STORM WATER POLLUTION PREVENTION PLAN

Congratulations!

Your facility is required to obtain and comply with the APDES MSGP Permit!

The facility drains to Waters of the United States or an MS4

AND

The facility SIC Code indicates that the facility is one of the 29 APDES Industrial Sectors requiring MSGP Coverage;

AND

Your Facility does not Qualify for a No Exposure Certification.

The First step to obtaining MSGP Permit coverage is to identify ALL industrial sectors present at the facility and write a Storm Water Pollution Prevention Plan (SWPPP).

STORM WATER POLLUTION PREVENTION PLAN SWPPP

APDES MSGP § 5.0

The Permittee MUST prepare the Facility SWPPP Prior to submission of the NOI

The MSGP SWPPP Template Should be used by all permittees

- Ensures that the SWPPP meets APDES MSGP Requirements;
- Ensures that compliance personnel are familiar with your SWPPP prior to inspection (DEC inspectors are trained to be intimately familiar with the template!)

The following discussion follows the MSGP SWPPP Template!

STORM WATER POLLUTION PREVENTION PLAN

GETTING STARTED

The Template is designed for use by all facilities eligible for coverage under the 2020 MSGP. The Template is NOT tailored to your individual industrial sector. Depending on which industrial sector you fall under (see Appendix D of the 2020 MSGP), you will need to address additional SWPPP requirements outlined in Part 11 of the MSGP, respectively

Each section includes "instructions" and space for your facility's specific information. You should read the instructions for each section before you complete that section.

The Template was developed in *Microsoft Word* so that you can easily add tables and additional text. Some sections may require only a brief description while others may require several pages of explanation.

To make it easier to complete, the Template generally uses blue text where the operator is expected to enter information.

MULTI-SECTOR GENERAL PERMIT

Highlights of Permit Reissuance (2015 MSGP)

On February 19, 2015 DEC issued the 2015 Multi-Sector General Permit for Storm Water Discharges Associated with Industrial Activity (2015 MSGP, AKR060000).
The permit became effective on April 1, 2015.
See Table 2-1 in the 2015 MSGP Permit for NOI Submission deadlines and discharge Authorization Dates.

What Are Your Permit Responsibilities As a Facility Operator?

Operators of industrial facilities requiring an APDES Storm Water Permit are eligible to obtain coverage under the 2015-MSGP if their activities are included within one of 29 industrial sectors. See Appendix D of the 2015-MSGP for a listing of facilities and activities that are covered. *(Note that this is only a partial list of your responsibilities and that you must consult the Multi-Sector General Permit for details.)*

- Determine whether the facility or site discharges to a municipal separate storm sewer system (MS4) or to waters of the United States. If it does not, no permit is required.
- Determine if the facility's industrial activities are listed among the eleven Categories of Industrial Activities, provided in the federal regulations at 40 CFR 122.26(b)(14) or if the facility's SIC code falls within one of the sector/subsectors identified in Appendix D of the 2015-MSGP. If its activities are not listed, no permit is required.
- Determine if the listed facility or site may qualify for the "no exposure" exclusion under the federal regulations at 40 CFR 122.26(g)
- Develop a SWPPP. Development and implementation of an industrial storm water pollution prevention plan is the key condition of the MSGP.
- Keep a copy of the permit and all associated records on site during the entire permit period.
- Submissions to DEC:

OF INTEREST

2015 MSGP Permit (PDF)
2015 MSGP Fact Sheet (pdf)
2015 MSGP RTC (pdf)

List of SIC and NAICS Codes (pdf)
2015 MSGP SWPPP Template (docx)
Additional MSGP Documentation Template (docx)
Impaired Waterbody Listing

EPA MSGP Web Site & Resources
EPA SWPPP Guidance (pdf)
EPA Monitoring Guidance (pdf)

APDES Storm Water Forms
APDES eNOI
Search DEC Permits in Effect

Facility Information

Name of Facility: _____

Street: _____

City: _____ State: _____ ZIP Code: _____

Borough or Similar Government Subdivision: _____

Permit Tracking Number: _____ (if covered under a previous permit)

Latitude/Longitude (Use **one** of three possible formats, and specify method)

Latitude:	Longitude:
1. _ _ ° _ _ ' _ _ " N (degrees, minutes, seconds)	1. _ _ ° _ _ ' _ _ " W (degrees, minutes, seconds)
2. _ _ ° _ _ . _ _ ' N (degrees, minutes, decimal)	2. _ _ ° _ _ . _ _ ' W (degrees, minutes, decimal)
3. _ _ . _ _ _ _ ° N (decimal)	3. _ _ . _ _ _ _ ° W (decimal)

Method for determining latitude/longitude (check one):

☐ USGS topographic map (specify scale:_____) ☐ EPA Web site ☐ GPS

☐ Other (please specify): _____

Is the facility located in Indian Country? ☐ Yes ☐ No

If yes, name of Reservation, or if not part of a Reservation, indicate "not applicable."_____

_____

Is this facility considered a Federal Facility? ☐ Yes ☐ No

Estimated area of industrial activity at site exposed to storm water:_____ (acres)

STORM WATER POLLUTION PREVENTION PLAN

MSGP Template PART 1.1

MSGP § 5.2.1

FACILITY INFORMATION

STORM WATER POLLUTION PREVENTION PLAN

MSGP TEMPLATE PART 1.1

MSGP § 5.2.1

RECEIVING WATERS

Discharge Information

Does this facility discharge storm water into an MS4? ☐ Yes ☐ No

If yes, name of MS4 operator: _____

Name(s) of water(s) that receive storm water from your facility: _____

Are any of your discharges directly into any segment of an "impaired" water? ☐ Yes ☐ No

If Yes, identify name of the impaired water (and segment, if applicable): _____

Identify the pollutant(s) causing the impairment: _____

For pollutants identified, which do you have reason to believe will be present in your discharge? _____

_____

For pollutants identified, which have a completed TMDL? _____

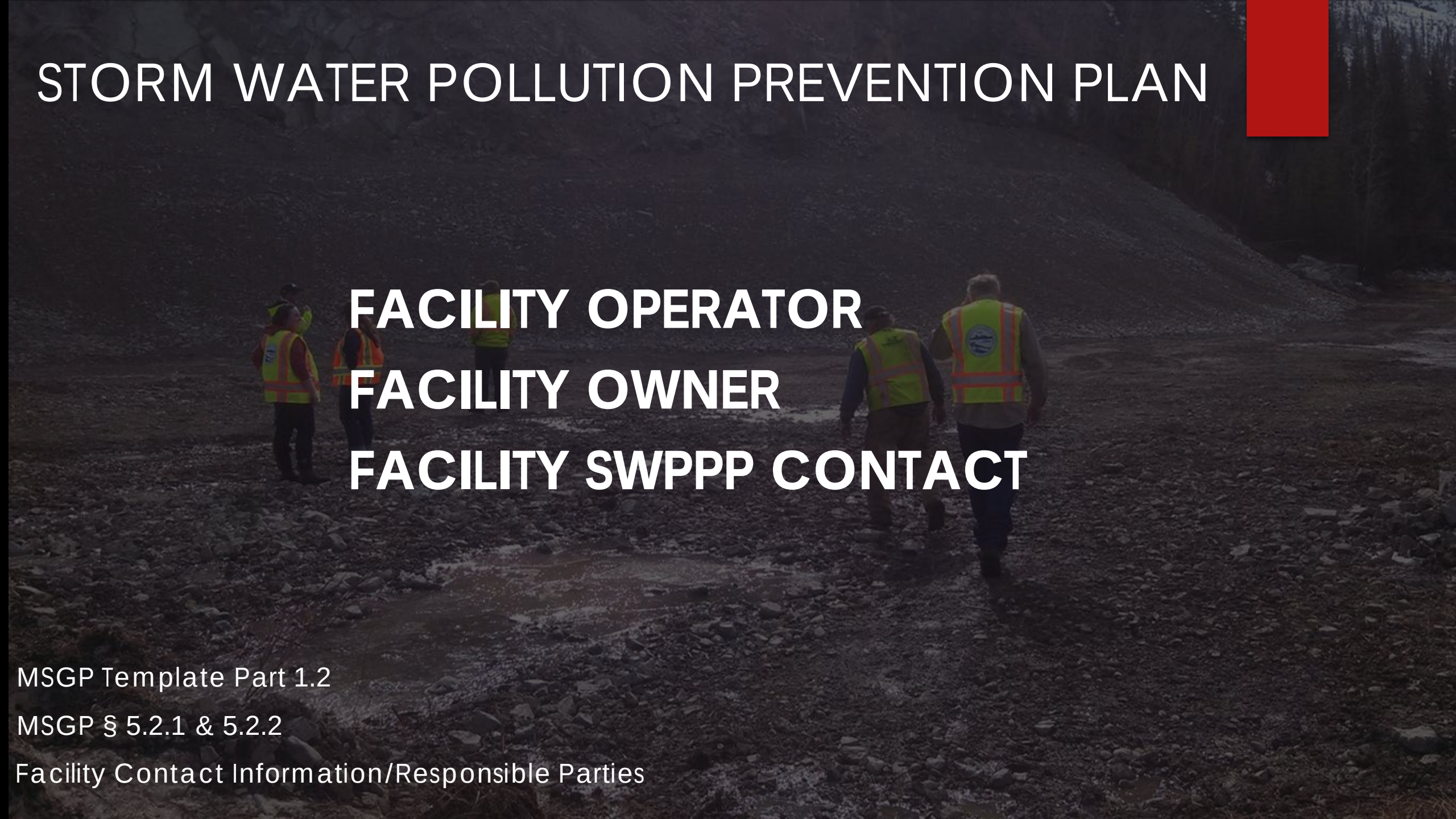
Are any of your storm water discharges subject to effluent guidelines? ☐ Yes ☐ No

If Yes, which guidelines apply? _____

Primary SIC Code or 2-letter Activity Code (refer to Appendix D of the 2015 MSGP): _____

Identify your applicable sector and subsector: _____

STORM WATER POLLUTION PREVENTION PLAN



FACILITY OPERATOR

FACILITY OWNER

FACILITY SWPPP CONTACT

MSGP Template Part 1.2

MSGP § 5.2.1 & 5.2.2

Facility Contact Information/Responsible Parties

STORM WATER POLLUTION PREVENTION PLAN
SWPPP

FACILITY STORM WATER POLLUTION PREVENTION TEAM

Staff Names	Individual Responsibilities
Insert name of SWPPP team member	Person's responsibilities relating to compliance with the permit
[Repeat as necessary]	[Repeat as necessary]
[Repeat as necessary]	[Repeat as necessary]
[Repeat as necessary]	[Repeat as necessary]
[Repeat as necessary]	[Repeat as necessary]
[Repeat as necessary]	[Repeat as necessary]

MSGP Template Part 1.3

MSGP § 5.2.2

Storm Water Pollution Prevention Team

STORM WATER POLLUTION PREVENTION PLAN

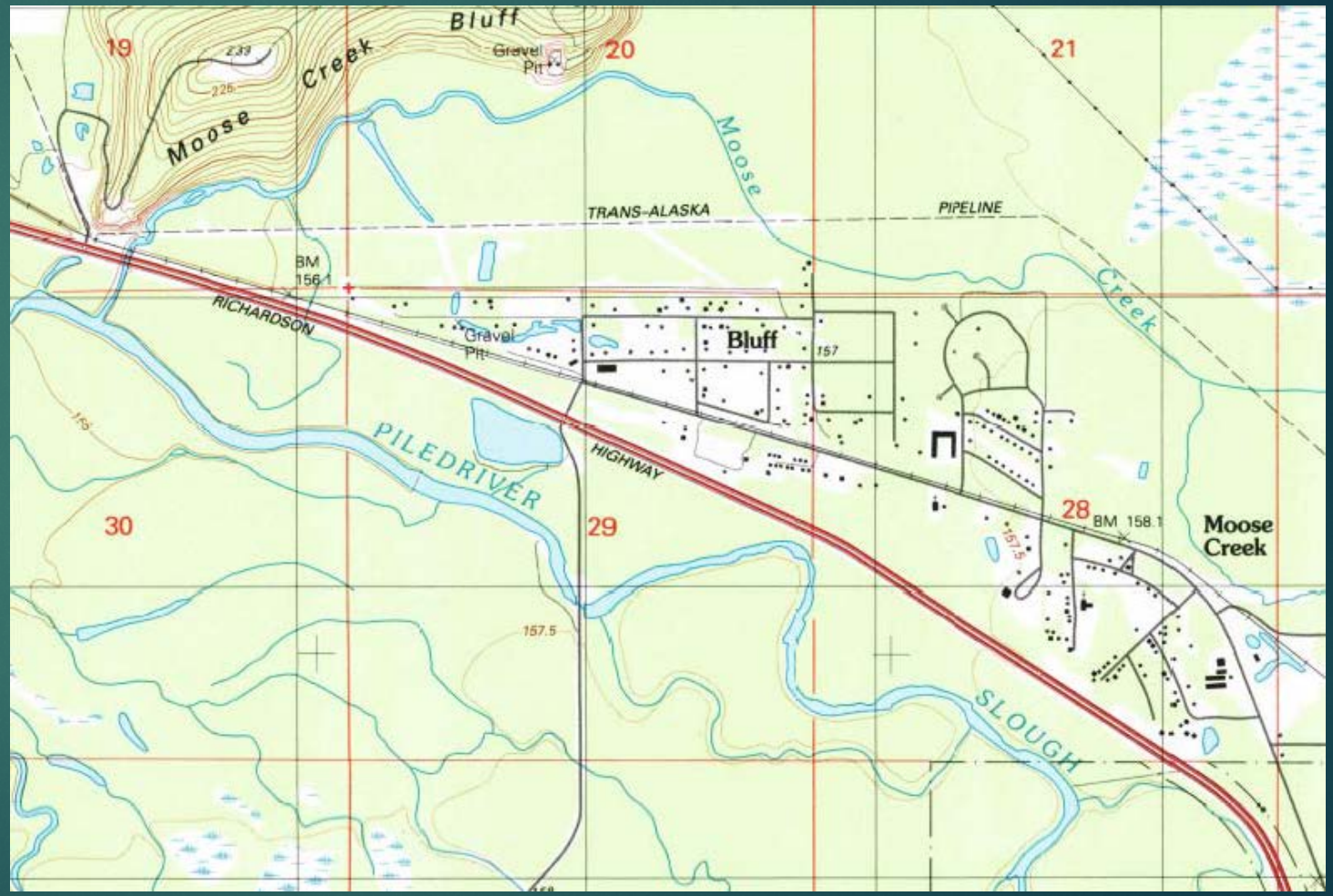
Describe Facility Activities

MSGP Template Part 1.4

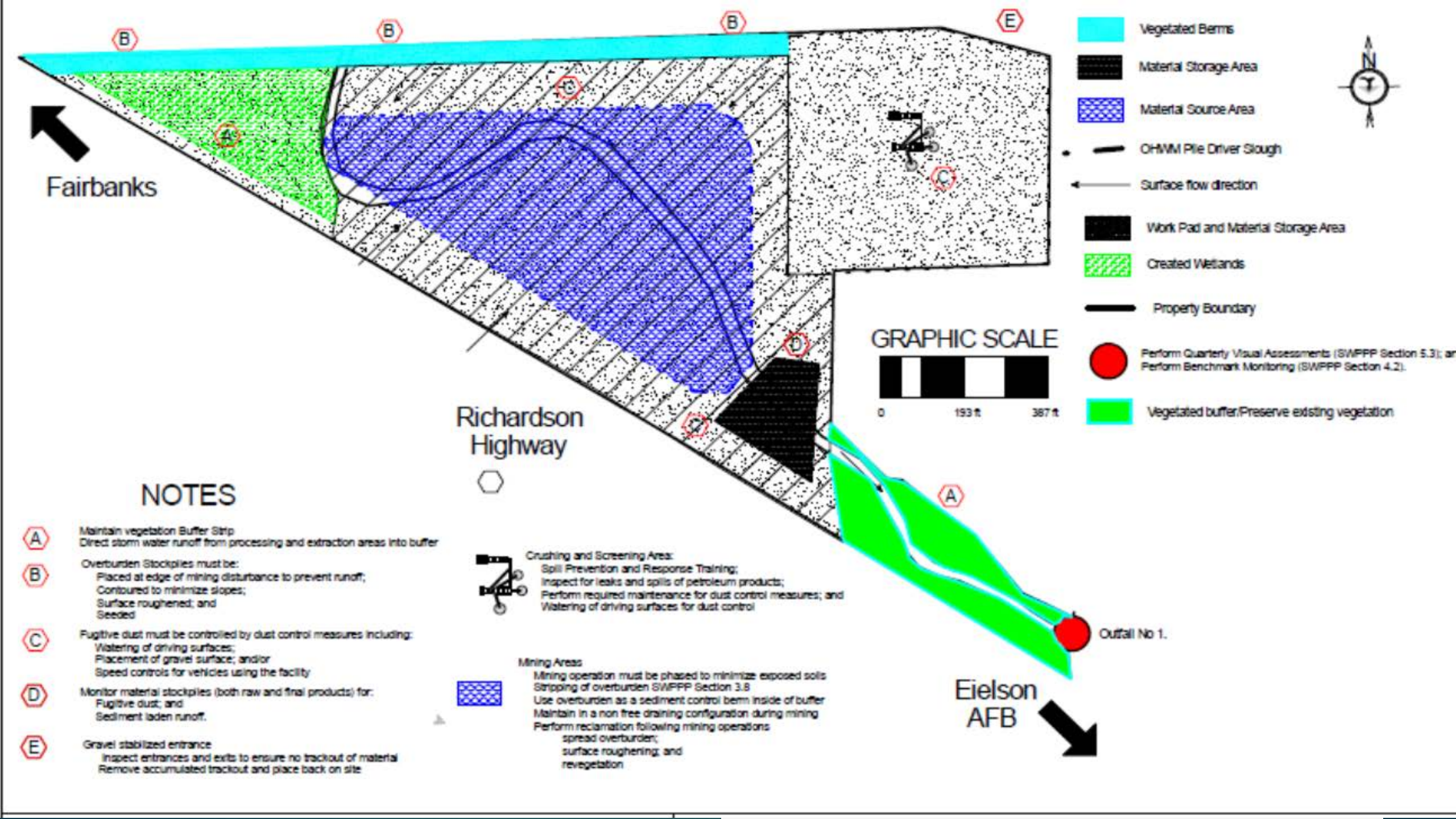
MSGP § 5.2.3

STORM WATER POLLUTION PREVENTION PLAN

Provide a General Site Map



MSGP Template Part 1.5
MSGP § 5.2.3.2



NOTES

(A) Maintain vegetation Buffer Strip
Direct storm water runoff from processing and extraction areas into buffer

(B) Overburden Stockpiles must be:
- Placed at edge of mining disturbance to prevent runoff;
- Contoured to minimize slopes;
- Surface roughened; and
- Seeded

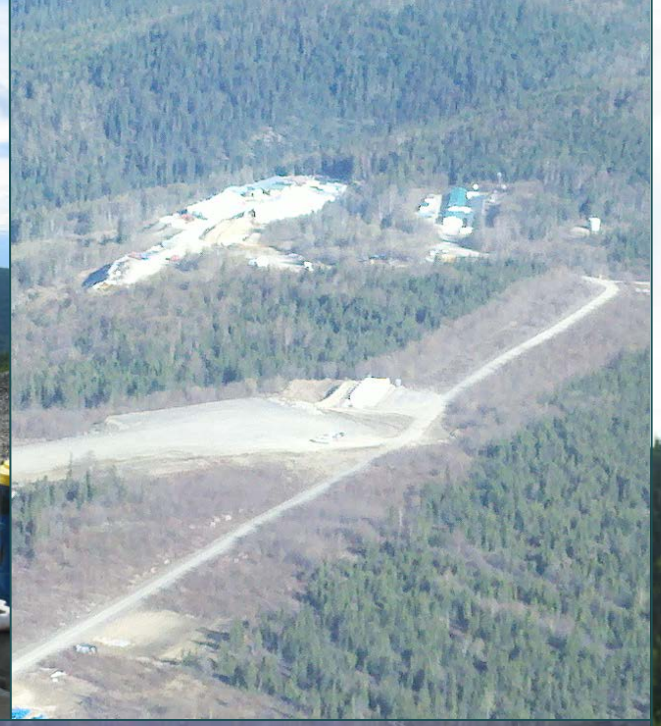
(C) Fugitive dust must be controlled by dust control measures including:
- Watering of driving surfaces;
- Placement of gravel surface; and/or
- Speed controls for vehicles using the facility

(D) Monitor material stockpiles (both raw and final products) for:
- Fugitive dust; and
- Sediment laden runoff.

(E) Gravel stabilized entrance
- Inspect entrances and exits to ensure no trackout of material
- Remove accumulated trackout and place back on site

Crushing and Screening Area:
- Spill Prevention and Response Training;
- Inspect for leaks and spills of petroleum products;
- Perform required maintenance for dust control measures; and
- Watering of driving surfaces for dust control

Mining Areas
- Mining operation must be phased to minimize exposed soils
- Stripping of overburden SWPPP Section 3.8
- Use overburden as a sediment control berm inside of buffer
- Maintain in a non free draining configuration during mining
- Perform reclamation following mining operations
  - spread overburden;
  - surface roughening; and
  - revegetation



STORM WATER POLLUTION PREVENTION PLAN

Describe the Industrial Activities and Associated Pollutants

MATERIAL STORAGE

FUELING AND EQUIPMENT MAINTENANCE

PROCESSING AREAS AND INFRASTRUCTURE

INTERMEDIATE PRODUCTS

FINAL PRODUCTS

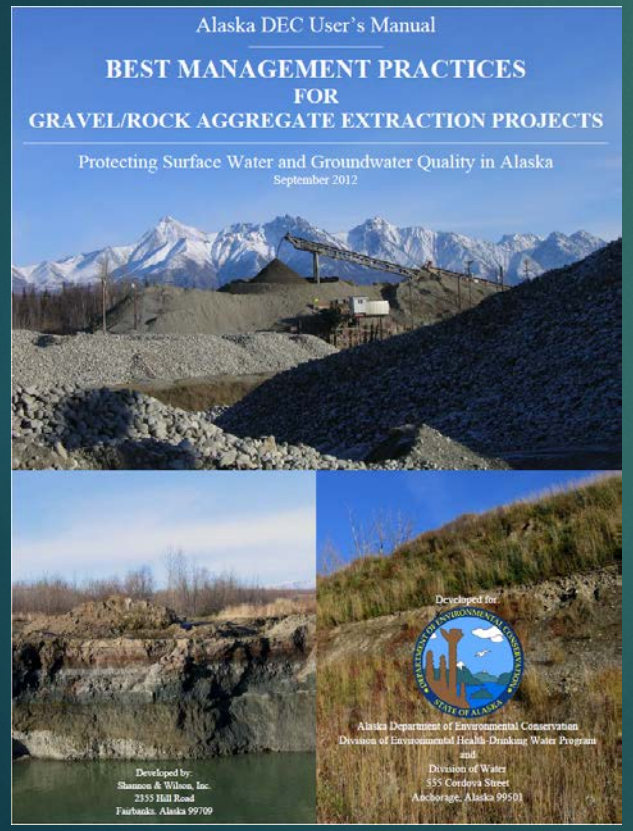
WASTES

MSGP Template Section 2

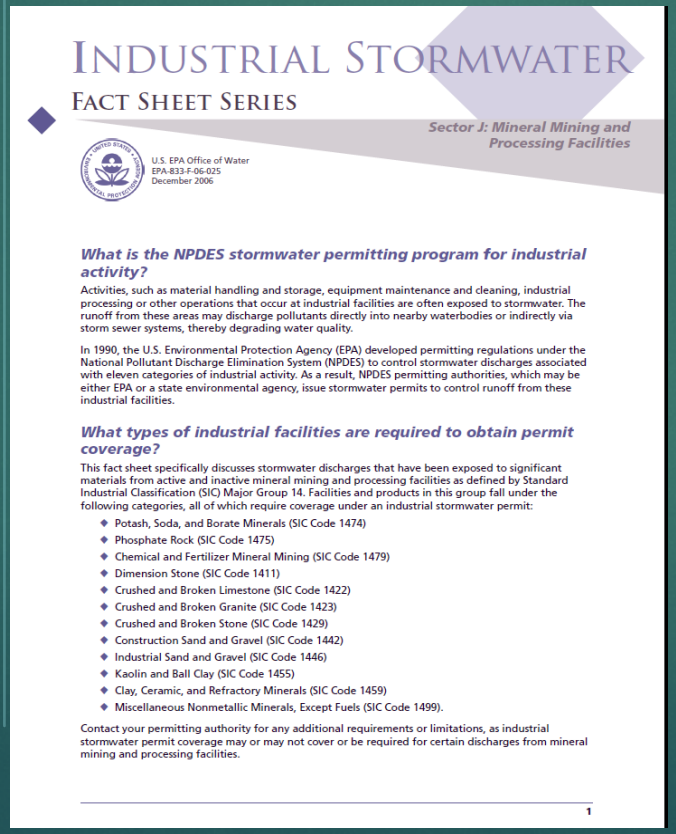
MSGP § 5.2.4

STORM WATER POLLUTION PREVENTION PLAN

DEC GUIDANCE



EPA GUIDANCE



INDUSTRIAL STORMWATER

FACT SHEET SERIES

Sector J: Mineral Mining and Processing Facilities

U.S. EPA Office of Water
EPA-833-F-06-025
December 2006

What is the NPDES stormwater permitting program for industrial activity?

Activities, such as material handling and storage, equipment maintenance and cleaning, industrial processing or other operations that occur at industrial facilities are often exposed to stormwater. The runoff from these areas may discharge pollutants directly into nearby waterbodies or indirectly via storm sewer systems, thereby degrading water quality.

In 1990, the U.S. Environmental Protection Agency (EPA) developed permitting regulations under the National Pollutant Discharge Elimination System (NPDES) to control stormwater discharges associated with eleven categories of industrial activity. As a result, NPDES permitting authorities, which may be either EPA or a state environmental agency, issue stormwater permits to control runoff from these industrial facilities.

What types of industrial facilities are required to obtain permit coverage?

This fact sheet specifically discusses stormwater discharges that have been exposed to significant materials from active and inactive mineral mining and processing facilities as defined by Standard Industrial Classification (SIC) Major Group 14. Facilities and products in this group fall under the following categories, all of which require coverage under an industrial stormwater permit:

- Potash, Soda, and Borate Minerals (SIC Code 1474)
- Phosphate Rock (SIC Code 1475)
- Chemical and Fertilizer Mineral Mining (SIC Code 1479)
- Dimension Stone (SIC Code 1411)
- Crushed and Broken Limestone (SIC Code 1422)
- Crushed and Broken Granite (SIC Code 1423)
- Crushed and Broken Stone (SIC Code 1429)
- Construction Sand and Gravel (SIC Code 1442)
- Industrial Sand and Gravel (SIC Code 1446)
- Kaolin and Ball Clay (SIC Code 1455)
- Clay, Ceramic, and Refractory Minerals (SIC Code 1459)
- Miscellaneous Nonmetallic Minerals, Except Fuels (SIC Code 1499).

Contact your permitting authority for any additional requirements or limitations, as industrial stormwater permit coverage may or may not cover or be required for certain discharges from mineral mining and processing facilities.

1

Source & Pollutants must be Identified in SWPPP!

Activity	Pollutant Source	Pollutant
Site Preparation	Road construction	Dust, total suspended solids (TSS), total dissolved solids (TDS), turbidity
	Removal of overburden	
	Removal of waste rock to expose the mineral body	
Mineral Extraction	Blasting activities	Dust, TSS
Mineral Processing Activities	Rock sorting	Dust, TSS, TDS, turbidity, fines
	Rock crushing	Dust, TSS, TDS, turbidity, fines
	Rock washing	TSS, TDS, turbidity, pH
	Raw material storage	Dust, TSS, TDS, turbidity
	Waste rock storage	Dust, TSS, TDS, turbidity, pH
	Raw material loading	Dust, TSS, TDS, turbidity
	Processing materials unloading	Diesel/gas fuel, oil, lime
	Raw or waste material transportation	Dust, TSS, TDS, turbidity

Instructions (See 2015 MSGP Part 5.2.4.3):

- Include the following in this section:
  - **Potential spills and leaks:** A description of where potential spills and leaks could occur at your site that could contribute pollutants to your storm water discharge, and specify which outfall(s) are likely to be affected by such spills and leaks.
  - **Past spills and leaks:** A description of significant spills and leaks in the past 3 years of oil or toxic or hazardous pollutants that actually occurred at exposed areas, or that drained to a storm water conveyance.
- *Note: Significant spills and leaks include, but are not limited to, releases of oil or hazardous substances in excess of quantities that are reportable under CWA Section 311 (see 40 CFR 110.6 and 40 CFR 117.21) or Section 102 of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), 42 USC §9602.*

SPILLS AND LEAKS

MSGP Template Part 2.2, MSGP § 5.2.4.3

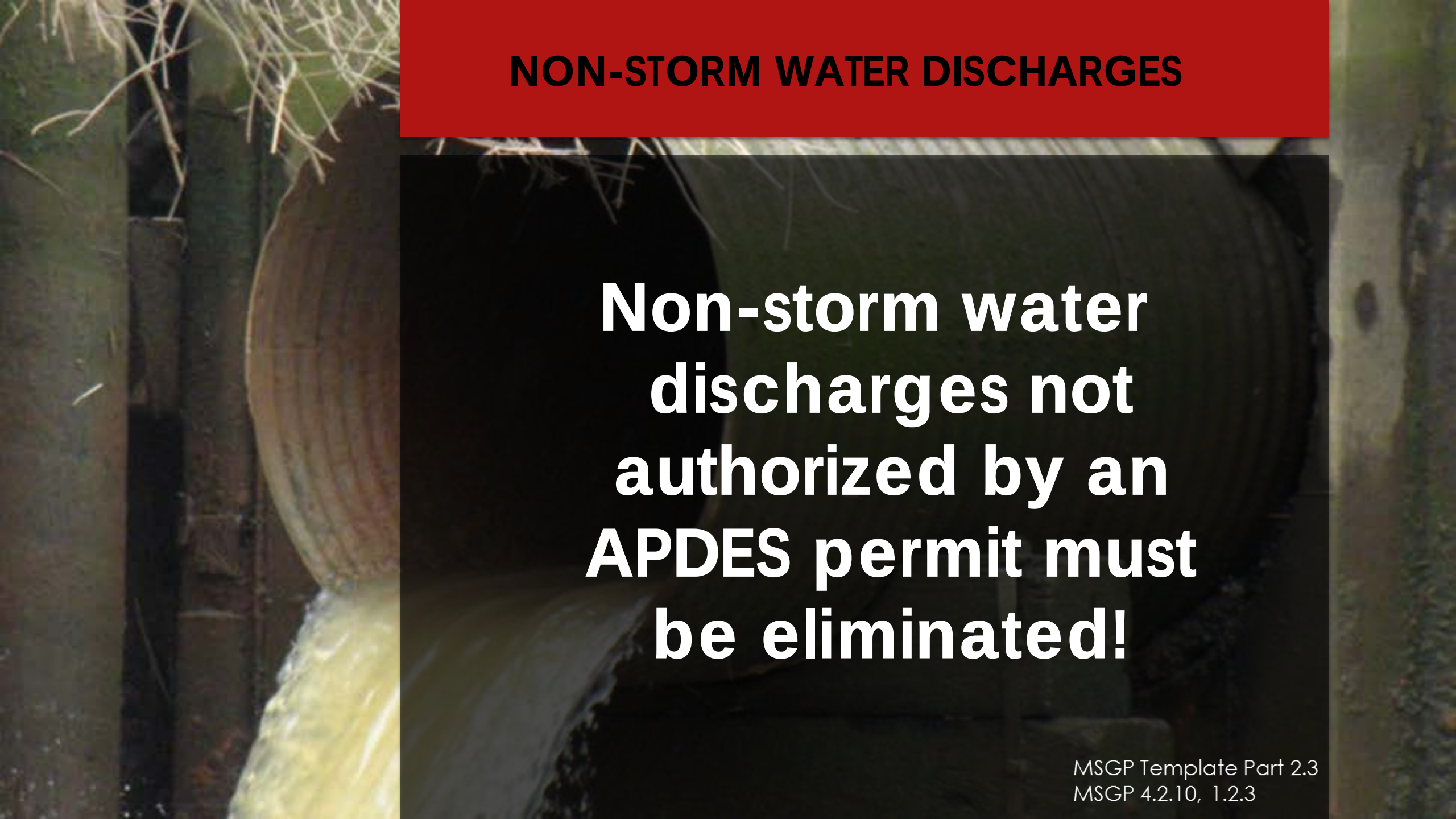
Non-Storm Water Discharges

MSGP Template Part 2.3
MSGP § 4.2.10 and 1.2.3

Authorized Non-Storm Water Discharges:

1. ***Discharges from fire-fighting activities;***
2. ***Fire hydrant flushings;***
3. ***Potable water, including water line flushings;***
4. ***Uncontaminated condensate from air conditioners, coolers, and other compressors and from the outside storage of refrigerated gases or liquids;***
5. ***Irrigation drainage;***
6. ***Landscape watering provided all pesticides, herbicides, and fertilizer have been applied in accordance with the approved labeling;***
7. ***Pavement wash waters where no detergents or hazardous cleaning products are used;***
8. ***Wheel wash water that does not use detergents;***
9. ***Routine external building wash down / power wash water that does not use detergents or hazardous cleaning products;***
10. ***Uncontaminated ground water or spring water;***
11. ***Foundation or footing drains where flows are not contaminated with process materials;***
12. ***Incidental windblown mist from cooling towers; and***
13. ***Discharges from the spray down of lumber and wood product storage yards where no chemical additives are used in the spray-down waters and no chemicals are applied to the wood during storage (applicable only to Sector A facilities).***

NON-STORM WATER DISCHARGES



Non-storm water discharges not authorized by an APDES permit must be eliminated!

MSGP Template Part 2.3
MSGP 4.2.10, 1.2.3

Non-Storm Water Discharges

THE PRESENCE OR ABSENCE OF UNAUTHORIZED NON-STORM WATER DISCHARGES MUST BE VERIFIED BY INSPECTION!

- Date of evaluation: Insert the date(s) of your evaluation.
- Description of the evaluation criteria used: Describe the method you used to conduct your evaluation and to determine for each non-storm water sources whether it is prohibited or allowed under the permit.
- List of the outfalls or onsite drainage points that were directly observed during the evaluation: Insert outfalls/drainage points observed.
- Different types of non-storm water discharge(s) and source locations: Describe types of non-storm water discharges observed and the corresponding outfall or drainage point.
- Action(s) taken, such as a list of control measures used to eliminate unauthorized discharge(s), if any were identified. For example, a floor drain was sealed, a sink drain was re-routed to sanitary, or an NPDES permit application was submitted for an unauthorized cooling water discharge: Describe actions taken to eliminate unauthorized non-storm water discharges and the corresponding outfall/drainage point affected.

MSGP Template Part 2.3
MSGP § 5.2.4.4

Salt Storage Piles and Piles Containing Salt

MSGP Template Part 2.4
MSGP § 4.2.7 and § 5.2.4.5

Storage piles of salt, or piles containing salt, used for deicing or other commercial or industrial purposes, including maintenance of paved surfaces. must be enclosed or covered

Appropriate measures (e.g., good housekeeping, diversions, containment) must also be implemented to minimize exposure resulting from adding to or removing materials from the pile.

http://www.mortonsalt.com/content/images/salt-facts/salt-production-1.jpg?v=1.5

Technology-Based Effluent Limits

http://www.pugetsoundkeeper.org/wp-content/uploads/2012/12/Enforcement-1024x768.jpg

Non-Numeric Technology-Based Effluent Limits

Two types of control measures required by the permit:

1. General controls that apply to all facilities (MSGP 4.2); and
2. Sector Specific controls that apply only to specific sectors (MSGP 11).

General Controls Required at all facilities

- Minimize Exposure
- Good Housekeeping
- Maintenance
- Spill Prevention and Response Procedure
- Erosion and Sediment Controls
- Management of Runoff
- Salt Storage Piles or Piles Containing Salt
- Employee Training
- Non-Storm Water Discharges
- Waste, Garbage, Floatable debris
- Dust Generation and Vehicle Track-Out

http://www.yugzone.ru/picture/bestphoto2007/A+labourer+in+the+dust+at+the+construction+site+of+the+National+Olympic+Stadium.html

Required Practices for all Sectors

http://www.sjcfl.us/Environmental/images/_550_stormwater.jpg

Minimize Exposure

MSGP Template Part 3.1
MSGP § 4.2.1

1. Use grading, berming, or curbing to prevent runoff of contaminated flows and divert run-on away from these areas;
2. Locate materials, equipment, and activities so that leaks are contained in existing containment and diversion systems (confine the storage of leaky or leak-prone vehicles and equipment awaiting maintenance to protected areas);
3. Clean up spills and leaks promptly using dry methods (e.g., absorbents) to prevent the discharge of pollutants;
4. Use drip pans and absorbents under or around leaky vehicles and equipment or store indoors where feasible;
5. Use spill/overflow protection equipment;
6. Drain fluids from equipment and vehicles that will be decommissioned or will remain unused for extended periods of time;
7. Perform all cleaning operations indoors, under cover, or in bermed areas that prevent runoff and run-on and also that capture any overspray; and
8. Ensure that all washwater, with the exception of discharges from pavement wash water and routine building washdown described in Part 1.2.3 drains to a sanitary sewer, sump, or other proper collection system (i.e., not the storm water drainage system).

http://www.buffaloindustries.com/images/bagfronts/BF-enpac-spill-kit-clean-up.jpg

Good Housekeeping

MSGP Template Part 3.2
MSGP 4.2.2

A permittee must keep clean all exposed areas that are potential sources of pollutants, including but not limited to:

- Using such measures as sweeping at regular intervals;
- Keeping materials orderly and labeled; and
- Storing materials in appropriate containers.

http://upload.wikimedia.org/wikipedia/commons/b/be/Barrido_Manual_Sinder.jpg

Maintenance Practices

MSGP Template Part 3.3
MSGP 4.2.3

- A permittee must regularly inspect, test, maintain, and repair all industrial equipment and systems to avoid situations that may result in leaks, spills, and other releases of pollutants in storm water discharged to receiving waters.
- The permittee must maintain all control measures that are used to achieve the effluent limits required by this permit in effective operating condition.
- Nonstructural control measures must also be diligently maintained (e.g., spill response supplies available, personnel appropriately trained).
- If the permittee finds that their control measures need to be replaced or repaired, the permittee must make the necessary repairs or modifications within 14 days or as expeditiously as practicable.

http://www.lakecountyohio.gov/portals/20/images/Urban/ESC%20BMPs/Inlet_bad.jpg

Spill Prevention and Response

MSGP Template Part 3.4
MSGP 4.2.4

"**At a minimum**, the permittee must implement:"

1. Procedures for plainly labeling containers;
2. Procedures for material storage and handling, including the use of secondary containment and barriers between material storage and traffic areas;
3. Procedures for expeditiously stopping, containing, and cleaning up leaks, spills, and other releases;
4. Procedures for notification of appropriate facility personnel, emergency response agencies, and regulatory agencies;
5. The permittee must provide a description of the release, the circumstances leading to the release, and the date of the release to the nearest DEC Area Response Team Office, in accordance to AS 75.300; and
6. The permittee must also implement measures to prevent the reoccurrence of such releases and to respond to such releases.

http://naturalsols.co.uk/Spill%20Response/chemical%20spill.JPG

Erosion and Sediment Controls

MSGP Template Part 3.5
MSGP 4.2.5

Exposed areas must be stabilized and runoff contained using structural and/or non structural control measures to minimize onsite erosion and sedimentation, and the resulting discharge of pollutants.

At a minimum velocity dissipation devices must be placed at discharge locations and within outfall channels where necessary to reduce erosion and/or settle out pollutants.

http://www.newsouthmat.com/wp-content/uploads/soil-erosion-prevention1.jpg

Management of Runoff

MSGP Template Part 3.6
MSGP 4.2.6

Storm water runoff must be:

- Diverted;
- Infiltrated;
- Reused;
- Contained; or
- Otherwise reduced;

to minimize pollutants in a facility's discharge(s).

https://www.landandwater.com/features/vol50no2/vol50no2_2E.jpg

Salt Storage Piles and Piles Containing Salt

MSGP Template Part 3.7
MSGP § 4.2.7

Storage piles of salt, or piles containing salt, used for deicing or other commercial or industrial purposes, including maintenance of paved surfaces. must be enclosed or covered

Appropriate measures (e.g., good housekeeping, diversions, containment) must also be implemented to minimize exposure resulting from adding to or removing materials from the pile.

http://www.mortonsalt.com/content/images/salt-facts/salt-production-1.jpg?v=1.5

Additional Technology-Based Effluent Limits

MSGP Template Part 3.8
MSGP § 4.2.7

Additional technology-based effluents limits exist for the following sectors:

- Sector A – Timber Products, Operational Phase Controls
- Sector E – Glass, Clay, Cement, Concrete, and Gypsum Products, Operational Phase Controls
- Sector F – Primary Metals, Operational Phase Controls
- Sector G - Metal Mining, Construction & Operational Phase Controls
- Sector H - Coal Mines, Construction & Operational Phase Controls
- Sector I - Oil and Gas, Operation Phase Controls
- Sector J – Non-Metallic Mines, Construction & Operational Phase Controls
- Sector L - Landfills, Operational Phase Controls
- Sector M - Automobile Salvage, Operational Phase Controls
- Sector N - Scrap Recycling, Operational Phase Controls
- Sector O - Steam Generating Facilities, Operational Phase Controls
- Sector P - Land Transport and Warehousing, Operational Phase Controls

Additional Technology-Based Effluent Limits

- Sector Q - Water Transportation, Operational Phase Controls
- Sector R - Ship and Boat Building and Repair Yards, Operational Phase Controls
- Sector S - Air Transportation, Operational Phase Controls
- Sector T - Treatment Works, Operational Phase Controls
- Sector U - Food and Kindred Products, Operational Phase Controls
- Sector V - Textile Mills and Apparel, Operational Phase Controls
- Sector X - Printing, Operational Phase Controls
- Sector Y - Rubber, Misc Manufacturing, Operational Phase Controls
- Sector Z - Leather Tanning & Products, Operational Phase Controls
- Sector AA - Fabricated Metal Products, Operational Phase Controls

Training of Employees

MSGP Template Part 3.9
MSGP 4.2.9

- All employees who work in areas where industrial materials or activities are exposed to storm water, or who are responsible for implementing activities necessary to meet the conditions of this permit must be trained.
- Training must cover both the specific control measures used to achieve the effluent limits, monitoring, inspection, planning, reporting, and documentation requirements in other parts of this permit.
- Training shall be conducted at least annually and documented in the SWPPP.

http://ak4.picdn.net/shutterstock/videos/2028916/preview/stock-footage-young-people-in-professional-training-on-industrial-site.jpg

Non-Storm Water Discharges

MSGP Template Part 3.10
MSGP § 4.2.10 and 1.2.3

Authorized Non-Storm Water Discharges:

1. ***Discharges from fire-fighting activities;***
2. ***Fire hydrant flushings;***
3. ***Potable water, including water line flushings;***
4. ***Uncontaminated condensate from air conditioners, coolers, and other compressors and from the outside storage of refrigerated gases or liquids;***
5. ***Irrigation drainage;***
6. ***Landscape watering provided all pesticides, herbicides, and fertilizer have been applied in accordance with the approved labeling;***
7. ***Pavement wash waters where no detergents or hazardous cleaning products are used;***
8. ***Wheel wash water that does not use detergents;***
9. ***Routine external building wash down / power wash water that does not use detergents or hazardous cleaning products;***
10. ***Uncontaminated ground water or spring water;***
11. ***Foundation or footing drains where flows are not contaminated with process materials;***
12. ***Incidental windblown mist from cooling towers; and***
13. ***Discharges from the spray down of lumber and wood product storage yards where no chemical additives are used in the spray-down waters and no chemicals are applied to the wood during storage (applicable only to Sector A facilities).***

Waste, Garbage and Floatable Debris

MSGP Template Part 3.11
MSGP 4.2.11

Waste, garbage, and floatable debris must not be discharged into receiving waters.

Exposed areas must be kept free of waste, garbage, or floatable debris

OR

Waste, garbage, and floatable debris must be intercepted before they are discharged.

http://www.recycling-nord.com/files/www/gewerbeabfall.png

Dust Generation and Vehicle Tracking of Industrial Materials

MSGP Template Part 3.12
MSGP 4.2.12

Dust and offsite tracking of raw, final, or waste materials must be minimized.

Appropriate BMPs to minimize tracking include the establishment of stabilized access and exit points.

http://www.envirofloeng.com/images/Limestone%20Crushing%20Dust%20Generation.jpg

MSGP Water Quality Monitoring

Types of Monitoring

- Quarterly Visual Assessment (MSGP 6.2)
- Bench Mark Monitoring (MSGP 7.2.1)
- Annual Effluent Guideline Monitoring (MSGP 7.2.2)
- Impaired Water Monitoring (MSGP 7.2.3)

https://allianceforthebay.org/wp-content/uploads/2012/04/Monitoring.jpg

Quarterly Visual Assessment

MSGP Template Part 4.0
MSGP 6.2.1

Once each calendar quarter for the entire permit term, the permittee must collect a storm water sample from each outfall and conduct a visual assessment of each of these samples.

http://www.beaconinspections.net/wp-content/uploads/water-drop_opt.jpg

Quarterly Visual Assessment

MSGP Template Part 4.0
MSGP 6.2.1

Sample Collection Procedure

The visual assessment of Storm Water must be made for each outfall:

- Of a sample in a clean, clear glass, or plastic container, and examined in a well-lit area;
- On samples collected within the first 30 minutes of an actual discharge from a measurable storm event. If it is not possible to collect the sample within the first 30 minutes of discharge, the sample must be collected as soon as practicable after the first 30 minutes and the permittee must document why it was not possible to take samples within the first 30 minutes. In the case of snowmelt, samples must be taken during a period with a measurable discharge from the permittee's site; and
- For storm events, on discharges that occur at least 72 hours (3 days) from the previous discharge. The 72-hour (3-day) storm interval does not apply if the permittee documents that less than a 72-hour (3-day) interval is representative for local storm events during the sampling period.

http://www.ci.valdez.ak.us/images/pages/N212/Full%20water%20sample%20bottle.jpg

Quarterly Visual Assessment

MSGP Template Part 4.0
MSGP 6.2.1

Water Quality Characteristics

- Color;
- Odor;
- Clarity (diminished);
- Floating solids;
- Settled solids;
- Suspended solids;
- Foam;
- Oil sheen; and
- Other obvious indicators of storm water pollution.

http://www.uswateralliance.org/wp-content/uploads/2012/11/Water-Quality-Testing.jpg

Quarterly Visual Assessment

MSGP Template Part 4.0
MSGP 6.2.2

Visual Assessment Documentation

- Sample location(s)
- Sample collection date and time, and visual assessment date and time for each sample;
- Personnel collecting the sample and performing visual assessment, and their signatures;
- Nature of the discharge (i.e., runoff or snowmelt);
- Results of observations of the storm water discharge;
- Probable sources of any observed storm water contamination, and
- If applicable, why it was not possible to take samples within the first 30 minutes.
- Quarterly Visual Assessment Documentation must be signed and certified in accordance with the permit.

http://thewaterproject.org/images/dirty-water-glass.jpg

Bench Mark Monitoring

This permit stipulates pollutant benchmark concentrations that may be applicable to certain sectors / subsectors. Benchmark monitoring data are primarily for the permittee's use to determine the overall effectiveness of the permittee's control measures and to assist the permittee in knowing when additional corrective action(s) may be necessary to comply with the effluent limitations in MSGP Part 4.

The benchmark concentrations are not effluent limitations; a benchmark exceedance, therefore, is not a permit violation. However, if corrective action is required as a result of a benchmark exceedance, failure to conduct required corrective action is a permit violation.

At the permittee's discretion, more than four samples may be taken during separate runoff events and used to determine the average benchmark parameter concentration for facility discharges. These extra samples may be taken in any quarter of the permittee's choice.

MSGP Template Part 4.0
MSGP 7.2.1

http://www.ecy.wa.gov/programs/wq/stormwater/industrial/sampling14.jpg

MSGP Water Quality Monitoring

MSGP Template Part 4.0
MSGP § 4.3 and § 7.2.2

Annual Effluent Guideline Monitoring

Sectors Requiring Monitoring for Effluent Limits Based on Effluent Limitations Guidelines

Regulated Activity		Monitoring Frequency	Sample Type
Sector A	*Wetted log decks*	*1/year*	*Grab*
Sector C	Phosphate fertilizers	1/year	Grab
Sector D	Asphalt emulsion facilities	1/year	Grab
Sector E	Storage piles at cement facilities	1/year	Grab
Sector J	Mine dewatering discharges	1/year	Grab
Sector K	Runoff from hazardous waste landfills	1/year	Grab
Sector L	Runoff from landfills	1/year	Grab
Sector O	Coal storage piles	1/year	Grab
Sector S	Airports with 1,000 or more annual jet departures that discharge wastewater associated with airfield pavement deicing that contains urea commingled with storm water	1/year	Grab

MSGP Impaired Water Body Monitoring

Section 303(d) Listed Waters Monitoring

ALL Discharges to an impaired water body must be monitored

If a permittee discharges to an impaired water, the permittee must monitor for all pollutants for which the waterbody is impaired and for which a standard analytical method exists.

MSGP Template Part 4.0
MSGP 7.2.3

MSGP Water Quality Monitoring

All monitoring data collected must be submitted to DEC no later than 30 days (email date or postmark date) after the permittee has received the complete laboratory results for all monitored outfalls for the reporting period.

DEC requires the use of the MSGP discharge monitoring report (MDMR) available at:

http://www.dec.alaska.gov/water/wnpspc/pdfs/ MSGPMDMR.pdf

For Agency Use

Permit Tracking #_____

Alaska Department of Environmental Conservation

MSGP Industrial Discharge Monitoring Report (MDMR)

Reason(s) for Submission (Check all that apply):	
☐	Submitting monitoring data (fill in all Sections).
☐	Reporting no discharge for all outfalls for this monitoring period (fill in Sections I, II, III, IV, and VI).
☐	Reporting that your site status has changed to inactive and unstaffed (fill in Sections I, II, VI and include date of status change in comments field in Section V).
☐	Reporting that your site status has changed to active (fill in all sections and include date of status change in comments field in Section V).
☐	Reporting that no further pollutant reductions are achievable for all outfalls and for all pollutants via Part 7.2.1.4 of the MSGP (fill in Sections I, II, and VI).
Section I. Permit Information	
Permit Tracking Number:	
Section II. Facility Information	

MSGP Inspections

MSGP Template Part 5.0
MSGP 5.3

http://stormwater.horrycounty.org/Portals/21/SiteImages/construction_inspection_thumb.jpg

MSGP Inspections

MSGP Template Part 5.0
MSGP 5.3

All Facilities are required to perform inspections!

- Who performs inspections?
- Types of Inspections?
- What is required to be inspected?
- When must Inspections be performed?
- What documentation must be completed?
- Exceptions to Inspections?

http://wp.compliancego.com/wp-content/uploads/2013/07/inspection.jpg

Who Performs Inspections?

MSGP App. C

Qualified Personnel

Qualified personnel are those who possess the knowledge and skills to assess conditions and activities that could impact storm water quality at your facility, and who can also evaluate the effectiveness of control measures.

http://tdhengineering.com/wp-content/uploads/2014/03/construction-managment.jpg

Types of Inspections

MSGP Template Part 5.0
MSGP 5.3

1. Routine Inspections (MSGP 6.1);
2. Comprehensive Inspections (MSGP 6.3); and
3. Sectors Requiring Additional Inspections.

http://www.rinconconsultants.com/Portals/111276/images/storm%20water-resized-600.jpg

Routine Facility Inspections

MSGP Template Part 5.0
MSGP 6.1.1

What Must Be Inspected?

- Areas where industrial materials or activities are exposed to storm water;
- Areas identified in the SWPPP and those that are potential pollutant sources;
- Areas where spills and leaks have occurred in the past 3 years;
- Discharge points; and
- Control measures used to comply with the effluent limits contained in this permit.

http://www.soundearthinc.com/wp-customcontent/uploads/2012/08/Stormdrain-Inspection.jpg

Comprehensive Facility Inspections

MSGP Template Part 5.0
MSGP 6.1.1

What Must Be Inspected?

- Industrial materials, residue, or trash that may have or could come into contact with storm water;
- Leaks or spills from industrial equipment, drums, tanks, and other containers;
- Offsite tracking of industrial or waste materials, or sediment where vehicles enter or exit the site;
- Tracking or blowing of raw, final, or waste materials from areas of no exposure to exposed areas;
- Control measures needing replacement, maintenance, or repair;
- Storm water control measures required by this permit must be observed to ensure that they are functioning correctly. If discharge locations are inaccessible, nearby downstream locations must be inspected; and
- Review of Visual Quarterly Assessment Data for the year.

http://www.lionliquorlicensing.com.au/wp-content/uploads/2014/07/facility_safety_inspection_worker.png

When Must Inspections be Performed?

Inspection Schedule

- Routine Inspections - monthly or quarterly(MSGP 6.1.1)
- Comprehensive Inspections – annually (MSGP 6.3.1)
- Sectors Requiring Additional Inspections
  - Daily;
  - Every 7 calendar days;
  - Once every 14 days and after a storm event resulting in discharge from the site; and/or
  - Monthly.

http://www.brickhouse-environmental.com/sitebuildercontent/sitebuilderpictures/.pond/Post_Const_Inspection.jpg.w300h681.jpg

What Documentation Must be Completed?

Documentation of each facility inspection must include:

- The inspection date and time;
- The name(s) and signature(s) of the inspector(s);
- Weather information;
- All observations relating to the implementation of control measures at the facility, including:
- A description of any discharges occurring at the time of the inspection;
- Any previously unidentified discharges of pollutants from the site;
- Any evidence of, or the potential for, pollutants entering the drainage system;
- Observations regarding the physical condition of and around all outfalls including any flow dissipation devices, and evidence of pollutants in discharges and/or the receiving water;
- Any control measures needing maintenance, repairs; or replacement;
- Any additional control measures needed to comply with the permit requirements; and
- Any incidents of noncompliance observed.

MSGP Template Part 5.0
MSGP 6.1.2

http://www.ci.seatac.wa.us/Modules/ShowImage.aspx?imageid=1049

Exceptions to Inspection

MSGP Template Part 5.0
MSGP 6.1.3

Inactive and Unstaffed Sites

The requirement to conduct routine facility inspections on a quarterly basis does not apply at a facility that is inactive and unstaffed, as long as there are no industrial materials or activities exposed to storm water.

http://www.ironmountaindailynews.com/photos/news/md/537104_1.jp

Obtaining Coverage under the MSGP

1) Develop the MSGP SWPPP for your facility (MSGP 5.2);
2) Select, design, install and implement Control Measures for the Non-Numeric Technology Based Effluent Limits;
    a) All facilities must provide controls in Section 4.2 of MSGP; and
    b) Sector specific controls are provided in Section 11 of the MSGP.
3) Submit Notice of Intent to the Alaska Department of Environmental Conservation (MSGP 2.2);
    a) Authorization to discharge begins 7 calendar days DEC's acknowledgement of receipt of the operators complete and paid for NOI is posted on DEC's APDES Permit Search website.
4) Pay permit authorization fee.
    a) Initial permit authorization fee is paid with NOI; and
    b) The permit authorization fee ($735) is paid annually.

http://www.ehs-experts.com/Portals/0/Images/blog/Stormwater-runoff.jpg

MSGP Corrective Actions

MSGP 8.1

Corrective action is required when:

- An unauthorized release or discharge (e.g., spill, leak, or discharge of non-storm water not authorized by this or another APDES permit) occurs at the permittee's facility;
- A discharge violates a numeric effluent limit;
- The permittee becomes aware, or DEC determines, that the permittee's control measures are not stringent enough for the discharge to meet a WQS in the receiving water;
- An inspection or evaluation of the permittee's facility by an DEC or EPA official determines that modifications to the control measures are necessary to meet the non-numeric effluent limits in this permit; or
- The permittee finds in their routine facility inspection, quarterly visual assessment, or comprehensive site inspection that their control measures are not being properly operated and maintained.

http://sakenvironmental.com/wp-content/uploads/2014/04/storm-water1.jpeg

MSGP NON-COMPLIANCE REPORT

Alaska Department of Environmental Conservation
Division of Water, Compliance and Enforcement Program
555 Cordova Street
Anchorage, Alaska 99501
Nationwide Toll Free: 1(877) 569-4114 Anchorage/International: (907) 269-4114
Fax: (907) 269-4604 E-mail address: dec-wqreporting@alaska.gov.

NONCOMPLIANCE NOTIFICATION

GENERAL INFORMATION	PERMIT# (if any):	
Owner or Operator:	Facility Name:	Facility Location:
Person Reporting:	Phone Numbers of Person Reporting:	Reported How? (e.g. by phone):
Date/Time Event was Noticed:	Date/Time Reported:	Name of DEC Staff Contacted:

VERBAL NOTIFICATION MUST BE MADE TO ADEC WITHIN 24 HOURS OF DISCOVERY OF NONCOMPLIANCE

INCIDENT DETAILS (attach additional sheets, lab reports, and photos as necessary)

Period of Noncompliance	Start Date/Time (exact):	End Date/Time (exact):

If noncompliance has not been corrected, provide a statement regarding the anticipated time the noncompliance is expected to continue:

Estimated Quantity involved (volume or weight):

Description of the noncompliance and its cause (be specific):

Actions taken to reduce, eliminate, and prevent reoccurrence of noncompliance and Actual/Potential Impact on Environmental Health (describe in detail) (e.g. Supplied drinking water to nearby well owners and informed well owners not to drink from wells until further notice)

Permit Condition Deviation (Identify each permit condition exceeded during the event.)

Parameter (e.g. BOD pH)	Permit Limit	Exceedance (sample result)	Sample Date

Corrective Actions (Attach a description of corrective actions taken to restore the system to normal operation and to minimize or eliminate chances of recurrence.)

Environmental Damage: (if yes, provide details below) ☐ Yes ☐ No ☐ Unknown

Actual /Potential Impact on Environment/Public Health (describe in detail)

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.

Name: Title: Signature: Date:

FORMS MUST BE SENT TO ADEC WITHIN FIVE DAYS OF BECOMING AWARE OF THE EVENT.

For Agency Use

Permit Tracking #: _____

Alaska Department of Environmental Conservation
MSGP Corrective Action Form

Section I. General Information

Facility Name		APDES Permit Tracking Number	
Facility Physical Address			
Street	City	State	Zip Code
		Alaska	

Contact Person	Title	Phone	Email

Lead Inspector's Name	Additional Inspector's Name	Additional Inspector's Name	Inspection Date

Section II. Corrective Actions

Complete this page for each specific condition requiring a corrective action or a review determining that no corrective action is needed. Copy this page for additional corrective actions or reviews.

Include both corrective actions that have been initiated or completed since the last annual report, and future corrective actions needed to address problems identified in the comprehensive storm water inspection. Include an update on any outstanding corrective actions that had not been completed at the time of your previous annual report.

1. Corrective Action # of for this reporting period.

2. Is this corrective action:
   - ☐ An update on a corrective action from a previous annual report; or
   - ☐ A new corrective action?

3. Identify the condition(s) triggering the need for this review:
   - ☐ Unauthorized release of discharge
   - ☐ Numeric effluent limitation exceedance
   - ☐ Control measures inadequate to meet applicable water quality standards
   - ☐ Control measures inadequate to meet non-numeric effluent limitations
   - ☐ Control measures not properly operated or maintained
   - ☐ Change in facility operations necessitated change in control measures
   - ☐ Average benchmark value exceedance
   - ☐ Other (describe):

4. Briefly describe the nature of the problem identified:

MSGP Corrective Actions

MSGP 8.2

As part of any corrective action, the permittee must review the selection, design, installation, and implementation of their control measures to determine if:

- Construction or a change in design, operation, or maintenance at a permittee's facility significantly changes the nature of pollutants discharged in storm water from their facility, or significantly increases the quantity of pollutants discharged; or
- The average of four quarterly sampling results exceeds an applicable benchmark. If less than four benchmark samples have been taken, but the results are such that an exceedance of the four quarter average is mathematically certain (i.e., if the sum of quarterly sample results to date is more than four times the benchmark level) this is considered a benchmark exceedance, triggering this review.

http://secainc.com/wp-content/uploads/2012/06/Stormwater.jpg

MSGP Annual Report

MSGP 9.2

A permittee must submit an annual report to DEC that includes:

- The findings from facility comprehensive inspections;
- Corrective actions performed at the facility;
- The status of any uncompleted corrective actions;
- Facility name;
- APDES Tracking Number;
- Facility physical address; and
- Contact person name, title, and phone number.

http://dadsdivorce.com/wp-content/uploads/2012/05/www.dadsdivorce.com_images_child-custody-report.jpg

For Agency Use

Permit Tracking #: _____

Alaska Department of Environmental Conservation
MSGP Annual Reporting Form

Section I. General Information

Facility Name			APDES Permit Tracking Number
Facility Physical Address			
Street	City	State	Zip Code
		Alaska	

Contact Person	Title	Phone	Email

Lead Inspector's Name	Additional Inspector's Name	Additional Inspector's Name	Inspection Date

Section II. General Inspection Findings

1. As part of this comprehensive site inspection, did you inspect all potential pollutant sources, including areas where industrial activity may be exposed to storm water? ☐ Yes ☐ No

   If NO, describe why not:

MSGP Recordkeeping

MSGP 9.5

For a period of at least 3 years from the date that the permittee's coverage under this permit expires or is terminated:

A permittee must retain copies of their SWPPP (including any modifications made during the term of this permit), additional documentation requirements pursuant to MSGP Part 5.8 (including documentation related to corrective actions taken pursuant to MSGP Part 5), all reports and certifications required by this permit, monitoring data, and records of all data used to complete the NOI to be covered by this permit.

http://www.jmco.com/media/Recordkeeping.jpeg

ONCE YOUR SWPPP IS COMPLETE FILE YOUR NOTICE OF INTENT

For Agency Use

Permit #: _____

Notice of Intent (NOI) For Storm Water Discharges Associated With Industrial Activity Under the APDES Multi-Sector General Permit

Submission of this completed Notice of Intent (NOI) constitutes notice that the operator identified in Section I of this form requests authorization to discharge pollutants to waters of the United States from the facility or site identified in Section III under Alaska's APDES Multi-Sector General Permit (MSGP) for industrial storm water. Submission of this NOI constitutes your notice to DEC that the facility identified in Section III of this form meets the eligibility conditions of Part 1.1 of the MSGP. Please read and make sure you comply with all eligibility requirements, including the requirement to prepare a storm water pollution prevention plan. Refer to the instructions at the end of this fo rm to complete your NOI.

Section I. Operator Information

Organization: Contact Person:

Mailing Address:

Street (PO Box):

City: State: Alaska Zip:

Phone: Fax (optional): Email:

Section II. Billing Contact Information

Organization: Contact Person:

Terminating Coverage

MSGP 10.2

A permittee must submit a notice of termination (NOT) within 30 calendar days after one or more of the following conditions have been met:

- A new owner or operator has taken over responsibility for the facility;
- The permittee has ceased operations at the facility, there are not or no longer will be discharges of storm water associated with industrial activity from the facility, and has already implemented necessary sediment and erosion controls as required by MSGP 4.2.5;
- The permittee is a Sector G, H, or J facility and has met the applicable termination requirements; or
- The permittee has obtained coverage under an individual or alternative general permit for all discharges required to be covered by an APDES permit, unless DEC has required that they obtain such coverage under authority of MSGP 2.8.1, in which case coverage under this permit will terminate automatically.