot.	Reach out and schedule visits with businesses as needed.
<b>March 22-31</b>	Implement Campaign Pilot	Have at least 1 business implementation completed and any others to have date/time scheduled.
<b>April 1 –depending on when businesses start campaign.</b>	Start of Campaign Evaluation	Schedule evaluation 1-2 times a day for 1-2 weeks after the start of implementation

# SHUT IT!



## To Do

- Send address to Tally if you want pilot materials
- Plan when/how/who will do your evaluations

## Next

- Decide on tier 2 Items – stool, strap, other
- March 2<sup>nd</sup> Launch Meeting

# Questions?



## Dumpster Lid Social Marketing Campaign 2021

### Baseline (before campaign start) Evaluation Plan

Date(s) / Staff	Task	Notes
<b>Mar 5</b> JA	Identify 5-6 businesses to target	<p><u>Quick “windshield survey”</u></p> <p>Business candidates for pilot must have:</p> <ul style="list-style-type: none"> <li>✓ Dumpster lids open!</li> <li>✓ Dumpsters that are fully operational (lids present and able to close.)</li> </ul>
<b>Mar 5</b> JA	Prepare Forms	<ul style="list-style-type: none"> <li>✓ Fill out top of evaluation form for each pre-campaign survey business.</li> <li>✓ 1 copy for Andrea; one for JA for each one.</li> </ul>
<b>Mar 8-14 (Sun-Fri)</b> JA & AS	Conduct Baseline Evaluation Surveys	<ul style="list-style-type: none"> <li>✓ JA - AM Mon-Fri</li> <li>✓ AS - PM Mon-Fri one AM/one PM for Sat/Sun</li> <li>✓ AS – weekend if business is open on weekends</li> </ul> <p>*Evaluate 5 or 6 businesses if possible, even though I will pilot 2, just in case they:</p> <ol style="list-style-type: none"> <li>1. Won’t participate in pilot.</li> <li>2. Put their lid down all the time during the pre-campaign evaluation and are therefore not a good candidate for the campaign.</li> <li>3. Some other unknown reason that makes them not a good pilot candidate.</li> </ol> <p><i>Any businesses you do not use for your pilot can be saved for implementation after the pilot. You may also choose to continue evaluating them along with your pilot businesses as a control.</i></p> <p><i>These evaluations must be completed before start of campaign and prior to any communications with pilot participants.</i></p>
<b>March 15-19</b> JA	Decide which businesses to use for Pilot.	Reach out and schedule visits with businesses as needed.
<b>March 22- April 9</b> Consultant	Implement Campaign Pilot	Have at least 1 business implementation completed and any others to have date/time scheduled.
<b>Random Apr 10-XXX</b> JA / AS / Field Staff	Start of Campaign Evaluation	<p>Intermittent until Fall</p> <p><b>**Start date depends on when businesses start campaign.</b></p>
<b>2 weeks** Sept 1-15 (tentative dates)</b> MG	Final Evaluation	Schedule evaluation 1-2 times a day for 2 weeks after the start of implementation



# CITY OF MUKILTEO

2019 Permit Section S5.C.2  
Stewardship Opportunities  
2021 City of Mukilteo Activities

Activity	Activity Description
<b>Storm Drain Marking Program</b>	Provide opportunities and materials for residents and businesses to install “No Dumping / Drains to Stream” medallions near catch basins. Advertised on website. Typically, this program is advertised at other in-person events throughout the year. Due to several factors related to COVID, this program is offered through the city’s stewardship webpage. <a href="https://mukilteowa.gov/departments/public-works/surface-water/stewardship/">https://mukilteowa.gov/departments/public-works/surface-water/stewardship/</a>

OID	AssetID	Status	DIAMETER	MATERIAL
0	OF002	Active	36	No Data
1	OF003	Active	18	Corrugated Metal Pip
2	OF004	Active	12	HDPE Corrugated
3	OF005	Active	12	High Density Polyeth
4	OF006	Active	12	HDPE Smooth
5	OF007	Active	12	HDPE Corrugated
6	OF008	Active	12	HDPE Corrugated
7	OF009	Active	18	HDPE Corrugated
8	OF011	Active	18	CMP Cor Metal
9	OF012	Active	30	Reinforced Concrete
10	OF013	Active	6	PVC Smooth
11	OF014	Active	12	Corrugated Metal Pip
12	OF015	Active	15	Corrugated Metal Pip
13	OF016	Active	12	HDPE Corrugated
14	OF017	Active	12	CMP Cor Metal
15	OF018	Active	12	CMP Cor Metal
16	OF019	Active	24	Corrugated Metal Pip
17	OF021	Active	24	Corrugated Metal Pip
18	OF022	Active	12	Concrete
19	OF023	Active	18	CMP Cor Metal
20	OF024	Active	24	CMP Cor Metal
21	OF025	Active	12	HDPE Corrugated
22	OF026	Active	12	HDPE Corrugated
23	OF027	Active	24	Concrete
24	OF028	Active	36	CMP Cor Metal
25	OF029	Active	30	Reinforced Concrete
26	OF030	Active	12	Biofiltration Swale
27	OF031	Active	12	HDPE Corrugated
28	OF032	Active	12	HDPE Smooth
29	OF034	Active	12	No Data
30	OF035	Active	12	Biofiltration Swale
31	OF036	Active	18	Reinforced Concrete
32	OF037	Active	12	No Data
33	OF038	Active	15	No Data
34	OF040	Active	12	High Density Polyeth
35	OF041	Active	54	Corrugated Metal Pip
36	OF042	Active	12	Polyvinyl Chloride
37	OF043	Active	12	CMP Cor Metal
38	OF044	Active	24	Concrete
39	OF045	Active	12	Reinforced Concrete
40	OF046	Active	12	HDPE Corrugated
41	OF047	Active	8	HDPE Smooth
42	OF048	Active	12	No Data
43	OF049	Active	12	Reinforced Concrete
44	OF051	Active	24	Corrugated Metal Pip
45	OF052	Active	24	CMP Cor Metal
46	OF053	Active	4	PVC Smooth
47	OF054	Active	12	No Data
48	OF056	Active	18	HDPE Corrugated
49	OF058	Active	12	No Data
50	OF059	Active	24	No Data
51	OF060	Active	12	Ditch
52	OF061	Active	10	HDPE Corrugated
53	OF062	Active	36	Concrete
54	OF063	Active	36	No Data
55	OF064	Active	20	HDPE Smooth
56	OF065	Active	12	No Data
57	OF067	Active	18	No Data
58	OF068	Active	20	No Data
59	OF069	Active	16	HDPE Corrugated
60	OF070	Active	12	No Data

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61	OF071	Active	12	No Data
62	OF073	Active	36	CMP Cor Metal
63	OF078	Active	18	HDPE Smooth
64	OF081	Active	12	Level Spreader
65	OF082	Active	0	No Data
66	OF083	Active	12	HDPE Corrugated
67	OF084	Active	6	Perforated PVC
68	OF085	Active	12	HDPE Smooth
69	OF087	Active	12	CMP Cor Metal
70	OF089	Active	12	CMP Cor Metal
71	OF090	Active	12	CMP Cor Metal
72	OF091	Active	12	No Data
73	OF092	Active	12	CMP Cor Metal
74	OF093	Active	12	CMP Cor Metal
75	OF094	Active	18	CMP Cor Metal
76	OF095	Active	12	Biofiltration Swale
77	OF096	Active	12	CMP Cor Metal
78	OF097	Active	15	Concrete
79	OF098	Active	12	Ductal Iron
80	OF099	Active	12	No Data
81	OF100	Active	18	CMP Cor Metal
82	OF101	Active	18	CMP Cor Metal
83	OF102	Active	12	No Data
84	OF103	Active	12	No Data
85	OF104	Active	18	No Data
86	OF105	Active	12	CMP Cor Metal
87	OF106	Active	12	Concrete
88	OF107	Active	18	CMP Cor Metal
89	OF108	Active	12	Concrete
90	OF109	Active	15	CMP Cor Metal
91	OF110	Active	12	Concrete
92	OF111	Active	12	CMP Cor Metal
93	OF112	Active	12	No Data
94	OF113	Active	12	No Data
95	OF114	Active	0	Concrete
96	OF115	Active	12	HDPE Smooth
97	OF116	Active	12	No Data
98	OF118	Active	18	HDPE Smooth
99	OF119	Active	12	No Data
100	OF120	Active	12	No Data
101	OF121	Active	12	No Data
102	OF122	Active	12	Biofiltration Swale
103	OF123	Active	12	No Data
104	OF124	Active	30	No Data
105	OF126	Active	12	Disp./Infil. Trench
106	OF127	Active	18	HDPE Smooth
107	OF128	Active	21	
108	OF129	Active	18	Concrete
109	OF130	Active	12	Concrete
110	OF131	Active	12	HDPE Smooth
111	OF132	Active	18	HDPE Smooth
112	OF133	Active	12	HDPE Smooth
113	OF134	Active	18	HDPE Corrugated
114	OF135	Active	8	HDPE Corrugated
115	OF136	Active	24	HDPE Smooth
116	OF138	Active	12	No Data
117	OF139	Active	6	PVC Smooth
118	OF140	Active	16	HDPE Smooth
119	OF142	Active	12	CMP Cor Metal
120	OF145	Active	12	CMP Cor Metal
121	OF146	Active	12	CMP Cor Metal
122	OF147	Active	8	HDPE Corrugated

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123 OF148 Active	18 No Data
124 OF149 Outside City	18 No Data
125 OF150 Active	12 No Data
126 OF151 Active	18 No Data
127 OF152 Active	12 No Data
128 OF153 Active	0 No Data
129 OF154 Active	23 No Data
130 OF155 Active	12 No Data
131 OF156 Active	18 No Data
132 OF157 Active	18 No Data
133 OF158 Active	0 No Data
134 OF159 Active	0 No Data
135 OF160 Active	12 No Data
136 OF161 Active	0 No Data
137 OF162 Active	12 No Data
138 OF163 Active	12 CMP Cor Metal
139 OF164 Active	0 No Data
140 OF165 Active	24 No Data
141 OF166 Active	16 HDPE Corrugated
142 OF167 Active	15 HDPE Corrugated
143 OF169 Active	36 HDPE Corrugated
144 OF170 Active	18 CMP Cor Metal
145 OF171 Active	6 No Data
146 OF172 Active	12 CMP Cor Metal
147 OF173 Active	24 Concrete
148 OF174 Active	0 No Data
149 OF175 Active	12 Level Spreader
150 OF176 Active	24 No Data
151 OF177 Active	30 Concrete
152 OF178 Active	12 Concrete
153 OF179 Active	30 Concrete
154 OF180 Active	15 Concrete
155 OF181 Active	0 No Data
156 OF182 Active	24 Concrete
157 OF183 Active	36 No Data
158 OF184 Active	15 No Data
159 OF185 Active	12 Concrete
160 OF186 Active	48 Concrete
161 OF187 Active	30 Concrete
162 OF188 Active	8 No Data
163 OF189 Active	18 No Data
164 OF190 Active	8 No Data
165 OF191 Active	12 No Data
166 OF192 Active	36 No Data
167 OF193 Active	18 Concrete
168 OF194 Active	6 PVC Smooth
169 OF195 Active	12 HDPE Corrugated
170 OF196 Active	6 Perforated PVC
171 OF197 Active	6 Perforated PVC
172 OF198 Active	4 Biofiltration Swale
173 OF199 Active	4 Biofiltration Swale
174 OF200 Active	12 Biofiltration Swale
175 OF201 Active	12 Biofiltration Swale
176 OF202 Active	12 Biofiltration Swale
177 OF203 Active	12 Biofiltration Swale
178 OF204 Active	12 No Data
179 OF205 Active	8 PVC Smooth
180 OF206 Active	12 No Data
181 OF207 Active	24 PVC Smooth
182 OF209 Active	18 No Data
183 OF210 Active	42 CMP Cor Metal
184 OF211 Active	6 PVC Smooth

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185	OF212	Active	12	No Data
186	OF213	Active	18	Ditch
187	OF214	Active	18	No Data
188	OF215	Active	12	HDPE Corrugated
189	OF216	Active	8	HDPE Corrugated
190	OF217	Active	12	No Data
191	OF218	Active	8	Ductal Iron
192	OF219	Active	12	Ductal Iron
193	OF220	Active	6	PVC Smooth
194	OF221	Active	15	No Data
195	OF222	Active	15	CMP Cor Metal
196	OF223	Active	24	HDPE Corrugated
197	OF224	Active	6	Level Spreader
198	OF227	Active	24	Concrete
199	OF228	Active	24	Concrete
200	OF229	Active	18	Concrete
201	OF230	Active	15	Concrete
202	OF231	Active	12	Concrete
203	OF232	Active	30	Concrete
204	OF233	Active	18	Concrete
205	OF234	Active	12	Biofiltration Swale
206	OF235	Active	12	Concrete
207	OF236	Active	12	No Data
208	OF237	Active	12	Concrete
209	OF238	Active	12	HDPE Smooth
210	OF239	Active	18	No Data
211	OF241	Active	12	CMP Cor Metal
212	OF242	Active	12	No Data
213	OF243	Active	12	PVC Smooth
214		Active	0	PVC Smooth
215	OF	Abandoned	0	PVC Smooth
216	OF244	Active	24	Concrete
217	OF246	Active	0	PVC Smooth
218	OF247	Active	0	PVC Smooth
219			6	PVC Smooth
220	OF249	Active	12	See Comment
221	OF250	Active	4	PVC Smooth
222	OF251	Active	0	PVC Smooth
223	OF252	Active	0	PVC Smooth
224	OF253	Active	12	PVC Smooth
225	OF254	Active	12	PVC Smooth
226	OF254	Active	12	PVC Smooth
227	OF256	Active	36	Concrete
228	OF257	Active	0	PVC Smooth
229	OF258	Active	24	PVC Smooth
230	OF259	Active	18	PVC Smooth
231	OF260	Active	0	PVC Smooth
232	OF261	Active	40	PVC Smooth
233	OF262	Active	0	PVC Smooth
234	OF263	Active	0	PVC Smooth
235	OF264	Active	0	PVC Smooth
236	OF265	Active	0	PVC Smooth
237	OF266	Active	12	PVC Smooth
238	OF267	Active	12	PVC Smooth
239	OF268	Active	12	PVC Smooth
240	OF269	Active	6	PVC Smooth
241	OF270	Active	0	PVC Smooth
242	OF271	Active	0	PVC Smooth
243	OF272	Active	0	PVC Smooth
244	OF273	Active	0	PVC Smooth
245	OF274	Active	0	No Data
246	OF275	Active	0	PVC Smooth



247	OF276	Active	0	PVC Smooth
248	OF277	Active	0	PVC Smooth
249	OF278	Active	0	PVC Smooth
250	OF279	Active	0	PVC Smooth
251	OF280	Active	0	PVC Smooth
252	OF281	Active	0	PVC Smooth
253	OF282	Active	12	PVC Smooth
254	OF283	Active	0	No Data
255	OF284	Active	8	PVC Smooth
256	OF285	Active	6	PVC Smooth
257	OF286	Active	6	PVC Smooth
258	OF287	Active	4	PVC Smooth
259	OF288	Active	12	Concrete
260	OF289	Active	12	Concrete
261	OF290	Active	12	HDPE Corrugated
262	OF291	Active	12	CMP Cor Metal
263	OF292	Active	12	PVC Smooth
264	OF293	Active	10	PVC Smooth
265	OF294	Active	20	Perforated PVC
266	OF295	Active	12	PVC Smooth
267	OF296	Active	0	See Comment
268	OF297	Active	12	PVC Smooth
269	OF298	Active	8	HDPE Corrugated
270	OF299	Active	8	HDPE Corrugated
271	OF300	Active	0	PVC Smooth
272	OF301	Active	6	PVC Smooth
273	OF302	Active	6	PVC Smooth
274	OF303	Active	24	Perforated CMP
275	OF304	Active	0	PVC Smooth
276	OF305	Active	0	PVC Smooth
277	OF306	Active	0	PVC Smooth
278	OF307	Active	0	No Data
279	OF308	Active	0	No Data
280	OF226	Active	24	Concrete
281	OF309	Active	0	No Data
282	OF310	Active	0	No Data
283	OF311	Active	4	PVC Smooth
284	OF312	Active	4	PVC Smooth
285	OF313	Active	4	PVC Smooth
286	OF314	Active	4	PVC Smooth
287	OF315	Active	4	PVC Smooth
288	OF316	Active	4	PVC Smooth
289	OF317	Active	4	PVC Smooth
290	OF318	Active	4	PVC Smooth
291	OF319	Active	4	PVC Smooth
292	OF320	Active	4	PVC Smooth
293	OF321	Active	4	PVC Smooth
294	OF322	Active	4	PVC Smooth
295	OF323	Active	4	PVC Smooth
296	OF324	Active	4	PVC Smooth
297	OF325	Active	4	PVC Smooth
298	OF326	Active	4	PVC Smooth
299	OF327	Active	4	PVC Smooth
300	OF328	Active	4	PVC Smooth
301	OF329	Active	4	PVC Smooth
302	OF330	Active	4	PVC Smooth
303	OF331	Active	4	PVC Smooth
304	OF332	Active	4	PVC Smooth
305	OF333	Active	4	PVC Smooth
306	OF334	Active	4	PVC Smooth
307	OF335	Active	4	PVC Smooth
308	OF336	Active	4	PVC Smooth



309 OF337 Active	4 PVC Smooth
310 OF338 Active	4 PVC Smooth
311 OF339 Active	4 PVC Smooth
312 OF340 Active	4 PVC Smooth
313 OF341 Active	4 PVC Smooth
314 OF342 Active	4 PVC Smooth
315 OF343 Active	4 PVC Smooth
316 OF344 Active	4 PVC Smooth
317 OF345 Active	4 PVC Smooth
318 OF346 Active	4 PVC Smooth
319 OF347 Active	4 PVC Smooth
320 OF348 Active	4 PVC Smooth
321 OF349 Active	12 PVC Smooth
322 OF349 Active	12 PVC Smooth
323 OF350 Active	12 No Data
324 OF351 Active	6 PVC Smooth
325 OF352 Active	4 PVC Smooth
326 OF353 Active	18 Concrete
327 OF354 Active	15 Concrete
328 OF355 Active	12 Concrete
329 OF356 Active	12 No Data
330 OF357 Active	18 Concrete
331 OF358 Active	40 Concrete
332 OF359 Active	0 No Data
333 OF360 Active	24 No Data
334 OF361 Active	0 No Data
335 OF362 Active	36 Concrete
336 OF363 Active	0 No Data
337 OF364 Active	24 Concrete
338 OF365 Active	42 No Data
339 OF366 Active	42 No Data
340 OF367 Active	24 No Data
341 OF368 Active	24 Concrete
342 OF369 Outside City	12 HDPE Smooth
343 OF370 Outside City	0 No Data
344 OF371 Outside City	30 Concrete
345 OF372 Outside City	36 Concrete
346 OF373 Outside City	0 No Data
347 OF374 Active	10 Concrete
348 OF Active	0
349 OF375 Active	8 PVC Smooth

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## MEMORANDUM

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DATE: March 4 2022  
TO: Department of Ecology  
FROM: Jennifer Adams, Surface Water Programs Manager  
RE: 2021 NPDES Annual Report – Explanations for “No” and “Not Applicable” Answers

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Question 18: Answered “Not Applicable.” This is not to be construed as an area of non-compliance since the deliverable is not due during the reporting period.

Question 31: Answered “Not Applicable.” This is not to be construed as an area of non-compliance since the deliverable is not due during the reporting period. Progress is being made on this deliverable.

Question 44: Answered “Not Applicable.” This is not to be construed as an area of non-compliance since the deliverable is not due during the reporting period.

Question 48a: Answered “No” because the city meets the permit condition by inspecting only sites that have a high potential for sediment transport (answered “Yes” in Question 48 above).

Question 57: Answered “N/A” because this requirement is not due until June 30, 2022. This is not to be construed as an area of non-compliance since the deliverable is not due during the reporting period.

Question 59a: Answered “Not Applicable” because there were no maintenance time frame exceedances beyond Permittee’s control. This is not to be construed as an area of non-compliance.

Question 61a: Answered “Not Applicable” because the requirement is met through the option to conduct annual inspections (as indicated in Question 61). This is not to be construed as an area of non-compliance.

Question 64: Answered “Not Applicable” because the requirement is met through the Permit option to conduct annual inspections (as shown in Question 63). This is not to be construed as an area of non-compliance.

Question 67: Answered “Not Applicable” because the requirement is met through the Permit option to conduct annual inspections (as shown in Question 66). This is not to be construed as an area of non-compliance.

Question 69: Answered “Not Applicable” because the requirement is not due until December 31, 2022. This is not to be construed as an area of non-compliance since the deliverable is not due during the reporting period.

Questions 73-77 and 78-81: Answered “Not Applicable” to each of these questions. This is not to be construed as an area of non-compliance since the deliverables are not due during the reporting period.

Question 86-87: Answered “Not Applicable.” The City met the Permit requirements through the Permit options to pay for cost-sharing for SAM status and trends monitoring and effectiveness and source identification studies (as shown in Questions 82 and 84).

Questions 88-94: Answered “Not Applicable.” The City did not have any events that required action under these permit sections. These are not to be construed as areas of non-compliance.