

2018 MS4 Summary For ARDSA

Costs Incurred:

				Force Account			
				Contracted	GBA Costs		
					Labor	Equipment / Mt'l Costs	Total
Sweeping	Spring	3/15/2016	6/1/2016	\$83,374	\$487,963	\$114,154	\$685,491
	Summer	6/15/2016	8/1/2016		\$47,313	\$15,662	\$62,975
	Fall	9/1/2016	10/15/2016	\$85,492	\$147,991	\$41,568	\$275,051
Sweepings Hauling Disposal				\$14,792	\$2,000	\$1,600	\$18,392
AWWU water costs						\$36,064	\$36,064
Total Street Sweeping				\$183,658	\$685,267	\$172,984	\$36,064
Storm Drainage/ Control Structure System Maintenance				\$240,586	\$118,626	\$10,726	\$369,938
OGS Maintenance					\$147,974	\$11,666	\$159,640
Winter Sand used	8000 Ton				\$155,866	\$30,635	\$127,520
Sand On hand	10000 Ton						\$314,021
Salt used	100 Ton					\$20,900	\$20,900
Salt on hand	200 Ton						
Sand Storage Facility (Utility Costs)						\$2,500	\$2,500
Magnesium Chloride	17500 Gal Used			\$26,450	\$5,333	\$51,275	\$83,058
On hand	10000 Gal						
Lucity - Asset Management Labor costs for Mapping						\$25,000	\$25,000
Storm Water Pollution Prevention Plans & Inspections (Maintenance Projects)						\$40,921	\$40,921
Facility SWPPP and Inspections						\$62,309	\$62,309
Total				\$424,244	\$1,134,183	\$231,344	\$366,489
							\$2,156,260

Materials Quantity

Sweeping Quantities

	CuYds
Spring Residential	2215
Spring Arterial/Collector	1926
Summer Arterial/Collector	35
Fall Residential	702
Fall Arterial/Collector	52

Catch Basin Quantity	604
OGS Quantity	336

Part 2.0: Storm Water Management Program (SWMP) Requirements

Pg. 10, 2.2. General Requirements, 2.2.1 - 2.2.4.

It is the opinion of the Maintenance and Operations Department, Street Maintenance Division, (SM) that Anchorage (ARDSA) has met the requirements of this section.

Working in concert with WMS and other co-permittee(s) to meet these requirements.

Part 3.0: Minimum Control Measures

Pg. 14, 3.0: Minimum Control Measures, 3.1: Construction Site Runoff Control Program

ARDSA, SM activities have met the requirements of this section for all Street Maintenance projects within the service area (ARDSA). All construction SWPPP's are current, or closed, at the time of this report.

Pg. 19, 3.2: Storm Water Management Areas of New Development and Redevelopment

ARDSA, SM continues to support WMS in the implementation of this section and the subsections.

Pg. 23, 3.2.5: Operation and Maintenance (O & M) of Permanent Storm Water Management Controls, 3.2.5.1: Inventory and Tracking

ARDSA, SM continues to develop and maintain a computer maintenance management system (CMMS). This system includes geographical Information system (GIS) information that will be directly related to the maintenance of these assets. The database is continually updated as new assets are acquired.

Pg. 23, 3.2.6: Inspection and Enforcement of Permanent Storm Water Management

ARDSA SM continues to work closely with Private Development, Planning and (WMS) to attain the requirements of this Section.

Pg. 24, 3.2.7: Education and Training on Permanent Storm Water Controls

Training is viewed as an ongoing effort within our organization. ARDSA SM will continue to train staff on SOP's and Best Management Practices within the organization.

Pg. 24, 3.3: Industrial and Commercial Storm Water Discharge Management

ARDSA SM continues to work directly with the administrator (WMS) of the current permit to meet the requirements of this Section.

Pg. 26, 3.4: Storm Water Infrastructure and Street Management, 3.4.1: Storm Sewer System Inventory and Mapping

SM, in coordination with WMS, continues to meet the requirements of this Section, and will update the CMMS on a timely, as needed, basis when new assets are introduced.

Pg. 26, 3.4.2: Catch Basin and Inlet Cleaning

ARDSA SM successfully completed these permit requirements. All 272 OGS units were inspected and cleaned. All 9770 control structures were inspected and those that required cleaning, were cleaned. ARDSA SM cleaned 1145 CB & CBMH, out of the total inventory of 9770 units. MOA SM Contractor cleaned 3085. Total cleaned - 4230.

SM has implemented procedures to collect fill rate data by making adjustments to cleaning activities. Maintenance schedules will be adjusted further after analysis of data collected. SOP's are being developed for treatment and disposal of catch basin and OGS waste.

Pg. 27, 3.4.5: Street and Road Sweeping

In coordination with WMS, SM has met these requirements, by developing a qualitative and quantitative, "visually clean standard" as outlined in the Sweeping Management Plan.

Pg. 29, 3.4.7: Develop and Implement Storm Water Pollution Prevention Plans

SM is currently contracted with Professional and Technical Services, Inc. (PTS) to write, inspect, and maintain the SWPPP's for all SM operated facilities and maintenance projects. SM maintains the BMP's at all facilities.

Pg. 29, 3.4.8: Training

Training has been conducted for Sweeping Practices/Protocol, project BMP's, SOP's and Spill Prevention/Response. This training will continue to meet the permits intent. SM currently has 18 trained/certified Alaska Certified Erosion & Sediment Control Leads (AK-CESCL) on staff. 48 other SM employees have also received formal AK-CESCL (non-certified) "awareness" training. Street Maintenance has coordinated with our SWPPP contractor, Professional Technical Services (PTS), to train all staff on construction specific and facility SWPPP requirements. SM will continue this effort in the years to follow.

Pg. 32, 3.5.6: Prevent and respond to Spills to the MS4

SM notes from spill response on 10/14/2018 - "On Sunday October 14th 2018, Street Maintenance received a call on our after-hours hot line around 1630 from ADEC about an oil sheen on Chester creek near the Sullivan Arena. Chris Moffitt, John Beesley, and myself responded to the scene. Gay Harpole and another ADEC staff member were already on scene and had erected an oil absorbent boom in Chester creek at the Outfall just south of Manhole 119 in grid 1431. They let us know that they had gotten the report around 1200. We then begin working our way upstream placing booms in Manhole #s 119, 107,105, 179 80,109, 118, and 83 all of these structures had a smell of what we all thought was diesel fuel. We checked up stream to the OGS # 144 where there was an odor of Diesel fuel as well, all other structures upstream in this system had no smell or sign of fuel. The OGS is owned By ADOT and we have no info about when it was cleaned last. Around 1930 the ADEC staff decided we had done enough to mitigate the sheen and could not find an active source. Today we are going check the absorbent booms and replace as needed. I spoke with John Snelson with ROW enforcement this morning and he has no reports of spilled fuel from this area either."

SM notes from spill response on 11/30/2018 - On November 30th, 2018 Anchorage received a 7.0 Earthquake. Upon a post inspection of the Kloep Station facility, it was discovered that two out of the four 10,000 Magnesium Chloride storage tanks had shifted causing the plumbing/valves to break which lead to the spillage of approxiamtely 20,000 gallons of Magnesium Chloride. The material ran out of the tanks, crossed the parking lot, and drained into the adjoining snow disposal sight, within a matter of minutes. No evidence of MagCl remained in the general area, making spill containment impossible. The material immediatley had soaked into the ground. ADEC was contacted on 12/1/2018 and visited the sight and concurred that containment of spilled material was not possible. Street Maintenance, in conjunction with Capital Projects, is developing a plan to secure all tanks in place, as well as provide a flexible plumbing system.