



Annual Report

| Number | Permit Section | Question |
|--------|-------------------|--|
| 1 | S5.A.2 | Attach updated annual Stormwater Management Program Plan (SWMP Plan). (S5.A.2) Saved Document Name: 2018_MLT_Stormwater Management_1_03272018085827 |
| 2 | S9.D.5 | 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.5. Not Applicable |
| 3 | S5.A.3 | Implemented an ongoing program to gather, track, and maintain information per S5.A.3, including costs or estimated costs of implementing the SWMP. Yes Comment: Development and implementation costs for each component of the SWMP is being tracked and is available to Ecology upon request. The City tracks inspections, official enforcement actions, and public education activities. |
| 4 | S5.A.5.b | Coordinated among departments within the jurisdiction to eliminate barriers to permit compliance. (S5.A.5.b) Yes Comment: Mountlake Terrace's stormwater program is led by the Stormwater Program Manager, who is responsible for internal coordination at the City. This is accomplished in a number of different ways, including: <ul style="list-style-type: none"> • Meetings organized by the stormwater program manager to discuss and document specific stormwater compliance activities such as IDDE, stormwater facility inspections, and LID implementation (among other topics.) • Training regarding stormwater permit requirements through an on-going dialog with the O&M crews, utility supervisors, and the Public Works Operation Manager. • Discussion with the Public Works Director, who in turn communicates important stormwater issues to his manager, the City Manager. • Sharing of citywide stormwater issues with other departments, including the Community and Economic Development (land use planning) team, Parks department, Operations and Maintenance, Fire, and the Engineering team. • Input from representatives from several city departments associated with the update to the current Stormwater Comprehensive Plan, to be completed by the end of 2018. Several different job categories in the city are involved with stormwater protection. Plan reviewers determine whether permit requirements regarding development are being followed, construction inspectors are charged with overseeing erosion control on construction sites, maintenance supervisors are in charge of inspection of the City's MS4s and ensuring maintenance records are kept up-to-date. Coordination with the City's Community Relations Specialist is important to implement part of the public outreach portion of the permit through community events, social media, notices, and the city newsletter "City Happenings." The Parks and Recreation Department is responsible for organizing and managing volunteer stewardship activities to support stormwater protection goals. All fertilizer application in City parks is carried out by licensed staff operators who receive training on how to apply the minimum amount necessary. The Stormwater Program Manager is responsible for working with all of these departments to ensure that the requirements of the citywide stormwater permit are met and documented. |
| 5 | S5.C.1.a.i and ii | Attach description of public education and outreach efforts conducted per S5.C.1.a.i and ii. Saved Document Name: Item 5 Public education and ou_5_03272018085900 |
| 6 | S5.C.1.b | Created stewardship opportunities (or partnered with others) to encourage resident participation in activities such as those described in S5.C.1.b. Yes |
| 7 | S5.C.1.b | Used results of measuring the understanding and adoption of targeted behaviors among at least one audience in at least one subject area to direct education and outreach resources and evaluate changes in adoption of targeted behaviors. (Required no later than February 2, 2016, S5.C.1.b) Yes |
| 8 | S5.C.2.a | Describe the opportunities created for the public to participate in the decision making processes involving the development, implementation and updates of the Permittee's SWMP. (S5.C.2.a) The City continues to participate in a cooperative effort in the greater Lake Ballinger/McAleer Creek watershed to implement a comprehensive Strategic Action Plan addressing stormwater related issues including water quality. The effort includes the cities of Edmonds, Lake Forest Park, and Snohomish County along with several interest groups in the watershed. The City of Lynnwood also participates by sending stormwater staff to the meetings. The City of Mountlake Terrace provides all administrative support to these |
| 9 | S5.C.2.b | Posted the updated SWMP Plan and latest annual report on your website no later than May 31. (S5.C.2.b) Yes |
| 9b | S5.C.2.b | List the website address. http://wa-mountlaketerrace.civicplus.com/367/National-Pollution-Discharge-Elimination |
| 10 | | Maintained a map of the MS4 including the requirements listed in S5.C.3.a.i.-vi. |

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|--------|-----------------|--|
| | S5.C.3.a.i - vi | Yes Comment: Yes. All items listed in S5.C.3.a.i.-vi have been mapped and can be displayed in a GIS format. This includes outfalls, discharge points, receiving waters other than ground water, stormwater treatment and flow control BMPs/ facilities owned or operated by the City, tributary conveyances to all known outfalls and discharge points with a 24 inch diameter or larger, connections to the MS4 authorized after February 16, 2007, and connections between the MS4 and other municipalities or public entities. The city makes this information available to the Department of Ecology, federally-recognized Indian Tribes, municipalities, and other Permittees upon request. There are no geographical areas served that do not discharge to surface waters. |
| 11 | S5.C.3.b.v | Implemented a compliance strategy, including informal compliance actions as well as enforcement provisions of the regulatory mechanism described in S5.C.3.b. (S5.C.3.b.v) Yes |
| 12 | S5.C.3.b.vi | Updated, if necessary, the regulatory mechanism to effectively prohibit illicit discharges into the MS4 per S5.C.3.b.vi. (Required no later than February 2, 2018) Yes Comment: The Mountlake Terrace illicit discharge detection and elimination code was reviewed against the NPDES permit 2012-2019 requirements November 2017, and the code was found to be sufficient to meet the requirements of Section S5.C.3. The code reviewed was Chapter 16.21 Illicit Discharge Detection and Elimination and Operation, Maintenance, and Inspection of Storm Drainage Facilities. |
| 12b | | Cite the Prohibited Discharges code reference MTMC 16.21.050.B (http://www.codepublishing.com/WA/MountlakeTerrace/#!/MountlakeTerrace16/MountlakeTerrace1621.html#16.21) |
| 13 | S5.C.3.c.i | Implemented procedures for conducting illicit discharge investigations in accordance with S5.C.3.c.i. Yes |
| 13b | S5.C.3.c.i | Cite methodology The City follows the procedures for conducting illicit discharge investigations as described in the Illicit Connection and Illicit Discharge Field Screening and Source Tracing Guidance Manual (prepared by King County, the Washington Stormwater Center, and Herrera Environmental Consultants, Inc. in 2013. Specifically, illicit discharges are identified using both catch basin/manhole inspections (during regularly scheduled inspections and cleaning of the MS4) and outfall inspections. |
| 14 | S5.C.3.c.i | Percentage of MS4 coverage area screened in reporting year per S5.C.3.c.i. (Required to screen 40% of MS4 no later than December 31, 2017 (except no later than June 30, 2018 for the City of Aberdeen) and 12% on average each year thereafter. (S5.C.3) 50 |
| 15 | S5.C.3.c.ii | List the hotline telephone number for public reporting of spills and other illicit discharges. (S5.C.3.c.ii) The listed and publicized hotline for the public reporting of spills and other illicit discharges: (425) 670-8264 Monday-Friday 7AM-3:30PM 911 after hours, and on weekends/holidays. The hotline number is posted the City web page: http://wa-mountlaketerrace.civicplus.com/333/Public-Works |
| 15b | S5.C.3.c.ii | Number of hotline calls received. 3 |
| 16 | S5.C.3.c.iii | Implemented an ongoing illicit discharge training program for all municipal field staff per S5.C.3.c.iii. Yes |
| 17 | S5.C.3.c.iv | Informed public employees, businesses, and the general public of hazards associated with illicit discharges and improper disposal of waste. (S5.C.3.c.iv) Yes |
| 17b | S5.C.3.c.iv | Describe the information sharing actions. (S5.C.3.c.iv) Regular contact has been made with businesses and the general public on hazards associated with illicit discharges and improper disposal of waste. This includes press releases and newsletter articles in 2017 relating to pet waste and community clean-up events. The City contracts with a third party (ECOSS) to provide pollution prevention outreach to businesses since 2013. |
| 18 | S5.C.3.d | Implemented an ongoing program to characterize, trace, and eliminate illicit discharges into the MS4 per S5.C.3.d. Yes |
| 19 | S5.C.3.d.iv | Number of illicit discharges, including illicit connections, eliminated during the reporting year. (S5.C.3.d.iv) 1 |
| 20 | S5.C.3.d.iv | |

| Number | Permit Section | Question |
|--------|------------------------|---|
| | | <p>Attach a summary of actions taken to characterize, trace and eliminate each illicit discharge found by or reported to the permittee. For each illicit discharge, include a description of actions according to required timeline per S5.C.3.d.iv</p> <p>Saved Document Name: Item 20 IDDE incident descript_20_03272018090956</p> |
| 21 | S5.C.3.e | <p>Municipal illicit discharge detection staff are trained to conduct illicit discharge detection and elimination activities as described in S5.C.3.e.</p> <p>Yes</p> |
| 22 | S5.C.4.a | <p>Implemented an ordinance or other enforceable mechanism to address runoff from new development, redevelopment and construction sites per the requirements of S5.C.4.a.</p> <p>Yes</p> |
| 23b | S5.C.4.a.i-iii | <p>Cite code reference for revised ordinance or other enforceable mechanism to address runoff from new development, redevelopment and construction sites.</p> <p>Mountlake Terrace Municipal Code Chapter 16.20 http://www.codepublishing.com/WA/MountlakeTerrace/#!/MountlakeTerrace16/MountlakeTerrace1620.html</p> |
| 24 | S5.C.4.a.i | <p>Number of exceptions granted to the minimum requirements in Appendix 1. (S5.C.4.a.i., and Section 6 of Appendix 1)</p> <p>0</p> |
| 25 | S5.C.4.a.i | <p>Number of variances granted to the minimum requirements in Appendix 1. (S5.C.4.a.i., and Section 6 of Appendix 1)</p> <p>0</p> |
| 26 | S5.C.4.b.i | <p>Reviewed Stormwater Site Plans for all proposed development activities that meet the thresholds adopted pursuant to S5.C.4.a.i. (S5.C.4.b.i)</p> <p>Yes</p> |
| 26b | S5.C.4.b.i | <p>Number of site plans reviewed during the reporting period.</p> <p>10</p> |
| 27 | S5.C.4.b.ii | <p>Inspected, prior to clearing and construction, permitted development sites 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, or alternatively, inspected all construction sites meeting the minimum thresholds adopted pursuant to S5.C.4.a.i. (S5.C.4.b.ii)</p> <p>Yes</p> |
| 27b | S5.C.4.b.ii | <p>Number of construction sites inspected per S5.C.4.b.ii.</p> <p>36</p> |
| 28 | S5.C.4.b.iii | <p>Inspected permitted development sites during construction to verify proper installation and maintenance of required erosion and sediment controls. (S5.C.4.b.iii)</p> <p>Yes</p> |
| 28b | S5.C.4.b.iii | <p>Number of construction sites inspected per S5.C.4.b.iii.</p> <p>36</p> |
| 29 | S5.C.4.b.ii, iii and v | <p>Number of enforcement actions taken during the reporting period (based on construction phase inspections at new development and redevelopment projects). (S5.C.4.b.ii, iii and v)</p> <p>1</p> |
| 30 | S5.C.4.b.iv | <p>Inspected all permitted development sites that meet the thresholds in S5.C.4.a.i upon completion of construction and prior to final approval or occupancy to ensure proper installation of permanent stormwater facilities. (S5.C.4.b.iv)</p> <p>Yes</p> |
| 31 | S5.C.4.b.ii-iv | <p>Achieved at least 80% of scheduled construction-related inspections. (S5.C.4.b.ii-iv)</p> <p>Yes</p> |
| 32 | S5.C.4.b.iv | <p>Verified a maintenance plan is completed and responsibility for maintenance is assigned for projects. (S5.C.4.b.iv)</p> <p>Yes</p> |
| 33 | S5.C.4.c | <p>Implemented provisions to verify adequate long-term operation and maintenance (O&M) of stormwater treatment and flow control BMPs/facilities that are permitted and constructed pursuant to S5.C.4. a and b. (S5.C.4.c)</p> <p>Yes</p> |

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| 35 | S5.C.4.c.iii | Annually inspected stormwater treatment and flow control BMPs/facilities per S5.C.4.c.iii. No Comment: The City submitted a G20 letter March 26, 2018 describing the nature of the noncompliance for this permit condition and a timeline for achieving full compliance by August 31, 2018. |
| 35b | S5.C.4.c.iii | If using reduced inspection frequency for the first time during this permit cycle, attach documentation per S5.C.4.c.iii Not Applicable |
| 36 | S5.C.4.c.iv | Inspected new residential stormwater treatment and flow control BMPs/facilities and catch basins every 6 months per S5.C.4.c.iv to identify maintenance needs and enforce compliance with maintenance standards. Yes |
| 37 | S5.C.4.c.v | Achieved at least 80% of scheduled inspections to verify adequate long-term O&M. (S5.C4.c.v) No Comment: The City submitted a G20 letter March 26, 2018 describing the nature of the noncompliance for this permit condition and a timeline for achieving full compliance by August 31, 2018. |
| 38 | S4.C.4.c.vi | Verified that maintenance was performed per the schedule in S5.C.4.c.vi when an inspection identified an exceedance of the maintenance standard. Yes |
| 38b | S5.C.4.c.vi | Attach documentation of any maintenance delays. (S5.C.4.c.vi) Not Applicable |
| 39 | S5.C.4.d | Provided copies of the Notice of Intent for Construction Activity and Notice of Intent for Industrial Activity to representatives of proposed new development and redevelopment. (S5.C.4.d) Yes |
| 40 | S5.C.4.e | All staff responsible for 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.4.e) Yes |
| 42 | S5.C.4.g | Participated and cooperated with the watershed-scale stormwater planning process led by a Phase I county. (S5.C.4.g) Not Applicable |
| 43 | S5.C.5.a | Updated and implemented maintenance standards as protective, or more protective, of facility function as those specified in Chapter 4 of Volume V of the Stormwater Management Manual for Western Washington (as amended 2014). (Required no later than December 31, 2016, except no later than June 30, 2017 for Permittees in Lewis and Cowlitz counties, and no later than June 30, 2018 for the City of Aberdeen, S5.C.5.a). Yes |
| 44 | S5.C.5.a | Applied a maintenance standard that is not specified in the Stormwater Management Manual for Western Washington. Not Applicable |
| 45 | S5.C.5.a.ii | Performed timely maintenance per S5.C.5.a.ii. Yes |
| 46 | S5.C.5.b | Annually inspected all municipally owned or operated permanent stormwater treatment and flow control BMPs/facilities. (S5.C.5.b) No Comment: The City submitted a G20 letter March 26, 2018 describing the nature of the noncompliance for this permit condition and a timeline for achieving full compliance by August 31, 2018. |
| 46b | S5.C.5.b | Number of known municipally owned or operated stormwater treatment and flow control BMPs/facilities. (S5.C.5.b) 48 |
| 46c | S5.C.5.b | Number of facilities inspected during the reporting period. (S5.C.5.b) 48 |
| 46d | S5.C.5.b | Number of facilities for which maintenance was performed during the reporting period. (S5.C.5.b) 6 |

| Number | Permit Section | Question |
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| 47 | S5.C.5.b | If using reduced inspection frequency for the first time during this permit cycle, attach documentation per S5.C.5.b. Not Applicable |
| 48 | S5.C.5.c | Conducted spot checks and inspections (if necessary) of potentially damaged stormwater facilities after major storms as per S5.C.5.c. Yes |
| 49 | S5.C.5.d | Inspected all municipally owned or operated catch basins and inlets as per S5.C.5.d, or used an alternative approach. (Required once no later than August 1, 2017 and every two years thereafter, except once no later than June 30, 2018 and every two years thereafter for the City of Aberdeen) Yes |
| 49b | S5.C.5.d | Number of known catch basins. 2286 |
| 49c | S5.C.5.d | Number of catch basins inspected during the reporting period. 627 |
| 49d | S5.C.5.d | Number of catch basins cleaned during the reporting period. 460 |
| 50 | S5.C.5.d.i-ii | Attach documentation of alternative catch basin cleaning approach, if used. (S5.C.5.d.i or ii) Not Applicable |
| 51 | S5.C.5.f | 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.5.f) Yes |
| 52 | S5.C.5.g | Implemented an ongoing training program for Permittee employees whose primary construction, operations or maintenance job functions may impact stormwater quality. (S5.C.5.g.) Yes |
| 53 | S5.C.5.h | Implemented a Stormwater Pollution Prevention Plan 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.5.h) Yes |
| 54 | S7.A | Complied with the Total Maximum Daily Load (TMDL)-specific requirements identified in Appendix 2. (S7.A) Yes |
| 55 | S7.A | 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) Saved Document Name: Item 55 Swamp Creek TMDL actio_55_03272018091433 |
| 56 | S8.A | Attach a description of any stormwater monitoring or stormwater-related studies as described in S8.A. Not Applicable |
| 57 | S8.B.1 | Participated in cost-sharing for the regional stormwater monitoring program (RSMP) for status and trends monitoring. (S8.B.1) Yes |
| 58 | S8.C.1 | Participated in cost-sharing for the regional stormwater monitoring program (RSMP) for effectiveness studies. (S8.C.1) (Required to begin no later than August 15, 2014) Yes |
| 59 | S8.D.1 | Contributed to the RSMP for source identification and diagnostic monitoring information repository in accordance with S8.D.1. (Required to begin no later than August 15, 2014) Yes |
| 60 | G3 | Notified Ecology in accordance with G3 of any discharge into or from the Permittees MS4 which could constitute a threat to human health, welfare or the environment. (G3) Yes |

| Number | Permit Section | Question |
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| 61 | G3 | Number of G3 notifications provided to Ecology. 1 |
| 62 | G3.A | Took appropriate action to correct or minimize the threat to human health, welfare, and/or the environment per G3.A. Yes |
| 63 | S4.F.1 | Notified Ecology within 30 days of becoming aware that a discharge from the Permittee's MS4 caused or contributed to a known or likely violation of water quality standards in the receiving water. (S4.F.1) Yes |
| 64 | S4.F.3.a | If requested, submitted an Adaptive Management Response report in accordance with S4.F.3.a. Not Applicable |
| 65 | S4.F.3.d | 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 |
| 66 | 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) Yes |
| 67 | G20 | Number of non-compliance notifications (G20) provided in reporting year. 2 |
| 67b | G20 | List the permit conditions described in non-compliance notification(s). S.5.C.4.f, Low Impact Development code related requirements - dated October 24, 2017 S5.C.3.c, Illicit Discharge Detection and Elimination (IDDE) - dated October 27, 2017 |

Attachments:

View Files Attached to Submission

| | DocDescr | DocName | DocExt | DocID | SubID | AppName |
|----------------------|-----------------------------|--|--------|--------|---------|-------------|
| View | WAR045531_1_03272018085827 | 2018_MLT_Stormwater Management_1_03272018085827 | .pdf | 669962 | 1618456 | wqwebportal |
| View | WAR045531_20_03272018090956 | Item 20 IDDE incident descript_20_03272018090956 | .pdf | 669966 | 1618456 | wqwebportal |
| View | WAR045531_5_03272018085900 | Item 5 Public education and ou_5_03272018085900 | .pdf | 669963 | 1618456 | wqwebportal |
| View | WAR045531_55_03272018091433 | Item 55 Swamp Creek TMDL actio_55_03272018091433 | .pdf | 669967 | 1618456 | wqwebportal |

Close

Item 4.b: Internal coordination mechanisms

Mountlake Terrace's stormwater program is led by the Stormwater Program Manager, who is responsible for internal coordination at the City. This is accomplished in a number of different ways, including:

- **Meetings** organized by the stormwater program manager to discuss and document specific stormwater compliance activities such as IDDE, stormwater facility inspections, and LID implementation (among other topics.)
- **Training** regarding stormwater permit requirements through an on-going dialog with the O&M crews, utility supervisors, and the Public Works Operation Manager.
- **Discussion** with the Public Works Director, who in turn communicates important stormwater issues to his manager, the City Manager.
- **Sharing** of citywide stormwater issues with other departments, including the Community and Economic Development (land use planning) team, Parks department, Operations and Maintenance, Fire, and the Engineering team.
- **Input** from representatives from several city departments associated with the update to the current Stormwater Comprehensive Plan, to be completed by the end of 2018.

Several different job categories in the city are involved with stormwater protection. Plan reviewers determine whether permit requirements regarding development are being followed, construction inspectors are charged with overseeing erosion control on construction sites, maintenance supervisors are in charge of inspection of the City's MS4s and ensuring maintenance records are kept up-to-date. Coordination with the City's Community Relations Specialist is important to implement part of the public outreach portion of the permit through community events, social media, notices, and the city newsletter "City Happenings." The Parks and Recreation Department is responsible for organizing and managing volunteer stewardship activities to support stormwater protection goals. All fertilizer application in City parks is carried out by licensed staff operators who receive training on how to apply the minimum amount necessary. The Stormwater Program Manager is responsible for working with all of these departments to ensure that the requirements of the citywide stormwater permit are met and documented.

Item #5: Description of public education and outreach efforts conducted per S5.C.1.a.i and ii.

The City of Mountlake Terrace Stormwater Pollution Prevention Education Program is oriented to reach persons and entities with the potential to affect surface water quality within the City limits. Attendance at activities and programs is tracked and staff requests feedback from attendees as to what programs and services would be most beneficial in the future. The City monitors activity levels on the stormwater web page and receives and reviews comments regarding stormwater issues submitted through the web site’s interactive forms.

The table below summarizes existing Public Education and Outreach activities:

| Program | Target Audience | Goal and/or Behaviors Promoted |
|--|---|--|
| Puget Sound Spill Kit Program (ECOSS) | Businesses | Builds awareness about how to prevent illicit discharges through use of BMPs and how to clean them up if they occur. |
| Low Impact Development (LID) outreach | Engineers, contractors, developers, homeowners | Increases implementation of Low Impact Development (LID) principles and BMPs through plan review and LID education and support |
| Collaboration with Snohomish Health Department business inspections | Businesses | Educates and provides technical assistance on proper storage and disposal of hazardous wastes, including prevention of illicit discharges and good external housekeeping |
| Newsletters and Press Releases | General public | Informs of opportunities to become involved in stewardship activities, how to prevent illicit discharges, and proper disposal of pet waste. Alerts citizens that they have the opportunity to provide input and feedback on the update of the stormwater comprehensive plan and the LID code update. |
| City Web Pages | General public, contractors, developers, planners, and businesses | Provides a current and quickly updateable way to share public education and outreach on a range of stormwater issues. |

Table 2: Existing Public Education and Outreach Activities

Ongoing Activities

In addition to maintaining all existing programs and activities, the City:

- Is an active participant in STORM (Stormwater Outreach for Regional Municipalities.)
- Supports and is a part of the “Don’t Drip and Drive” program on a regional basis, targeting the general public with the prevention of illicit discharges through proper vehicle maintenance.
- Coordinated with the Snohomish Health District and City of Edmonds in a program funded through the Puget Sound Partnership to contact and inspect all businesses that use or store hazardous chemicals or materials.
- Continues to provide stewardship opportunities and partner with other organizations to encourage residents to participate in activities such as the storm drain curb marker program, litter pickups, and riparian invasive plant removal events.

Item # 20: Description of IDDE actions according to required timeline per S5.C.3.d.iv.

On November 14, 2017 City O&M staff observed a large quantity of sediment-laden water in a tributary to Lyons Creek. The muddy water was traced back to a construction site being managed by PELLCO Construction, Inc at 22001 52nd Ave W., Mountlake Terrace. After receiving a call from the City on November 14th, the construction site blocked off their sediment ponds from releasing flow from the site, stopping the illicit discharge. On November 16th, the site was notified by the City's construction erosion control inspector that their stormwater management had failed and that they would be required to submit an Environmental Incident Report Form, which was submitted by the CESCL for the site (Cody Bye) the same day. The City construction inspector and stormwater program manager inspected the site that day, reviewed their plans and construction stormwater pollution prevention plan, and determined that their on-site erosion control measures were insufficient to prevent upslope sediment from entering their sediment ponds and then exiting the property via a discharge pipe to the creek with excessive suspended sediment. The construction site had not collected turbidity measurements, and the amount of turbidity in the illicit discharge was unknown. On November 17, 2017 the City required the construction site to stop work until their erosion control measures could be inspected and deemed effective to prevent another illicit discharge. Further erosion control measures were added to the site, and they were allowed to continue construction.

Item #55: Summary of relevant SWMP and Appendix 2 activities to address the applicable TMDL parameter(s) (S7.A)

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|---|--|
| Name of TMDL | Swamp Creek |
| EPA Approved Document(s) for TMDL | <i>Swamp Creek Fecal Coliform Bacteria Total Maximum Daily Load: Water Quality Improvement Report and Implementation Plan</i> , June 2006, Ecology Publication No. 06-10-021. http://www.ecy.wa.gov/biblio/0610021.html |
| Location of Original 303(d) Listings | WA-08-1060 |
| Area Where TMDL Requirements Apply | Requirements apply in all areas regulated under the Permittees municipal stormwater permit and draining to the portion of the WASWIS segment SM74QQ starting at the confluence with the Sammamish River and including all upstream tributaries contributing to the Swamp Creek segment of WASWIS GJ57UL. |
| Parameter | Fecal Coliform |
| EPA Approval Date | August 16, 2006 |
| MS4 Permittee | Phase I Permit: Snohomish County Phase II Permit: Everett, Bothell, Lynnwood, Brier, Mountlake Terrace, Kenmore |

The City of Mountlake Terrace has identified the entire area tributary to Swamp Creek within City limits. This area, which drains to Scriber Creek and then to Swamp Creek is the “high priority area” for activities addressing the fecal coliform TMDL described in the table above. Of the estimated 15,300 acres in the Swamp Creek watershed, approximately 196 acres (1.3 % of the land area) is in Mountlake Terrace.

Actions Required

Business Inspections

Requirement: Each Permittee shall inspect commercial animal handling areas and commercial composting facilities to ensure implementation of source control BMPs for bacteria.

There is one commercial animal handling area (a veterinary clinic) and no commercial composting facilities. The veterinary clinic was inspected for proper BMPs regarding animal waste. The inspection indicated that all cleaning (including floor mats) occurs within the building; that dumpster lids are kept closed, and that all animal waste is double-bagged and disposed of as solid waste. One area of improvement was spill handling. With permission from the lead veterinarian, the City of Mountlake Terrace directed their subcontractor ECOSS to deliver training to the clinic employees on how to appropriately manage outside spills in the parking area, and to provide a free spill kit for the clinic to use for external spills.

Public Education and Outreach

Requirement: Each Permittee shall conduct public education and outreach activities to increase awareness of bacterial pollution problems and promote proper pet waste management activities.

To meet this requirement, the City published two articles about the risks associated with improper pet waste disposal in their citywide newspaper (City Happenings), and created a web survey posted to the City website on pet waste problems. The survey was designed to identify areas of the city where improper pet waste handling was a problem, and to understand motivation and behaviors regarding pet waste disposal in Mountlake Terrace. The results of the web survey are being used by the City to shape future public education and outreach around awareness of bacterial water pollution and best practices for disposal of pet waste.

Operations & Maintenance

Requirement: Each Permittee shall install and maintain animal waste collection and/or education stations at municipal parks and other Permittee owned and operated lands reasonably expected to have substantial domestic animal (dog and horse) use and the potential for pollution of stormwater.

There are no City of Mountlake Terrace owned and operated lands that are reasonably expected to have dog or horse use in the high priority area. The City does provide pet waste disposal bags at the city's dog park (in the Lyons Creek watershed.)

IDDE

Requirement: Permittees conducting IDDE-related field screening under S5.C.8 of the Phase I permit or S5.C.3 of the Western Washington Phase II permit shall screen for bacteria sources in any screened MS4 subbasins which discharge to surface waters in the TMDL area.

As part of routine IDDE outfall screening for illicit discharges and illegal connections, flow immediately upstream of a primary outfall to Scriber Creek (tributary to Swamp Creek) was sampled for common IDDE indicators on December 12, 2017. Temperature, pH, conductivity, and ammonia levels were all within acceptable levels, and the fecal coliform level was 12 CFU/100 ml. (estimated.)

Targeted Source Identification & Elimination

Requirement: Permittees shall implement source identification and elimination efforts (including water quality sampling) in the MS4 subbasins discharging to the high priority area no later than August 1, 2014.

The City of Brier has been monitoring collecting water quality samples from the locations designated as part of the joint Mountlake Terrace-Brier Ecology QAPP, approved in 2015. Stormwater program managers from the two cities met November 8, 2017 to coordinate the sampling. The City of Mountlake Terrace has a standing offer to staff at the City of Brier to assist with water quality sampling and provide financial support for the water quality sampling analysis costs. The results of the sampling (conducted by Brier) are in the attached table.

Surface Water Monitoring

Requirement: Each Permittee shall submit a draft revised QAPP to Ecology no later than February 2, 2015.

The 2015 QAPP has been followed during 2017, with the exception that due to workload issues and staff turnover at the City of Brier, not all of the monthly water quality samples for the QAPP were collected in 2017. The data collected is summarized in the table on the next page.

2017 Swamp Creek TMDL Testing on Scriber Creek

Am Test Inc. Laboratories 13600 NE 126th Pl., Suite C, Kirkland, WA 98034 (425) 885-1664; www.amtestlab.com

Sites:

| | |
|---------------------------|--|
| Outfall source #1 - Fecal | Upstream of the junction with Swamp Creek |
| Outfall source #2 - Fecal | Replicate for Site 1 |
| Outfall source #3 - Fecal | Downstream side of culvert at Scriber Creek crossing of Poplar Way |
| Outfall source #4 - Fecal | Upstream side of Scriber Creek crossing of Larch Way (212th) |

Fecal levels in colonies per 100 ml sample (CFU / 100 ml)

| Date | 1/19/2017 | 2/16/2017 | 3/15/2017 | 4/12/2017 | 10/25/2017 | 12/13/2017 | | | |
|---------------------------|-----------|-----------|-----------|-----------|------------|------------|--|--|--|
| Collected by | RM | RM | RM | RM | RM | SS | | | |
| Outfall source #1 | 30 | 120 | 810 | 210 | 32 | 4 | | | |
| Outfall source #2 | 210 | 260 | 320 | 170 | | 4 | | | |
| Outfall source #3 | 120 | 340 | 410 | 380 | 20 | 4 | | | |
| Outfall source #4 | 180 | 110 | 890 | 300 | | 6 | | | |
| Arithmetic Average | 135 | 208 | 608 | 265 | 26 | 5 | | | |
| Control sample #1 | 180 | 280 | 52 | 210 | 130 | 10 | | | |
| Duplicate (sample/dup) | 220/160 | 20/10 | 740/710 | 210/200 | 7/5 | 10/5 | | | |
| Duplicate (sample/dup) | 150/160 | | 430/240 | 50/52 | | | | | |
| Duplicate (sample/dup) | | | | 34/40 | | | | | |
| Blank #1 | <1 | <1 | <1 | <1 | <1 | <1 | | | |
| Blank #2 | <1 | | <1 | <1 | <1 | | | | |
| Blank #3 | | | | <1 | | | | | |