



Water Quality Program

Permit Submittal Electronic Certification

Permittee: EVERETT CITY

Permit Number: WAR045515

Site Address: 3200 CEDAR ST
Everett, WA 98201

Submittal Name: MS4 Annual Report Phase II Western

Version: 1

Due Date: 3/31/2016

Questionnaire

Number	Permit Section	Question	Answer
1	S5.A.2	Attach updated annual Stormwater Management Program Plan (SWMP Plan). (S5.A.2)	2016 Stormwater Management Pro_1_03292016015646
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
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.a.i and ii	Attach description of public education and outreach efforts conducted per S5.C.1.a.i and ii.	PIE Annual Report 2015_5_03292016015712
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
7b	S5.C.1.b	Attach description of how this requirement was met.	PIE Annual Report 2015_7b_03292016015751

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)	A website link and City contact were provided for where to review the SWMP (either online or by requesting a hardy copy) and how to provide input through a notice in the Newspaper, through the Council of Neighborhoods and the City website.
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.	https://everettwa.gov/875/Stormwater-Management-Program-SWMP
10	S5.C.3.a.i - vi	Maintained a map of the MS4 including the requirements listed in S5.C.3.a.i.-vi.	Yes
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)	Not Applicable
12b		Cite the Prohibited Discharges code reference	
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	Illicit Discharge Detection and Elimination: A Guidance Manual for Program Development and Technical Assessments, Center for Watershed Protection, October 2004 and Illicit Connection and Illicit Discharge Field Screening and Source Tracing Guidance Manual, DOE, 2013 are both used
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)	23
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)	(425) 257-8821
15b	S5.C.3.c.ii	Number of hotline calls received.	5

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)	Targeted educational letters and door hangars are distributed to neighborhoods and/or small communities when potential illicit discharges or improper disposal of waste are suspected. The letter and door hanger material includes information on city code; along with it is the proper disposal techniques. Employees will also meet with and inform citizens on proper practices. Our Local Source Control program through the Snohomish Health District meets one-on one with business owners to inspect practices, advise, and sometimes help pay for improved handling and disposal of hazardous wastes.
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)	15
20	S5.C.3.d.iv	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	2015 IDDE Tracing Summary_20_03292016020101
21	S5.C.3.e	Municipal illicit discharge detection staff are trained to conduct illicit discharge detection and elimination activities as described in S5.C.3.e.	Yes
22	S5.C.4.a	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.	Yes
24	S5.C.4.a.i	Number of exceptions granted to the minimum requirements in Appendix 1. (S5.C.4.a.i., and Section 6 of Appendix 1)	0

25	S5.C.4.a.i	Number of variances granted to the minimum requirements in Appendix 1. (S5.C.4.a.i., and Section 6 of Appendix 1)	0
26	S5.C.4.b.i	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)	Yes
26b	S5.C.4.b.i	Number of site plans reviewed during the reporting period.	55
27	S5.C.4.b.ii	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)	Yes
27b	S5.C.4.b.ii	Number of construction sites inspected per S5.C.4.b.ii.	55
28	S5.C.4.b.iii	Inspected permitted development sites during construction to verify proper installation and maintenance of required erosion and sediment controls. (S5.C.4.b.iii)	Yes
28b	S5.C.4.b.iii	Number of construction sites inspected per S5.C.4.b.iii.	55
29	S5.C.4.b.ii, iii and v	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)	0
30	S5.C.4.b.iv	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)	Yes
31	S5.C.4.b.ii-iv	Achieved at least 80% of scheduled construction-related inspections. (S5.C.4.b.ii-iv)	Yes
32	S5.C.4.b.iv	Verified a maintenance plan is completed and responsibility for maintenance is assigned for projects. (S5.C.4.b.iv)	Yes
33	S5.C.4.c	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)	Yes
35	S5.C.4.c.iii	Annually inspected stormwater treatment and flow control BMPs/facilities per S5.C.4.c.iii.	Yes
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.C.4.c.v)	Yes
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	Implemented maintenance standards as protective, or more protective, of facility function as those specified in Chapter 4 of Volume V of the 2005 Stormwater Management Manual for Western Washington.	Yes
44	S5.C.5.a	Applied a maintenance standard that is not specified in the Stormwater Management Manual for Western Washington.	Yes
44b	S5.C.5.a	Please note what kinds of facilities are covered by this alternative maintenance standard. (S5.C.5.a)	Filtterra Water Quality Systems
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)	Yes
46b	S5.C.5.b	Number of known municipally owned or operated stormwater treatment and flow control BMPs/facilities. (S5.C.5.b)	350
46c	S5.C.5.b	Number of facilities inspected during the reporting period. (S5.C.5.b)	350
46d	S5.C.5.b	Number of facilities for which maintenance was performed during the reporting period. (S5.C.5.b)	95
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.	10364
49c	S5.C.5.d	Number of catch basins inspected during the reporting period.	1903
49d	S5.C.5.d	Number of catch basins cleaned during the reporting period.	705
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)	TMDL status 2015_55_03292016020 955
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
57B	S8.B.2	If choosing to conduct individual status and trends monitoring, attach an annual stormwater monitoring report in accordance with S8.B.2. (Required to submit reports beginning March 31, 2016)	
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

58b	S8.C.2	If choosing to conduct discharge monitoring, attach an annual stormwater monitoring report in accordance with S8.C.2 and Appendix 9. (Required to submit reports beginning March 31, 2016)	
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)	Not Applicable
61	G3	Number of G3 notifications provided to Ecology.	0
62	G3.A	Took appropriate action to correct or minimize the threat to human health, welfare, and/or the environment per G3.A.	Not Applicable
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)	Not Applicable
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)	Not Applicable
67	G20	Number of non-compliance notifications (G20) provided in reporting year.	0
67b	G20	List the permit conditions described in non-compliance notification(s).	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.

Dave Davis

3/29/2016 2:24:03 PM

Signature

Date

5. Description of public education and outreach efforts conducted per S5C.1.a.i and ii requirements

Public Education and Outreach

Adopt-a-Street (Volunteer Program): Everett's Adopt-a-Street program is a partnership between volunteers and the City of Everett to create a better living environment by reducing pollution through the removal of litter on local roads. Over 56 miles have been adopted and volunteers receive an annual newsletter highlighting aspects of stormwater health and how they can keep it clean.

Mutt Mitt Stations (Volunteer program): There are over 56 Mutt Mitt stations in Everett city-limits. Volunteers keep the dispensers stocked with bags throughout the city of Everett. Other pet waste management programming includes 395 portable doggie bag dispensers with attached literature distributed at local vet clinics, the Everett Animal Shelter and many other pet-centric events throughout the year.

Storm Drain Marking Kit (Volunteer program): The city encourages the public to install storm drain markers in their neighborhood. The city has free drain marking kits that can be reserved by individuals, families or school/civic groups. The markers include the 1-800 number to report pollution and a door hangar with stormwater pollution prevention ideas and tips.

Car Wash Kits: The city requires the public to use car wash kits when hosting a charity car wash within the city limits. The car wash kit is free to any group, business or individual hosting a charity car wash. A post card is sent to all commercial addresses in late spring to remind them of local codes and that the kit is available. The city also runs a series of PSSH developed car wash ads at local movie theatres in the spring.

School Programs: City of Everett offers free hands-on, in-classroom workshops to the Everett School District that aligns with school curriculum standards. These surface and stormwater related workshops focus on defining a watershed, the role macros in diagnosing surface water health and how individual actions can affect the health of their watershed. Programs are offered to Grades 3- 8.

Natural Yard Care Garden series: This seasonal speaker series is offered to the general public but is geared towards homeowners. Natural yard care techniques (Right Plant, Right Place, Integrated Pest Management, etc.) are discussed by highly knowledgeable, local speakers. Our speakers include Jessi Bloom, WSU Master Gardeners, and Christina Pfeiffer. The city partners with WSU Extension and Snohomish Conservation District to advertise and offer these speaker series. The city also runs a series of PSSH developed "Use compost and think twice before using fertilizers and pesticides" commercials at local movie theatres in the summer season.

Rain Garden Public Tours: Everett offers public tours of our seven pilot rain gardens in North Everett. The tour focuses on the history of the pilot rain garden program and the mechanics and beauty of rain gardens. A few of the newly installed 2014 rain garden have since been added to the public rain garden tour route.

Rain Garden Training for Landscape Professional: This one and one-half day training is geared towards local landscape designers, installers and maintenance technicians and includes an in-the-field portion. The training covers site selection, soils, local regulations, designs, plant selection, maintenance and more. The in-the-field portion is a hands-on install of a rain garden.

Rain Garden Rebates (Let it Rain program): Rain garden rebates are offered to residential homeowners. Twenty rain garden rebates were offered to qualified homeowners. The program included site assessments, assistance with soil tests, hands-on design workshops and one-on-one support. Thirteen approved rain gardens were installed in 2014 and eight in 2015.

Rain Barrels (Let it Rain program): Rain barrels workshops and sales are offered as one of many green stormwater initiatives. DIY rain barrel workshops and one day pre-made rain barrel sales are offered to the public. In addition to the barrel(s), residents received rain barrel maintenance and care information, along with other stormwater management ideas for their property.

Downspout Disconnection (Let it Rain program): Almost 2,000 residents receive information and an invitation to have their downspouts disconnected by city personnel and its partners (Snohomish Conservation District (SCD) and the Washington Conservation Corps). City personnel and SCD canvassed homes to discuss the program and design downspout disconnection; along with cataloging downspout connections.

STORM, SnoSTORM, and ECO-Net: The City of Everett participated in STORM (Stormwater Outreach for Regional Municipalities) by attending quarterly meetings, the annual Symposium and other extraneous committees and meetings including STORM BMP Prioritization. Everett also shares resources and information with other STORM members individually and through more formal venues. Everett hosts the SnoSTORM meetings and Apryl Hynes is now the Coordinator for the group. Everett attends and hosts at least one Snohomish/Camano ECO-Net meeting annually.

Public Events, Brochures and Website: City personnel and our partners participate in various public events to highlight stormwater runoff health and the actions individuals can take to lessen their impact. Some of the events include; Bark in Park, Mutt Strut, National Night Out, Everett Home & Garden Show, Sorticulture and local farmers markets. Everett hosted SnoCo Fair at Cascade High School in the spring, highlighting sustainability practices and green gardening practices. Informative stormwater literature is readily available at every event. General communication and update of informational brochures and our website continue throughout the year. Puget Sound Starts Here

(PSSH) regional educational materials (website, posters, logo and other media) are featured on city of Everett brochures and website.

6. Created stewardship opportunities (or partnered with others) to encourage resident participation in activities as those described in S5.C.1.b

The City of Everett stewardship opportunities are listed above and include; Adopt-a-Street, Storm Drain marking kits and Mutt Mitt Volunteer program. Stewardship activities are also available via Adopt-a-Stream, whose office and demonstration site is located on North Creek.

7. and 7b. 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)

The City of Everett participated in the North Sound Natural Yard Care GROSS Grant from 2014 - 2015. During that time, there was delivery of a three-part evening lecture series with presentations covering a wide variety of natural yard care topics by landscape professionals. The topics included:

1. natural lawn care,
2. smart watering,
3. right plant/right place,
4. natural pest, weed and disease control,
5. growing healthy soil,
6. sustainable landscape design

The City of Everett has been offering seasonal natural yard care workshops since 2011 as a two-night lecture series on natural yard care topics with a ½ hr. of hands-on activities. These lectures are delivered by landscape professionals and held in the fall and spring. The third part of the spring series includes a guided walking tour of local rain gardens.

Based on information gathered from the natural yard care evaluation and recommendations put forth by the Cascadia Consulting Group <http://www.snohomishcountywa.gov/DocumentCenter/View/30367>, the City of Everett plans to direct education and outreach resources to create a more expansive natural yard care series for Everett residents. In addition to a two or three night lecture series, the City of Everett (along with our partners, WSU Extension and Snohomish Conservation District) will offer a day of outdoor demonstrations on selected topics such as; using an aerator, applying lime to lawn, reading/interpreting soil test, preparing a soil test, etc. Since Everett already has an ongoing relationship with outside partners and landscape professionals, it should be fairly straight-forward to add the demo piece to the natural yard care programs the city currently implements. The city is open to piloting this type of program in fall 2016 or in 2017. Additionally, the City of Everett has lent its

support to the NTA Local Proposal that was put forward for Natural Yard Care Behavior Change Program by Snohomish County.

17. Informed public employees, businesses and the general public of hazards associated with illicit discharges and improper disposal of waste.

17b. Describe the information sharing actions (S5.C.3.c.iv)

Targeted educational letters and door hangars are distributed to neighborhoods and/or small communities when potential illicit discharges or improper disposal of waste are suspected. The letter and door hanger material includes information on city code; along with it is the proper disposal techniques. Employees will also meet with and inform citizens on proper practices. Our Local Source Control program through the Snohomish Health District meets one-on one with business owners to inspect practices, advise, and sometimes help pay for improved handling and disposal of hazardous wastes.

City of Everett

TMDL Implementation Status Report

January 1, 2015 through December 31, 2015

This document has been written to comply with Section S7.A of the Permit, which requires inclusion of the status of TMDL implementation as part of the City's annual report submitted to Ecology.

There are three TMDLs listed in Appendix 2 of the Permit that are applicable within the City of Everett. These are the Snohomish River Tributaries TMDL (Wood Creek), the North Creek TMDL, and the Swamp Creek TMDL. All these TMDLs address the issue of fecal coliform bacteria in these water bodies.

In accordance with the Permit, the City prepared Quality Assurance Project Plans (QAPPs) for TMDL related monitoring and submitted them to Ecology, and the City received final approval of the QAPPs on February 28, 2008. It should be noted that the current permit (2013-2018) requires update of the TMDL QAPPs, and this was accomplished by the February 2015 deadline.

The current permit harmonizes requirements across all 3 TMDLs, which is very helpful. The first item we tackled was reviewing data and deciding which high priority area would be selected for source ID and elimination work in this permit term. This was an easy choice for us, as Wood Creek is very close to meeting standards and coming off the list entirely, so we chose it as our Priority basin. This may seem counterintuitive, but being close to eliminating one TMDL is an exciting opportunity, and one we want to complete soon. We did not attempt to prioritize one over the other with Swamp Creek and North Creek, as they both have issues (some largely out of our control) that need work. We changed some sampling sites on all 3 basins, as indicated and mapped in the QAPP submissions, to better reflect inputs from outside the city (potential contributions of septic systems, etc).

Surface Water Monitoring

Although we changed sampling sites, updated QAPPs had not yet been done or approved. With no permit obligation to begin sampling until August 2015, we decided to have no break in sampling, instead depending on our previous QAPPs and our experience in sampling. Sampling summarized from 2007 to present is attached below.

Fecal Coliform Sampling Synopsis

TMDL Samples - 2007 to present								
Sample Site	average, to date	geo. Mean, to date	average, dry season*	geo. Mean, dry season	No. of samples	No. of dry season samples	% over 100 dry season	% over 200 dry season
Silver Creek #2	169	89	296	211	145	40	80%	48%
2nd Ave. Creek #1	187	89	376	199	131	31	71%	55%
116 St. Ditch #1	583	385	1132	763	23	4	100	100
North Creek #2	192	97	291	159	176	73	68%	45%
North Creek #3	174	84	335	217	141	35	80%	51%
North Creek #4	172	82	192	128	36	15	53%	13%
Woods Creek #2	56	22	78	38	189	77	12%	6%
Woods Creek #3	17	8	13	10	37	15	0%	0%
Woods Creek #4	39	15	27	25	37	15	7%	0%
Swamp Creek	266	112	627	281	107	24	71%	47%
Swamp Creek #1	76	38	61	43	27	5	20%	0%
Swamp Creek #2	137	70	155	183	30	9	89%	33%
Swamp Creek #3	53	25	23	20	26	5	0%	0%

*dry season defined in Quality Assurance Project Plan as May thru September

Fecal coliform organism levels must not exceed a geometric mean value of 100 colonies /100 mL, with not more than 10 percent of all samples (or any single sample when less than ten sample points exist) obtained for calculating the geometric mean value exceeding 200 colonies /100 mL.

TMDL Notes:

- 1) 116th Ditch was rarely sampled; running water in it only during storm or shortly thereafter; **Discontinued in 2014.**

- 2) North Cr. #2 is perenial since pump at 112th St. in place.
- 3) North Cr. #3 only sampled when 2nd Ave. creek is flowing; otherwise North Cr. #2 is same water that is being sampled at North #3.
- 4) North #4 sample location **added in 2014**
- 5) Woods Cr. #2 is perenial.
- 6) Woods Cr. #3 location **added in 2014**
- 7) Woods Cr. #4 location **added in 2014**
- 4) Swamp Creek frequently dries out in summer; during periods of prolonged dry weathe beaver dam impounds so it appears stagnant so is not sampled. Sample location **discontinued 2014**
- 5) Swamp Creek #1 dries in summer, **added in 2014**
- 6) Swamp Creek #2 dries in summer, **added in 2014**
- 7) Swamp Creek #3 dries in summer, **added in 2014**
- 6) Silver Lake Cr. #2 is dry in the summer months generally.
- 7) 2nd Ave. Cr. is generally dry in the summer months.
- 8) Majority of sampling was done on dry days, but still adhering to schedule of sampling 1st and 3rd Wednesdays generally.
Starting in 2016 sampling lessened to once rather than twice a month.
- 9) Detection limit numbers entered as values, estimated numbers entered as values.
- 10) Number of samples is actually twice as shown; each site had duplicate sample; averaged numbers for calculations and graphs.

Base Flow Samples - 1990 to present								
Sample Site	average, to date	geo. Mean, to date	average, dry season*	geo. Mean, dry season	No. of Samples	No. of dry season samples	% over 100 dry season	% over 200 dry season
North Creek	119	66	182	131	110	40	68%	35%
Silver Lake Creek	53	23	81	38	91	29	17%	3%
Swamp Creek	292	67	453	149	101	34	68%	44%
Woods Creek	34	19	50	38	109	45	16%	2%

Baseflow notes: same as above, in addition:

- 1) Baseflow sampling locations at North Creek and Silver Lake Creeks are not the same as TMDL sample sites
- 2) Swamp Creek baseflow site was moved from original site at 108th due to beaver activity to TMDL site several years ago.

Base flow site is at TMDL location abandoned 2014 still.

- 3) Sampling always done in dry weather. Done quarterly, so not necessarily during "dry season".

Public Education and Outreach

The table attached below indicates the extensive education program Everett conducts. We are always looking for new locations to install Mutt Mitt stations, and have a possible additional location in the area of the Interurban Trail.

Event/Activity	Numbers	NPDES Requirement*	Description
Adopt-a-Street volunteers groups	37 groups	S5.C.1b stewardship	4 new groups added in 2015
Adopt-a-Street volunteer hours	610 hours	S5.C.1b stewardship	
Adopt-a-Street trash bags	385 trash bags	S5.C.1b stewardship	Litter collection

Event/Activity	Numbers	NPDES Requirement*	Description
Adopt-a-Street adopted miles	56.1 miles	S5.C.1b stewardship	
Mutt Mitt dispensers	56 dispenser	S5.C.1.ii(b) Pet waste	7 are privately operated – 49 in Everett Public Parks
Mutt Mitt bags dispensed	438,000 bags	S5.C.1.ii(b) Pet waste	219 cases (2,000 bags each)
Pounds of dog waste collected and out of stormwater system	109,500 lbs.	S5.C.1.ii(b) Pet waste	438,000 x .25lbs poop**
Mutt Mitt Volunteer Hours	384 hours	S5.C.1b stewardship	32 Mutt Mitt volunteers x 12 months x 1 hr./month <i>(decreased from 2hr./month)</i>
Total Volunteer Hours	994 hours	S5.C.1b stewardship	Mutt Mitt & Adopt-a-Street
Public Education Events (surface H2O focus)	2,459 attendance events	S5.C.1i(a) stormwater	Bark in the Park (2,259) Mutt Strut (200) National Night Out (250) Poop Toss game and Pet Waste giveaways
Charity car wash kits “rentals”	3 kits rented	S5.C.1ii(a) Car wash soap	4 groups contacted COE for information
Storm Drain Marking	15 drains marked	S5.C.1b stewardship	Everett Community College (6), Campbell’s StockPot (4) and a condo complex (5)
School Classroom presentations	92 presentations 240 students 16 schools	S5.C.1i(a) stormwater	What’s Bugging Your Watershed and Water Connections Day 1 lessons. Public & Private (Everett School District only)
Rain Garden Tours	41 people	S5.C.1i(a) LID principles stormwater	1 – April public tour (18) 1 – June rebate homeowner tour (23)

Event/Activity	Numbers	NPDES Requirement*	Description
Rain Garden Rebate Design Workshops	12 people	S5.C.1aii(b) LID principles stormwater	Design intensives for rain garden rebate recipients
Natural Yard Care Series (spring and fall)	63 attendees	S5.C.1aii(b) Yard care	In partnership with Snohomish Conservation District and WSU Master Gardener. Topics: IPM, Right Plant-Right Place and Soil Testing
WET Teacher Workshop	22 teachers	S5.C.1i(a) stormwater	Lead in-field lab on freshwater macroinvertebrates and water quality curriculum in classroom.
Pet waste-related giveaways	395 portable pet waste bag	S5.C.1.ii(b) Pet waste	Everett Animal Shelter (45), local Vet offices (3 vets, 225) and public Events (125) with literature on importance of picking up pet waste.
Rain Barrel Workshops and One-Day Sales	258 people 255 barrels	S5.C.1i(a) LID principles stormwater	2-Make Your Own Barrel workshops 2-One Day Sales
Stormwater messaging billboard and PA/Radio announcements	100,648 people (home games) 76 radio ads	S5.C.1i(a) stormwater	Everett AquaSox Memorial Stadium stats 2015 season: 100,648/season (billboard/PA messages) Radio audience: 85,000 listeners/day (76, 60 sec commercials during home & away games)
PSSH movie theatre ad	16 screens 7,168 30 sec. spots	S5.C.1i(a) Stormwater Yard care	PSSH ad ran June – Oct at Everett Mall Stadium 16 Ad focus: Natural yard care
Downspout Disconnection	93 downspouts		Outreach to 1966 homes, 91% already disconnected
STORM participation	15 hours	S5.A.5a. Coord. among permittees	Quarterly meetings participation (May, Sept, Nov) and Work Plan mtg. (Jan) Apryl Hynes attended
SnoSTORM coordination	8 hours	S5.A.5a. Coord. among permittees	Bi-annual meeting. Apryl Hynes took on coordination duties in September. (May, Sept). Host meeting, also.

Event/Activity	Numbers	NPDES Requirement*	Description
Snohomish Eco-Net	6 hours		Quarterly meeting (May, Sept 2015) City of Everett hosted May meeting
Landscape Professional 2-day Rain Garden Training	12 attendees	S5.C.1ai(b) LID principles stormwater	November 2014 – Spruce Hall (Forest Park) ½ day install demo at 760 Crown Dr.
Sno-Co Fair	200+ people	S5.C.1i(a) LID principles stormwater	Fair hosted by City of Everett, Futurewise, WSU Extension. Staffed booth on rain barrels and rain gardens <i>(estimate on attendance)</i>
Everett Home and Garden/Sorticulture	6 days 350 people	S5.C.1i(a) LID principles stormwater	WSU Extension and rain garden mentors staffed booths at public events. <i>(based on last year stats and staff estimated attendance)</i>
Master Gardener Training and Certification Program	100 Hours		Master Gardener Certification (March 2015) Natural Yard Care intensive (October 2015) – Apryl Hynes attended
GROSS GRANT – Natural Yard Care evaluation	Everett participated	S5.C.2iic Measure NYC behavior change	2014 program, 2015 evaluation of Natural Yard Care
Chinook Book Giveaway	75 booklets	S5.C.1i(a) stormwater	Chinook Book giveaway to pet waste pledges and volunteers (app has stormwater messaging)
Green Drinks Everett	24 people	S5.C.1i(a) LID principles stormwater	Hosted by Public Works, highlighted newly installed rain gardens through city rebate program

**Based on Federal Food and Drug Administration data that estimates a dog averages .75lbs of waste per day

* [only highlighting main NPDES component of the various events and activities listed here](#)

Operations and Maintenance

See above, under Public Education and Outreach.

IDDE

In 2014, we screened catch basins closest to the creeks in the TMDL basins during the dry season. Only one conveyance had water, which we tested, and came back with a result of 70cfu, which is below standards, and could find no apparent source. We will recheck this conveyance in 2015.

Targeted Source Identification and Elimination

For Wood Creek, with the very low numbers we are down to now, we changed the sampling site to investigate if septic systems from the County hill above are part of the remaining numbers.

For Swamp Creek, we have had continual problems with human feces in an area where day laborers wait outside a Home Depot store (located in the County). This area was mowed in 2013, which helped by removing cover, but it grew back. We then started looking at how to solve the problem permanently, and in the interim the property owners (in 2014) fenced it off. We are now hoping that this problem is solved.

For North Creek, we kept our permit manager informed on a homeless camp with visible feces on the ground under I-5, and worked with DOT to get the camp removed. This was accomplished by the State Patrol, and the site cleaned up. We will be looking for other issues/opportunities to address in these basins as our new sampling results hopefully help elucidate where problems are coming from.

The City of Everett has been working through a Streets Initiative process that uses a social worker to connect the homeless population with needed resources and assistance. Recently there has also been an effort to provide housing as well. Depending on resources and success of the program this effort may be expanded. This program is not related to the Municipal Stormwater Permit efforts however, it has the potential to help with the kinds of issues described above.