



Water Quality Program

Permit Submittal Electronic Certification

Permittee: SEATTLE CITY

Permit Number: WAR044503

Site Address: 700 5TH AVE STE 4900
Seattle, WA 98124-4018

Submittal Name: MS4 Annual Report Phase I City County

Version: 1

Due Date: 3/31/2023

Questionnaire

Number	Permit Section	Question	Answer
1	S9.D.6	Attach a notification of any annexations, incorporations or jurisdictional 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.1	Attach updated annual Stormwater Management Program Plan (SWMP Plan). (S5.A.1)	Q2 - Seattle SWMP 2022 _2_03272023075132
3	S5.A	Implemented an ongoing program to gather, track, and maintain information per S5.A.3, including costs or estimated costs of developing and implementing the SWMP per S5.A.2?	Yes
4	S5.C.2.a	Maintained mapping data for the features listed in S5.C.2.a?	Yes
5	S5.C.2.b.i	Collected outfall size and material in accordance with S5.C.2.b.i (Required to begin no later than January 1, 2020)?	Yes
5a	S5.C.2.b.i	Attach a spreadsheet that lists the known outfalls' size and material(s). (Begin reporting March 31, 2021)	Q5a - MS4_Outfall_2022_5a_03242023084248
6	S5.C.2.b.ii	Completed mapping of known connections from the MS4 to a privately owned stormwater system S5.C.2.b.ii? (Required no later than August 1, 2023)	Yes
7	S5.C.2.b.iii	Counties only: Mapped conveyances as described in S.5.C.2.a.v for 50% of areas outside the urban/higher density rural sub-basins, as described in S.5.C.2.b.iii? (Required by December 31, 2023)	Not Applicable
9	S5.C.3.b.i	Implemented coordination mechanisms clarifying roles and responsibilities for control of pollutants between physically interconnected MS4s per S5.C.3.b.i?	Yes
10	S5.C.3.b.ii	Coordinated stormwater management activities for shared waterbodies among Permittees and Secondary Permittees, as necessary to avoid conflicting plans, policies and regulations? (S5.C.3.b.ii)	Yes

11	S5.C.4.a	Describe in Comments field opportunities created for the public, including overburdened communities, to participate in the decision making processes involving the development, implementation and updates of the SWMP and SMAP (SMAP applies to Counties). (S5.C.4.a)	SPU provides information on the stormwater management program plan on its public website (http://www.seattle.gov/utilities/documents/plans/drainage-and-sewer-plans/stormwater-mgmt-plan) and provides an email (swmp@seattle.gov) that the public can use to ask questions and get more information about the stormwater management program plan. SPU also facilitates the Strategic Business Plan Customer Review Panel, providing an on-going opportunity for citizens to participate in planning and development of policies and programs.
12	S5.C.4.b	Posted the updated SWMP Plan and latest annual report on your website no later than May 31? (S5.C.4.b)	Yes
12a	S5.C.4.b	NOTE website address in Comments field.	https://www.seattle.gov/utilities/about/plans/drainage-and-sewer/stormwater-management-plan
14	S5.C.5.b.iv	Adopted or updated, and made effective the Ecology-approved enforceable requirements, technical standards and manual to meet site and subdivision-scale requirements of S5.C.5.a no later than July 1, 2021? (S5.C.5.b.iv)	Yes
15	S5.C.5.a.i, and Section 5 of Appendix 1	Number of adjustments granted to the minimum requirements in Appendix 1? (S5.C.5.b.i, and Section 5 of Appendix 1)	0
16	S5.C.5.b.i, and Section 6 of Appendix 1	Number of exceptions/variances granted to the minimum requirements in Appendix 1? (S5.C.5.b.i, and Section 6 of Appendix 1)	0
17	S5.C.5.a.v(a)	Reviewed Stormwater Site Plans per S5.C.5.b.vi.(a).	Yes
17a	S5.C.5.a.v(3)	Number of stormwater site plans reviewed during the reporting period?	1670
18	S5.C.5.b.vi.(b)	Inspected, prior to clearing and construction, permitted development sites per S5.C.5.b.vi.(b)?	Yes
19	S5.C.5.b.vi.(c)	Inspected permitted development sites during construction to verify proper installation and maintenance of required erosion and sediment controls per S5.C.5.b.vi.(c)?	Yes

20	S5.C.5.b.vi.(d)	Inspected stormwater treatment and flow control BMPs/facilities and catch basins in new residential developments every 6 months per S5.C.5.b.vi.(d)?	Not Applicable
21	S5.C.5.b.vi(e)	Inspected permitted development sites upon completion of construction and prior to final approval or occupancy to ensure proper installation of stormwater facilities per S5.C.5.b.vi(e)?	Yes
22	(S5.C.5.b.vi(e))	Verified that a maintenance plan is completed and responsibility for maintenance is assigned for stormwater treatment and flow control BMPs/facilities prior to final approval and occupancy being granted? (S5.C.5.b.vi(e))	Yes
23	(S5.C.5.b.vi(b)-(e))	Number of enforcement actions taken during the reporting period (based on construction phase inspections at new development and redevelopment projects)? (S5.C.5.b.vi(b)-(e))	899
24	S5.C.5.a.vi	Achieved at least 80% of scheduled construction-related inspections? (S5.C.5.b.vi.(e))	Yes
25	S5.C.5.a.vii	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.5.b.vii)	Yes
36	See S5.C.6.c.i.	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.6.c.i. (Required annually)	Yes
37	S5.C.6.c.i.(a)	From the assessment described in S5.C.6.c.i. (a), did you identify any administrative or regulatory barriers to implementation of LID Principles or LID BMPs.	No
38	S5.C.5.c.ii	Counties Only: Did you describe in your SWMP how the watershed-scale stormwater plans (developed in the 2013-2018 Permit) are being used to inform S5.C.7 project prioritization and selection? (S5.C.6.d.i)	Not Applicable
39	S5.C.5.c.iv	Counties Only: Developed a Stormwater Management Action Plan pursuant to S5.C.6.d.ii? (Required no later than December 31, 2022.)	Not Applicable
40	S5.C.6.d.iii	Counties Only: If choosing to prepare a SMAP for a catchment area in an alternative watershed, have you submitted your watershed inventory as outlined in S5.C.6.d.iii? (Submitted by March 31, 2022)	Not Applicable
41	S5.C.6.d.iv.	Counties Only: If choosing to prepare a SMAP for a catchment area in an alternative watershed, have you developed a receiving water prioritization method and process as described in S5.C.6.d.iv? (Required by June 30, 2022)	Not Applicable

42	S5.C.6.d.v	Counties Only: If choosing to prepare a SMAP for a catchment area in an alternative watershed, have you developed a Stormwater Management Action Plan (SMAP) for at least one high-priority area? (S5.C.6.d.v – Required by December 31, 2022)	Not Applicable
43	S5.C.7.c	Submitted a list of planned, individual projects scheduled for implementation during this permit term with the information and formatting specified in Appendix 12? (S5.C.7.c)	Yes
43a	S5.C.7.c	Attach an updated list annually. (S5.C.7.c)	Q43a - Appendix 12 SSC table_43a_0324202308 4845
44	S5.C.7.c	Did you achieve the required retrofit incentive points as required in S.5.C.7.d? (Required by December 31, 2022.)	Yes
45	S5.C.8.b.ii	Updated inventory to identify commercial and industrial properties which have the potential to generate pollutants to the Permittee's MS4 per S5.C.8.b.ii? (Required once every five years.)	Yes
45a.	S5.C.8.b.ii	Number of total sites identified for inventory?	1935
46	S5.C.8.b.iii and S5.C.8.b.iv	Attach a summary of actions taken to implement the source control program per S5.C.8.b.iii and S5.C.8.b.iv.	Q46 - Summary of SC Program Ac_46_0324202308512 9
47	S5.C.8.b.iii	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.	Q47 - Business Inspections - 2_47_03242023085129
48	S5.C.8.b.v	Implemented an ongoing source control training program per S5.C.8.b.v?	Yes
49	S5.C.8.b	Continued to implement the regulatory mechanisms to effectively prohibit illicit discharges into the MS4 per S5.C.9.b	Yes
50	S5.C.9.b	Implemented procedures for conducting illicit discharge investigations in accordance with S5.C.9.b?	Yes

50a.	S5.C.9	Cite field screening methodology used in the Comments field.	<p>SPU IDDE QAPP: The general approach to field screening is to begin at an accessible location at or near the discharge point of a drainage basin, such as an outfall, key maintenance hole, ditch, or other structure. Field screening is performed at multiple key locations in most drainage basins instead of relying on elevated concentrations to be found only at the downstream discharge point. The size of the drainage basin is used to determine the number of locations screened. Key upstream maintenance holes representing major branches of the conveyance system are screened in larger basins in order to decrease the size of the area screened by an individual sample. The purpose of this approach is to help detect discharges that may be diluted and, therefore, masked by groundwater intrusion or blended flows. See Appendix B of the SWMP for additional details.</p>
51	S5.C.9	Provide the percentage of conveyance systems screened in reporting year per S5.C.9.c.i(a). (Required to screen 12% each year.)	14

51a.	S5.C.9	Cite field screening techniques used to determine percent of MS4 screened.	Drainage basins are selected and screened systematically until complete, starting from near the outfall and working upstream, with a focus on a maximum of a few basins at any one time. Basins are sampled at major piped junctions until a thorough coverage of the basin is screened, and until it is determined that all dry weather flow that is samplable has been. Any trigger values are investigated to determine potential sources, and all discovered illicit discharges or connections are resolved. Upon completion of the dry weather season, all basins completed are selected and geographically compared to the total MS4 drainage area in the City. The area completed is determined as a percentage of the total area of the MS4 coverage. See Appendix B of the SWMP for additional details.
52	S5.C.9	Percentage of total MS4 screened from permit effective date through the end of the reporting year?	44
53	S5.C.9	How is your hotline telephone number being publicized?	The hotline phone number is advertised through distributed media (magnets and fliers) at trade shows, community events, project meetings, and during inspections conducted by SPU Source Control staff. Additionally, it is featured prominently in a variety of locations on the City of Seattle website and the SPU website. As we have found that the public likes to utilize digital options, SPU has provided an online reporting option as well.

54	S5.C.9	Implemented an ongoing illicit discharge training program for all municipal field staff per S5.C.9.c.iii?	Yes
55	S5.C.9	Implemented an ongoing program to characterize, trace, and eliminate illicit discharges into the MS4 per S5.C.9.d?	Yes
56	S5.C.9.e	Trained staff responsible for illicit discharge detection and elimination activities per S5.C.9.e?	Yes
57	S5.C.9.f	Participated in a regional emergency response program, or implemented procedures to investigate and respond to spills and improper disposal? (S5.C.9.f)	Yes
58	S5.C.9.g	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.9.g. The submittal must include all of the applicable information and must follow the format described in Appendix 14.	WAR044503-2022-ImportedIDDEs_03282023152127
59	S5.C.10.a	Implemented maintenance standards that are as protective, or more protective, of facility function than those specified in the Stormwater Management Manual for Western Washington? (S5.C.10.a)	Yes
60	S5.C.10.a	Updated maintenance standards per S5.C.10.a no later than June 30, 2021?	Yes
61	S5.C.10.a	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.10.a)	The City has Filterra products and other proprietary BMPs for which we follow the manufacturer maintenance standards.
62	S5.C.10.a.ii	Verified that maintenance was performed per the schedule in S5.C.10.a.ii when an inspection identified an exceedance of the maintenance standard.	Yes
62a	S5.C.10.a.ii	Attach documentation of maintenance time frame exceedances that were beyond the Permittee's control.	Not Applicable
63	S5.C.10.b.i	Evaluated and, if necessary, updated the existing ordinances or other enforceable documents requiring maintenance of all stormwater treatment and flow control BMPs/facilities (including catch basins that are part of the facilities) regulated by the Permittee. (S5.C.10.b.i)	Yes

63a	S5.C.10.b.i	If updated, cite ordinance or other enforceable document.	Seattle Municipal Code Chapters 22.800-22.808 titled, "Stormwater Code" as adopted in May 2021 (Ordinance 126336), effective July 1, 2021. Joint SPU/SDCI Directors' Rules titled, "Stormwater Manual" (Directors' Rule SPU DWW-200/SDCI 10-2021), effective July 1, 2021.
64	S5.C.10.b.ii	Implemented an ongoing inspection program for stormwater treatment and flow control BMPs/facilities regulated by the Permittee per S5.C.10.b.ii.	Yes
65	S5.C.10.b.ii	If using reduced inspection frequency on stormwater treatment and flow control BMPs/facilities regulated by the Permittee for the first time during this permit cycle, attach documentation per S5.C.10.b.ii.	Not Applicable
66	S5.C.10.b.iii	Achieved at least 80% of inspections required per S5.C.10.b.ii and iii? (S5.C.10.b.iv)	Yes
67	S5.C.10.c.i	Number of known municipally owned or operated stormwater treatment and flow control BMPs/facilities? (S5.C.10.c.i)	619
67a	S5.C.10.c.i	Number of municipally owned or operated stormwater treatment and flow control BMPs/facilities inspected during the reporting period? (S5.C.10.c.i)	607
67b	S5.C.10.c.i	Number of municipally owned or operated stormwater treatment and flow control BMPs/facilities for which maintenance was performed during the reporting period? (S5.C.10.c.i)	435
68	S5.C.10.c.i	If using reduced inspection frequency for municipally owned or operated stormwater treatment and flow control BMPs/facilities for the first time during this permit cycle, attach documentation per S5.C.10.c.i.	Not Applicable
69	S5.C.10.c.ii	Conducted spot checks and inspections, if necessary, of potentially damaged stormwater treatment and flow control BMPs/facilities after major storm events? (S5.C.10.c.ii)	Yes
70	S5.C.10.c.iii	Achieved at least 95% of required inspections per S5.C.10.c.iii?	Yes
71	S5.C.10.d.i	Inspected municipally owned or operated catch basins and inlets every year or used an alternative approach? (S5.C.10.d.i)	Yes
71a.	S5.C.10.d.i	Number of known catch basins?	23603
71b.	S5.C.10.d.i	Number of catch basins inspected during the reporting period?	22814
71c.	S5.C.10.d.i	Number of catch basins cleaned during the reporting period?	4889

71d.	S5.C.10.d.i	Attach documentation of alternative catch basin inspection approach, if used. (S5.C.10.d.i.(a)-(c))	Not Applicable
72	S5.C.10.d.iii	Achieved at least 95% of required catch basin inspections? (S5.C.10.d.iii)	Yes
73	S5.C.10.e	Implemented practices, policies, and procedures to reduce stormwater impacts per S5.C.10.e?	Yes
74	S5.C.10.e	Documented practices, policies, and procedures to reduce stormwater impacts per S5.C.10.e?	Yes
74a	S5.C.10.e	Cite documentation in the comments	<p>O_M Activity Stormwater BMPs FAS 12162022 City Light O&M Documentation IG 2A Pesticide Rinsate IG 6 Monthly Sweeping WP Building Washing WP Roof Drain and Gutter Cleaning O_M Activity Stormwater BMPs Final_SDOT Drain Ditch Maintainance_SPR Fertilization_SPR Maintaining Roadside Areas including vegetation management_SPR Off Leash Area Maintenance_SPR Pesticide Application_SPR DWW Ops Stormwater BMP Manual 12-22-22 O_M Activity Stormwater BMPs SPU Cheat Sheet SPU SWPPP OCC- NOC-December 2022 updatesWHsigned SPU SWPPP SOC- December 2022_ (002)_encrypted Water Ops Stormwater bmps 12-20-22 Best Management Practices for Landscape, Horticulture and Forestry_SPR Standard Specifications for Road, Bridge, and Municipal Construction and Standard Plans for Municipal Construction_CoS Manual for Unified Traffic Control Devices Volume 4 of the City's Stormwater Manual</p>

75	S5.C.10.f	Implemented an ongoing training program per S5.C.10.f?	Yes
76	S5.C.10.g	Implemented a Stormwater Pollution Prevention Plan for all heavy equipment maintenance or storage yards, and material storage facilities per S5.C.10.g?	Yes
77	S5.C.11	Did you choose to adopt one or more elements of a regional program? (S5.C.11)	Yes
77a	S5.C.11	If yes, list the elements, and the regional program.	SPU participated in the regional STORM and Puget Sound Starts Here networks. - Contributed to advertising campaign for Puget Sound Starts Here month in September, including social media and bus ads - Used existing public service announcements for BMPs for non-point source pollution - Participated in STORM and PSSH steering committees - Housed the STORM coordinator position - See 2021 EO General Awareness Report for more details
78	S5.C.11	Attach description of public education and outreach general awareness efforts conducted, including your target audiences and subject areas, per S5.C.11.a.i.	Q78 - 2022 General Awareness a_78_03282023153023
82	S5.C.11.a.vi	Attach the report developed in accordance with S5.C.11.a.vi, which evaluated the changes in understanding and adoption of targeted behaviors resulting from the implementation of the strategy and any planned or recommended changes to the program in order to be more effective. (Required to submit no later March 31, 2024)	Not Applicable
83	S5.C.11.b	Promoted stewardship opportunities (or partnered with others) to encourage resident participation in activities such as those described in S5.C.11.b?	Yes
83a	S5.C.11.b	Attach a list of stewardship opportunities promoted.	Q83a - Stewardship Opportuniti_83a_03282023110049
84	S7.A	Complied with the Total Maximum Daily Load (TMDL)-specific requirements identified in Appendix 2? (S7.A)	Not Applicable
84a	S8.A	List any requirements that were not met.	Not Applicable
85	S8.B.1.a	For TMDL 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

86	S8.B.1.b.iii	Submitted payment for cost-sharing for Stormwater Action Monitoring (SAM) status and trends monitoring no later than December 1, 2019 (S8.A.1); and no later than August 15 of each subsequent year? (S8.A.2.a)	No Comment: As a consequence of personnel shortages and staff turnover, the City did not complete its annual payment into the collective funds for S8.A Regional Status and Trends Monitoring and S8.B Effectiveness and Source Identification Studies by the August 15th Deadline in S8.D.2.b. The City completed its payment on August 23rd, 2022. A G20 was submitted to the Washington State Department of Ecology on September 1st, 2022. Staff responsible for the payment have been trained prevent this from occurring in the future.
91	S8.C.2	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)	No Comment: As a consequence of personnel shortages and staff turnover, the City did not complete its annual payment into the collective funds for S8.A Regional Status and Trends Monitoring and S8.B Effectiveness and Source Identification Studies by the August 15th Deadline in S8.D.2.b. The City completed its payment on August 23rd, 2022. A G20 was submitted to the Washington State Department of Ecology on September 1st, 2022. Staff responsible for the payment have been trained prevent this from occurring in the future.
98	S8.D	If conducting stormwater discharge monitoring in accordance with S8.C.2, attach a data and analysis report per S8.C.2.d. and Appendix 9. (Due annually beginning March 31, 2021.)	Not Applicable
99	G3	Notified Ecology in accordance with G3 of any discharge into or from the Permittee's MS4 which could constitute a threat to human health, welfare or the environment? (G3)	Yes

100	G3.A	Took appropriate action to correct or minimize the threat to human health, welfare, and/or the environment per G3.A?	Yes
101	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
102	S4.F.3.a	If requested, submitted an Adaptive Management Response report in accordance with S4.F.3.a?	Yes
102a	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)	Q102a - Actions Taken Pursuant_102a_032420 23103031
103	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
104	G20	Number of non-compliance notifications (G20) provided in reporting year? List permit conditions described in non-compliance notification(s) in Comments field.	Section 2.a of the Operations & Maintenance section of Appendix 13 - Adaptive Management Requirements Section 2.a of the Operations & Maintenance section of Appendix 13 - Adaptive Management Requirements Section 2.a of the Operations & Maintenance section of Appendix 13 - Adaptive Management Requirements Section S5.C.2 – MS4 Mapping and Documentation

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.

Ellen Stewart

3/29/2023 8:17:15 AM

Signature

Date