



Water Quality Program

Permit Submittal Electronic Certification

Permittee: PORT OF SEATTLE

Permit Number: WAR044701

Site Address: PIER 69
Seattle, WA 98111

Submittal Name: MS4 Annual Report Phase I Ports

Version: 1

Due Date: 3/31/2018

Questionnaire

Number	Permit Section	Question	Answer
1	S9.E.5	Attach a notification of any jurisdictional boundary changes resulting in an increase or decrease in the Permittee's geographic area of permit coverage during the reporting period. per S9.E.5.	Not Applicable
2	S6.E.1.a	Made educational material available to tenants and employees. (S6.E.1.a)	Yes
3	S6.E.2	Made the annual report and most recent version of the SWMP Plan available on website. (S6.E.2)	Yes
4	S6.E.3.a	Complied with all relevant ordinances, rules, and regulations of the local jurisdiction(s) that govern non-stormwater discharges. (S6.E.3.a)	Yes
5	S6.E.3.b	Implemented policies to prohibit illicit discharges. (S6.E.3.b)	Yes
6	S6.E.3.b	Implemented an enforcement plan to ensure compliance with illicit discharge policies. (S6.E.3.b)	Yes
7	S6.E.3.c	Maintained mapping data for the features listed in S6.E.3.c?	Yes
8	S6.E.3.c.ii	Mapped tributary conveyances and the associated drainage areas of MS4 outfalls with a 12 inch nominal diameter or larger, or an equivalent cross-sectional area for non-pipe systems? (Required no later than December 31, 2017, S6.E.3.c.ii)	Yes
9	S6.E.3.c.iii	Mapped known connections greater than or equal to 8 inches in nominal diameter to mapped tributary conveyances? (Required no later than December 31, 2017, S6.E.3.c.iii)	Yes
10	S6.E.3.c.v	Implemented a program to document operation and maintenance records for stormwater treatment and flow control BMPs/facilities and catch basins? (S6.E.3.c.v)	Yes
11	S6.E.3.d	Conducted field screening of at least 20% of the MS4 to detect illicit discharges and illicit connections? (S6.E.3.d)	Yes
12	S6.E.3.d	Implemented procedures to identify and remove illicit discharges and illicit connections? (S6.E.3.d)	Yes

13	S6.E.3.d	Number of illicit discharges, including illicit connections, eliminated during the reporting period? (S6.E.3.d)	6
13b	S6.E.3.d	Attach a summary of illicit discharges discovered and actions taken to eliminate the discharges. (S6.E.3.d)	2018-0305_PhaseIAnnualReport_A_13b_03052018114303
14	S6.E.3.e	Implemented a spill response plan that includes coordination with a qualified spill responder? (S6.E.3.e)	Yes
15	S6.E.3.f	Provided staff training or coordinated with existing training efforts to educate staff on proper BMPs for preventing illicit discharges and for identifying, reporting, and responding as appropriate? (S6.E.3.f)	Yes
16	S6.E.4.a	Complied with all relevant ordinances, rules, and regulations of the local jurisdiction(s) that govern construction phase stormwater pollution prevention measures? (S6.E.4.a)	Yes
17	S6.E.4.b	Ensured that all construction projects under the functional control of the Permittee obtained applicable NPDES permit coverage? (S6.E.4.b)	Yes
18	S6.E.4.c	Coordinated with local jurisdiction(s) on construction projects owned or operated by other entities that discharge into the Permittee's MS4? (S6.E.4.c)	Yes
19	S6.E.4.d	Provided staff training or coordinated with existing training efforts to educate staff on erosion and sediment control BMPs and requirements, or hired trained contractors to perform the work? (S6.E.4.d)	Yes
20	S6.E.4.e	Provided access, as requested, for inspection of construction sites under the functional control of the Permittee during land disturbing activities and/or the construction period? (S6.E.4.e)	Yes
21	S6.E.5.a	Complied with all relevant ordinances, rules, and regulations of the local jurisdiction(s) that govern post-construction stormwater pollution prevention measures, including proper operation and maintenance of the MS4? (S6.E.5.a)	Yes
22	S6.E.5.b	Coordinated with local jurisdiction regarding projects owned or operated by other entities which discharge into the Permittee's MS4? (S6.E.5.b)	Yes
23	S6.E.6.a	Implemented an operation and maintenance (O&M) manual for all stormwater treatment and flow control BMPs/facilities and catch basins? (S6.E.6.a)	Yes
24	S6.E.6.a.i	Updated the O&M manual following discovery or construction of new stormwater facilities? (S6.E.6.a.i)	Yes
26	S6.E.6.b	Inspected stormwater facilities listed in the O&M manual and took appropriate maintenance action? (S6.E.6.b)	Yes
26b	S6.E.6.b	Number of stormwater facilities inspected during the reporting period?	1170

26c	S6.E.6.b	Number of maintenance actions taken during the reporting period?	1385
27	S6.E.6.c	Provided appropriate training for maintenance staff? (S6.E.6.c)	Yes
28	S6.E.6.d	Maintained records of inspections and maintenance activities? (S6.E.6.d)	Yes
29	S6.E.7.a	Updated Stormwater Pollution Prevention Plans (SWPPPs) as necessary? (S6.E.7.a)	Yes
30	S6.E.7.d.	Inspected at least 20% of all sites covered by SWPPPs required under this permit? (S6.E.7.d.)	Yes
30b	S6.E.7.d.	Number of sites covered under SWPPPs?	44
30c	S6.E.7.d.	Number of sites inspected?	16
31	S6.E.7.f	SWPPPs include measures to prevent, identify and respond to illicit discharges, including illicit connections, spills and improper disposal? (S6.E.7.f)	Yes
32	S6.E.7.g	SWPPPs include a component related to inspection and maintenance of stormwater facilities and catch basins that is consistent with the O&M Program? (S6.E.7.g)	Yes
33	S7	Is there an approved Total Maximum Daily Load (TMDL) applicable to stormwater discharges from a MS4 owned or operated by the Permittee? (S7)	No
36	G20	Notified Ecology of the failure to comply with the permit terms and conditions within 30 days of becoming aware that the non-compliance has occurred. (G20)	Not Applicable
37	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
38	G3.A	Took appropriate action to correct or minimize the threat to human health, welfare, and/or the environment per G3.A.	Yes
39	S4.F.3.d	If applicable, 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
40	S8.A	Attach a description of any stormwater monitoring or stormwater-related studies per S8.A?	2018-0305_PhaseIAnnualReport_A_40_03052018114502
41	S8.B.1.a	Submitted payment for participating in cost-sharing for regional stormwater monitoring program (RSMP) status and trends monitoring? (S8.B.1.a)	Yes
42	S8.B.1.b.iii	If choosing to conduct monitoring in accordance with S8.B.1.b, attach a data report in accordance with the approved QAPP per S8.B.1.b.iii? (Required to begin monitoring no later than October 1, 2015)	Not Applicable
43	S8.C.1	Submitted payment for participating in cost-sharing for RSMP effectiveness studies? (S8.C.1)	Yes

45	S8.C.2.b, Appendix 9	If choosing to conduct discharge monitoring in accordance with S8.C.2.b, attach an annual stormwater monitoring report per Appendix 9? (Submit reports beginning March 31, 2016).	Not Applicable
46	S8.C.3.a	Submitted payment for participating in cost-sharing for RSMP effectiveness studies? (S8.C.3.a)	Not Applicable
51	S8.D.1	Submitted payment for participating in cost-sharing for the RSMP Source Identification Information Repository? (S8.D.1)	Yes

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.

Stephanie Jones

3/15/2018 12:15:23 PM

Signature

Date

APPENDIX 3 – Annual Report Questions for the Port of Seattle and the Port of Tacoma

VI. Status Report Covering Calendar Year 2017

Permittees are required to submit annual reports online or in a format provided by Ecology, pursuant to Special Condition S9.A.

-
1. YES ☐ NO ☐ **Attach** a notification of any jurisdictional boundary changes resulting in an increase or decrease in the Permittee's geographic area of permit coverage during the reporting period. per S9.E.5.
NA ☒

Comments: There were no boundary changes in 2017.

S6.E Stormwater Management Program

S6.E.1 Education Program

2. YES ☒ NO ☐ Made educational material available to tenants and employees. (S6.E.1.a)

Comments:

S6.E.2 Public Involvement and Participation

3. YES ☒ NO ☐ Made the annual report and most recent version of the SWMP Plan available on website. (S6.E.2)

Comments:

S6.E.3 Illicit Discharge Detection and Elimination

4. YES ☒ NO ☐ Complied with all relevant ordinances, rules, and regulations of the local jurisdiction(s) that govern non-stormwater discharges. (S6.E.3.a)

Comments:

5. YES ☒ NO ☐ Implemented policies to prohibit illicit discharges. (S6.E.3.b)

Comments:

6. YES ☒ NO ☐ Implemented an enforcement plan to ensure compliance with illicit discharge policies. (S6.E.3.b)

Comments:

Phase I Municipal Stormwater Permit

-
7. YES ☒ NO ☐ Maintained mapping data for the features listed in S6.E.3.c?
- Comments:*
-
8. YES ☒ NO ☐ Mapped tributary conveyances and the associated drainage areas of MS4 outfalls with a 12 inch nominal diameter or larger, or an equivalent cross-sectional area for non-pipe systems? (Required no later than December 31, 2017, S6.E.3.c.ii)
- Comments:*
-
9. YES ☒ NO ☐ Mapped known connections greater than or equal to 8 inches in nominal diameter to mapped tributary conveyances? (Required no later than December 31, 2017, S6.E.3.c.iii)
- Comments:*
-
10. YES ☒ NO ☐ Implemented a program to document operation and maintenance records for stormwater treatment and flow control BMPs/facilities and catch basins? (S6.E.3.c.v)
- Comments:*
-
11. YES ☒ NO ☐ Conducted field screening of at least 20% of the MS4 to detect illicit discharges and illicit connections? (S6.E.3.d)
- Comments:* Field screening conducted for 30.8% of MS4
-
12. YES ☒ NO ☐ Implemented procedures to identify and remove illicit discharges and illicit connections? (S6.E.3.d)
- Comments:*
-
13. YES ☒ NO ☐ Number of illicit discharges, including illicit connections, eliminated during the reporting period: (S6.E.3.d)
- Comments:* 6 illicit discharges identified and eliminated in 2017
-
- 13b. Attach a summary of illicit discharges discovered and actions taken to eliminate the discharges. (S6.E.3.d)
- Comments:* Summary included in Attachment 1
-

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14. YES ☒ NO ☐ Implemented a spill response plan that includes coordination with a qualified spill responder? (S6.E.3.e)

Comments:

15. YES ☒ NO ☐ Provided staff training or coordinated with existing training efforts to educate staff on proper BMPs for preventing illicit discharges and for identifying, reporting, and responding as appropriate? (S6.E.3.f)

Comments:

S6.E.4 Construction Site Stormwater Control

16. YES ☒ NO ☐
NA ☐ Complied with all relevant ordinances, rules, and regulations of the local jurisdiction(s) that govern construction phase stormwater pollution prevention measures? (S6.E.4.a)

Comments:

17. YES ☒ NO ☐ Ensured that all construction projects under the functional control of the Permittee obtained applicable NPDES permit coverage? (S6.E.4.b)

Comments:

18. YES ☒ NO ☐
NA ☐ Coordinated with local jurisdiction(s) on construction projects owned or operated by other entities that discharge into the Permittee's MS4? (S6.E.4.c)

Comments:

19. YES ☒ NO ☐
NA ☐ Provided staff training or coordinated with existing training efforts to educate staff on erosion and sediment control BMPs and requirements, or hired trained contractors to perform the work? (S6.E.4.d)

Comments:

20. YES ☒ NO ☐
NA ☐ Provided access, as requested, for inspection of construction sites under the functional control of the Permittee during land disturbing activities and/or the construction period? (S6.E.4.e)

Comments:

August 1, 2013

Modified August 19, 2016

Appendix 3 – Annual Report Form for the Port of Seattle and the Port of Tacoma

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S6.D.5 Post-Construction Stormwater Management for New Development and Redevelopment

21. YES ☒ NO ☐ Complied with all relevant ordinances, rules, and regulations of the local jurisdiction(s) that govern post-construction stormwater pollution prevention measures, including proper operation and maintenance of the MS4? (S6.E.5.a)

Comments:

-
22. YES ☒ NO ☐ Coordinated with local jurisdiction regarding projects owned or operated by other entities which discharge into the Permittee's MS4? (S6.E.5.b)

Comments:

S6.E.6 Operation and Maintenance Program

23. YES ☒ NO ☐ Implemented an operation and maintenance (O&M) manual for all stormwater treatment and flow control BMPs/facilities and catch basins? (S6.E.6.a)

Comments:

-
24. YES ☒ NO ☐ Updated the O&M manual following discovery or construction of new stormwater facilities? (S6.E.6.a.i)

Comments:

-
25. YES ☒ NO ☐ Updated maintenance standards, as necessary, per S6.E.6.a.ii? (Required no later than July 1, 2016)

Comments:

-
26. YES ☒ NO ☐ Inspected stormwater facilities listed in the O&M manual and took appropriate maintenance action? (S6.E.6.b)

Comments:

-
- 26b. Number of stormwater facilities inspected during the reporting period: 1,170
_____.

Comments:

Phase I Municipal Stormwater Permit

26c. Number of maintenance actions taken during the reporting period: 1,385
_____.

Comments:

27. YES ☒ NO ☐ Provided appropriate training for maintenance staff?
(S6.E.6.c)

Comments:

28. YES ☒ NO ☐ Maintained records of inspections and maintenance activities? (S6.E.6.d)

Comments:

S6.E.7 Source Control in existing Developed Areas

29. YES ☒ NO ☐ Updated Stormwater Pollution Prevention Plans (SWPPPs) as necessary?
(S6.E.7.a)

Comments:

30. YES ☒ NO ☐ Inspected at least 20% of all sites covered by SWPPPs required under this
permit? (S6.E.7.d.)

Comments: 36.4% of sites inspected

30b. Number of sites covered under SWPPPs: 44 _____

Comments:

30c. Number of sites inspected: 16 _____

Comments:

31. YES ☒ NO ☐ SWPPPs include measures to prevent, identify and respond to illicit
discharges, including illicit connections, spills and improper disposal?
(S6.E.7.f)

Comments:

32. YES ☒ NO ☐ SWPPPs include a component related to inspection and maintenance of
stormwater facilities and catch basins that is consistent with the O&M
Program? (S6.E.7.g)

August 1, 2013

Modified August 19, 2016

Comments:

S7. Compliance with Total Maximum Daily Load Requirements

33. YES ☐ NO ☒ Is there an approved Total Maximum Daily Load (TMDL) applicable to stormwater discharges from a MS4 owned or operated by the Permittee? (S7)

Comments:

34. YES ☐ NO ☐
NA ☒ Complied with the specific requirements identified in Appendix 2. (S7.A)

Comments:

35. YES ☐ NO ☐
NA ☒ Attached status report of TMDL implementation. (S7.A)

Comments:

General Conditions

36. YES ☐ NO ☐
NA ☒ Notified Ecology of the failure to comply with the permit terms and conditions within 30 days of becoming aware that the non-compliance has occurred. (G20)

Comments:

37. YES ☒ NO ☐
NA ☐ 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)

Comments:

38. YES ☒ NO ☐ Took appropriate action to correct or minimize the threat to human health, welfare, and/or the environment per G3.A.

Comments:

S4 Compliance with Standards

39. YES ☐ NO ☐ If applicable, attached a summary of the status of implementation of any

Phase I Municipal Stormwater Permit

NA <input checked="" type="checkbox"/>	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)
<i>Comments:</i>	

S8 Monitoring and Assessment

40. YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NA <input type="checkbox"/>	Attach a description of any stormwater monitoring or stormwater-related studies per S8.A?
<i>Comments:</i> Summary included in Attachment 2	

41. YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	Submitted payment for participating in cost-sharing for regional stormwater monitoring program (RSMP) status and trends monitoring? (S8.B.1.a)
<i>Comments:</i>	

42. YES <input type="checkbox"/> NO <input type="checkbox"/> NA <input checked="" type="checkbox"/>	If choosing to conduct monitoring in accordance with S8.B.1.b, attach a data report in accordance with the approved QAPP per S8.B.1.b.iii? (Required to begin monitoring no later than October 1, 2015)
<i>Comments:</i>	

43. YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	Submitted payment for participating in cost-sharing for RSMP effectiveness studies? (S8.C.1)
<i>Comments:</i>	

44. YES <input type="checkbox"/> NO <input type="checkbox"/> NA <input checked="" type="checkbox"/>	If choosing to conduct stormwater discharge monitoring in accordance with S8.C.2.b, submitted a QAPP to Ecology no later than February 2, 2014? (S8.C.2.c)
<i>Comments:</i>	

45. YES <input type="checkbox"/> NO <input type="checkbox"/> NA <input checked="" type="checkbox"/>	If choosing to conduct discharge monitoring in accordance with S8.C.2.b, attach an annual stormwater monitoring report per Appendix 9? (Submit reports beginning March 31, 2016).
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August 1, 2013

Modified August 19, 2016

Phase I Municipal Stormwater Permit

Comments:

46. YES ☐ NO ☐
NA ☒ Submitted payment for participating in cost-sharing for RSMP effectiveness studies? (S8.C.3.a)

Comments:

47. YES ☐ NO ☐
NA ☒ Submitted a detailed study proposal to Ecology no later than February 2, 2014 per S8.C.3.b.i?

Comments:

48. YES ☐ NO ☐
NA ☒ Submitted a QAPP to Ecology within 120 days of Ecology's approval of the detailed study proposal? (S8.C.3.b.ii)

Comments:

49. YES ☐ NO ☐
NA ☒ Began full implementation of the study no later than six months following QAPP approval? (S8.C.3.b.iii)

Comments:

50. YES ☐ NO ☐
NA ☒ **Attach** interim results and status report. (S8.C.3.b.iv)

Comments:

51. YES ☒ NO ☐ Submitted payment for participating in cost-sharing for the RSMP Source Identification Information Repository? (S8.D.1)

Comments:

Port of Seattle 2017 Annual Report
Phase I Municipal Stormwater Permit Number WAR044701
Attachment #1 – Illicit Discharges Identified and Resolved

IDDE Incident Number	Date	Facility	IDDE Description	Port Actions Taken	Status
1	1/25/2017	T91	Seattle Fire Department (SFD) responded to a trailer fire at Terminal 91. SFD utilized fire fighting foam to put out the fire, and an unknown quantity was released to the water through the deck drains.	Terminal 91 staff utilized plugs located within the nearest spill kit to plug the adjacent deck drains once it was safe to do so in order to minimize the release. The Port contracted NRC Environmental Services and Marine Vacuum Services to pressure wash the affected areas, collecting all water, foam, and building debris via a vacuum truck.	Resolved
2	3/1/2017	T91	During a routine stormwater inspection, ponding of gray colored residue was observed in puddles on the asphalt adjacent to CB 867. Within the catch basin, milky colored water was observed. Source of the spill was likely a nearby truck with its engine removed.	Port personnel placed two absorbent socks within CB 867 to contain the spill, which was then cleaned out by a vacuum truck. Port personnel inspected the downstream structure (MH 5151) and did not observe any evidence of the spill. The Port Stormwater Program Manager met with T91 Operations Staff to discuss activities and stormwater BMPs. T91 Operations Staff subsequently met with the tenant to discuss these items.	Resolved
3	8/9/2017	FT	Operations staff at Fishermen's Terminal were observed sweeping dock debris into the waterway.	The Stormwater Program Manager for the Port contacted the Operations Supervisor at Fishermen's Terminal to ensure staff was trained on appropriate best practices and discuss the need for more frequent cleanings by Port personnel; and conducted training for Fishermen's Terminal staff on October 24, 2017.	Resolved
4	8/28/2017	T91	Port personnel observed confetti debris located in and around CB 8436 during a site walk.	The confetti debris located around the catch basin was picked up by hand, and Port Maintenance was dispatched to clean the affected catch basin. No debris was observed in the downstream structure (CB 5473).	Resolved
5	8/31/2017	P66	Several broken sewer pipes located under the pier at Anthony's Restaurant were observed.	Port personnel investigated the broken piping. All leaking pipes and drains were located and plugged or put out of use.	Resolved
6	10/23/2017	T91	Port personnel observed a large area of dirty, muddy water on an asphalt parking lot. After investigation, the source was determined to be trucks/trailers dewatering at this location.	Utilizing a vacuum truck, the area of standing water was cleaned. No evidence of the turbid water was observed past the downstream structure of CB 816. The associated lines were jetted and cleaned. The Port contacted the licensee of the property to stop these practices at the facility.	Resolved

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Attachment #2 – Summary of Stormwater Monitoring and Stormwater Related Studies

1. Terminal 10 Annual Stormwater Treatment System O&M

In 2011, the Port completed redevelopment activities at Terminal 10, which included the design and installation of stormwater treatment vaults. Ongoing maintenance and evaluation of the stormwater treatment system is required by the United States Environmental Protection Agency (EPA), with associated reporting. An Operations and Maintenance (O&M) report for 2017, as described in the Stormwater Pollution Prevention Plan for Terminal 10, was completed in February 2018 and provided to the EPA and Lockheed as part of long-term monitoring in the Lower Duwamish Waterway.

2. Terminal 102 Roof Runoff/Downspout Study

In 2016, the Port collected stormwater samples discharging from distinct downspouts at Terminal 102 Building A and were analyzed for the following: diesel range hydrocarbons (NWTPH-Dx), total copper, and total zinc. Turbidity and pH field measurements were taken. The analytical results suggest that the roof of Building A is a minor source for the target chemicals of concern and turbidity. Barrels with oyster shells were installed on the downspouts for Building A and B in February 2017. Two stormwater sampling events have taken place to evaluate effectiveness of the oyster shell barrels. Stormwater monitoring will continue in 2018.

3. Terminal 117

The Port conducted continued monitoring of Terminal 117 throughout the year in accordance with the Interim Stormwater Control and Monitoring Plan developed with the EPA for the site in February 2016. Monitoring included site inspections and field turbidity measurements.

4. Terminal 25

Northwest Seaport Alliance (NWSA) collected stormwater samples from catch basins and manholes at the Terminal 25 parking area to evaluate runoff characteristics and determine the types of best management practices (BMPs) that could be implemented to proactively manage stormwater runoff from the site.

5. Industrial Stormwater General Permit (ISGP) Permitted Facilities

As required by the ISGP, quarterly stormwater benchmark monitoring occurred at permitted facilities on Port of Seattle property in 2017.