



## CERTIFICATION STATEMENT

### 2017 ANNUAL REPORT Submittal for APDES Permit No. AKS-052558

I certify under penalty of law that these documents and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the 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.

On behalf of the Municipality of Anchorage

On behalf of the Alaska Department  
of Transportation and Public Facilities

  
\_\_\_\_\_  
J.W. Hansen  
Director of Project Management and Engineering

\_\_\_\_\_  
David M. Kemp, P.E., PMP  
Regional Director

Date: 2/15/18

Date: \_\_\_\_\_

Point of contact:

Jerry Hansen  
Director of Project Management and Engineering  
Municipality of Anchorage  
P.O. Box 196650  
Anchorage, AK 99519-6650  
Phone: 907-343-8143





### 5. Illicit Discharge Elimination

- A. Have you completed a map of all outfalls and receiving waters of your storm sewer system?  Yes  No
- B. Have you completed a map of all storm drain pipes and other conveyances in the storm sewer system?  Yes  No
- C. Identify the number of outfalls in your storm sewer system. 231 Major, 494 Minor
- D. Do you have documented procedures, including frequency, for screening outfalls?  Yes  No
- E. Of the outfalls identified in 5.C, how many were screened for dry weather discharges during this reporting period? 57
- F. Of the outfalls identified in 5.C, how many have been screened for dry weather discharges at any time since you obtained MS4 permit coverage? 375
- G. What is your frequency for screening outfalls for illicit discharges? Describe any variation based on size/type. Rotate through a minimum of 3 watersheds per year from which annual screening looks at more than 30 outfalls to find 15 from which to sample flow every year Annually
- H. Do you have an ordinance or other regulatory mechanism that effectively prohibits illicit discharges?  Yes  No
- I. Do you have an ordinance or other regulatory mechanism that provides authority for you to take enforcement action and/or recover costs for addressing illicit discharges?  Yes  No
- J. During this reporting period, how many illicit discharges/illegal connections have you discovered? 5
- K. Of those illicit discharges/illegal connections that have been discovered or reported, how many have been eliminated? 5
- L. How often do municipal employees receive training on the illicit discharge program? Annually

### 6. Storm Water Management for Municipal Operations

- A. Have storm water pollution prevention plans (or an equivalent plan) been developed for:
- All public parks, ball fields, other recreational facilities and other open spaces  Yes  No
- All municipal fleet and building maintenance activities  Yes  No
- All municipal construction activities, including those disturbing greater than 1 acre  Yes  No
- All municipal storm water system maintenance  Yes  No
- All municipal snow disposal site operation and maintenance activities  Yes  No
- Other Road maintenance materials storage yards (traction sand, etc)
- B. Are storm water inspections conducted at these facilities?  Yes  No
- C. If Yes, at what frequency are inspections conducted? Quarterly, unless otherwise specified in the facility SWPPP
- D. List activities for which operating procedures or management practices specific to storm water management have been developed (e.g., road repairs, catch basin cleaning).  
SOPs have been developed for all maintenance activities performed by the various entities responsible for maintenance on the Anchorage MS4. Copies of these SOPs are found in the 2015 Annual Report
- E. Do you prioritize certain municipal activities and/or facilities for more frequent inspection?  Yes  No
- F. If Yes, which activities and/or facilities receive most frequent inspections? As outlined in the APDES Permit
- G. Do all municipal employees and contractors overseeing planning and implementation of storm water-related activities receive comprehensive training on storm water management?  Yes  No
- H. If yes, do you also provide regular updates and refreshers?  Yes  No

I. If so, how frequently and/or under what circumstances?

Semi-annual training, monthly co-permittee meetings

**7. Long-term (Post-Construction) Storm Water Measures**

- A. Do you have an ordinance or other regulatory mechanism to require:
- Site plan reviews for storm water/water quality of all new and re-development projects?  Yes  No
  - Long-term operation and maintenance of storm water management controls?  Yes  No
  - Retrofitting to incorporate long-term storm water management controls?  Yes  No

B. If you have retrofit requirements, what are the circumstances/criteria?  
 Projects involving 10,000 feet of ground disturbing activity must manage the first 1/2 inch of rainfall

C. What are your criteria for determining which new/re-development storm water plans you will review (e.g., all projects, projects disturbing greater than one acre, etc.)  
 All projects which require a building or landuse permit from the MOA are reviewed

D. Do you require water quality or quantity design standards or performance standards, either directly or by reference to a state or other standard, be met for new development and re-development?  Yes  No

E. Do these performance or design standards require that pre-development hydrology be met for:

- Flow volumes  Yes  No
- Peak discharge rates  Yes  No
- Discharge frequency  Yes  No
- Flow duration  Yes  No

F. Please provide the URL/reference where all post-construction storm water management standards can be found.

Please see #8 Additional Information

G. How many development and redevelopment project plans were reviewed during the reporting period to assess impacts to water quality and receiving stream protection? 21

H. How many of the plans identified in 7.G were approved? 21

I. How many privately owned permanent storm water management practices/facilities were inspected during the reporting period? 4

J. How many of the practices/facilities identified in 7.I were found to have inadequate maintenance? 0

K. How long do you give operators to remedy any operation and maintenance deficiencies identified during inspections? 30 days, subject to seasonal conditions and concerns

L. Do you have authority to take enforcement action for failure to properly operate and maintain storm water practices/facilities?  Yes  No

M. How many formal enforcement actions (i.e., more than a verbal or written warning) were taken for failure to adequately operate and/or maintain storm water management practices? 0

N. Do you use an electronic tool (e.g., GIS, database, spreadsheet) to track post-construction BMPs, inspections and maintenance? Yes

O. Do all municipal departments and/or staff (as relevant) have access to this tracking system?  Yes  No

P. How often do municipal employees receive training on the post-construction program? Yearly

## **8. Additional Information**

Please include any additional information on the performance of your MS4 program. If providing clarification to any of the questions on this form, please provide the question number (e.g., 2C) in your response.

Question 2.E: The Municipality participates with other interest groups on management of seasonal and year-round waterfowl populations

Question 7.F:

Anchorage Design Criteria Manual

[http://www.muni.org/Departments/project\\_management/Design%20Criteria%20Manual/DCM%20Chap2%202009%20clean.pdf](http://www.muni.org/Departments/project_management/Design%20Criteria%20Manual/DCM%20Chap2%202009%20clean.pdf)

Drainage Design Guidelines

[http://www.muni.org/Departments/project\\_management/Publications/2009%20Drainage%20Design%20Guidelines-clean.pdf](http://www.muni.org/Departments/project_management/Publications/2009%20Drainage%20Design%20Guidelines-clean.pdf)

2017 Assembly Adopted Revisions

[http://www.muni.org/Departments/project\\_management/Documents/ASM\\_Volume1\\_Final\\_December2017.pdf](http://www.muni.org/Departments/project_management/Documents/ASM_Volume1_Final_December2017.pdf)

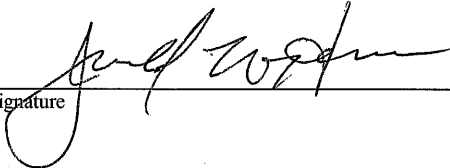
[http://www.muni.org/Departments/project\\_management/Documents/ASM\\_Volume2\\_Final\\_December2017.pdf](http://www.muni.org/Departments/project_management/Documents/ASM_Volume2_Final_December2017.pdf)

Please see the attached 2017 APDES Annual Report for greater detail on all items contained in this form.

**Certification Statement and Signature**

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 the 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.

Per Appendix A, Part 1.12.2 This report to be signed as follows: **For a municipal, State, Federal, or other public facility:** by either a principal executive or ranking elected official; **for a corporation,** a responsible corporate officer.

  
\_\_\_\_\_  
Signature

2/15/18  
\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date



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On behalf of the Municipality of Anchorage

On behalf of the Alaska Department  
of Transportation and Public Facilities

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J.W. Hansen  
Director of Project Management and Engineering

  
\_\_\_\_\_  
David M. Kemp, P.E., PMP  
Regional Director

Date: \_\_\_\_\_

Date: 2-13-2018

Point of contact:  
Jerry Hansen  
Director of Project Management and Engineering  
Municipality of Anchorage  
P.O. Box 196650  
Anchorage, AK 99519-6650  
Phone: 907-343-8143





## ALASKA POLLUTANT DISCHARGE ELIMINATION SYSTEM MS4 – Summary Annual Report Form

### 1. MS4 Information

AKS052558	Anchorage Municipal Separate Storm Sewer System		
Permit Number	Name of MS4		
David	Kemp	Regional Director	
Name of Contact Person (First)	(Last)	(Title)	
907-269-0770	david.kemp@alaska.gov		
Telephone (including area code)	Email		
P.O. Box 196900			
Mailing Address			
Anchorage	Alaska	99519-6900	
City	State	Zip Code	
What size population does your MS4 serve?	300,000		
What is the reporting period for this report? (mm/dd/yyyy) From			
02/16/2017 to 02/15/2018			

### 2. Water Quality Priorities

- A. Does your MS4 discharge to waters listed as impaired on a state 303(d) list?  Yes  No
- B. If yes, identify each impaired water, the impairment, whether a TMDL has been approved by EPA for each, and whether the TMDL assigns a wasteload allocation to your MS4. Use a new line for each impairment, and attach additional pages as necessary.

Impaired Water	Impairment	Approved TMDL	TMDL assigns WLA to MS4	
Hood/Spenard Lake	Fecal Coliform Bacteria/Dissolved Oxygen	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Ship Creek	Fecal Coliform Bacteria, Petroleum Products	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Campbell Creek, Campbell Lake, Chester Creek, University Lake	Fecal Coliform Bacteria	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Westchester Lagoon, Little Rabbit Creek, Fish Creek, Jewel Lake	Fecal Coliform Bacteria	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Furrow Creek, Little Campbell Creek, Little Survival Creek	Fecal Coliform Bacteria	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No

C. What specific sources contributing to the impairment(s) are you targeting in your storm water program?

Domestic animal waste

- D. Do you discharge to any high-quality waters (e.g., Tier 2, Tier 3, outstanding natural resource waters, or other state or federal designation)?  Yes  No
- E. Are you implementing additional specific provisions to ensure their continued integrity?  Yes  No

**3. Public Education and Public Participation**

- A. Is your public education program targeting specific pollutants and sources of those pollutants?  Yes  No
- B. If yes, what are the specific sources and/or pollutants addressed by your public education program?  
Bacteria from domestic animal waste, residential car washing, residential pesticide use, proper disposal of household hazardous waste, residential de-icers
- C. Note specific successful outcome(s) (e.g., quantified reduction in fertilizer use; NOT tasks, events, publications) fully or partially attributable to your public education program during this reporting period.  
Compared to the 2010 survey, the 2014 Public Education Survey indicates an increased concern/awareness of the impacts of domestic fertilizer and pesticide use
- D. Do you have an advisory committee or other body comprised of the public and other stakeholders that provides regular input on your storm water program?  Yes  No

**4. Construction**

- A. Do you have an ordinance or other regulatory mechanism stipulating:
  - Erosion and sediment control requirements?  Yes  No
  - Other construction waste control requirements?  Yes  No
  - Requirement to submit construction plans for review?  Yes  No
  - MS4 enforcement authority?  Yes  No
- B. Do you have written procedures for:
  - Reviewing construction plans?  Yes  No
  - Performing inspections?  Yes  No
  - Responding to violations?  Yes  No
- C. Identify the total number of active construction sites  $\geq 1$  acre in operation in your jurisdiction during the reporting period. 18
- D. How many of the sites identified in 4.C did you inspect during this reporting period? 18
- E. Describe, on average, the frequency with which your program conducts construction site inspections.  
Weekly per Highway Standard Modification for Specification Section 641 and Item P-157 for Airports, Erosion, Sedimentation and Pollution Control
- F. Do you prioritize certain construction sites for more frequent inspections?  
 If Yes, based on what criteria?  Yes  No
- G. Identify which of the following types of enforcement actions you used during the reporting period for construction activities, indicate the number of actions, or note those for which you do not have authority:
 

<input checked="" type="checkbox"/> Yes	Notice Of Violation	# <u>5</u>	No Authority <input type="checkbox"/>
<input type="checkbox"/> Yes	Administrative Fines	# _____	No Authority <input type="checkbox"/>
<input type="checkbox"/> Yes	Stop Work Orders	# _____	No Authority <input type="checkbox"/>
<input type="checkbox"/> Yes	Civil Penalties	# _____	No Authority <input type="checkbox"/>
<input type="checkbox"/> Yes	Criminal Actions	# _____	No Authority <input type="checkbox"/>
<input checked="" type="checkbox"/> Yes	Administrative Orders	# <u>1</u>	No Authority <input type="checkbox"/>
<input type="checkbox"/> Yes	Other _____	# _____	
- H. Do you use an electronic tool (e.g., GIS, data base, spreadsheet) to track the locations, inspection results, and enforcement actions of active construction sites in your jurisdiction?  Yes  No
- I. What are the 3 most common types of violations documented during this reporting period?  
a. Failure to conduct regularly scheduled inspections on time    b. Complete-by-date items not met    c. Inspection reports and logs need to be filled out as per SWPPP
- J. How often do municipal employees receive training on the construction program?  
Yearly, special topics and AKCESCL every 3 years

**5. Illicit Discharge Elimination**

- A. Have you completed a map of all outfalls and receiving waters of your storm sewer system?  Yes  No
- B. Have you completed a map of all storm drain pipes and other conveyances in the storm sewer system?  Yes  No
- C. Identify the number of outfalls in your storm sewer system. 231 Major, 494 Minor
- D. Do you have documented procedures, including frequency, for screening outfalls?  Yes  No
- E. Of the outfalls identified in 5.C, how many were screened for dry weather discharges during this reporting period? 57
- F. Of the outfalls identified in 5.C, how many have been screened for dry weather discharges at any time since you obtained MS4 permit coverage? 375
- G. What is your frequency for screening outfalls for illicit discharges? Describe any variation based on size/type. Rotate through a minimum of 3 watersheds per year from which annual screening looks at more than 30 outfalls to find 15 from which to sample flow every year  
Annually
- H. Do you have an ordinance or other regulatory mechanism that effectively prohibits illicit discharges?  Yes  No
- I. Do you have an ordinance or other regulatory mechanism that provides authority for you to take enforcement action and/or recover costs for addressing illicit discharges?  Yes  No
- J. During this reporting period, how many illicit discharges/illegal connections have you discovered? 1
- K. Of those illicit discharges/illegal connections that have been discovered or reported, how many have been eliminated? 1
- L. How often do municipal employees receive training on the illicit discharge program? Annually

**6. Storm Water Management for Municipal Operations**

- A. Have storm water pollution prevention plans (or an equivalent plan) been developed for:
  - All public parks, ball fields, other recreational facilities and other open spaces  Yes  No
  - All municipal fleet and building maintenance activities  Yes  No
  - All municipal construction activities, including those disturbing greater than 1 acre  Yes  No
  - All municipal storm water system maintenance  Yes  No
  - All municipal snow disposal site operation and maintenance activities  Yes  No
  - Other Road maintenance materials storage yards (traction sand, etc.)
- B. Are storm water inspections conducted at these facilities?  Yes  No
- C. If Yes, at what frequency are inspections conducted? Quarterly, unless otherwise specified in the facility SWPPP
- D. List activities for which operating procedures or management practices specific to storm water management have been developed (e.g., road repairs, catch basin cleaning).  
SOPs have been developed for all maintenance activities performed by the various entities responsible for maintenance on the Anchorage MS4. Copies of these SOPs are found in the 2015 Annual Report.
- E. Do you prioritize certain municipal activities and/or facilities for more frequent inspection?  Yes  No
- F. If Yes, which activities and/or facilities receive most frequent inspections? As outlined in the APDES Permit
- G. Do all municipal employees and contractors overseeing planning and implementation of storm water-related activities receive comprehensive training on storm water management?  Yes  No
- H. If yes, do you also provide regular updates and refreshers?  Yes  No

I. If so, how frequently and/or under what circumstances?

Semi-annual training, monthly co-permittee meetings

**7. Long-term (Post-Construction) Storm Water Measures**

- A. Do you have an ordinance or other regulatory mechanism to require:
- Site plan reviews for storm water/water quality of all new and re-development projects?  Yes  No
  - Long-term operation and maintenance of storm water management controls?  Yes  No
  - Retrofitting to incorporate long-term storm water management controls?  Yes  No

B. If you have retrofit requirements, what are the circumstances/criteria?  
 10-year storm event (per AK Hwy Drainage Manual) or manage the first 1/2 inch of rainfall (per MS4 Permit) whichever more restrictive

C. What are your criteria for determining which new/re-development storm water plans you will review (e.g., all projects, projects disturbing greater than one acre, etc.)  
 All ADOT&PF projects awarded to Construction Contractors

D. Do you require water quality or quantity design standards or performance standards, either directly or by reference to a state or other standard, be met for new development and re-development?  Yes  No

E. Do these performance or design standards require that pre-development hydrology be met for:

- Flow volumes  Yes  No
- Peak discharge rates  Yes  No
- Discharge frequency  Yes  No
- Flow duration  Yes  No

F. Please provide the URL/reference where all post-construction storm water management standards can be found.

Please see item #8, Additional Information

G. How many development and redevelopment project plans were reviewed during the reporting period to assess impacts to water quality and receiving stream protection? 8

H. How many of the plans identified in 7.G were approved? 8

I. How many privately owned permanent storm water management practices/facilities were inspected during the reporting period? 0

J. How many of the practices/facilities identified in 7.I were found to have inadequate maintenance? 0

K. How long do you give operators to remedy any operation and maintenance deficiencies identified during inspections?  
7 days or until the next storm event

L. Do you have authority to take enforcement action for failure to properly operate and maintain storm water practices/facilities?  Yes  No

M. How many formal enforcement actions (i.e., more than a verbal or written warning) were taken for failure to adequately operate and/or maintain storm water management practices? None

N. Do you use an electronic tool (e.g., GIS, database, spreadsheet) to track post-construction BMPs, inspections and maintenance? Yes

O. Do all municipal departments and/or staff (as relevant) have access to this tracking system?  Yes  No

P. How often do municipal employees receive training on the post-construction program? Yearly

## 8. Additional Information

Please include any additional information on the performance of your MS4 program. If providing clarification to any of the questions on this form, please provide the question number (e.g., 2C) in your response.

The responses on this Summary Annual Report Form are by the Alaska Department of Transportation and Public Facilities, Central Region Design and Construction. The Municipality of Anchorage and other Alaska Department of Transportation and Public Facilities organizations completed separate Summary Annual Report Forms.

The following Sections are collective responses from the Municipality of Anchorage and Alaska Department of Transportation and Public Facilities:

- Section 2 - Water Quality Priorities
- Section 3 - Public Education and Public Participation
- Section 5 - Illicit Discharge Elimination
- Section 6 - Storm Water Management for Municipal Operations

Question 2.E: The Municipality participates with other interest groups on management of seasonal and year-round waterfowl populations.

Question 4.A and 4.B:

Alaska Construction Manual:

<http://www.dot.state.ak.us/stwddes/dcsconst/constructionmanual.shtml>

Alaska SWPPP Plan Guide:

[http://www.dot.state.ak.us/stwddes/desenviron/assets/pdf/swppp/english/2016/swppp\\_guide\\_with\\_apdx.pdf](http://www.dot.state.ak.us/stwddes/desenviron/assets/pdf/swppp/english/2016/swppp_guide_with_apdx.pdf)

Alaska SWPPP Guide, Appendix B, BMP Guide Updates (December 2015):

[http://dot.alaska.gov/stwddes/desenviron/assets/pdf/bmp/bmp\\_guide\\_preamble.pdf](http://dot.alaska.gov/stwddes/desenviron/assets/pdf/bmp/bmp_guide_preamble.pdf)

[http://dot.alaska.gov/stwddes/desenviron/assets/pdf/bmp/bmp\\_all.pdf](http://dot.alaska.gov/stwddes/desenviron/assets/pdf/bmp/bmp_all.pdf)

[http://dot.alaska.gov/stwddes/desenviron/assets/pdf/bmp/mo\\_bmp.pdf](http://dot.alaska.gov/stwddes/desenviron/assets/pdf/bmp/mo_bmp.pdf)

Question 7.F:

Alaska Highway Preconstruction Manual:

<http://www.dot.state.ak.us/stwddes/dcsprecon/preconmanual.shtml>

Alaska Highway Drainage Manual:

[http://www.dot.state.ak.us/stwddes/desbridge/pop\\_hwydrnman.shtml](http://www.dot.state.ak.us/stwddes/desbridge/pop_hwydrnman.shtml)

Alaska Aviation Preconstruction Manual:

[http://www.dot.state.ak.us/stwddes/dcsprecon/pop\\_aviation\\_preconstman.shtml](http://www.dot.state.ak.us/stwddes/dcsprecon/pop_aviation_preconstman.shtml)

Please see the attached 2017 APDES Annual Report for greater detail on all items contained in this form.

**Certification Statement and Signature**

Yes

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Per Appendix A, Part 1.12.2 This report to be signed as follows: **For a municipal, State, Federal, or other public facility:** by either a principal executive or ranking elected official; **for a corporation,** a responsible corporate officer.

*[Handwritten Signature]*

Signature

*2-13-2018*

Date

*Dept of Transportation Regional Director*

Signature

Date