

Stormwater Pollution Prevention Plan for:

Eagle Rock Convenience Center
6301 Eagle Rock Avenue NE
Albuquerque, NM 87113
(505) 857-8440

SWPPP Contact:

City of Albuquerque
Solid Waste Management Department
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Albuquerque, NM 87107
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SWPPP Preparation Date:

October 2016

Prepared By:



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Overview of SWPPP Development and Availability

The City of Albuquerque (City) Solid Waste Management Department (SWMD) owns and operates the Eagle Rock Convenience Center (ERCC). The operations of this facility are considered industrial activities that have the potential to impact stormwater quality. Therefore, this facility is required to have a National Pollutant Discharge Elimination System (NPDES) permit. SWMD has applied for coverage under the Multi-Sector General Permit (MSGP) for Stormwater Discharges Associated with Industrial Activity (*MSGP 2015*) (effective June 4, 2015). This SWPPP is required by the *MSGP 2015* and its purpose is to describe the SWMD's program for complying with all of the requirements in the *MSGP 2015*. This SWPPP is available at ERCC at 6301 Eagle Rock Avenue Northeast and on the SWMD website at <http://www.cabq.gov/SWPPP>.

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Section 1: Facility Description and Contact Information

1.1 Facility Information

Eagle Rock Convenience Center Information

Name of Facility: Eagle Rock Convenience Center

Street: 6301 Eagle Rock Avenue NE

City: Albuquerque State: NM ZIP Code: 87113

County or Similar Subdivision: Bernalillo County

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

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

Latitude:

Longitude:

1. 35° 11' 17.32" N (degrees, minutes, seconds)

1. 106° 34' 29.38" 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): Google Earth Pro

Is the facility located in Indian Country? Yes No

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

Is this facility considered a Federal Facility? Yes No

Estimated area of industrial activity at site exposed to stormwater: 7.0 (acres)

Eagle Rock Convenience Center Discharge Information

Does this facility discharge stormwater into an MS4? Yes No

If yes, name of MS4 operator: City of Albuquerque (City) and Albuquerque Metropolitan Arroyo Flood Control Authority (AMAFCA)

Name(s) of water(s) that receive stormwater from your facility: City Storm Drain, AMAFCA South La Cueva Channel, AMAFCA La Cueva Channel, AMAFCA North Diversion Channel and the Rio Grande

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): Rio Grande-Albuquerque [Isleta Pueblo and to Alameda Bridge]

Identify the pollutant(s) causing the impairment: E-Coli, PCBs, Dissolved Oxygen, and Temperature

For pollutants identified, which do you have reason to believe will be present in your discharge?
Organics contributing to reduced dissolved oxygen

For pollutants identified, which have a completed TMDL? E-Coli

Do you discharge into a receiving water designated as a Tier 2 (or Tier 2.5) water? Yes No

Are any of your stormwater discharges subject to effluent guidelines? Yes No

If Yes, which guidelines apply? _____

Primary SIC Code or 2-letter Activity Code: 4212 and 5093

Identify your applicable sector and subsector: Sector P – Land Transportation And Warehousing, Subsector P1-Motor Freight Transportation and Warehouse, Sector N – Scrap Recycling Facilities, Subsector N2 – Source-separated Recycling Facility

1.2 Contact Information/Responsible Parties

Facility Operator (s):

Name: City of Albuquerque Solid Waste Management Department
Address: 4600 Edith Boulevard NE
City, State, Zip Code: Albuquerque, NM 87107
Telephone Number: (505)761-8105
Email address: jsoladay@cabq.gov

Facility Owner (s):

Name: City of Albuquerque Solid Waste Management Department
Address: 4600 Edith Boulevard NE
City, State, Zip Code: Albuquerque, NM 87107
Telephone Number: (505)761-8105
Email address: jsoladay@cabq.gov

SWPPP Contact:

Name: Jake Daugherty, Environmental Compliance Coordinator
Telephone Number: (505)761-8324
Email address: ddaugherty@cabq.gov

24-Hour Contact (Non-Emergency):

Name: Jake Daugherty, Environmental Compliance Coordinator
Telephone Number: (505)761-8324

**TO REPORT A SPILL PLEASE CALL:
24-HOUR EMERGENCY CONTACT**

Name: Jake Daugherty, Environmental Compliance Coordinator
Telephone number: (505)761-8324
Additional number: (505)761-8328

1.3 Stormwater Pollution Prevention Team (PPT)

The stormwater pollution prevent team (PPT) is comprised of representatives from the City's SWMD. The responsibility of the PPT is to oversee development of the SWPPP and for implementing and maintaining control measures and taking corrective actions when required. A list of PPT members and contact information is provided in **Appendix A**. A summary of PPT members' responsibilities follows.

- SWMD Environmental Compliance Coordinator (PPT Leader) - Responsibilities include SWPPP development and management, facility inspections, stormwater monitoring, annual training, EPA annual reporting, NOI submission, spill response and reporting, evaluation of spill data to identify preventative measures, etc.

- PPT Members - Responsibilities include NOI submission, implementation of the SWPPP, quarterly inspections, and annual training, etc.

Each PPT member is provided an electronic copy of the SWPPP and *MSGP 2015*. It is the responsibility of the PPT member to maintain their copy of the SWPPP and ensure its completeness and availability and to fully implement the procedures and best management practices (BMPs). **Appendix A** shall be updated periodically to reflect changes in personnel.

The *MSGP 2015* is included as **Appendix B** of this SWPPP.

1.4 Activities at the Facility

SWMD operates the Eagle Rock Convenience Center (ERCC) which provides solid waste transfer and disposal services for City and Bernalillo County residents. ERCC also provides residents with an opportunity to recycle traditional household recyclables, used bicycles, green waste, metals, white goods, and electronics.

ERCC site attendants monitor the incoming waste based on the rules and regulations governing various types of waste that are accepted at the facility. Facility attendants note the composition, volume, and origin of the waste for every load and maintain waste logs, recycling logs, and random inspection reports for the facility. Upon acceptance of a load, the attendant directs the customer to the appropriate unloading area surrounding the tipping floor. Special waste types are staged in different areas of the tipping floor. All prohibited waste discovered before being unloading on the tipping floor is turned away and the resident is provided direction to where said material is allowed to be legally disposed. The resident is then responsible for proper disposal of the rejected material.

Any prohibited material discovered after unloading is either returned to the hauling vehicle or segregated and controlled, as necessary, until proper disposal can occur. The unloading of solid waste is monitored to prevent the disposal of material in areas other than those specified for a given purpose. Any waste that is deposited in an unapproved area is removed promptly and placed in the proper location within the facility.

Non-recyclable and non-prohibited waste is loaded into nine, 48 foot trailers. Eight of these trailers are designated for municipal solid waste (MSW) and the other one is used for the disposal of white goods. Used bicycles, scrap metal, green waste, and electronics have their own assigned storage areas. Special storage containers are reserved for household hazardous waste (HHW) and batteries which ERCC does not advertise as acceptable waste, but if found amongst waste deposited onsite, they have the proper storage containment to handle such materials.

When the white goods trailers are full, a transport driver delivers an empty trailer and transports the full container directly to the scrap metal recycler. Used bicycles are picked up on a weekly basis by an independent contractor to be refurbished. HHW is collected by Advanced Chemical Transport (ACT) when storage capacity is met for proper disposal. Used car batteries are delivered to a recycling facility.

The ERCC is also a single-stream recycling center that collect the types of materials listed in **Table 1**:

Table 1
Recycled Materials

Recyclable Materials	Recyclable Materials
Newspaper and Magazines	Plastics (#1 through #7)
Cardboard/Old Corrugated Cardboard	Soda, Milk, Juice and Water Bottles
Office Paper and Copier Paper	Scrap Metals/White Goods
Telephone Books	Aluminum, Steel/Tin Cans
Paperback and Hardback Books	E-Waste (Small Electronics – Cells, MP3 Players, etc)

The household recycling material is transported to a recycling facility when the containers reach full capacity. The collection of glass is transported to the Cerro Colorado Landfill. E-waste is picked up by a contractor on an as needed basis.

Other activities at ERCC include routine preventative maintenance and fueling for heavy equipment. Employees also perform wash down of the tipping floor and transfer trailers entering the truck stall.

1.5 General Location Map

The general location of the ERCC is presented on **Figure 1** of **Appendix C**. The layout of the facility is shown on **Figure 2** of **Appendix C** along with the direction of stormwater flow, outfall locations (also referred to herein as “stormwater monitoring points” or “stormwater drainage points”), and illustration of areas covered by this SWPPP.

1.6 Site Maps

As required in Section 5.1.2 of the *MSGP 2015*, the following figures include the items listed below. All figures are located in **Appendix C**.

- Site Plan Figure
 - Boundary of the property and size in acres
 - Location and extent of significant structures and impervious surfaces (evident on aerial photograph)
- Drainage Plan Figure
 - Directions of stormwater flow
 - Locations of all existing structural stormwater control measures
 - Locations of all stormwater conveyances including ditches, pipes, and swales
 - Locations of all stormwater monitoring points

- Locations of stormwater drainage points, with a unique identification code for each drainage point and identifying a “substantially identical” drainage point with an approximate outline of the areas draining to each drainage point
- Municipal separate storm sewer systems (MS4), where your stormwater discharges to them
- Activity Plan Figure
 - Locations of potential pollutant sources identified under *MSGP 2015*, Part 5.2.3.2
 - Locations of the following activities where such activities are exposed to precipitation:
 - Vehicle and equipment maintenance and/or cleaning areas
 - Loading/unloading areas
 - Locations used for the treatment, storage, or disposal of wastes
 - Liquid storage tanks
 - Transfer areas for substances in bulk
 - Machinery
- Non-Stormwater Discharges and Recent Spills Figure
 - If identified, the following items shall be located, as appropriate:
 - Locations and descriptions of all non-stormwater discharges identified under *MSGP 2015*, Part 2.1.2.10
 - Locations where significant spills or leaks identified under *MSGP 2015*, Part 5.2.3.3 have occurred
- Not Applicable
 - Processing and storage areas
 - Immediate access roads and rail lines used or traveled by carriers of raw materials, manufactured products, waste material, or by-products used or created by the facility
 - Locations of all receiving waters in the immediate vicinity of ERCC
 - Locations and sources of run-on to your site from adjacent property that contains significant quantities of pollutants

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Section 2: Potential Pollutant Sources

2.1 Industrial Activity and Associated Pollutants

Table 2 describes industrial activities performed at the ERCC and the potential pollutants associated with them.

Table 2
Industrial Activities Performed at ERCC and Associated Potential Pollutants

Industrial Activity	Associated Potential Pollutants
Household Hazardous Waste (HHW) Storage	Batteries, motor oils and fluids, cleaners, cooking oils, herbicides, insecticides, pesticides, paints, stains, and sealants
Recyclables Storage	Paper, plastic, aluminum, steel, tin, small electronics, and bicycles
Sanitary Facilities	Bacteria, parasites, and viruses
Mobile Fueling for Heavy Equipment	Diesel
Equipment Maintenance	Motor oil, antifreeze, grease/lubricant, and hydraulic fluid
Vehicle and Equipment Storage	Motor oil, antifreeze, grease/lubricant, hydraulic fluid, diesel, and gasoline
Waste Transferring Activities	Municipal Solid Waste leachate, non-hazardous solid waste, green waste

Each item listed above has been handled or stored at the ERCC within the three years prior to the submission of this SWPPP. HHW material is not accepted at the ERCC, but the facility is prepared to handle HHW if it discovered within the waste disposal area.

2.2 Spills and Leaks

Table 3 summarizes locations within the ERCC and where spills have the potential to occur.

Table 3
Potential Location for Spills

Location
HHW Storage Area
Portable Toilets
Mobile Fueling Area
Maintenance Area

No major spills or leaks have occurred in the past three years at the ERCC that would impact the drainage point. If such major spills or leaks should occur in the future, they will be identified in this section of the SWPPP and shown on **Figure 2** of **Appendix C**.

Reporting Process: All operators will report spills greater than 5 gallons to the Environmental Compliance Coordinator. The following information must be reported:

- Date and time
- Responsible party
- Fluid type and quantity
- Spill location and surface (concrete, asphalt, soil)
- Brief description of activity causing spill

The Environmental Compliance Coordinator will follow up and notify operator if any additional local, state, or federal reporting is required.

2.3 Non-Stormwater Discharges Documentation

Date of evaluations: March 22, 2015

Description of the evaluation criteria used:

ERCC was visually assessed, photographed, and documented. The summary reports of each evaluation are included in **Appendix D**. Potential non-stormwater discharges permissible under this SWPPP include:

- Discharges from firefighting activity,
- Waterline flushing,
- External building wash down (specifically allowed under the *MSGP 2015* without the use of detergents assuming no detrimental effect on stormwater quality), and
- Incidental air conditioning condensate.

All site areas, including presumed drainage ways were observed during the evaluation. No non-stormwater discharges were observed at ERCC. No actions were necessary as a result of the evaluation because no unauthorized discharges were identified.

2.4 Salt Storage

Salt and/or sand used for road deicing are not stored or used at the ERCC.

2.5 Sampling Data Summary

Stormwater has not yet been sampled at the ERCC. However, sampling requirements outlined in this SWPPP will address quarterly stormwater sampling including benchmark sampling.

Section 3: Stormwater Control Measures

Stormwater controls at the ERCC are instituted in the form of BMPs designed to address activities that are potential sources of stormwater pollution. Each BMP outlines measures designed to reduce the potential for stormwater pollution. There are currently six BMPs implemented at the ERCC. The BMPs are listed in **Table 4** and presented in their entirety in **Appendix E**.

Table 4
Summary of Best Management Practices

Facility Related & Material Processing		
BMP-1	General BMPs	Prevent or reduce the discharge of pollutants to stormwater from all industrial operations with potential to impact stormwater.
BMP-2	Reduce Municipal Solid Waste Exposure to Stormwater	Prevent or reduce the discharge of pollutants to stormwater from transfer of municipal solid waste (MSW) to containers. Prevent run-on and runoff from waste management areas.
Maintenance		
BMP-3	Equipment Maintenance	Prevent or reduce the discharge of pollutants to stormwater by performing regularly scheduled equipment maintenance.
Storage and Material Processing		
BMP-4	Proper Waste Storage and Processing of Non-Municipal Solid Waste	Prevent or reduce the discharge of pollutants to stormwater from transfer and storage of household hazardous waste, recyclable material, green waste, and sanitary waste. Preventing run-on and runoff from non-municipal solid waste management areas.
BMP-5	Vehicle and Equipment Storage	Prevent or reduce the discharge of pollutants to stormwater from outdoor vehicle and equipment storage areas.
Stormwater Control Structures		
BMP-6	Structural Stormwater Controls	Select, implement, and maintain structural stormwater controls to manage the volume and/or quality of stormwater leaving the property. Stormwater volume controls should be installed to manage stormwater volume by delaying, diverting, or reducing the amount of stormwater runoff from the site. Stormwater quality controls should be installed to prevent pollutants from contacting stormwater or remove pollutants from stormwater.

3.1 Minimize Exposure

In order to minimize the exposure of material storage areas (including loading and unloading, storage, disposal, cleaning, maintenance, and fueling operations) to rain, snow, snowmelt, and runoff; and minimize pollutant discharge from industrial activities performed at ERCC, performing and locating these activities indoors or protecting them with storm resistant cover will be implemented. The following should be performed as needed:

- Use grading, berming or curbing to prevent runoff of contaminated flows and divert run-on away from these areas;
- Locate materials, equipment, and activities so that potential leaks and spills are contained or able to be contained or diverted before discharge;
- Clean up spills and leaks promptly using dry methods (e.g., absorbents) to prevent the discharge of pollutants;
- Store leaky vehicles and equipment indoors or, if stored outdoors, use drip pans and absorbents;
- Use spill/overflow protection equipment; and
- Perform all vehicle and/or equipment cleaning operations indoors, under cover, or in bermed areas that prevent runoff and run-on and also that capture any overspray.

3.2 Good Housekeeping

Good housekeeping is regularly conducted at the ERCC. The drop-off areas have regular incoming supply of material which is stored until a sufficient quantity of material is accumulated for transfer to the Cerro Colorado Landfill, contractor pick up, or recycling centers, as applicable.

Daily inspections of the drop-off area are conducted. ERCC employees inspect the facility monthly for presence of potential stormwater pollutants (solid waste, hazardous fluids, sediment, etc.), which are properly disposed of if present. Additionally, debris gathered along the interior fence lines is raked up and disposed of on a regular basis.

3.3 Maintenance

Good engineering practices are performed to prevent spills and leaks from occurring when performing maintenance outdoors. During routine facility inspections, ERCC employees inspect all pieces of equipment and machinery to ensure it is in good repair with no drips or leaks evident. This includes:

- Performing inspections and preventive maintenance of stormwater drainage, source controls, and equipment that could fail and result in contamination of stormwater. Equipment exceeding light preventative maintenance will be sent to the Cerro Colorado Landfill maintenance facility or Edith Yards Maintenance Facility.
- Diligently maintaining non-structural control measures (e.g., keep spill response supplies available, personnel appropriately trained).

3.4 Spill Prevention and Response.

As stated in BMPs listed above, a facility-specific Spill Response Plan is posted in all areas where spills and/or leaks are likely to occur. At the ERCC, spill response plans are posted in conspicuous places and as possible near a telephone. Spill response plans shall be posted at the:

- ERCC's Administration Building,
- Maintenance and mobile fueling area,
- Indoors near the HHW storage area.

Spill response procedures and current contact information can be found on the spill response plans. A copy of the spill response plan is located in **Appendix E**. Spill prevention and response procedures should be assessed on a quarterly basis for any facility and personnel changes that might affect the efficiency in responding to a spill or release, to include:

- Develop training on the procedures for expeditiously stopping, containing, and cleaning up leaks, spills, and other releases. As appropriate, execute such procedures as soon as possible;
- Notify appropriate facility personnel when a leak, spill, or other release occurs.

Spill cleanup materials are adequately stocked, readily accessible, and labeled at all times. Spent cleanup materials are disposed of immediately and properly. All tanks, drums, buckets, and other storage containers are properly labeled and if stored outdoors, or indoors directly adjacent to a doorway, they encompass secondary containment.

Secondary containment for all fluids is required. Specific areas where secondary containment is required include:

- HHW storage

3.5 Erosion and Sediment Controls

Erosion is evaluated quarterly during stormwater monitoring events and annually during the dry weather evaluation of the stormwater drainage points. There are no stormwater management structures to control erosion and sediment.

3.6 Management of Runoff

A stormwater detention basin located at the center of the ERCC property collects precipitation runoff via sheet flow from the west and part of the north and south portion of the ERCC site. Precipitation runoff from the east portion of the ERCC site travels as sheet flow toward the east and is collected at storm inlets to a concrete lined channel. This channel conveys runoff to a stormwater detention basin located in the southeast corner of the ERCC property. Excess runoff is diverted to the City's stormwater system via an overflow structure located within both stormwater detention basins. Stormwater management structures are shown on the Site, Drainage, and Activities Plan (**Figure 2 of Appendix C**).

3.7 Salt Storage Piles or Piles Containing Salt

There are no salt storage piles at the ERCC.

3.8 MSGP Sector-Specific Non-Numeric Effluent Limits

The ERCC is not subject to Effluent Limitations.

3.9 Employee Training

The SWPPP PPT Leader is responsible for providing training to the ERCC employees regarding the components and goals of this SWPPP. The SWMD and other employees who work in areas where industrial materials and activities are exposed to stormwater, or who are responsible for implementing activities to meet the conditions of the *MSGP 2015* are expected to participate in annual SWPPP training.

Training will be provided to ERCC employees by qualified trainers at least annually, with additional training made available as required by new hires. Elements to be included in the training sessions include the following:

- Purpose, need, and requirement for stormwater pollution prevention;
- Examples of unallowable non-stormwater discharges;
- Availability, layout, and contents of the SWPPP;
- Description and applicability of the BMPs;
- Good housekeeping and preventative maintenance requirements;
- Material management practices;
- Spill response procedures;
- Spill reporting requirements;
- Corrective action reporting;
- Used oil and spent solvent management;
- Fueling procedures;
- Proper painting procedures;
- Used battery management;
- Documentation requirements; and
- Notice of Intent (NOI) submission (when applicable).

All training events are documented including the date of training, identification of the trainer and attendees, and subjects covered. Training records for SWMD's train-the-trainer session shall be included in **Appendix F** of this SWPPP.

Reporting Process: Following each training session, SWMD will distribute training certificates by email to all staff and PPT members that attend training and submit a training assessment.

3.10 Non-Stormwater Discharges

An evaluation of non-stormwater discharges was performed as described in Section 2.3 Non-Stormwater Discharges Documentation. No non-stormwater discharges were identified during the evaluation. If any future non-stormwater discharges are observed at the ERCC, details of the discharge must be logged on the form in **Appendix D** and shown on the Site Plan (**Figure 2** of **Appendix C**).

3.11 Waste, Garbage and Floatable Debris

Litter at the ERCC is routinely managed through the use of tarped/covered loads, fencing around the property, and manual collection.

3.12 Dust Generation and Vehicle Tracking of Industrial Materials

The access roads and a majority of the interior roads within the ERCC perimeter fence are paved to minimize dust generation. All customers enter and exit both facilities on paved areas. Dust is controlled within the facility by a misting system. Liquid generated by the misting operations is collected in a sump. The site is surrounded by vegetation and fencing keeping much windblown material in the facility. SWMD staff that drive transfer trailers are responsible for cleaning their vehicles and properly disposing of associated debris trash prior to leaving the facility.

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Section 4: Schedules and Procedures

4.1 Schedules and Procedures Pertaining to Control Measures

Schedules and procedures pertaining to control measures are discussed in Section 3 Stormwater Control Measures. Detailed procedures are provided in the form of BMPs included in **Appendix E**.

4.2 Schedules and Procedures Pertaining to Inspections

During normal facility operating hours inspections of areas of the facility covered by the requirements in this permit are conducted, including, but not limited to, the following:

- Areas where industrial materials or activities are exposed to stormwater;
- Areas identified in the SWPPP and those that are potential pollutant sources (see Part 5.2.3 *MSGP 2015*);
- Additional Inspection requirements (see Part 8.P.5);
- Areas where spills and leaks have occurred in the past three years;
- Discharge points; and
- Control measures used to comply with the effluent limits contained in this permit.

During the inspection, the inspector will examine or look out for the following:

- Industrial materials, residue or trash that may have or could come into contact with stormwater;
- 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.

During an inspection occurring during a stormwater event or discharge, control measures implemented to comply with effluent limits must be observed to ensure they are functioning correctly. Discharge points must also be observed during this inspection. If such discharge locations are inaccessible, nearby downstream locations must be inspected.

Further procedures for routine facility inspections are provided in **Section 5.1** herein.

Schedule

Routine facility inspections will be conducted at least **once per annual quarter** during the entire permit term, or in some instances more frequently (e.g., monthly). At least once each calendar year, the inspection will be conducted during a period when stormwater discharge is occurring.

Persons Responsible for Inspections

Routine facility inspections will be conducted by qualified personnel. The inspections should be conducted by a PPT member or an appropriately trained staff member. A full list of ERCC's PPT members is included in **Appendix A**. Inspectors must consider the results of visual and analytical monitoring (if any) for the past year when planning and conducting inspections.

4.3 Schedules and Procedures Pertaining to Monitoring

4.3.1 Quarterly Visual Stormwater Assessment

Once per annual quarter during the entire permit term, a designee will conduct **quarterly visual stormwater assessments** at each designated stormwater drainage point. During quarters without a rainfall event resulting in discharge, the monitoring event will be rescheduled to occur during the predominately rainy season (July – September). During adverse weather conditions which may prevent collection of a sample (i.e. local flooding, high winds, electrical storms, or other dangerous situations), the monitoring event will be substituted with the next storm event. Refer to **Section 5.2** herein for a description of procedures for quarterly visual stormwater assessments.

4.3.2 State- or Tribal-Specific Monitoring

None required.

4.3.3 Benchmark Monitoring

Sector N facilities, in the MSGP, are exempt from benchmark monitoring if they only receive source-separate recyclable materials primarily from non-industrial and residential sources such as ERCC. Sector P has no benchmark monitoring requirements in the MSGP.

4.3.4 Impaired Waters Monitoring

Impaired waters monitoring is required upon written notice from the EPA as described in section 6.2.4 *Impaired Waters Monitoring Schedule* of the *MSGP 2015*. The ERCC will implement impaired waters monitoring if notified by the EPA.

4.3.5 Substantially Identical Outfall Exception

There is one identical outfall at the facility, ER01, shown on **Figure 2** of **Appendix C**. This outfall is substantially identical to outfall ER02 which is designated as the main outfall leading to the concrete lined channel. These outfalls are concrete designed outlets that convey runoff to the channel. The drainage areas for the outfalls are consistent with maintenance, mobile fueling, and equipment storage areas. Due to the substantially identical runoff received, outfalls ER01 and ER02 will be alternated for monitoring on a quarterly basis.

4.4 Schedules and Procedures Pertaining to Corrective Action

Conditions that may require corrective action include those that have an immediate threat to stormwater quality, including, but not limited to:

1. Spill or leak
2. Un-allowed non-stormwater discharge

3. Discharge of washwater
4. Damaged control measure
5. Stormwater contact with industrial materials
6. Pollutants entering the drainage system
7. Evidence of pollution during stormwater visual assessment

When an inspection, monitoring event, or other site observation reveals a condition that may result in stormwater pollution, the following corrective action schedule must be implemented:

1. Immediate Actions – Within 24 Hours

- a. Minimize or prevent the discharge of pollutants until a permanent solution is implemented.
- b. Cleanup any contaminated surfaces so that material will not discharge in subsequent storm events.
- c. Document the conditions observed. Documentation should include:
 - 1) Condition triggering the corrective action
 - a) For spills include material, volume, reason causing the release
 - 2) Date/time
 - 3) Location
 - 4) Description of immediate actions taken
 - a) For spills include response actions, date/time cleanup completed, notifications made, and staff involved.
 - 5) Signature of an individual with signatory authority.

2. Subsequent Actions – Within 14 Days

- a. Install or modify a control measure to prevent continued or reoccurring discharge.
- b. Notify the Environmental Compliance Coordinator in writing of what actions were taken (ddaugherty@cabq.gov).
- c. Place written documentation in the corrective action section of the operating SWPPP (**Appendix K**). Documentation should include:
 - 1) Description of corrective actions taken with beginning and end dates.
 - 2) If applicable, document why it is not feasible to have corrective action installation within 14 days and the schedule for completing the controls and making them operational.

4.5 Schedules and Procedures Pertaining to Annual Reporting

The *MSGP 2015* requires an annual report be submitted through the NPDES eReporting Tool (NeT) by January 30th of each year of permit coverage containing information generated from the past calendar year.

Appendix L includes an example annual report form. This report form is included in this SWPPP for reference only; the actual annual report must be submitted through EPA's NeT system which is accessed through the EPA's central Data Exchange website at <https://cdx.epa.gov/>.

Annual reports shall include a summary of the previous year's routine facility inspections, visual quarterly stormwater monitoring and any other required stormwater monitoring, corrective action and documentation.

Section 5: Inspections

Inspections, conducted at the ERCC, are documented on standardized inspection forms. Forms will be updated to reflect the current conditions at each facility as required. All completed inspection forms and associated reports will be attached to this SWPPP in the Reports Section (**Appendix L**). Two types of inspections that are conducted at the facility include Routine Facility Inspections and Quarterly Visual Assessment Inspections of Stormwater Discharges.

5.1 Routine Facility Inspections

Routine facility inspections must document the findings of your facility inspections and maintain this report (**Appendix L**). The inspection findings must be summarized in the annual report per Part 7.5. Document all findings, including but not limited to, the following documentation:

- 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 from and/or pollutants at the site;
 - Any evidence of, or the potential for, pollutants entering the drainage system;
 - Observations regarding the physical condition of and around all drainage points, 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;
- Any incidents of noncompliance; and
- A signed and certified statement.

Specific areas of the facility to be inspected include:

- Mobile fueling areas;
- Maintenance areas;
- Metal handling, storage, and disposal areas;
- HHW storage area;
- Outdoor materials handling and storage areas; and
- Areas where spills and leaks have occurred in the past three years

Include quarterly discharge visual assessments performed during your facility inspection results of the assessment with the report required in *MSGP 2015* Part 3.1.2, as long as all components of both types of inspections are included in the report.

5.2 Quarterly Visual Assessment of Stormwater Discharges

Once per annual quarter for the entire permit term a stormwater sample must be collected from each drainage point (except as noted below) and conduct a visual assessment of each of these samples. These samples are not required to be collected consistent with 40 CFR Part 136 procedures but must be collected in such a manner that the samples are representative of the stormwater discharge. Guidance on monitoring is available at <http://water.epa.gov/polwaste/npdes/stormwater/EPA-Multi-Sector-General-Permit-MSGP.cfm>.

EXCEPTIONS: *For climates with irregular stormwater runoff, facilities located in an area where limited rainfall occurs during many parts of the year (e.g., arid or semi-arid climate), samples for the quarterly visual assessments may be distributed during seasons when precipitation runoff occurs.*

The visual assessment must be made:

- Of a sample in a clean, colorless 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 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 you must document why it was not possible to take the sample within the first 30 minutes. In the case of snowmelt, samples must be taken during a period with a measurable discharge from your site; and
- For storm events, on discharges that occur at least 72 hours (three days) from the previous discharge. The 72-hour (three-day) storm interval does not apply if you document that less than a 72-hour (three-day) interval is representative for local storm events during the sampling period.

You must visually inspect or observe the sample for the following water quality characteristics:

- Color
- Odor
- Clarity (diminished)
- Floating solids
- Settled solids
- Suspended solids
- Foam
- Oil sheen
- Other obvious indicators of stormwater pollution

Whenever the visual assessment shows evidence of stormwater pollution, initiate the corrective action procedures found in Section 4.

Documentation

Document the results of the visual assessments and maintain this documentation (**Appendix L**). The visual assessment findings must be included in the annual report per *MSGP 2015* Part 7.5. The documentation of the visual assessment must include, but not be limited to:

- 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 stormwater discharge;
- Probable sources of any observed stormwater contamination; and
- If applicable, why it was not possible to take samples within the first 30 minutes.

Whenever the visual assessment shows evidence of stormwater pollution, initiate the corrective action procedures found in Section 4.

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Section 6: Documentation to Support Eligibility Considerations under Other Federal Laws

6.1 Documentation Regarding Endangered Species.

In accordance with the requirements of *MSGP 2015*, an eligibility screening was performed with regards to endangered species. The eligibility screening followed the procedures outlined in Appendix E of the *MSGP 2015*. **Appendix G** of this SWPPP contains a memorandum describing the eligibility screening process and findings. The ERCC was found to be eligible for coverage under the *MSGP 2015* with respect to endangered species under Criterion C.

6.2 Documentation Regarding Historic Properties

In accordance with the requirements of *MSGP 2015*, an eligibility screening was performed with regards to historic properties. The eligibility screening followed the procedures outlined in Appendix F of the *MSGP 2015*. **Appendix H** of this SWPPP contains a memorandum describing the eligibility screening process and findings. The ERCC was found to be eligible for coverage under the *MSGP 2015* with respect to historic properties under Criterion A.

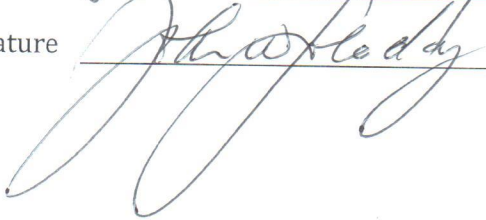
6.3 Documentation Regarding NEPA Review (if applicable)

The ERCC is not subject to any New Source Performance Standards (NSPS) as described in Section 1.1.2.5 of *MSGP 2015*; therefore, NEPA process review is not required.

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Section 7: SWPPP Certification

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 gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained 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 JOHN SOLADAY Title DIRECTOR
Signature  Date 1/30/2017

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Section 8: SWPPP Modifications

Date	Section of SWPPP Revised	Authorization of the Modification
		Name: Signature:
		Name: Signature:
		Name: Signature:
		Name: Signature:
		Name: Signature:
		Name: Signature:
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SWPPP Appendices

Attach the following documentation to the SWPPP:

Appendix A Pollution Prevention Team Members

Appendix B Multi-Sector General Permit 2015

Appendix C Figures

Figure 1 ERCC General Location Map

Figure 2 ERCC Site, Drainage, and Activities Plan

Appendix D Evaluation of Non-Stormwater Discharges

Appendix E Best Management Practices and Spill Response Plans

Appendix F Training Records

Appendix G Endangered and Threatened Species Screening Memorandum

Appendix H Historic Properties Preservation Screening Memorandum

Appendix I Copy of the Notice of Intent and Acknowledgement Letter

Appendix J Documentation of Maintenance to Control Measures

Appendix K Documentation of Corrective Action Taken

Appendix L Reports

L1 – Quarterly Routine Facility Inspections

L2 – Quarterly Visual Stormwater Assessment

L3 – EPA Industrial Stormwater Sampling Guidance

L4 – Annual Report Example

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**APPENDIX A
POLLUTION PREVENTION TEAM MEMBERS**

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Appendix A
City of Albuquerque - Solid Waste Management Department
Eagle Rock Convenience Center
Pollution Prevention Team Members

Facility Name	Contact	Responsibility	Address	Phone	City	State	Zip	E-mail
Eagle Rock Convenience Center	Jake Daugherty, Environmental Compliance Coordinator	PPT Leader (Primary Contact)	6301 Eagle Rock Avenue NE	(505) 761-8324	Albuquerque	NM	87113	ddaugherty@cabq.gov
Eagle Rock Convenience Center	Steve Johnston, Environmental Compliance Coordinator	PPT Leader (Secondary Contact)	6301 Eagle Rock Avenue NE	(505) 761-8328	Albuquerque	NM	87113	sjohnston@cabq.gov

**APPENDIX B
MULTI-SECTOR GENERAL PERMIT 2015**

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**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (EPA)
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
MULTI-SECTOR GENERAL PERMIT FOR STORMWATER DISCHARGES
ASSOCIATED WITH INDUSTRIAL ACTIVITY (MSGP)**

In compliance with the provisions of the Clean Water Act (CWA), as amended (33 U.S.C. 1251 *et seq.*), operators of stormwater discharges associated with industrial activity located in an area identified in Appendix C where EPA is the permitting authority are authorized to discharge to waters of the United States in accordance with the eligibility and Notice of Intent (NOI) requirements, effluent limitations, inspection requirements, and other conditions set forth in this permit. This permit is structured as follows:

- General requirements that apply to all facilities are found in Parts 1 through 7;
- Industry sector-specific requirements are found in Part 8; and
- Specific requirements that apply in individual states and Indian country are found in Part 9.

The Appendices (A through P) contain additional permit conditions that apply to all operators covered under this permit.

This permit becomes effective on June 4, 2015. For areas in the State of Washington (except for Indian country) subject to industrial activity by a Federal Operator, this permit becomes effective on July 21, 2015. For the State of Idaho (except for Indian country), and for industrial activities on Spokane Tribe of Indians lands, this permit becomes effective August 12, 2015.

This permit and the authorization to discharge shall expire at midnight, June 4, 2020.

Signed and issued this 4th day of June, 2015

Deborah Szaro
Acting Regional Administrator, EPA Region 1

Signed and issued this 4th day of June, 2015

Karen Flournoy
Director, Water, Wetlands, and Pesticides Division, EPA
Region 7

Signed and issued this 4th day of June, 2015

José C. Font
Director, Caribbean Environmental Protection Division,
EPA Region 2

Signed and issued this 4th day of June, 2015

Darcy O'Connor
Acting Assistant Regional Administrator, EPA Region 8

Signed and issued this 4th day of June, 2015

Jon. M Capacasa
Water Protection Division, EPA Region 3

Signed and issued this 4th day of June, 2015

Nancy Woo
Acting Director, Water Division, EPA Region 9

Signed and issued this 4th day of June, 2015

Tinka G. Hyde
Director, Water Division, EPA Region 5

Signed and issued this 4th day of June, 21st day of July,
and 12th day of August, 2015

Daniel D. Opalski
Director, Office of Water and Watersheds, EPA Region 10

Signed and issued this 4th day of June, 2015

William K. Honker
Director, Water Quality Protection Division, EPA Region 6

**NPDES MULTI-SECTOR GENERAL PERMIT FOR STORMWATER
DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY**

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1. Coverage Under this Permit.**1.1 Eligibility.****1.1.1 Facilities Covered.**

To be eligible to discharge under this permit, you must (1) have an allowable stormwater discharge or an allowable non-stormwater discharge associated with industrial activity from your primary industrial activity, as defined in Appendix A, provided your primary industrial activity is included in Appendix D, or (2) be notified by EPA that you are eligible for coverage under Sector AD of this permit. Your facility must also be located in an area where EPA is the permitting authority (see Appendix C).

1.1.2 Allowable Stormwater Discharges.

Unless otherwise made ineligible under Part 1.1.4, the following discharges are eligible for coverage under this permit:

1.1.2.1 Stormwater discharges associated with industrial activity for any primary industrial activities and co-located industrial activities, as defined in Appendix A, except for any stormwater discharges specifically prohibited in Part 8;

1.1.2.2 Discharges designated by EPA as needing a stormwater permit as provided in Sector AD;

1.1.2.3 Discharges that are not otherwise required to obtain NPDES permit authorization but are mixed with discharges that are authorized under this permit; and

1.1.2.4 Stormwater discharges from facilities subject to any of the national stormwater-specific effluent limitations guidelines listed in Table 1-1.

Table 1-1. Stormwater-Specific Effluent Limitations Guidelines

Regulated Discharge	40 CFR Section	MSGP Sector	New Source Performance Standard (NSPS)	New Source Date
Discharges resulting from spray down or intentional wetting of logs at wet deck storage areas	Part 429, Subpart I	A	Yes	1/26/81
Runoff from phosphate fertilizer manufacturing facilities that comes into contact with any raw materials, finished product, by-products or waste products (SIC 2874)	Part 418, Subpart A	C	Yes	4/8/74
Runoff from asphalt emulsion facilities	Part 443, Subpart A	D	Yes	7/28/75
Runoff from material storage piles at cement manufacturing facilities	Part 411, Subpart C	E	Yes	2/20/74
Mine dewatering discharges at crushed stone, construction sand and gravel, or industrial sand mining facilities	Part 436, Subparts B, C, and D	J	No	N/A
Runoff from hazardous waste and non-hazardous waste landfills	Part 445, Subparts A and B	K, L	Yes	2/2/00
Runoff from coal storage piles at steam electric generating facilities	Part 423	O	Yes	11/19/82 (10/8/74) ¹

¹ NSPS promulgated in 1974 were not removed via the 1982 regulation; therefore wastewaters generated by Part 423-applicable sources that were New Sources under the 1974 regulations are subject to the 1974 NSPS.

Regulated Discharge	40 CFR Section	MSGP Sector	New Source Performance Standard (NSPS)	New Source Date
Runoff containing urea from airfield pavement deicing at existing and new primary airports with 1,000 or more annual non-propeller aircraft departures	Part 449	S	Yes	6/15/12

1.1.3 Allowable Non-Stormwater Discharges.

Below in Part 1.1.3.1 are the only non-stormwater discharges authorized under this permit for all sectors provided that all discharges comply with the effluent limits set forth in Parts 2 and 8. In addition to the authorized non-stormwater discharges in Part 1.1.3.1 applicable to all sectors, for Sector A, there is an additional non-stormwater discharge in Part 1.1.3.2 below, and for the mining sectors (Sectors G, H, and J), there are additional authorized non-stormwater discharges in Part 1.1.3.3 below. The additional allowable non-stormwater discharges for Sectors G, H, and J apply only to discharges from earth-disturbing activities conducted prior to active mining activities as defined in Part 8.G.3.2, 8.H.3.2, and 8.J.3.2 provided that, with the exception of water used to control dust and to irrigate areas to be vegetatively stabilized, these discharges are not routed to areas of exposed soil and all discharges comply with the permit's effluent limits.

Also allowed for all sectors are discharges of stormwater listed above in Parts 1.1.2 or authorized non-stormwater discharges in Part 1.1.3, mixed with a discharge authorized by a different NPDES permit and/or a discharge that does not require NPDES permit authorization. All other non-stormwater discharges requiring NPDES permit coverage except those specifically listed in Part 1.1.3 are not authorized by this permit. If non-stormwater discharges requiring NPDES permit coverage other than those specifically authorized in Part 1.1.3, including sector-specific non-stormwater discharges that are listed in Part 8 as prohibited (a non-exclusive list provided to raise awareness of contaminants or sources of contaminants characteristic of certain sectors), will be discharged, such non-stormwater discharges are not authorized by this permit and must either be eliminated or covered under another NPDES permit.

1.1.3.1 Allowable Non-Stormwater Discharges for all Sectors of Industrial Activity:

- Discharges from emergency/unplanned fire-fighting activities;
- Fire hydrant flushings;
- Potable water, including water line flushings;
- Uncontaminated condensate from air conditioners, coolers/chillers, and other compressors and from the outside storage of refrigerated gases or liquids;
- Irrigation drainage;
- Landscape watering provided all pesticides, herbicides, and fertilizers have been applied in accordance with the approved labeling;
- Pavement wash waters where no detergents or hazardous cleaning products are used (e.g., bleach, hydrofluoric acid, muriatic acid, sodium hydroxide, nonylphenols), and the wash waters do not come into contact with oil and grease deposits, sources of pollutants associated with industrial activities (see Part 5.2.3), or any other toxic or hazardous materials, unless residues are first cleaned up using dry clean-up methods (e.g., applying absorbent materials and sweeping, using hydrophobic mops/rags) and you have implemented

appropriate control measures to minimize discharges of mobilized solids and other pollutants (e.g., filtration, detention; settlement);

- Routine external building washdown / power wash water that does not use detergents or hazardous cleaning products (e.g., those containing bleach, hydrofluoric acid, muriatic acid, sodium hydroxide, nonylphenols);
- Uncontaminated ground water or spring water;
- Foundation or footing drains where flows are not contaminated with process materials; and
- Incidental windblown mist from cooling towers that collects on rooftops or adjacent portions of your facility, but not intentional discharges from the cooling tower (e.g., "piped" cooling tower blowdown; drains).

1.1.3.2 Additional Allowable Non-Stormwater Discharge for Sector A: 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 provided the non-stormwater component of the discharge is in compliance with the non-numeric effluent limits requirements in Part 2.1.2).

1.1.3.3 Additional Allowable Non-Stormwater Discharges for Earth-Disturbing Activities Conducted Prior to Active Mining Activities for Sectors G, H and J:

- Water used to wash vehicles and equipment, provided that there is no discharge of soaps, solvents, or detergents used for such purposes;
- Water used to control dust; and
- Dewatering water that has been treated by an appropriate control under Parts 8.G.4.2.9, 8.H.4.2.9, or 8.J.4.2.9.

Note: These non-stormwater discharges are only authorized for earth-disturbing activities conducted prior to active mining activities, as defined in Part 8.G.3.2, 8.H.3.2, and 8.J.3.2. Once the earth-disturbing activities conducted prior to active mining activities have ceased, the only allowable non-stormwater discharges for Sectors G, H, and J are those listed in Part 1.1.3.1.

1.1.4 Limitations on Coverage.

Any discharges not expressly authorized in this permit cannot become authorized or shielded from liability under Clean Water Act (CWA) section 402(k) by disclosure to EPA, state, or local authorities after issuance of this permit via any means, including the Notice of Intent (NOI) to be covered by the permit, the Stormwater Pollution Prevention Plan (SWPPP), or during an inspection.

1.1.4.1 For Discharges Mixed with Non-Stormwater. Stormwater discharges that are mixed with non-stormwater discharges, other than those mixed with allowable non-stormwater discharges listed in Part 1.1.3 and/or those mixed with a discharge authorized by a different NPDES permit and/or a discharge that does not require NPDES authorization, are not eligible for coverage under this permit.

1.1.4.2 For Stormwater Discharges Associated with Construction Activity. Stormwater discharges associated with construction activity disturbing one acre or more, or that are part of a larger common plan of development or sale if the larger common plan will ultimately disturb one acre or more, are not eligible for coverage

under this permit, unless in conjunction with mining activities or certain oil and gas extraction activities as specified in Sectors G, H, I, and J of this permit.

1.1.4.3 *For Discharges Currently or Previously Covered by Another Permit.* Unless you have received written notification from EPA specifically allowing these discharges to be covered under this permit, you are not eligible for coverage under this permit for any of the following:

- Stormwater discharges associated with industrial activity that are currently covered under an individual NPDES permit or an alternative NPDES general permit;
- Discharges covered within five years prior to the effective date of this permit by an individual permit or alternative general permit where that permit established site-specific numeric water quality-based limitations developed for the stormwater component of the discharge; or
- Discharges from facilities where any NPDES permit has been or is in the process of being denied, terminated, or revoked by EPA (this does not apply to the routine reissuance of permits every five years).

1.1.4.4 *For Stormwater Discharges Subject to Effluent Limitations Guidelines.* For discharges from facilities subject to stormwater effluent limitation guidelines under 40 CFR, Subchapter N, only those stormwater discharges identified in Table 1-1 are eligible for coverage under this permit.

1.1.4.5 *Endangered and Threatened Species and Critical Habitat Protection.* Coverage under this permit is available only if your stormwater discharges, allowable non-stormwater discharges, and stormwater discharge-related activities were the subject of an Endangered Species Act (ESA) consultation or an ESA section 10 permit, or if your stormwater discharges, allowable non-stormwater discharges, and stormwater discharge-related activities are not likely to adversely affect any species that are federally listed as endangered or threatened ("listed") and are not likely to adversely affect habitat that is designated as "critical habitat" under the ESA. You must meet one of the criteria below, following the procedures in Appendix E:

Criterion A. No federally listed threatened or endangered species or their designated critical habitat(s) are likely to occur in the "action area" as defined in Appendix A. To certify your eligibility under this criterion, you must use the *Criterion Selection Worksheet* in Part E.4 of Appendix E. You must also provide a description of the basis for the criterion you selected on your NOI form and provide documentation supporting your eligibility determination in your SWPPP.

Criterion B. Your industrial activity's discharges and discharge-related activities were already addressed in another operator's valid certification of eligibility for your action area under this permit, and there is no reason to believe that federally listed species or designated critical habitat not considered in the prior certification may be present or located in the "action area" (e.g., due to a new species listing or critical habitat designation). To certify your eligibility under this criterion, you must use the *Criterion Selection Worksheet* in Part E.4 of Appendix E. There must be no lapse of NPDES permit coverage in the other operator's certification. You must also comply with any additional measures that formed the basis of the other operator's valid certification of eligibility to ensure that your discharges and discharge-related

activities are protective of listed species and/or critical habitat. You must include in your NOI the NPDES ID (i.e., permit tracking number) assigned to the other operator's authorization under this permit, and a description of the basis for the criterion selected on your NOI form, including the eligibility criterion selected by the other operator's certification. You must also provide any documentation in your SWPPP that supports the other operator's eligibility determination, including any additional measures that formed the basis of the other operator's eligibility determination.

Criterion C. Federally listed threatened or endangered species or their designated critical habitat(s) are likely to occur in or near your facility's "action area," and your industrial activity's discharges and discharge-related activities are not likely to adversely affect listed threatened or endangered species or critical habitat. To certify your eligibility under this criterion, you must use the *Criterion Selection Worksheet* in Part E.4 of Appendix E, including completion of the *Criterion C Eligibility Form*, which you must submit to EPA at least 30 days prior to filing your NOI for permit coverage. After evaluation of your *Criterion C Eligibility Form*, EPA may require additional measures that you must implement to avoid or eliminate likely adverse effects on listed species and critical habitat from discharges and discharge-related activities. You may submit your NOI for permit coverage 30 days after submitting to EPA your completed *Criterion C worksheet*. You must also provide a description of the basis for the criterion you selected on your NOI form and provide documentation supporting your eligibility determination in your SWPPP.

Criterion D. Consultation between a Federal Agency and the U.S. Fish and Wildlife Service and/or the National Marine Fisheries Service under section 7 of the ESA has been concluded. Consultations can be either formal or informal, and would have occurred only as a result of a separate federal action (e.g., during application for an individual wastewater discharge permit or the issuance of a wetlands dredge and fill permit), and consultation must have addressed the effects of the industrial activity's discharges and discharge-related activities on federally listed threatened or endangered species and designated critical habitat. The result of this consultation must be one of the following:

- i. A biological opinion that concludes that the action in question (taking into account the effects of your facility's discharges and discharge-related activities) is not likely to jeopardize the continued existence of listed species, or result in the destruction or adverse modification of critical habitat;
- ii. A biological opinion that concludes that the action is likely to jeopardize listed species or to result in the destruction or adverse modification of critical habitat, and any recommended reasonable and prudent alternatives or reasonable and prudent measures are being implemented; or
- iii. Written concurrence from the applicable Service(s) with a finding that the facility's discharges and discharge-related activities are not likely to adversely affect listed species or critical habitat.

To certify your eligibility under this criterion, you must use the *Criterion Selection Worksheet* in Part E.4 of Appendix E. You must verify that the consultation does not warrant reinitiation under 50 CFR §402.16. If reinitiation of consultation is required, in order to be eligible under this Criterion you must ensure consultation is reinitiated and the result of the consultation must be consistent with (i), (ii), or (iii) above.

If eligible, you must also provide supporting documentation for your determination in your NOI and SWPPP, including the Biological Opinion (or PCTS tracking number) or concurrence letter.

Criterion E. Your industrial activities are the subject of a permit under section 10 of the ESA, and this authorization addresses the effects of your facility's discharges and discharge-related activities on federally listed species and designated critical habitat. To certify your eligibility under this criterion, you must use the *Criterion Selection Worksheet*. You must also provide supporting documentation for your determination in your NOI and SWPPP, including a copy of the permit from the Services.

You must comply with any measures that formed the basis of your eligibility determination in Part 1.1.4.5 to be in compliance with the permit. These measures become permit requirements per Part 2.3. Documentation of these measures must be kept as part of your SWPPP (see Part 5.2.6.1).

1.1.4.6 *Historic Properties Preservation.* Coverage under this permit is available only if your stormwater discharges, allowable non-stormwater discharges, and stormwater discharge-related activities meet one of the eligibility criteria below, following the procedures in Appendix F:

Criterion A. Your stormwater discharges and allowable non-stormwater discharges do not have the potential to have an effect on historic properties and you are not constructing or installing new stormwater control measures on your site that cause subsurface disturbance; or

Criterion B. Your discharge-related activities (i.e., construction and/or installation of stormwater control measures that involve subsurface disturbance) will not affect historic properties; or

Criterion C. Your stormwater discharges, allowable non-stormwater discharges, and discharge-related activities have the potential to have an effect on historic properties, and you have consulted with the State Historic Preservation Officer (SHPO), Tribal Historic Preservation Officer (THPO), or other tribal representative regarding measures to mitigate or prevent any adverse effects on historic properties, and you have either (1) obtained and are in compliance with a written agreement that outlines all such measures, or (2) been unable to reach agreement on such measures; or

Criterion D. You have contacted the SHPO, THPO, or other tribal representative and EPA in writing informing them that you have the potential to have an effect on historic properties and you did not receive a response from the SHPO, THPO, or tribal representative within 30 days of receiving your letter.

If you have been unable to reach agreement with a SHPO, THPO, or other tribal representative regarding appropriate measures to mitigate or prevent adverse effects, EPA may notify you of additional measures you must implement to be eligible for coverage under this permit.

1.1.4.7 *Eligibility for New Dischargers and New Sources: Based on Water Quality Standards.* If you are a new discharger or a new source (as defined in Appendix A), you are ineligible for coverage under this permit if EPA determines prior to your authorization to discharge that your discharges will not meet an applicable water

quality standard (i.e., your discharges will cause or contribute to an exceedance of a water quality standard). In such case, EPA may notify you that an individual permit application is necessary per Part 1.2.3, or, alternatively, EPA may authorize your coverage under this permit after you implement additional control measures so that your discharges will meet water quality standards.

1.1.4.8 Eligibility for New Dischargers and New Sources to Water-Quality Impaired Waters. If you are a new discharger or a new source (as defined in Appendix A), you are ineligible for coverage under this permit to discharge to an "impaired water" (as defined in Appendix A) unless you do one of the following:

- a. Prevent all exposure to stormwater of the pollutant(s) for which the waterbody is impaired, and retain documentation of procedures taken to prevent exposure onsite with your SWPPP;
- b. Prior to submitting your NOI, provide to the appropriate EPA Regional Office technical information or other documentation to support your claim that the pollutant(s) for which the waterbody is impaired is not present at your site, and retain such documentation with your SWPPP; or
- c. Prior to submitting your NOI, provide information to the appropriate EPA Regional Office, either data or other technical documentation, to support a conclusion that the discharge is expected to meet applicable water quality standards (i.e., that pollutants of concern will not be discharged at levels that will cause or contribute to an exceedance of a water quality standard), and retain such information with your SWPPP. The information to be submitted must be sufficient to demonstrate:
 - i. For discharges to waters without an EPA-approved or established total maximum daily load (TMDL), that the discharge of the pollutant for which the water is impaired will meet water quality standards at the point of discharge to the waterbody; or
 - ii. For discharges to waters with an applicable EPA-approved or established TMDL, that there are, in accordance with 40 CFR 122.4(i), sufficient remaining wasteload allocations in the TMDL to allow your discharge and that existing dischargers to the waterbody are subject to compliance schedules designed to bring the waterbody into attainment with water quality standards (e.g., a reserve allocation for future growth).

You are eligible under Part 1.1.4.8.c if you receive a determination from the EPA Regional Office that your discharge will meet applicable water quality standards (i.e., will not cause or contribute to an exceedance of a water quality standard), and you document the Region's determination in your SWPPP. If the EPA Regional Office fails to respond to you within 30 days after submission of data, you are considered to be eligible for coverage.

Note: For the purposes of this permit, your project is considered to discharge to an impaired water if the first water of the U.S. to which you discharge is identified by a state, tribe, or EPA as not meeting an applicable water quality standard, and:

- *Requires development of a TMDL (pursuant to section 303(d) of the CWA);*
- *Is addressed by an EPA-approved or established TMDL; or*

- *Is not in either of the above categories but the waterbody is covered by pollution control requirements that meet the requirements of 40 CFR 130.7(b)(1).*

For discharges that enter a separate storm sewer system² prior to discharge, the first water of the U.S. to which you discharge is the waterbody that receives the stormwater discharge from the storm sewer system.

1.1.4.9 Eligibility for New Dischargers and New Sources to Waters with High Water Quality.

For new dischargers and new sources to Tier 2 or Tier 2.5 waters:

If you are a new discharger or a new source (as defined in Appendix A), you are eligible to discharge to a Tier 2 or Tier 2.5 water only if your discharge will not lower the water quality of the applicable water. See a list of Tier 2 and Tier 2.5 waters in Appendix L.

For new dischargers and new sources to Tier 3 waters:

If you are a new discharger or a new source (as defined in Appendix A), you are not eligible for coverage under this permit for discharges to waters designated by a state or tribe as Tier 3 (outstanding national resource waters) for antidegradation purposes under 40 CFR 131.13(a)(3). Instead, you must submit an application for an individual permit. See a list of Tier 3 waters in Appendix L.

Note: For the purposes of this permit, your project is considered to discharge to a Tier 2, Tier 2.5, or Tier 3 water if the first water of the U.S. to which you discharge is identified by a state, tribe, or EPA as a Tier 2, Tier 2.5, or Tier 3 water. For discharges that enter a separate storm sewer system² prior to discharge, the first water of the U.S. to which you discharge is the waterbody that receives the stormwater discharge from the storm sewer system.

- 1.1.4.10 For Discharges to a Federal CERCLA Site.** If you discharge to a federal CERCLA Site listed in Appendix P, you are ineligible for coverage under this permit, unless you notify the EPA Regional Office in advance and the EPA Regional Office determines that you are eligible for permit coverage. In determining eligibility for coverage under this Part, the EPA Regional Office may evaluate whether you are implementing or plan to implement adequate controls and/or procedures to ensure that your discharge will not lead to recontamination of aquatic media at the CERCLA Site such that your discharge will cause or contribute to an exceedance of a water quality standard. If it is determined that your facility discharges to a CERCLA Site listed in Appendix P after you have obtained coverage under this permit, you must contact the EPA Regional Office and ensure that you either have implemented or will implement adequate controls and/or procedures to ensure that your discharges will not lead to recontamination of aquatic media at the CERCLA Site such that it will to cause or contribute to an exceedance of a water quality standard.

For the purposes of this permit, a permittee discharges to a federal CERCLA Site if the discharge flows directly into the site through its own conveyance, or a through

² Separate storm systems do not include combined sewer systems or sanitary sewer systems. Separate storm systems include both municipal storm sewer systems (MS4s) and non-municipal separate storm sewers.

a conveyance owned by others, such as a municipal separate storm sewer system (MS4).

1.2 Authorization Under this Permit.

1.2.1 How to Obtain Authorization.

To obtain authorization under this permit, you must:

- Be an operator of a primary industrial activity in a sector covered by this permit (see Appendix D);
- Be located in a state, territory, or Indian country, or be a federal operator identified in Appendix C where EPA is the permitting authority;
- Meet the Part 1.1 eligibility requirements;
- Select, design, install, and implement control measures in accordance with Part 2.1 and Part 8 to meet numeric and non-numeric effluent limits;
- Develop a SWPPP per Part 5 of this permit or update your existing SWPPP consistent with Part 5 prior to submitting your NOI for coverage under this permit; and
- Submit a complete and accurate NOI in accordance with this Part.

1.2.1.1 *Submitting Your NOI.* To be covered under this permit, you must submit to EPA a complete and accurate NOI by the deadline applicable to your facility presented in Table 1-2. The NOI certifies to EPA that you are eligible for coverage according to Part 1.1, and provides information on your industrial activities and related discharges.

You must complete the development of a SWPPP or update your existing SWPPP consistent with Part 5 prior to submitting your NOI for coverage under this permit. If you choose to post your SWPPP on the Internet per Part 5.4.1, you must include the URL on your NOI form and this URL must directly link to the SWPPP (not just the corporate or facility homepage). If you do not post your SWPPP online, you must enter additional facility information from your SWPPP, per Part 5.4.2.

1.2.1.2 *How to Submit Your NOI.* You must submit your NOI electronically per Part 7.1, unless you have received a waiver from electronic reporting per Part 7.1, in which case you may use the paper NOI form in Appendix G.

1.2.1.3 *Deadlines for Submitting Your NOI and Your Official Date of Permit Coverage.* Table 1-2 provides the deadlines for submitting your NOI and your official start date of permit coverage.

Table 1-2. NOI Submittal Deadlines and Discharge Authorization Dates

Category	NOI Submission Deadline	Discharge Authorization Date ^{1, 2}
Operators of industrial activities that were authorized for coverage under the 2008 MSGP.	No later than September 2, 2015 unless EPA notifies you that your deadline is extended. ³	30 days after EPA notifies you that it has received a complete NOI, unless EPA notifies you that your authorization has been denied or delayed. <i>Note: You must review and update your SWPPP to ensure that this permit's requirements are addressed prior to submitting your NOI.</i> Provided you submit your NOI in accordance with the deadline, your authorization under the 2008 MSGP is automatically continued until you have been granted coverage under this permit or an alternative permit, or coverage is otherwise terminated.
Operators of industrial activities that commenced discharging between September 30, 2013 and September 2, 2015 and have been operating consistent with EPA's no action assurance for the NPDES Stormwater Multi-Sector General Permit for Industrial Activities.	As soon as possible, but no later than September 2, 2015, unless EPA notifies you that your deadline is extended. ⁴	30 days after EPA notifies you that it has received a complete NOI, unless EPA notifies you that your authorization has been denied or delayed.
Operators of industrial activities that commence discharging after September 2, 2015, or operators seeking coverage for discharges previously covered under an individual permit or an alternative general permit.	A minimum of 30 days prior to commencing discharge in accordance with the terms of the 2015 MSGP. ⁵	30 days after EPA notifies you that it has received a complete NOI, unless EPA notifies you that your authorization has been denied or delayed.
New operators of existing industrial activities with discharges previously authorized under the 2015 MSGP.	A minimum of 30 days prior to the date of transfer of control to the new operator.	30 days after EPA notifies you that it has received a complete NOI, unless EPA notifies you that your authorization has been denied or delayed.
Other eligible operators – Operators of industrial activities that commenced discharging prior to September 2, 2015, but not covered under the 2008 MSGP or another NPDES permit and not operating consistent with EPA's no action assurance for the NPDES Stormwater Multi-Sector General Permit for Industrial Activities.	Immediately, to minimize the time discharges from the facility will continue to be unauthorized.	30 days after EPA notifies you that it has received a complete NOI, unless EPA notifies you that your authorization has been denied or delayed.

¹ If you have missed the deadline to submit your NOI, any and all discharges from your industrial activities will continue to be unauthorized under the CWA until they are covered by this or a different NPDES permit. EPA may take enforcement action for any unpermitted discharges that occur between the commencement of discharging and discharge authorization.

² Discharges are not authorized if your NOI is incomplete or inaccurate or if you are ineligible for permit coverage.

³ For federal operators of industrial activities located in the State of Washington (except Indian country) that were authorized for coverage under the 2008 MSGP, you must submit your NOI no later than October 19, 2015, unless EPA notifies you that your deadline is extended. For operators of industrial activities located in the State of Idaho (except Indian country) or on Spokane Tribe of Indians lands that were authorized for coverage under the 2008 MSGP, you must submit your NOI no later than November 10, 2015, unless EPA notifies you that your deadline is extended.

⁴ For federal operators of industrial activities located in the State of Washington (except Indian country) that commence discharging between September 30, 2013 and October 19, 2015, you must submit your NOI as soon as possible, but no later than October 19, 2015, unless EPA notifies you that your deadline is extended. For operators of industrial activities located in the State of Idaho (except Indian country) or on Spokane Tribe of Indians lands that commence discharging between September 30, 2013 and November 10, 2015, you must submit your NOI as soon as possible, but no later than November 10, 2015, unless EPA notifies you that your deadline is extended.

⁵ For federal operators of industrial activities located in the State of Washington (except Indian country) that commence discharging after October 19, 2015, or operators seeking coverage for discharges previously covered under an individual permit or an alternative general permit, you must submit your NOI a minimum of 30 days prior to commencing discharge in accordance with the terms of the 2015 MSGP. For operators of industrial activities located in the State of Idaho (except Indian country) or on Spokane Tribe of Indians lands that commence discharging after November 10, 2015, or operators seeking coverage for discharges previously covered under an individual permit or an alternative general permit, you must submit your NOI a minimum of 30 days prior to commencing discharge in accordance with the terms of the 2015 MSGP.

1.2.2 Continuation of Coverage for Existing Permittees After the Permit Expires.

If this permit is not reissued or replaced prior to the expiration date, it will be administratively continued in accordance with the Administrative Procedure Act and 40 CFR 122.6 and remain in force and effect for discharges that were covered prior to expiration. If you obtain authorization to discharge under this permit prior to the expiration date and this permit is administratively continued, any discharges authorized under this permit will automatically remain covered by this permit after its expiration date until the earliest of:

- Your authorization for coverage under a reissued permit or a replacement version of this permit following your timely submittal of a complete and accurate NOI for coverage under the new permit; or

Note: If you fail to submit a timely NOI for coverage under the reissued or replacement permit, your coverage will terminate on the date that the NOI was due.

- Your submittal of a Notice of Termination (NOT); or
- Issuance of an individual permit for the facility's discharges; or
- A formal permit decision by EPA not to reissue this general permit, at which time EPA will identify a reasonable time period for covered dischargers to seek coverage under an alternative general permit or an individual permit. Coverage under this permit will cease at the end of this time period.

EPA reserves the right to modify or revoke and reissue this permit under 40 CFR 122.62 and 63, in which case you will be notified of any relevant changes or procedures to which you may be subject.

1.2.3 Coverage Under Alternative Permits.

EPA may require you to apply for and/or obtain authorization to discharge under an alternative permit, i.e., either an individual NPDES permit or an alternative NPDES general permit, in accordance with 40 CFR 122.64 and 124.5. If EPA requires you to apply for an alternative permit, the Agency will notify you in writing that a permit application or NOI is required. This notification will include a brief statement of the reasons for this decision and will contain alternative permit application or NOI requirements, including deadlines for completing your application or NOI.

1.2.3.1 Denial of Coverage for New or Previously Unpermitted Facilities. For new or previously unpermitted facilities, following the submittal of your NOI, you may be denied coverage under the 2015 MSGP and must apply for and/or obtain authorization to discharge under an alternative permit, per Part 1.2.3.

1.2.3.2 Loss of Authorization Under the 2015 MSGP for Existing Permitted Facilities. If your stormwater discharges are covered under this permit, you may receive a written notification that you must either apply for coverage under an individual NPDES permit or submit an NOI for coverage under an alternative general NPDES permit, per Part 1.2.3. In addition to the reasons for the decision and alternative permit application or NOI deadlines, the notice will include a statement that on the effective date of your alternative permit coverage, your coverage under the 2015 MSGP will terminate. EPA may grant additional time to submit the application or NOI if you request it. If you fail to submit an alternative permit application or NOI as required by EPA, then your authorization to discharge under the 2015 MSGP is terminated at the end of the day EPA required you to submit your alternative

permit application or NOI. EPA may take appropriate enforcement action for any unpermitted discharge.

1.2.3.3 Operator Requesting Coverage Under an Alternative Permit. You may request to be covered under an individual permit. In such a case, you must submit an individual permit application in accordance with the requirements of 40 CFR 122.28(b)(3)(iii), with reasons supporting the request, to the applicable EPA Regional Office listed in Part 7.9.1 of this permit. The request may be granted by issuance of an individual permit if your reasons are adequate to support the request. When you are authorized to discharge under an alternative permit, your authorization to discharge under the 2015 MSGP is terminated on the effective date of the alternative permit.

1.3 Terminating Coverage.

1.3.1 Submitting a Notice of Termination (NOT).

To terminate permit coverage, you must submit a complete and accurate NOT. Your authorization to discharge under this permit terminates at midnight of the day that you are notified that your complete NOT has been processed. If you submit a NOT without meeting one or more of the conditions identified in Part 1.3.3, then your NOT is not valid. You are responsible for meeting the terms of this permit until your authorization is terminated.

1.3.2 How to Submit Your NOT.

You must submit your NOT electronically per Part 7.2, unless you have received a waiver from electronic reporting per Part 7.1, in which case you may use the paper form in Appendix H.

1.3.3 When to Submit Your NOT.

You must submit a NOT within 30 days after one or more of the following conditions have been met:

- A new owner or operator has taken over responsibility for the facility; or
- You have ceased operations at the facility, there are not or no longer will be discharges of stormwater associated with industrial activity from the facility, and you have already implemented necessary sediment and erosion controls per Part 2.1.2.5; or
- You are a Sector G, H, or J facility and you have met the applicable termination requirements; or
- You obtained coverage under an individual or alternative general permit for all discharges required to be covered by an NPDES permit.

1.4 Conditional Exclusion for No Exposure.

If you are covered by this permit, and become eligible for a “no exposure” exclusion from permitting under 40 CFR 122.26(g), you may file a No Exposure Certification. You are no longer required to have a permit upon submission of a complete and accurate No Exposure Certification to EPA. If you are no longer required to have permit coverage because of a no exposure exclusion and have submitted a No Exposure Certification form to EPA, you are not required to submit a NOT. You must submit a No Exposure Certification form to EPA once every five years.

You must submit your No Exposure Certification electronically per Part 7.2, unless you have received a waiver from electronic reporting per Part 7.1, in which case you may use the paper form in Appendix K.

1.5 Permit Compliance.

Any noncompliance with any of the requirements of this permit constitutes a violation of this permit, and thus is a violation of the CWA. As detailed in Part 4 (Corrective Actions) of this permit, failure to take any required corrective actions constitutes an independent, additional violation of this permit, in addition to any original violation that triggered the need for corrective action. As such, any actions and time periods specified for remedying noncompliance do not absolve parties of the initial underlying noncompliance.

Where corrective action is triggered by an event that does not itself constitute permit noncompliance, such as an exceedance of an applicable benchmark, there is no permit violation provided you take the required corrective action within the relevant deadlines established in Part 4.3.

1.6 Severability.

Invalidation of a portion of this permit does not necessarily render the whole permit invalid. EPA's intent is that the permit is to remain in effect to the extent possible; in the event that any part of this permit is invalidated, EPA will advise the regulated community as to the effect of such invalidation.

2. Control Measures and Effluent Limits.

In the technology-based limits included in Parts 2.1 and 8, the term “minimize” means reduce and/or eliminate to the extent achievable using control measures (including best management practices) that are technologically available and economically practicable and achievable in light of best industry practice. The term “infeasible” means not technologically possible or not economically practicable and achievable in light of best industry practices. EPA notes that it does not intend for any permit requirement to conflict with state water rights law.

2.1 Control Measures.

You must select, design, install, and implement control measures (including best management practices) to minimize pollutant discharges that address the selection and design considerations in Part 2.1.1, meet the non-numeric effluent limits in Part 2.1.2, meet limits contained in applicable effluent limitations guidelines in Part 2.1.3, and meet the water quality-based effluent limitations in Part 2.2. The selection, design, installation, and implementation of these control measures must be in accordance with good engineering practices and manufacturer’s specifications. Note that you may deviate from such manufacturer’s specifications where you provide justification for such deviation and include documentation of your rationale in the part of your SWPPP that describes your control measures, consistent with Part 5.2.4. If you find that your control measures are not achieving their intended effect of minimizing pollutant discharges to meet applicable water quality standards or any of the other non-numeric effluent limits in this permit, you must modify these control measures per the corrective action requirements in Part 4. Regulated stormwater discharges from your facility include stormwater run-on that commingles with stormwater discharges associated with industrial activity at your facility.

Effluent limit requirements in Part 2.1.2 that do not involve the site-specific selection of a control measure or are specific activity requirements (e.g., “Cleaning catch basins when the depth of debris reaches two-thirds (2/3) of the sump depth and keeping the debris surface at least six inches below the lowest outlet pipe”) are marked with an asterisk (*). When documenting in your SWPPP, per Part 5, how you will comply with the requirements marked with an asterisk, you have the option of including additional information or you may just “cut-and-paste” those effluent limits verbatim into your SWPPP without providing additional documentation (see Part 5.2.4).

2.1.1 Control Measure Selection and Design Considerations.

You must consider the following when selecting and designing control measures:

- Preventing stormwater from coming into contact with polluting materials is generally more effective, and less costly, than trying to remove pollutants from stormwater;
- Using control measures in combination may be more effective than using control measures in isolation for minimizing pollutants in your stormwater discharge;
- Assessing the type and quantity of pollutants, including their potential to impact receiving water quality, is critical to designing effective control measures that will achieve the limits in this permit;
- Minimizing impervious areas at your facility and infiltrating runoff onsite (including bioretention cells, green roofs, and pervious pavement, among other approaches) can reduce runoff and improve ground water recharge and

stream base flows in local streams, although care must be taken to avoid ground water contamination;

- Attenuating flow using open vegetated swales and natural depressions can reduce in-stream impacts of erosive flows;
- Conserving and/or restoring riparian buffers will help protect streams from stormwater runoff and improve water quality; and
- Using treatment interceptors (e.g., swirl separators and sand filters) may be appropriate in some instances to minimize the discharge of pollutants.

2.1.2 Non-Numeric Technology-Based Effluent Limits (BPT/BAT/BCT).

You must comply with the following non-numeric effluent limits (except where otherwise specified in Part 8) as well as any sector-specific non-numeric effluent limits in Part 8:

2.1.2.1 *Minimize Exposure.* You must minimize the exposure of manufacturing, processing, and material storage areas (including loading and unloading, storage, disposal, cleaning, maintenance, and fueling operations) to rain, snow, snowmelt, and runoff in order to minimize pollutant discharges by either locating these industrial materials and activities inside or protecting them with storm resistant coverings. Unless infeasible, you must also:

- Use grading, berming or curbing to prevent runoff of contaminated flows and divert run-on away from these areas;
- Locate materials, equipment, and activities so that potential leaks and spills are contained or able to be contained or diverted before discharge;
- Clean up spills and leaks promptly using dry methods (e.g., absorbents) to prevent the discharge of pollutants;
- Store leaky vehicles and equipment indoors or, if stored outdoors, use drip pans and absorbents;
- Use spill/overflow protection equipment;
- Perform all vehicle and/or equipment cleaning operations indoors, under cover, or in bermed areas that prevent runoff and run-on and also that capture any overspray; and
- Drain fluids from equipment and vehicles that will be decommissioned, and, for any equipment and vehicles that will remain unused for extended periods of time, inspect at least monthly for leaks.

Note: Industrial materials do not need to be enclosed or covered if stormwater runoff from affected areas does not discharge pollutants to receiving waters or if discharges are authorized under another NPDES permit.

2.1.2.2 *Good Housekeeping.* You must keep clean all exposed areas that are potential sources of pollutants. You must perform good housekeeping measures in order to minimize pollutant discharges, including but not limited to, the following:

- Sweep or vacuum at regular intervals or, alternatively, wash down the area and collect and/or treat, and properly dispose of the washdown water;
- Store materials in appropriate containers;

- Keep all dumpster lids closed when not in use. For dumpsters and roll off boxes that do not have lids and could leak, ensure that discharges have a control (e.g., secondary containment, treatment). Consistent with Part 1.1.3 above, this permit does not authorize dry weather discharges from dumpsters or roll off boxes;*
- Minimize the potential for waste, garbage and floatable debris to be discharged by keeping exposed areas free of such materials, or by intercepting them before they are discharged.

Plastic Materials Requirements: Facilities that handle pre-production plastic must implement best management practices to eliminate discharges of plastic in stormwater. Examples of plastic material required to be addressed as stormwater pollutants include plastic resin pellets, powders, flakes, additives, regrind, scrap, waste and recycling.

2.1.2.3 Maintenance. You must maintain all control measures that are used to achieve the effluent limits in this permit in effective operating condition, as well as all industrial equipment and systems, in order to minimize pollutant discharges. This includes:

- Performing inspections and preventive maintenance of stormwater drainage, source controls, treatment systems, and plant equipment and systems that could fail and result in contamination of stormwater.
- Diligently maintaining non-structural control measures (e.g., keep spill response supplies available, personnel appropriately trained).
- Inspecting and maintaining baghouses at least quarterly to prevent the escape of dust from the system and immediately removing any accumulated dust at the base of the exterior baghouse.*
- Cleaning catch basins when the depth of debris reaches two-thirds (2/3) of the sump depth and keeping the debris surface at least six inches below the lowest outlet pipe.*

If you find that your control measures are in need of routine maintenance, you must conduct the necessary maintenance immediately in order to minimize pollutant discharges. If you find that your control measures need to be repaired or replaced, you must immediately take all reasonable steps to prevent or minimize the discharge of pollutants until the final repair or replacement is implemented, including cleaning up any contaminated surfaces so that the material will not be discharged during subsequent storm events. Final repairs/replacement of stormwater controls should be completed as soon as feasible but must be no later than the timeframe established in Part 4.3 for corrective actions, i.e., within 14 days or, if that is infeasible, within 45 days. If the completion of stormwater control repairs/replacement will exceed the 45 day timeframe, you may take the minimum additional time necessary to complete the maintenance, provided that you notify the EPA Regional Office of your intention to exceed 45 days, and document in your SWPPP your rationale for your modified maintenance timeframe. If a control measure was never installed, was installed incorrectly or not in accordance with Parts 2 and/or 8, or is not being properly operated or maintained, you must conduct corrective action as specified in Part 4.

Note: In this context, the term "immediately" requires you to, on the same day you identify that a control measure needs to be maintained, take all reasonable steps

to minimize or prevent the discharge of pollutants until a permanent solution is installed and made operational. However, if a problem is identified at a time in the work day when it is too late to take action, the initiation of action must begin no later than the following work day. "All reasonable steps" means that the permittee has undertaken initial actions to assess and address the condition causing the corrective action, including, for example, cleaning up any exposed materials that may be discharged in a storm event (e.g., through sweeping, vacuuming) or making arrangements (i.e., scheduling) for a new best management practice (BMP) to be installed at a later date. "All reasonable steps" for purposes of complying with Part 4.2 Conditions Requiring SWPPP Review to Determine if Modifications Are Necessary, when you conclude a corrective action is, in fact, not necessary, could include documenting why a corrective action is unnecessary.

2.1.2.4 Spill Prevention and Response. You must minimize the potential for leaks, spills and other releases that may be exposed to stormwater and develop plans for effective response to such spills if or when they occur in order to minimize pollutant discharges. You must conduct spill prevention and response measures, including but not limited to, the following:

- Plainly label containers (e.g., "Used Oil," "Spent Solvents," "Fertilizers and Pesticides") that could be susceptible to spillage or leakage to encourage proper handling and facilitate rapid response if spills or leaks occur;*
- Implement procedures for material storage and handling, including the use of secondary containment and barriers between material storage and traffic areas, or a similarly effective means designed to prevent the discharge of pollutants from these areas;
- Develop training on the procedures for expeditiously stopping, containing, and cleaning up leaks, spills, and other releases. As appropriate, execute such procedures as soon as possible;
- Keep spill kits on-site, located near areas where spills may occur or where a rapid response can be made; and
- Notify appropriate facility personnel when a leak, spill, or other release occurs.

Where a leak, spill or other release containing a hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under either 40 CFR Part 110, 40 CFR Part 117, or 40 CFR Part 302, occurs during a 24-hour period, you must notify the National Response Center (NRC) at (800) 424-8802 or, in the Washington, DC, metropolitan area, call (202) 267-2675 in accordance with the requirements of 40 CFR Part 110, 40 CFR Part 117, and 40 CFR Part 302 as soon as you have knowledge of the discharge. State or local requirements may necessitate reporting spills or discharges to local emergency response, public health, or drinking water supply agencies. Contact information must be in locations that are readily accessible and available.

2.1.2.5 Erosion and Sediment Controls. You must minimize erosion by stabilizing exposed soils at your facility in order to minimize pollutant discharges and placing flow velocity dissipation devices at discharge locations to minimize channel and streambank erosion and scour in the immediate vicinity of discharge points. You must also use structural and non-structural control measures to minimize the discharge of sediment. If you use polymers and/or other chemical treatments as part of your controls, you must identify the polymers and/or chemicals used and

the purpose in your SWPPP. There are many resources available to help you select appropriate BMPs for erosion and sediment control, including EPA's Stormwater Discharges from Construction Activities website at:

<http://water.epa.gov/polwaste/npdes/stormwater/EPA-Construction-General-Permit.cfm>.

- 2.1.2.6 Management of Runoff.** You must divert, infiltrate, reuse, contain, or otherwise reduce stormwater runoff to minimize pollutants in your discharges. In selecting, designing, installing, and implementing appropriate control measures, you are encouraged to consult with EPA's Internet-based resources relating to runoff management, including the sector-specific *Industrial Stormwater Fact Sheet Series*, (<http://water.epa.gov/polwaste/npdes/stormwater/EPA-Multi-Sector-General-Permit-MSGP.cfm>), *National Menu of Stormwater BMPs* (<http://water.epa.gov/polwaste/npdes/swbmp/index.cfm>), and *National Management Measures to Control Nonpoint Source Pollution from Urban Areas* (<http://water.epa.gov/polwaste/nps/urban/>), and any similar state or tribal resources.
- 2.1.2.7 Salt Storage Piles or Piles Containing Salt.** You must enclose or cover storage piles of salt, or piles containing salt, used for deicing or other commercial or industrial purposes, including maintenance of paved surfaces, in order to minimize pollutant discharges. You must implement appropriate measures (e.g., good housekeeping, diversions, containment) to minimize exposure resulting from adding to or removing materials from the pile. Piles do not need to be enclosed or covered pursuant to this permit if stormwater runoff from the piles is not discharged or if discharges from the piles are authorized under another NPDES permit.
- 2.1.2.8 Employee Training.** You must train all employees who work in areas where industrial materials or activities are exposed to stormwater, or who are responsible for implementing activities necessary to meet the conditions of this permit (e.g., inspectors, maintenance personnel), including all members of your stormwater pollution prevention team. You must ensure the following personnel understand the requirements of this permit and their specific responsibilities with respect to those requirements:
- Personnel who are responsible for the design, installation, maintenance, and/or repair of controls (including pollution prevention measures);
 - Personnel responsible for the storage and handling of chemicals and materials that could become contaminants in stormwater discharges;
 - Personnel who are responsible for conducting and documenting monitoring and inspections as required in Parts 3 and 6; and
 - Personnel who are responsible for taking and documenting corrective actions as required in Part 4.

Personnel must be trained in at least the following if related to the scope of their job duties (e.g., only personnel responsible for conducting inspections need to understand how to conduct inspections):

- An overview of what is in the SWPPP;
- Spill response procedures, good housekeeping, maintenance requirements, and material management practices;

- The location of all controls on the site required by this permit, and how they are to be maintained;
- The proper procedures to follow with respect to the permit's pollution prevention requirements; and
- When and how to conduct inspections, record applicable findings, and take corrective actions.

2.1.2.9 Non-Stormwater Discharges. You must evaluate for the presence of non-stormwater discharges. Any non-stormwater discharges not explicitly authorized in Part 1.1.3 or covered by another NPDES permit must be eliminated. This includes vehicle and equipment/tank wash water (except for those authorized in Part 1.1.3.3 for Sectors G, H, and J). If not covered under a separate NPDES permit, wastewater, wash water and any other unauthorized non-stormwater must be discharged to a sanitary sewer in accordance with applicable industrial pretreatment requirements, or otherwise disposed of appropriately.

2.1.2.10 Dust Generation and Vehicle Tracking of Industrial Materials. You must minimize generation of dust and off-site tracking of raw, final, or waste materials in order to minimize pollutant discharges.

2.1.3 Numeric Effluent Limitations Based on Effluent Limitations Guidelines.

If you are in an industrial category subject to one of the effluent limitations guidelines identified in Table 6-1 (see Part 6.2.2.1), you must meet the effluent limits referenced in Table 2-1 below:

Table 2-1. Applicable Effluent Limitations Guidelines

Regulated Activity	40 CFR Part/Subpart	Effluent Limit
Discharges resulting from spray down or intentional wetting of logs at wet deck storage areas	Part 429, Subpart I	See Part 8.A.7
Runoff from phosphate fertilizer manufacturing facilities that comes into contact with any raw materials, finished product, by-products or waste products (SIC 2874)	Part 418, Subpart A	See Part 8.C.4
Runoff from asphalt emulsion facilities	Part 443, Subpart A	See Part 8.D.4
Runoff from material storage piles at cement manufacturing facilities	Part 411, Subpart C	See Part 8.E.5
Mine dewatering discharges at crushed stone, construction sand and gravel, or industrial sand mining facilities	Part 436, Subparts B, C, or D	See Part 8.J.9
Runoff from hazardous waste landfills	Part 445, Subpart A	See Part 8.K.6
Runoff from non-hazardous waste landfills	Part 445, Subpart B	See Part 8.L.10
Runoff from coal storage piles at steam electric generating facilities	Part 423	See Part 8.O.8
Runoff containing urea from airfield pavement deicing at existing and new primary airports with 1,000 or more annual non-propeller aircraft departures	Part 449	See Part 8.S.8

2.2 Water Quality-Based Effluent Limitations.

2.2.1 Water Quality Standards.

Your discharge must be controlled as necessary to meet applicable water quality standards of all affected states (i.e., your discharge must not cause or contribute to an exceedance of applicable water quality standards in any affected state).

EPA expects that compliance with the conditions in this permit will control discharges as necessary to meet applicable water quality standards. If at any time you become aware, or EPA determines, that your discharge does not meet applicable water quality standards, you must take corrective action(s) as required in Part 4.1 and document the corrective actions as required in Part 4.4. You must also comply with any additional requirements that your state or tribe requires in Part 9.

EPA may also require that you undertake additional control measures (to meet the narrative water quality-based effluent limit above) on a site-specific basis, or require you to obtain coverage under an individual permit, if information in your NOI, required reports, or from other sources indicates that your discharges are not controlled as necessary to meet applicable water quality standards. You must implement all measures necessary to be consistent with an available wasteload allocation in an EPA-established or approved TMDL.

2.2.2 Discharges to Water Quality-Impaired Waters.

You are considered to discharge to an impaired water if the first water of the U.S. to which you discharge is identified by a state, tribe or EPA as not meeting an applicable water quality standard, and:

- Requires development of a TMDL (pursuant to section 303(d) of the CWA);
- Is addressed by an EPA-approved or established TMDL; or
- Is not in either of the above categories but the waterbody is covered by a pollution control program that meets the requirements of 40 CFR 130.7(b)(1).

Note: For discharges that enter a separate storm sewer system³ prior to discharge, the first water of the U.S. to which you discharge is the waterbody that receives the water from the storm sewer system.

2.2.2.1 Existing Discharge to an Impaired Water with an EPA-Approved or Established TMDL.

If you discharge to an impaired water with an EPA-approved or established TMDL, EPA will inform you whether any additional measures are necessary for your discharge to be consistent with the assumptions and requirements of the applicable TMDL and its wasteload allocation, or if coverage under an individual permit is necessary per Part 1.2.3.

2.2.2.2 Existing Discharger to an Impaired Water without an EPA-Approved or Established TMDL.

If you discharge to an impaired water without an EPA-approved or established TMDL, you are still required to comply with Part 2.2.1, and you must comply with the monitoring requirements of Part 6.2.4.1. Note that the impaired waters monitoring requirements of Part 6.2.4.1 also apply where EPA determines that your discharge is not controlled as necessary to meet applicable water quality

³ Separate storm systems do not include combined sewer systems or sanitary sewer systems. Separate storm systems include both municipal storm sewer systems (MS4s) and non-municipal separate storm sewers.

standards in an impaired downstream water segment, even if your discharge is to a receiving water that is not identified as impaired according to Part 2.2.2.

2.2.2.3 *New Discharger or New Source to an Impaired Water.* If your authorization to discharge under this permit relied on Part 1.1.4.8 for a new discharger or a new source to an impaired water, you must implement and maintain any measures that enabled you to become eligible under Part 1.1.4.8, and modify such measures as necessary pursuant to any Part 4 corrective actions. You also must comply with Part 2.2.1 and the monitoring requirements of Parts 6.2.4.1.

2.2.3 Tier 2 Antidegradation Requirements for New Dischargers, New Sources, or Increased Discharges.

If you are a new discharger or a new source (as defined in Appendix A), or an existing discharger required to notify EPA of an increased discharge consistent with Part 7.7 (i.e., a "planned changes" report), and you discharge directly to waters designated by a state or tribe as Tier 2 or Tier 2.5 for antidegradation purposes under 40 CFR 131.12(a), EPA may require that you undertake additional control measures as necessary to ensure compliance with the applicable antidegradation requirements, or notify you that an individual permit application is necessary in accordance with Part 1.2.3. See list of Tier 2 and 2.5 waters in Appendix L.

2.3 Requirements Relating to Endangered Species, Historic Properties, and Federal CERCLA Sites.

If your eligibility under either Part 1.1.4.5, Part 1.1.4.6, and/or Part 1.1.4.10 was made possible through your, or another operator's, agreement to undertake additional measures, you must comply with all such measures to maintain eligibility under the MSGP.

Note that if at any time you become aware, or EPA determines, that your discharges and/or discharge-related activities have the potential to adversely affect listed species and/or critical habitat, EPA may inform you of the need to implement additional measures on a site-specific basis to meet the effluent limits in this permit, or require you to obtain coverage under an individual permit.

3. Inspections.

3.1 Routine Facility Inspections.

During normal facility operating hours you must conduct inspections of areas of the facility covered by the requirements in this permit, including, but not limited to, the following:

- Areas where industrial materials or activities are exposed to stormwater;
- Areas identified in the SWPPP and those that are potential pollutant sources (see Part 5.2.3);
- Areas where spills and leaks have occurred in the past three years;
- Discharge points; and
- Control measures used to comply with the effluent limits contained in this permit.

Inspections must be conducted at least quarterly (i.e., once each calendar quarter), or in some instances more frequently (e.g., monthly). Increased frequency may be appropriate for some types of equipment, processes and stormwater control measures, or areas of the facility with significant activities and materials exposed to stormwater. At least once each calendar year, the routine inspection must be conducted during a period when a stormwater discharge is occurring.

Inspections must be performed by qualified personnel (as defined in Appendix A) with at least one member of your stormwater pollution prevention team participating. Inspectors must consider the results of visual and analytical monitoring (if any) for the past year when planning and conducting inspections.

During the inspection you must examine or look out for the following:

- Industrial materials, residue or trash that may have or could come into contact with stormwater;
- 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.

During an inspection occurring during a stormwater event or discharge, control measures implemented to comply with effluent limits must be observed to ensure they are functioning correctly. Discharge points, as defined in Appendix A, must also be observed during this inspection. If such discharge locations are inaccessible, nearby downstream locations must be inspected.

3.1.1 Exceptions to Routine Facility Inspections for Inactive and Unstaffed Sites.

The requirement to conduct facility inspections on a routine basis does not apply to a facility that is inactive and unstaffed, as long as there are no industrial materials or activities exposed to stormwater. Such a facility is only required to conduct an annual site inspection in accordance with Part 3.1. To invoke this exception, you must indicate that your facility is inactive and unstaffed on your NOI. If you are already covered under the permit and your

facility has changed from active to inactive and unstaffed, you must modify and re-certify your NOI. You must also include a statement in your SWPPP per Part 5.2.5.2 indicating that the site is inactive and unstaffed, and that there are no industrial materials or activities exposed to stormwater, in accordance with the substantive requirements in 40 CFR 122.26(g)(4)(iii). The statement must be signed and certified in accordance with Appendix B, Subsection 11. If circumstances change and industrial materials or activities become exposed to stormwater or your facility becomes active and/or staffed, this exception no longer applies and you must immediately resume routine facility inspections. If you are not qualified for this exception at the time you become authorized under this permit, but during the permit term you become qualified because your facility becomes inactive and unstaffed, and there are no industrial materials or activities that are exposed to stormwater, you must include the same signed and certified statement as above and retain it with your records pursuant to Part 5.5.

Inactive and unstaffed facilities covered under Sectors G (Metal Mining), H (Coal Mines and Coal Mining-Related Facilities), and J (Non-Metallic Mineral Mining and Dressing) are not required to meet the “no industrial materials or activities exposed to stormwater” standard to be eligible for this exception from routine inspections, per Parts 8.G.8.4, 8.H.8.1, and 8.J.8.1.

3.1.2 Routine Facility Inspection Documentation.

You must document the findings of your facility inspections and maintain this report with your SWPPP as required in Part 5.5. Do not submit your routine facility inspection report to EPA, unless specifically requested to do so. However, you must summarize your findings in the annual report per Part 7.5. Document all findings, including but not limited to, the following information:

- 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 from and/or pollutants at 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;
- Any incidents of noncompliance; and
- A statement, signed and certified in accordance with Appendix B, Subsection 11.

Any corrective action required as a result of a routine facility inspection must be performed consistent with Part 4 of this permit.

If you performed a discharge visual assessment required in Part 3.2 during your facility inspection, you may include the results of the assessment with the report required in Part 3.1.2, as long as all components of both types of inspections are included in the report.

3.2 Quarterly Visual Assessment of Stormwater Discharges.

3.2.1 Quarterly Visual Assessment Procedures.

Once each quarter for the entire permit term, you must collect a stormwater sample from each outfall (except as noted in Part 3.2.3) and conduct a visual assessment of each of these samples. These samples are not required to be collected consistent with 40 CFR Part 136 procedures but must be collected in such a manner that the samples are representative of the stormwater discharge. Guidance on monitoring is available at <http://water.epa.gov/polwaste/npdes/stormwater/EPA-Multi-Sector-General-Permit-MSGP.cfm>.

The visual assessment must be made:

- Of a sample in a clean, colorless 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 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 you must document why it was not possible to take the sample within the first 30 minutes. In the case of snowmelt, samples must be taken during a period with a measurable discharge from your site; and
- For storm events, on discharges that occur at least 72 hours (three days) from the previous discharge. The 72-hour (three-day) storm interval does not apply if you document that less than a 72-hour (three-day) interval is representative for local storm events during the sampling period.

You must visually inspect or observe the sample for the following water quality characteristics:

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

Whenever the visual assessment shows evidence of stormwater pollution, you must initiate the corrective action procedures in Part 4.

3.2.2 Quarterly Visual Assessment Documentation.

You must document the results of your visual assessments and maintain this documentation onsite with your SWPPP as required in Part 5.5. You are not required to submit

your visual assessment findings to EPA, unless specifically requested to do so. However, you must summarize your findings in the annual report per Part 7.5. Your documentation of the visual assessment must include, but not be limited to:

- 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 stormwater discharge;
- Probable sources of any observed stormwater contamination;
- If applicable, why it was not possible to take samples within the first 30 minutes; and
- A statement, signed and certified in accordance with Appendix B, Subsection 11.

Any corrective action required as a result of a quarterly visual assessment must be performed consistent with Part 4 of this permit.

3.2.3 Exceptions to Quarterly Visual Assessments.

Adverse Weather Conditions: When adverse weather conditions prevent the collection of samples during the quarter, you must take a substitute sample during the next qualifying storm event. Documentation of the rationale for no visual assessment for the quarter must be included with your SWPPP records as described in Part 5.5. Adverse conditions are those that are dangerous or create inaccessibility for personnel, such as local flooding, high winds, electrical storms, or situations that otherwise make sampling impractical, such as extended frozen conditions.

Climates with Irregular Stormwater Runoff: If your facility is located in an area where limited rainfall occurs during many parts of the year (e.g., arid or semi-arid climate) or in an area where freezing conditions exist that prevent runoff from occurring for extended periods, then your samples for the quarterly visual assessments may be distributed during seasons when precipitation runoff occurs.

Areas Subject to Snow: In areas subject to snow, at least one quarterly visual assessment must capture snowmelt discharge, as described in Part 6.1.3, taking into account the exception described above for climates with irregular stormwater runoff.

Inactive and Unstaffed Sites: The requirement for a quarterly visual assessment does not apply at a facility that is inactive and unstaffed, as long as there are no industrial materials or activities exposed to stormwater. To invoke this exception, you must maintain a statement in your SWPPP per Part 5.2.5.2 indicating that the site is inactive and unstaffed, and that there are no industrial materials or activities exposed to precipitation, in accordance with the substantive requirements in 40 CFR 122.26(g)(4)(iii). The statement must be signed and certified in accordance with Appendix B, Subsection 11. If circumstances change and industrial materials or activities become exposed to stormwater or your facility becomes active and/or staffed, this exception no longer applies and you must immediately resume quarterly visual assessments. If you are not qualified for this exception at the time you are authorized under this

permit, but during the permit term you become qualified because your facility becomes inactive and unstaffed, and there are no industrial materials or activities that are exposed to stormwater, then you must include the same signed and certified statement as above and retain it with your records pursuant to Part 5.5.

Inactive and unstaffed facilities covered under Sectors G (Metal Mining), H (Coal Mines and Coal Mining-Related Facilities), and J (Non-Metallic Mineral Mining and Dressing), are not required to meet the “no industrial materials or activities exposed to stormwater” standard to be eligible for this exception from quarterly visual assessments, consistent with the requirements established in Parts 8.G.8.4, 8.H.8.1, and 8.J.8.1.

Substantially Identical Outfalls: If your facility has two or more outfalls that discharge substantially identical effluents, as documented in Part 5.2.5.3, you may conduct quarterly visual assessments of the discharge at just one of the outfalls and report that the results also apply to the substantially identical outfall(s) provided that you perform visual assessments on a rotating basis of each substantially identical outfall throughout the period of your coverage under this permit.

If stormwater contamination is identified through visual assessment performed at a substantially identical outfall, you must assess and modify your control measures as appropriate for each outfall represented by the monitored outfall.

4. Corrective Actions.

4.1 Conditions Requiring SWPPP Review and Revision to Ensure Effluent Limits are Met.

When any of the following conditions occur or are detected during an inspection, monitoring or other means, or EPA or the operator of the MS4 through which you discharge informs you that any of the following conditions have occurred, you must review and revise, as appropriate, your SWPPP (e.g., sources of pollution; spill and leak procedures; non-stormwater discharges; the selection, design, installation and implementation of your control measures) so that this permit's effluent limits are met and pollutant discharges are minimized:

- An unauthorized release or discharge (e.g., spill, leak, or discharge of non-stormwater not authorized by this or another NPDES permit to a water of the U.S.) occurs at your facility.
- A discharge violates a numeric effluent limit listed in Table 2-1 and in your Part 8 sector-specific requirements.
- Your control measures are not stringent enough for the discharge to meet applicable water quality standards or the non-numeric effluent limits in this permit.
- A required control measure was never installed, was installed incorrectly, or not in accordance with Parts 2 and/or 8, or is not being properly operated or maintained.
- Whenever a visual assessment shows evidence of stormwater pollution (e.g., color, odor, floating solids, settled solids, suspended solids, foam).

4.2 Conditions Requiring SWPPP Review to Determine if Modifications Are Necessary.

If any of the following conditions occur, you must review your SWPPP (e.g., sources of pollution, spill and leak procedures, non-stormwater discharges, selection, design, installation and implementation of your control measures) to determine if modifications are necessary to meet the effluent limits in this permit:

- Construction or a change in design, operation, or maintenance at your facility that significantly changes the nature of pollutants discharged in stormwater from your facility, or significantly increases the quantity of pollutants discharged.
- The average of four quarterly sampling results exceeds an applicable benchmark (see Part 6.2.1.2). 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.

Note: A benchmark exceedance does not trigger a corrective action if you determine that the exceedance is solely attributable to natural background sources, or if you make a finding that no further pollutant reductions are technologically available and economically practicable and achievable in light of best industry practice (see Part 6.2.1.2).

Note: When run-on to your facility causes a benchmark exceedance, in addition to reviewing and revising, as appropriate, your SWPPP, you should notify the other operators contributing run-on to your discharges to abate their pollutant contribution. Where the other operators fail to take action to address the stormwater run-on, you should contact your EPA Regional Office.

4.3 Corrective Actions and Deadlines.

4.3.1 Immediate Actions.

If corrective action is needed, you must immediately take all reasonable steps necessary to minimize or prevent the discharge of pollutants until a permanent solution is installed and made operational, including cleaning up any contaminated surfaces so that the material will not discharge in subsequent storm events.

Note: In this context, the term “immediately” requires you to, on the same day a condition requiring corrective action is found, take all reasonable steps to minimize or prevent the discharge of pollutants until a permanent solution is installed and made operational. However, if a problem is identified at a time in the work day when it is too late to initiate corrective action, the initiation of corrective action must begin no later than the following work day. “All reasonable steps” means that the permittee has undertaken initial actions to assess and address the condition causing the corrective action, including, for example, cleaning up any exposed materials that may be discharged in a storm event (e.g., through sweeping, vacuuming) or making arrangements (i.e., scheduling) for a new BMP to be installed at a later date. “All reasonable steps” for purposes of complying with Part 4.2 Conditions Requiring SWPPP Review to Determine if Modifications Are Necessary, when you conclude a corrective action is, in fact, not necessary, could include documenting why a corrective action is unnecessary.

4.3.2 Subsequent Actions.

If you determine that additional actions are necessary beyond those implemented pursuant to Part 4.3.1, you must complete the corrective actions (e.g., install a new or modified control and make it operational, complete the repair) before the next storm event if possible, and within 14 calendar days from the time of discovery of the corrective action condition. If it is infeasible to complete the corrective action within 14 calendar days, you must document why it is infeasible to complete the corrective action within the 14-day timeframe. You must also identify your schedule for completing the work, which must be done as soon as practicable after the 14-day timeframe but no longer than 45 days after discovery. If the completion of corrective action will exceed the 45 day timeframe, you may take the minimum additional time necessary to complete the corrective action, provided that you notify the EPA Regional Office of your intention to exceed 45 days, your rationale for an extension, and a completion date, which you must also include in your corrective action documentation (see Part 4.4). Where your corrective actions result in changes to any of the controls or procedures documented in your SWPPP, you must modify your SWPPP accordingly within 14 calendar days of completing corrective action work.

These time intervals are not grace periods, but are schedules considered reasonable for documenting your findings and for making repairs and improvements. They are included in this permit to ensure that the conditions prompting the need for these repairs and improvements do not persist indefinitely.

4.4 Corrective Action Documentation.

You must document the existence of any of the conditions listed in Parts 4.1 or 4.2 within 24 hours of becoming aware of such condition. You are not required to submit your corrective action documentation to EPA, unless specifically requested to do so. However, you must summarize your findings in the annual report per Part 7.5. Include the following information in your documentation:

- Description of the condition triggering the need for corrective action review. For any spills or leaks, include the following information: a description of the

incident including material, date/time, amount, location, and reason for spill, and any leaks, spills or other releases that resulted in discharges of pollutants to waters of U.S., through stormwater or otherwise;

- Date the condition was identified;
- Description of immediate actions taken pursuant to Part 4.3.1 to minimize or prevent the discharge of pollutants. For any spills or leaks, include response actions, the date/time clean-up completed, notifications made, and staff involved. Also include any measures taken to prevent the reoccurrence of such releases (see Part 2.1.2.4); and
- A statement, signed and certified in accordance with Appendix B, Subsection 11.

You must also document the corrective actions taken or to be taken as a result of the conditions listed in Part 4.1 or 4.2 (or, for triggering events in Part 4.2 where you determine that corrective action is not necessary, the basis for this determination) within 14 days from the time of discovery of any of those conditions. Provide the dates when each corrective action was initiated and completed (or is expected to be completed). If applicable, document why it is infeasible to complete the necessary installations or repairs within the 14-day timeframe and document your schedule for installing the controls and making them operational as soon as practicable after the 14-day timeframe. If you notified EPA regarding an extension of the 45 day timeframe, you must document your rationale for an extension.

4.5 Effect of Corrective Action.

If the event triggering the review is a permit violation (e.g., non-compliance with an effluent limit), correcting it does not remove the original violation. Additionally, failing to take corrective action in accordance with this section is an additional permit violation. EPA will consider the appropriateness and promptness of corrective action in determining enforcement responses to permit violations.

4.6 Substantially Identical Outfalls.

If the event triggering corrective action is associated with an outfall that had been identified as a "substantially identical outfall" (see Parts 3.2.3 and 6.1.1), your review must assess the need for corrective action for all related substantially identical outfalls. Any necessary changes to control measures that affect these other outfalls must also be made before the next storm event if possible, or as soon as practicable following that storm event. Any corrective actions must be conducted within the timeframes set forth in Part 4.3.

5. Stormwater Pollution Prevention Plan (SWPPP).

You must prepare a SWPPP for your facility before submitting your NOI for permit coverage. If you prepared a SWPPP for coverage under a previous version of this NPDES permit, you must review and update the SWPPP to implement all provisions of this permit prior to submitting your NOI. The SWPPP does not contain effluent limitations; such limitations are contained in Parts 2, 8, and 9 of the permit. The SWPPP is intended to document the selection, design, and installation of control measures to meet the permit's effluent limits. As distinct from the SWPPP, the additional documentation requirements (see Part 5.5) are intended to document the implementation (including inspection, maintenance, monitoring, and corrective action) of the permit requirements.

Note: Any discharges not expressly authorized in this permit cannot become authorized or shielded from liability under CWA section 402(k) by disclosure to EPA, state, or local authorities after issuance of this permit via any means, including the Notice of Intent (NOI) to be covered by the permit, the SWPPP, during an inspection, etc.

5.1 Person(s) Responsible for SWPPP Preparation.

The SWPPP shall be prepared in accordance with good engineering practices and to industry standards. The SWPPP may be developed by either a person on your staff or a third party you hire, but it must be developed by a "qualified person" and must be certified per the signature requirements in Part 5.2.7. If EPA concludes that the SWPPP is not in compliance with Part 5.2 of this permit, EPA may require the SWPPP to be reviewed, amended as necessary, and certified by a Professional Engineer, or for Sector G, H or J, by a Professional Geologist, with the education and experience necessary to prepare an adequate SWPPP.

Note: A "qualified person" is a person knowledgeable in the principles and practices of industrial stormwater controls and pollution prevention, and possesses the education and ability to assess conditions at the industrial facility that could impact stormwater quality, and the education and ability to assess the effectiveness of stormwater controls selected and installed to meet the requirements of the permit.

5.2 Contents of Your SWPPP.

For coverage under this permit, your SWPPP must contain all of the following elements:

- Stormwater pollution prevention team (see Part 5.2.1);
- Site description (see Part 5.2.2);
- Summary of potential pollutant sources (see Part 5.2.3);
- Description of control measures (see Part 5.2.4);
- Schedules and procedures (see Part 5.2.5);
- Documentation to support eligibility considerations under other federal laws (see Part 5.2.6); and
- Signature requirements (see Part 5.2.7).

Where your SWPPP refers to procedures in other facility documents, such as a Spill Prevention, Control and Countermeasure (SPCC) Plan or an Environmental Management System (EMS), copies of the relevant portions of those documents must be kept with your SWPPP.

5.2.1 Stormwater Pollution Prevention Team.

You must identify the staff members (by name or title) that comprise the facility's stormwater pollution prevention team as well as their individual responsibilities. Your stormwater pollution prevention team is responsible for overseeing development of the SWPPP, any modifications to it, and for implementing and maintaining control measures and taking corrective actions when required. Each member of the stormwater pollution prevention team must have ready access to either an electronic or paper copy of applicable portions of this permit, the most updated copy of your SWPPP, and other relevant documents or information that must be kept with the SWPPP.

5.2.2 Site Description.

Your SWPPP must include the following:

- *Activities at the Facility.* Provide a description of the nature of the industrial activities at your facility.
- *General location map.* Provide a general location map (e.g., U.S. Geological Survey (USGS) quadrangle map) with enough detail to identify the location of your facility and all receiving waters for your stormwater discharges.
- *Site map.* Provide a map showing:
 - Boundaries of the property and the size of the property in acres;
 - Location and extent of significant structures and impervious surfaces;
 - Directions of stormwater flow (use arrows);
 - Locations of all stormwater control measures;
 - Locations of all receiving waters, including wetlands, in the immediate vicinity of your facility. Indicate which waterbodies are listed as impaired and which are identified by your state, tribe, or EPA as Tier 2, Tier 2.5, or Tier 3 waters;
 - Locations of all stormwater conveyances including ditches, pipes, and swales;
 - Locations of potential pollutant sources identified under Part 5.2.3.2;
 - Locations where significant spills or leaks identified under Part 5.2.3.3 have occurred;
 - Locations of all stormwater monitoring points;
 - Locations of stormwater inlets and outfalls, with a unique identification code for each outfall (e.g., Outfall 001, 002), indicating if you are treating one or more outfalls as "substantially identical" under Parts 3.2.3, 5.2.5.3, and 6.1.1, and an approximate outline of the areas draining to each outfall;
 - If applicable, MS4s and where your stormwater discharges to them;
 - Areas of designated critical habitat for endangered or threatened species, if applicable.
 - Locations of the following activities where such activities are exposed to precipitation:
 - fueling stations;
 - vehicle and equipment maintenance and/or cleaning areas;
 - loading/unloading areas;
 - locations used for the treatment, storage, or disposal of wastes;
 - liquid storage tanks;

- processing and storage areas;
- immediate access roads and rail lines used or traveled by carriers of raw materials, manufactured products, waste material, or by-products used or created by the facility;
- transfer areas for substances in bulk;
- machinery;
- locations and sources of run-on to your site from adjacent property that contains significant quantities of pollutants.

5.2.3 Summary of Potential Pollutant Sources.

You must describe areas at your facility where industrial materials or activities are exposed to stormwater or from which allowable non-stormwater discharges originate. Industrial materials or activities include, but are not limited to: material handling equipment or activities; industrial machinery; raw materials; industrial production and processes; and intermediate products, by-products, final products, and waste products. Material handling activities include, but are not limited to: the storage, loading and unloading, transportation, disposal, or conveyance of any raw material, intermediate product, final product or waste product. For structures located in areas of industrial activity, you must be aware that the structures themselves are potential sources of pollutants. This could occur, for example, when metals such as aluminum or copper are leached from the structures as a result of acid rain.

For each area identified, the description must include:

- 5.2.3.1 *Activities in the Area.*** A list of the industrial activities exposed to stormwater (e.g., material storage; equipment fueling, maintenance, and cleaning; cutting steel beams).
- 5.2.3.2 *Pollutants.*** A list of the pollutant(s) or pollutant constituents (e.g., crankcase oil, zinc, sulfuric acid, cleaning solvents) associated with each identified activity, which could be exposed to rainfall or snowmelt and could be discharged from your facility. The pollutant list must include all significant materials that have been handled, treated, stored or disposed, and that have been exposed to stormwater in the three years prior to the date you prepare or amend your SWPPP.
- 5.2.3.3 *Spills and Leaks.*** You must document where potential spills and leaks could occur that could contribute pollutants to stormwater discharges, and the corresponding outfall(s) that would be affected by such spills and leaks. You must document all significant spills and leaks of oil or toxic or hazardous substances that actually occurred at exposed areas, or that drained to a stormwater conveyance, in the three years prior to the date you prepare or amend your SWPPP.

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. This permit does not relieve you of the reporting requirements of 40 CFR 110, 40 CFR 117, and 40 CFR 302 relating to spills or other releases of oils or hazardous substances.

- 5.2.3.4 *Unauthorized Non-Stormwater Discharges.*** You must document that you have evaluated for the presence of unauthorized non-stormwater discharges (see Part

1.1.3 for the exclusive list of authorized non-stormwater discharges under this permit).

Documentation of your evaluation must include:

- The date of the evaluation;
- A description of the evaluation criteria used;
- A list of the outfalls or onsite drainage points that were directly observed during the evaluation; and
- The action(s) taken, such as a list of control measures used to eliminate unauthorized discharge(s), or documentation that a separate NPDES permit was obtained. 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.

5.2.3.5 *Salt Storage.* You must document the location of any storage piles containing salt used for deicing or other commercial or industrial purposes.

5.2.3.6 *Sampling Data.* Existing dischargers must summarize all stormwater discharge sampling data collected at the facility during the previous permit term. The summary shall include a narrative description (and may include data tables/figures) that adequately summarizes the collected sampling data to support identification of potential pollution sources at your facility. New dischargers and new sources must provide a summary of any available stormwater runoff data they may have.

5.2.4 Description of Control Measures to Meet Technology-Based and Water Quality-Based Effluent Limits.

You must document the location and type of control measures you have specifically chosen and/or designed to comply with:

- Non-numeric technology-based effluent limits in Part 2.1.2;
- Applicable numeric effluent limitations guidelines-based limits in Part 2.1.3 and Part 8;
- Water quality-based effluent limits in Part 2.2;
- Any additional measures that formed the basis of eligibility regarding threatened and endangered species, historic properties, and/or federal CERCLA Site requirements in Part 2.3;
- Applicable effluent limits in Parts 8 and 9.
- Regarding your control measures, you must also document, as appropriate:
 - How you addressed the selection and design considerations in Part 2.1.1;
 - How they address the pollutant sources identified in Part 5.2.3.

Effluent limit requirements in Part 2.1.2 that do not involve the site-specific selection of a control measure or are specific activity requirements (e.g., "cleaning catch basins when the depth of debris reaches two-thirds (2/3) of the sump depth and keeping the debris surface at least six inches below the lowest outlet pipe") are marked with an asterisk (*). For the requirements marked with an asterisk, you may include extra information, or you may just "cut-

and-paste" these effluent limits verbatim into your SWPPP without providing additional documentation.

5.2.5 Schedules and Procedures.

5.2.5.1 *Pertaining to Control Measures Used to Comply with the Effluent Limits in Part 2.* The following must be documented in your SWPPP:

- Good Housekeeping (See Part 2.1.2.2) – A schedule or the convention used for determining when pickup and disposal of waste materials occurs. Also provide a schedule for routine inspections for leaks and conditions of drums, tanks and containers.
- Maintenance (See Part 2.1.2.3) – Preventative maintenance procedures, including regular inspections, testing, maintenance and repair of all control measures to avoid situations that may result in leaks, spills, and other releases, and any back-up practices in place should a runoff event occur while a control measure is off-line. The SWPPP shall include the schedule or frequency for maintaining all control measures used to comply with the effluent limits in Part 2;
- Spill Prevention and Response Procedures (See Part 2.1.2.4) – Procedures for preventing and responding to spills and leaks, including notification procedures. For preventing spills, include in your SWPPP the control measures for material handling and storage, and the procedures for preventing spills that can contaminate stormwater. Also specify cleanup equipment, procedures and spill logs, as appropriate, in the event of spills. You may reference the existence of other plans for Spill Prevention Control and Countermeasure (SPCC) developed for the facility under section 311 of the CWA or BMP programs otherwise required by an NPDES permit for the facility, provided that you keep a copy of that other plan onsite and make it available for review consistent with Part 5.4;
- Erosion and Sediment Controls (Part 2.1.2.5) – If you use polymers and/or other chemical treatments as part of your controls, you must identify the polymers and/or chemicals used and the purpose;
- Employee Training (Part 2.1.2.8) – The elements of your employee training plan shall include all, but not be limited to, the requirements set forth in Part 2.1.2.8, and also the following:
 - The content of the training;
 - The frequency/schedule of training for employees who work in areas where industrial materials or activities are exposed to stormwater, or who are responsible for implementing activities necessary to meet the conditions of this permit;
 - A log of the dates on which specific employees received training.

5.2.5.2 *Pertaining to Inspections and Assessments.* You must document in your SWPPP your procedures for performing, as appropriate, the types of inspections specified by this permit, including:

- Routine facility inspections (see Part 3.1) and;
- Quarterly visual assessment of stormwater discharges (see Part 3.2).

For each type of inspection performed, your SWPPP must identify:

- Person(s) or positions of person(s) responsible for inspection;

- Schedules for conducting inspections, including tentative schedule for facilities in climates with irregular stormwater runoff discharges (see Part 3.2.3);
- Specific items to be covered by the inspection, including schedules for specific outfalls.

If you are invoking the exception for inactive and unstaffed sites relating to routine facility inspections and quarterly visual assessments, you must include in your SWPPP the information to support this claim as required by Parts 3.1.1 and 3.2.3.

5.2.5.3 *Pertaining to Monitoring.* You must document in your SWPPP procedures for conducting the five types of analytical monitoring specified by this permit, where applicable to your facility, including:

- Benchmark monitoring (see Part 6.2.1);
- Effluent limitations guidelines monitoring (see Part 6.2.2);
- State- or tribal-specific monitoring (see Part 6.2.3);
- Impaired waters monitoring (see Part 6.2.4);
- Other monitoring as required by EPA (see Part 6.2.5).

For each type of monitoring, your SWPPP must document:

- Locations where samples are collected, including any determination that two or more outfalls are substantially identical;
- Parameters for sampling and the frequency of sampling for each parameter;
- Schedules for monitoring at your facility, including schedule for alternate monitoring periods for climates with irregular stormwater runoff (see Part 6.1.6);
- Any numeric control values (benchmarks, effluent limitations guidelines, TMDL-related requirements, or other requirements) applicable to discharges from each outfall;
- Procedures (e.g., responsible staff, logistics, laboratory to be used) for gathering storm event data, as specified in Part 6.1.

If you are invoking the exception for inactive and unstaffed sites for benchmark monitoring or impaired waters monitoring, you must include in your SWPPP the information to support this claim as required by Part 6.2.1.3 and 6.2.4.2.

You must document the following in your SWPPP if you plan to use the substantially identical outfall exception for your quarterly visual assessment requirements in Part 3.2.3 or your benchmark or impaired waters monitoring requirements in Parts 6.2.1 and 6.2.4.1 (see also Part 6.1.1):

- Location of each of the substantially identical outfalls;
- Description of the general industrial activities conducted in the drainage area of each outfall;
- Description of the control measures implemented in the drainage area of each outfall;

- Description of the exposed materials located in the drainage area of each outfall that are likely to be significant contributors of pollutants to stormwater discharges;
- An estimate of the runoff coefficient of the drainage areas (low = under 40%; medium = 40 to 65%; high = above 65%);
- Why the outfalls are expected to discharge substantially identical effluents.

5.2.6 Documentation to Support Eligibility Considerations Under Other Federal Laws.

5.2.6.1 *Documentation Regarding Endangered and Threatened Species and Critical Habitat Protection.* You must keep with your SWPPP the documentation supporting your determination with regard to Part 1.1.4.5 (Endangered and Threatened Species and Critical Habitat Protection).

5.2.6.2 *Documentation Regarding Historic Properties.* You must keep with your SWPPP the documentation supporting your determination with regard to Part 1.1.4.6 (Historic Properties Preservation).

5.2.7 **Signature Requirements.** You must sign and date your SWPPP in accordance with Appendix B, Subsection 11.

5.3 Required SWPPP Modifications.

You must modify your SWPPP based on the corrective actions and deadlines required under Part 4.3 and that you documented under Part 4.4. SWPPP modifications must be signed and dated in accordance with Appendix B, Subsection 11.

5.4 SWPPP Availability.

You must retain a complete copy of your current SWPPP required by this permit at the facility in any accessible format. A complete SWPPP includes any documents incorporated by reference and all documentation supporting your permit eligibility pursuant to Part 1.1 of this permit, as well as your signed and dated certification page. Regardless of the format, the SWPPP must be immediately available to facility employees, EPA, a state or tribe, the operator of an MS4 into which you discharge, and representatives of the U.S. Fish and Wildlife Service (USFWS) or the National Marine Fisheries Service (NMFS) at the time of an onsite inspection. Your current SWPPP or certain information from your current SWPPP described below must also be made available to the public (except any confidential business information (CBI) or restricted information [as defined in Appendix A]), but you must clearly identify those portions of the SWPPP that are being withheld from public access; to do so, you must comply with one of the following two options:

5.4.1 SWPPP Posting on the Internet.

If you provide a URL in your NOI where your SWPPP can be found, and maintain your current SWPPP at this URL, you will have complied with the public availability requirements for the SWPPP. To remain current, you must post any SWPPP modifications, records and other reporting elements required for the previous year at the same URL as the main body of the SWPPP. The SWPPP update shall be no later than 45 days after conducting the final routine facility inspection for the year required in Part 3.1. If you did not provide a SWPPP URL in your NOI, you may reopen your NOI at any time subsequent to your original NOI submittal to add a URL where your current SWPPP can be found. You are not required to post any CBI or restricted information (as defined in Appendix A) (such information may be redacted), but you must clearly identify those portions of the SWPPP that are being withheld from public access. CBI may not be withheld from those staff cleared for CBI review within EPA, USFWS or NMFS.

5.4.2 SWPPP Information Provided on NOI Form.

If you did not provide a SWPPP URL in your NOI, your NOI must include the information required by Part 7.3. Irrespective of this requirement, EPA may provide access to portions of your SWPPP to a member of the public upon request (except any CBI or restricted information (as defined in Appendix A)). To remain current, you must report any modifications to the SWPPP information required by Part 7.3 through submittal of a "Change NOI" form. The SWPPP update shall be no later than 45 days after conducting the final routine facility inspection for the year required in Part 3.1.

5.5 Additional Documentation Requirements.

You are required to keep the following inspection, monitoring, and certification records with your SWPPP that together keep your records complete and up-to-date, and demonstrate your full compliance with the conditions of this permit:

- A copy of the NOI submitted to EPA along with any correspondence exchanged between you and EPA specific to coverage under this permit;
- A copy of the acknowledgment you receive from the EPA assigning your NPDES ID;
- A copy of this permit (an electronic copy easily available to SWPPP personnel is also acceptable);
- Documentation of maintenance and repairs of control measures, including the date(s) of regular maintenance, date(s) of discovery of areas in need of repair/replacement, and for repairs, date(s) that the control measure(s) returned to full function, and the justification for any extended maintenance/repair schedules (see Part 2.1.2.3);
- All inspection reports, including the Routine Facility Inspection Reports (see Part 3.1.2) and Quarterly Visual Assessment Reports (see Part 3.2.2);
- Description of any deviations from the schedule for visual assessments and/or monitoring, and the reason for the deviations (e.g., adverse weather or it was impracticable to collect samples within the first 30 minutes of a measurable storm event) (see Parts 3.2.3 and 6.1.5);
- Corrective action documentation required per Part 4.4;
- Documentation of any benchmark exceedances and the type of response to the exceedance you employed, including:
 - the corrective action taken;
 - a finding that the exceedance was due to natural background pollutant levels;
 - a determination from EPA that benchmark monitoring can be discontinued because the exceedance was due to run-on; or
 - a finding that no further pollutant reductions were technologically available and economically practicable and achievable in light of best industry practice consistent with Part 6.2.1.2.
- Documentation to support any determination that pollutants of concern are not expected to be present above natural background levels if you discharge directly to impaired waters, and that such pollutants were not detected in your discharge or were solely attributable to natural background sources (see Part 6.2.4.1); and

- Documentation to support your claim that your facility has changed its status from active to inactive and unstaffed with respect to the requirements to conduct routine facility inspections (see Part 3.1.1), quarterly visual assessments (see Part 3.2.3), benchmark monitoring (see Part 6.2.1.3), and/or impaired waters monitoring (see Part 6.2.4.2).

6. Monitoring.

You must collect and analyze stormwater samples and document monitoring activities consistent with the procedures described in Part 6 and Appendix B, Subsections 10 – 12, and any additional sector-specific or state/tribal-specific requirements in Parts 8 and 9, respectively. Refer to Part 7 for reporting and recordkeeping requirements.

6.1 Monitoring Procedures.**6.1.1 Monitored Outfalls.**

Applicable monitoring requirements apply to each outfall authorized by this permit, except as otherwise exempt from monitoring as a “substantially identical outfall.” If your facility has two or more outfalls that you believe discharge substantially identical effluents, based on the similarities of the general industrial activities and control measures, exposed materials that may significantly contribute pollutants to stormwater, and runoff coefficients of their drainage areas, you may monitor the effluent of just one of the outfalls and report that the results also apply to the substantially identical outfall(s). As required in Part 5.2.5.3, your SWPPP must identify each outfall authorized by this permit and describe the rationale for any substantially identical outfall determinations. The allowance for monitoring only one of the substantially identical outfalls is not applicable to any outfalls with numeric effluent limitations. You are required to monitor each outfall covered by a numeric effluent limit as identified in Part 6.2.2.

6.1.2 Commingled Discharges.

If discharges authorized by this permit commingle with discharges not authorized under this permit, any required sampling of the authorized discharges must be performed at a point before they mix with other waste streams, to the extent practicable.

6.1.3 Measurable Storm Events.

All required monitoring must be performed on a storm event that results in an actual discharge from your site (“measurable storm event”) that follows the preceding measurable storm event by at least 72 hours (three days). The 72-hour (3-day) storm interval does not apply if you are able to document that less than a 72-hour (3-day) interval is representative for local storm events during the sampling period. In the case of snowmelt, the monitoring must be performed at a time when a measurable discharge occurs at your site.

For each monitoring event, except snowmelt monitoring, you must identify the date and duration (in hours) of the rainfall event, rainfall total (in inches) for that rainfall event, and time (in days) since the previous measurable storm event. For snowmelt monitoring, you must identify the date of the sampling event.

6.1.4 Sample Type.

You must take a minimum of one grab sample from a discharge resulting from a measurable storm event as described in Part 6.1.3. Samples must be collected within the first 30 minutes of a discharge associated with a measurable storm event. If it is not possible to collect the sample within the first 30 minutes of a measurable storm event, the sample must be collected as soon as practicable after the first 30 minutes and documentation must be kept with the SWPPP explaining 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.

6.1.5 Adverse Weather Conditions.

When adverse weather conditions as described in Part 3.2.3 prevent the collection of samples according to the relevant monitoring schedule, you must take a substitute sample

during the next qualifying storm event. Adverse weather does not exempt you from having to file a benchmark monitoring report in accordance with your sampling schedule. As specified in Part 7.4, you must use NetDMR to report any failure to monitor using a “no data” or “NODI” code during the regular reporting period.

6.1.6 Climates with Irregular Stormwater Runoff.

If your facility is located in areas where limited rainfall occurs during parts of the year (e.g., arid or semi-arid climates) or in areas where freezing conditions exist that prevent runoff from occurring for extended periods, required monitoring events may be distributed during seasons when precipitation occurs, or when snowmelt results in a measurable discharge from your site. You must still collect the required number of samples. As specified in Part 7.4, you must also use NetDMR to report using a “no data” or “NODI” code for any of the regular reporting periods that there was no monitoring.

6.1.7 Monitoring Periods.

Monitoring requirements in this permit begin in the first full quarter following either September 2, 2015 or your date of discharge authorization, whichever date comes later. If your monitoring is required on a quarterly basis (e.g., benchmark monitoring), you must monitor at least once in each of the following 3-month intervals:

- January 1 – March 31;
- April 1 – June 30;
- July 1 – September 30;
- October 1 – December 31.

For example, if you obtain permit coverage on July 2, 2015, then your first monitoring quarter is October 1 - December 31, 2015. This monitoring schedule may be modified in accordance with Part 6.1.6 if the revised schedule is documented with your SWPPP. However, using NetDMR you must report using a “no data” or “NODI” code for any 3-month interval that you did not take a sample.

6.1.8 Monitoring for Allowable Non-Stormwater Discharges.

You are only required to monitor allowable non-stormwater discharges (as delineated in Part 1.1.3) when they are commingled with stormwater discharges associated with industrial activity.

6.1.9 Monitoring Reports

Monitoring data must be reported using EPA's electronic NetDMR tool at www.epa.gov/netdmr, as described in Part 7.4 (unless a waiver from electronic reporting has been granted from the EPA Regional Office, in which case you may submit a paper DMR form).

6.2 Required Monitoring.

This permit includes five types of required analytical monitoring, one or more of which may apply to your discharge:

- Quarterly benchmark monitoring (see Part 6.2.1);
- Annual effluent limitations guidelines monitoring (see Part 6.2.2);
- State- or tribal-specific monitoring (see Part 6.2.3);

- Impaired waters monitoring (see Part 6.2.4); and
- Other monitoring as required by EPA (see Part 6.2.5).

When more than one type of monitoring for the same pollutant at the same outfall applies (e.g., total suspended solids once per year for an effluent limitation and once per quarter for benchmark monitoring at a given outfall), you may use a single sample to satisfy both monitoring requirements (i.e., one sample satisfying both the annual effluent limitation sample and one of the four quarterly benchmark monitoring samples). When the effluent limitation is lower than the benchmark concentration for the same pollutant, your corrective action trigger is based on an exceedance of the effluent limitation, which would subject you to the corrective action requirements of Part 4.1.

Note: Exceedance of an effluent limitation associated with the results of any analytical monitoring type required by this Part subjects you to the corrective action requirements of Part 4.1.

All required monitoring must be conducted in accordance with the procedures described in Appendix B, Subsection B.10.

6.2.1 Benchmark Monitoring.

This permit specifies pollutant benchmark concentrations that are applicable to certain sectors / subsectors. Benchmark monitoring data are primarily for your use to determine the overall effectiveness of your control measures and to assist you in determining when additional corrective action(s) may be necessary to comply with the effluent limitations in Part 2.

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 your discretion, more than four samples may be taken during separate runoff events and used to determine the average benchmark parameter concentration for facility discharges.

6.2.1.1 *Applicability of Benchmark Monitoring.* You must monitor for any benchmark parameters specified for the industrial sector(s), both primary industrial activity and any co-located industrial activities, applicable to your discharge. Your industry-specific benchmark concentrations are listed in the sector-specific sections of Part 8. If your facility is in one of the industrial sectors subject to benchmark concentrations that are hardness-dependent, you are required to submit to EPA with your NOI a hardness value, established consistent with the procedures in Appendix J, which is representative of your receiving water.

Samples must be analyzed consistent with 40 CFR Part 136 analytical methods and using test procedures with quantitation limits at or below benchmark values for all benchmark parameters for which you are required to sample.

6.2.1.2 *Benchmark Monitoring Schedule.* Benchmark monitoring must be conducted quarterly, as identified in Part 6.1.7, for your first four full quarters of permit coverage commencing no earlier than September 2, 2015.

Facilities in climates with irregular stormwater runoff, as described in Part 6.1.6, may modify this quarterly schedule provided that this revised schedule is reported directly to EPA by the due date of the first benchmark sample (see EPA Regional contacts in Part 7.9.1), and that this revised schedule is kept with the facility's SWPPP as specified in Part 5.5. When conditions prevent you from obtaining four samples in four consecutive quarters, you must continue monitoring until you have the four samples required for calculating your benchmark monitoring average. As noted in Part 6.1.7, you must use NetDMR to report using a "no data" or "NODI" code for any 3-month interval that you did not take a sample.

Data not exceeding benchmarks: After collection of four quarterly samples, if the average of the four monitoring values for any parameter does not exceed the benchmark, you have fulfilled your monitoring requirements for that parameter for the permit term.

Data exceeding benchmarks: After collection of four quarterly samples, if the average of the four monitoring values for any parameter exceeds the benchmark, you must, in accordance with Part 4, review the selection, design, installation, and implementation of your control measures to determine if modifications are necessary to meet the effluent limits in this permit, and either:

- Make the necessary modifications and continue quarterly monitoring until you have completed four additional quarters of monitoring for which the average does not exceed the benchmark; or
- Make a determination that no further pollutant reductions are technologically available and economically practicable and achievable in light of best industry practice to meet the technology-based effluent limits or are necessary to meet the water-quality-based effluent limitations in Parts 2.1 and 2.2 of this permit, in which case you must continue monitoring once per year. You must also document your rationale for concluding that no further pollutant reductions are achievable, and retain all records related to this documentation with your SWPPP.

You must review your control measures and perform any required corrective action immediately (or document why no corrective action is required), per Part 4, without waiting for the full four quarters of monitoring data, when an exceedance of the four quarter average is mathematically certain. If after modifying your control measures and conducting four additional quarters of monitoring, your average still exceeds the benchmark (or if an exceedance of the benchmark by the four quarter average is mathematically certain prior to conducting the full four additional quarters of monitoring), you must again review your control measures and take one of the two actions above.

Natural background pollutant levels: Following the first four quarters of benchmark monitoring (or sooner if the exceedance is triggered by less than four quarters of data; see above), if the average concentration of a pollutant exceeds a benchmark value, and you determine that exceedance of the benchmark is attributable solely to the presence of that pollutant in the natural background, you are not required to perform corrective action or additional benchmark monitoring provided that:

- The average concentration of your benchmark monitoring results is less than or equal to the concentration of that pollutant in the natural background; and

- You document and maintain with your SWPPP, as required in Part 5.5, your supporting rationale for concluding that benchmark exceedances are in fact attributable solely to natural background pollutant levels. You must include in your supporting rationale any data previously collected by you or others (including literature studies) that describe the levels of natural background pollutants in your stormwater discharge.

Natural background pollutants are those substances that are naturally occurring in soils or ground water. Natural background pollutants do not include legacy pollutants from earlier activity on your site, or pollutants in run-on from neighboring sources which are not naturally occurring, such as other industrial sites or roadways. However, the EPA Regional Office may determine that you are eligible to discontinue monitoring for pollutants that occur solely from run-on sources.

6.2.1.3 *Exception for Inactive and Unstaffed Sites.* The requirement for benchmark monitoring does not apply at a facility that is inactive and unstaffed, provided that there are no industrial materials or activities exposed to stormwater. To invoke this exception, you must do the following:

- Maintain a statement with your SWPPP stating that the site is inactive and unstaffed, and that there are no industrial materials or activities exposed to stormwater in accordance with the substantive requirements in 40 CFR 122.26(g) and sign and certify the statement in accordance with Appendix B, Subsection 11.
- If circumstances change and industrial materials or activities become exposed to stormwater or your facility becomes active and/or staffed, this exception no longer applies and you must immediately begin complying with the applicable benchmark monitoring requirements under Part 6.2 as if you were in your first year of permit coverage. You must indicate in your NOI that your facility has materials or activities exposed to stormwater or has become active and/or staffed.
- If you are not qualified for this exception at the time you are authorized under this permit, but during the permit term you become qualified because your facility is inactive and unstaffed, and there are no industrial materials or activities that are exposed to stormwater, then you must notify EPA of this change on your NOI form. You may discontinue benchmark monitoring once you have notified EPA, and prepared and signed the certification statement described above concerning your facility's qualification for this special exception.

Note: This exception has different requirements for Sectors G, H, and J (see Part 8).

6.2.2 Effluent Limitations Monitoring.

6.2.2.1 *Monitoring Based on Effluent Limitations Guidelines.* Table 6-1 identifies the stormwater discharges subject to effluent limitation guidelines that are authorized for coverage under this permit. An exceedance of the effluent limitation is a permit violation. Beginning in the first full quarter following September 2, 2015 or your date of discharge authorization, whichever date comes later, you must monitor once per year at each outfall containing the discharges identified in Table 6-1 for the parameters specified in the sector-specific section of Part 8.

Table 6-1. Required Monitoring for Effluent Limits Based on Effluent Limitations Guidelines

Regulated Activity	Effluent Limit	Monitoring Frequency	Sample Type
Discharges resulting from spray down or intentional wetting of logs at wet deck storage areas	See Part 8.A.7	1/year	Grab
Runoff from phosphate fertilizer manufacturing facilities that comes into contact with any raw materials, finished product, by-products or waste products (SIC 2874)	See Part 8.C.4	1/year	Grab
Runoff from asphalt emulsion facilities	See Part 8.D.4	1/year	Grab
Runoff from material storage piles at cement manufacturing facilities	See Part 8.E.5	1/year	Grab
Mine dewatering discharges at crushed stone, construction sand and gravel, or industrial sand mining facilities	See Part 8.J.9	1/year	Grab
Runoff from hazardous waste landfills	See Part 8.K.6	1/year	Grab
Runoff from non-hazardous waste landfills	See Part 8.L.10	1/year	Grab
Runoff from coal storage piles at steam electric generating facilities	See Part 8.O.8	1/year	Grab
Runoff containing urea from airfield pavement deicing at existing and new primary airports with 1,000 or more annual non-propeller aircraft departures.	See Part 8.S.8	1/year	Grab

6.2.2.2 *Substantially Identical Outfalls.* You must monitor each outfall discharging runoff from any regulated activity identified in Table 6-1. The substantially identical outfall monitoring provisions are not available for numeric effluent limits monitoring.

6.2.2.3 *Follow-up Actions if Discharge Exceeds Numeric Effluent Limitation.* If any monitoring value exceeds a numeric effluent limitation contained in this permit, you must indicate the exceedance on a "Change NOI" form in the NPDES eReporting Tool (NeT), and you must conduct follow-up monitoring within 30 calendar days (or during the next qualifying runoff event, should none occur within 30 days) of implementing corrective action(s) taken per Part 4. When your follow-up monitoring exceeds the applicable effluent limitation, you must:

- **Submit an Exceedance Report:** You must submit an Exceedance Report no later than 30 days after you have received your laboratory result consistent with Part 7.6; and
- **Continue to Monitor:** You must monitor, at least quarterly, until your discharge is in compliance with the effluent limit or until EPA waives the requirement for additional monitoring. Once your discharge is back in compliance with the effluent limitation you must indicate this on a "Change NOI" form per Part 7.4.

6.2.3 **State or Tribal Monitoring Provisions.**

6.2.3.1 *Sectors Required to Conduct State or Tribal Monitoring.* You must comply with any state or tribal monitoring requirements (see Part 9) applicable to your facility's location.

6.2.3.2 *State or Tribal Monitoring Schedule.* If a monitoring frequency is not specified for an applicable requirement in Part 9, you must monitor once per year for the entire permit term.

6.2.4 Discharges to Impaired Waters Monitoring.

Note: For the purposes of this permit, your project is considered to discharge to an impaired water if the first water of the U.S. to which you discharge is identified by a state, tribe, or EPA pursuant to section 303(d) of the CWA as not meeting an applicable water quality standard, or has been removed from the 303(d) list either because the impairments are addressed by an EPA-approved or established TMDL or is covered by pollution control requirements that meet the requirements of 40 CFR 130.7(b)(1). For discharges that enter a separate storm sewer system⁴ prior to discharge, the first water of the U.S. to which you discharge is the waterbody that receives the stormwater discharge from the storm sewer system.

6.2.4.1 Permittees Required to Monitor Discharges to Impaired Waters.

Discharges to impaired waters without an EPA-approved or established TMDL:

Beginning in the first full quarter following September 2, 2015 or your date of discharge authorization, whichever date comes later, you must monitor all pollutants for which the waterbody is impaired and for which a standard analytical method exists (see 40 CFR Part 136) once per year at each outfall (except substantially identical outfalls) discharging stormwater to impaired waters without an EPA-approved or established TMDL.

If the pollutant of concern for the impaired waterbody is suspended solids, turbidity or sediment/sedimentation, you must monitor for Total Suspended Solids (TSS). If a pollutant of concern is expressed in the form of an indicator or surrogate pollutant, you must monitor for that indicator or surrogate pollutant. No monitoring is required when a waterbody's biological communities are impaired but no pollutant, including indicator or surrogate pollutants, is specified as causing the impairment, or when a waterbody's impairment is related to hydrologic modifications, impaired hydrology, or other non-pollutant. Permittees should consult the appropriate EPA Regional Office for any available guidance regarding required monitoring parameters under this part.

If the pollutant of concern is not detected and not expected to be present in your discharge, or it is detected but you have determined that its presence is caused solely by natural background sources, you may discontinue monitoring for that pollutant. To support a determination that the pollutant's presence is caused solely by natural background sources, you must document and maintain with your SWPPP, as required by Part 5.5:

- An explanation of why you believe that the presence of the pollutant of concern in your discharge is not related to the activities or materials at your facility; and
- Data and/or studies that tie the presence of the pollutant of concern in your discharge to natural background sources in the watershed.

Natural background pollutants include those that occur naturally as a result of native soils, and vegetation, wildlife, or ground water. Natural background pollutants do not include legacy pollutants from earlier activity on your site, or pollutants in run-on from neighboring sources that are not naturally occurring. However, you may be eligible to discontinue annual monitoring for pollutants that

⁴ Separate storm systems do not include combined sewer systems or sanitary sewer systems. Separate storm systems include both municipal storm sewer systems (MS4s) and non-municipal separate storm sewers.

occur solely from these sources and should consult the appropriate EPA Regional Office for related guidance.

Discharges to impaired waters with an EPA-approved or established TMDL: For stormwater discharges to waters for which there is an EPA-approved or established TMDL, you are not required to monitor for the pollutant(s) for which the TMDL was written unless EPA informs you, upon examination of the applicable TMDL and its wasteload allocation, that you are subject to such a requirement consistent with the assumptions and requirements of the applicable TMDL and its wasteload allocation. EPA's notice will include specifications on monitoring parameters and frequency. Permittees must consult the appropriate EPA Regional Office for guidance regarding required monitoring under this Part.

6.2.4.2 *Exception for Inactive and Unstaffed Sites.* The requirement for impaired waters monitoring does not apply at a facility that is inactive and unstaffed, as long as there are no industrial materials or activities exposed to stormwater. To invoke this exception, you must do the following:

- Maintain a statement with your SWPPP stating that the site is inactive and unstaffed, and that there are no industrial materials or activities exposed to stormwater in accordance with the substantive requirements in 40 CFR 122.26(g) and sign and certify the statement in accordance with Appendix B, Subsection 11.
- If circumstances change and industrial materials or activities become exposed to stormwater or your facility becomes active and/or staffed, this exception no longer applies and you must immediately begin complying with the applicable impaired waters monitoring requirements under Part 6.2 as if you were in your first year of permit coverage. You must indicate in a "Change NOI" form per Part 7.4 that your facility has materials or activities exposed to stormwater or has become active and/or staffed.
- If you are not qualified for this exception at the time you are authorized under this permit, but during the permit term you become qualified because your facility is inactive and unstaffed, and there are no industrial materials or activities that are exposed to stormwater, then you must notify EPA of this change on your NOI form. You may discontinue impaired waters monitoring once you have notified EPA, and prepared and signed the certification statement described above concerning your facility's qualification for this special exception.

Note: This exception has different requirements for Sectors G, H, and J (see Part 8).

6.2.5 Additional Monitoring Required by EPA.

EPA may notify you of additional discharge monitoring requirements that EPA determines are necessary to meet the permit's effluent limitations. Any such notice will briefly state the reasons for the monitoring, locations, and parameters to be monitored, frequency and period of monitoring, sample types, and reporting requirements.

7. Reporting and Recordkeeping.

7.1 Electronic Reporting Requirement.

You must submit all NOIs, NOTs, NOEs, Annual Reports, Discharge Monitoring Reports (DMRs), and other reporting information as appropriate electronically, unless you have received a waiver from your EPA Regional Office based on one of the following conditions:

- If your headquarters is physically located in a geographic area (i.e., zip code or census tract) that is identified as under-served for broadband Internet access in the most recent report from the Federal Communications Commission; or
- If you have limitations regarding available computer access or computer capability.

Waivers are only granted for a one-time use for a single information submittal, i.e., an initial waiver does not apply for the entire term of the permit. If you need to submit information on paper after your first waiver, you must apply for a new waiver. However, waivers may be extended on a case-by-case basis by the EPA Regional Office.

If you wish to obtain a waiver from submitting a report electronically, you must submit a request to your EPA Regional Office. EPA Regional Office contact information can be found in Part 7.9.1 of this permit. In that request you must document which exemption you meet, provide evidence supporting any claims, and a copy of your completed NOI form. A waiver may only be considered granted once you receive written confirmation from EPA or its authorized representative.

7.2 Submitting Information to EPA.

Most information required to be submitted by this permit shall be submitted via EPA's electronic NPDES eReporting tool (NeT), unless the permit states otherwise or unless a waiver has been granted per Part 7.1. NeT allows you to both prepare and submit required information using specific forms, found in the permit's appendices. To access NeT, go to <http://water.epa.gov/polwaste/npdes/stormwater/Stormwater-eNOI-System-for-EPAs-MultiSector-General-Permit.cfm>.

Information required to be submitted to EPA via NeT:

- Notice of Intent (Part 1.2);
- No Exposure Certification (Part 1.4);
- Notice of Termination (Part 1.3); and
- Annual Report (Part 7.5).

Note: Discharge Monitoring Reports (see Part 7.4) are required to be submitted using EPA's NetDMR system, available at www.epa.gov/netdmr.

If you are given a waiver by the EPA Regional Office to submit information in paper form, you must utilize the required forms found in the Appendices.

Information required to be submitted to an EPA Regional Office at the address in Part 7.9.1:

- New Dischargers and New Sources to Water Quality-Impaired Waters (Part 1.1.4.8);

- Exceedance Report for Numeric Effluent Limitations (Part 7.6); and
- Additional Reporting (Part 7.7)

7.3 Additional SWPPP Information Required in Your NOI.

If you did not provide a SWPPP URL in your NOI per Part 5.4.1, your NOI must include the additional SWPPP information as follows:

- Onsite industrial activities exposed to stormwater, including potential spill and leak areas (see Parts 5.2.3.1, 5.2.3.3 and 5.2.3.5);
- Pollutants or pollutant constituents associated with each industrial activity exposed to stormwater that could be discharged in stormwater and/or any authorized non-stormwater discharges listed in Part 1.1.3 (see Part 5.2.3.2);
- Stormwater control measures you employ to comply with the non-numeric technology-based effluent limits required in Part 2.1.2 and Part 8, and any other measures taken to comply with the requirements in Part 2.2 Water Quality - Based Effluent Limitations (see Part 5.2.4). If you use polymers and/or other chemical treatments as part of your controls, you must identify the polymers and/or chemicals used and the purpose; and
- Schedule for good housekeeping and maintenance (see Part 5.2.5.1) and schedule for all inspections required in Part 3 (see Part 5.2.5.2).

7.4 Reporting Monitoring Data to EPA.

All monitoring data collected pursuant to Part 6.2 must be submitted to EPA using EPA's NetDMR system (available at www.epa.gov/netdmr) (unless a waiver from electronic reporting has been granted, in which case you may submit a paper DMR form) no later than 30 days after you have received your complete laboratory results for all monitoring outfalls for the reporting period. Your monitoring requirements (i.e., parameters required to be monitored and sample frequency) will be prepopulated on your electronic Discharge Monitoring Report (DMR) form based on the information you reported on your NOI form (through the NDPES eReporting tool (NeT)). Accordingly, the following changes to your monitoring frequency must be reported to EPA through the submittal of a "Change NOI" form in NeT, which will trigger changes to your monitoring requirements in NetDMR:

- All benchmark monitoring requirements have been fulfilled for the permit term;
- All impaired waters monitoring requirements have been fulfilled for the permit term;
- Benchmark and/or impaired monitoring requirements no longer apply because your facility is inactive and unstaffed;
- Benchmark and/or impaired monitoring requirements now apply because your facility has changed from inactive and unstaffed to active and staffed;
- For Sector G2 only: Discharges from waste rock and overburden piles have exceeded benchmark values;
- A numeric effluent limitation guideline has been exceeded;
- A numeric effluent limitation guideline exceedance is back in compliance.

Once monitoring requirements have been completely fulfilled, you are no longer required to report monitoring results using NetDMR. If you have only partially fulfilled your benchmark monitoring and/or impaired waters monitoring requirements (e.g., your four

quarterly average is below the benchmark for some, but not all, parameters; you did not detect some, but not all, impairment pollutants), you must continue to use NetDMR to report your results, but you must report a “no data” or “NODI” code for any monitoring parameters that have been fulfilled.

If you have received a waiver per Part 7.1, paper reporting forms must be submitted by the same deadline.

See Part 9 for specific reporting requirements applicable to individual states or tribes.

For benchmark monitoring, note that you are required to submit sampling results to EPA no later than 30 days after receiving your complete laboratory results for all monitored outfalls for each quarter that you are required to collect benchmark samples, per Part 6.2.1.2. If you collect samples during multiple storm events in a single quarter (e.g., due to adverse weather conditions, climates with irregular stormwater runoff, or areas subject to snow), you are required to submit all sampling results for each storm event to EPA within 30 days of receiving all laboratory results for the event. Or, for any of your monitored outfalls that did not have a discharge within the reporting period, using NetDMR you must report using a “no data” or “NODI” code for that outfall no later than 30 days after the end of the reporting period.

7.5 Annual Report.

You must submit an Annual Report to EPA electronically, per Part 7.2, by January 30th for each year of permit coverage containing information generated from the past calendar year. You must include the following information:

- A summary of your past year’s routine facility inspection documentation required (Part 3.1.2). In addition, if you are an operator of an airport facility (Sector S) that is subject to the airport effluent limitations guidelines, and are complying with the Part 8.S.8.1 effluent limitation through the use of non-urea-containing deicers, provide a statement certifying that you do not use pavement deicers containing urea. (Note: Operators of airport facilities that are complying with Part 8.S.8.1 by meeting the numeric effluent limitation for ammonia do not need to include this statement.)
- A summary of your past year’s quarterly visual assessment documentation (see Part 3.2.2 of the permit);
- For any four-sample (minimum) average benchmark monitoring exceedance, if after reviewing the selection, design, installation, and implementation of your control measures and considering whether any modifications are necessary to meet the effluent limits in the permit, you determine that no further pollutant reductions are technologically available and economically practicable and achievable in light of best industry practice, your rationale for why you believe no further reductions are achievable (see Part 6.2.1.2 of the permit); and
- A summary of your past year’s corrective action documentation (see Part 4.4). If corrective action is not yet completed at the time of submission of your annual report, you must describe the status of any outstanding corrective action(s). Also describe any incidents of noncompliance in the past year or currently ongoing, or if none, provide a statement that you are in compliance with the permit.

Your Annual Report must also include a statement, signed and certified in accordance with Appendix B, Subsection 11.

7.6 Exceedance Report for Numeric Effluent Limitations.

If follow-up monitoring per Part 6.2.2.3 exceeds a numeric effluent limit, you must submit an Exceedance Report to EPA no later than 30 days after you have received your laboratory results. Your report must include the following:

- NPDES ID;
- Facility name, physical address and location;
- Name of receiving water;
- Monitoring data from this and the preceding monitoring event(s);
- An explanation of the situation, including what you have done and intend to do (should your corrective actions not yet be complete) to correct the violation;
- An appropriate contact name and phone number.

Send the Exceedance Report to the appropriate EPA Regional Office listed in Part 7.9.1, and report the monitoring data through NetDMR

7.7 Additional Reporting.

In addition to the reporting requirements stipulated in Part 7, you are also subject to the standard permit reporting provisions of Appendix B, Subsection 12.

You must submit the following reports to the appropriate EPA Regional Office listed in Part 7.9.1, as applicable. If you discharge through an MS4, you must also submit these reports to the MS4 operator (identified pursuant to Part 5.2.2).

- 24-hour reporting (see Appendix B, Subsection 12.F) – You must report any noncompliance which may endanger health or the environment. Any information must be provided orally within 24 hours from the time you become aware of the circumstances;
- 5-day follow-up reporting to the 24 hour reporting (see Appendix B, Subsection 12.F) – A written submission must also be provided within five days of the time you become aware of the circumstances;
- Reportable quantity spills (see Part 2.1.2.4) – You must provide notification, as required under Part 2.1.2.4, as soon as you have knowledge of a leak, spill, or other release containing a hazardous substance or oil in an amount equal to or in excess of a reportable quantity;
- Planned changes (see Appendix B, Subsection 12.A) – You must give notice to EPA promptly, no fewer than 30 days prior to making any planned physical alterations or additions to the permitted facility that qualify the facility as a new source or that could significantly change the nature or significantly increase the quantity of pollutants discharged;
- Anticipated noncompliance (see Appendix B, Subsection 12.B) – You must give advance notice to EPA of any planned changes in the permitted facility or activity which you anticipate will result in noncompliance with permit requirements;

- Compliance schedules (see Appendix B, Subsection 12.F) – Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit must be submitted no later than 14 days following each schedule date;
- Other noncompliance (see Appendix B, Subsection 12.G) – You must report all instances of noncompliance not reported in your annual report, compliance schedule report, or 24-hour report at the time monitoring reports are submitted; and
- Other information (see Appendix B, Subsection 12.H) – You must promptly submit facts or information if you become aware that you failed to submit relevant facts in your NOI, or that you submitted incorrect information in your NOI or in any report.

7.8 Recordkeeping.

You must retain copies of your SWPPP (including any modifications made during the term of this permit), additional documentation requirements pursuant to Part 5.5 (including documentation related to corrective actions taken pursuant to Part 4), 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, for a period of at least three years from the date that your coverage under this permit expires or is terminated.

7.9 Addresses for Reports.

7.9.1 EPA Addresses.

7.9.1.1 *Region 1: Connecticut, Massachusetts, and New Hampshire, Rhode Island, Vermont.*

U.S. EPA Region 1
Office of Ecosystem Protection
Stormwater and Construction Permits Section
5 Post Office Square, Suite 100
(OEP 06-1)
Boston, MA 02109-3912

7.9.1.2 *Region 2: New Jersey, New York, Puerto Rico, and Virgin Islands.*

For Puerto Rico and the Virgin Islands

U.S. EPA Region 2
Caribbean Environmental Protection Division
NPDES Stormwater Program
City View Plaza II – Suite 7000
48 Rd. 165 Km 1.2
Guaynabo, PR 00968-8069

For New Jersey and New York:

(Coverage not available under this permit.)
U.S. EPA Region 2
NPDES Stormwater Program
290 Broadway, 24th Floor
New York, NY 10007-1866

- 7.9.1.3** ***Region 3: Delaware, District of Columbia, Maryland, Pennsylvania, Virginia, West Virginia.***
U.S. EPA Region 3
Office of NPDES Permits and Enforcement
NPDES Permits Branch, Mailcode 3WP41
1650 Arch Street
Philadelphia, PA 19103
- 7.9.1.4** ***Region 4: Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee.***
(Coverage not available under this permit.)

U.S. EPA Region 4
Water Protection Division
NPDES Stormwater Program
Atlanta Federal Center
61 Forsyth Street SW
Atlanta, GA 30303-3104
- 7.9.1.5** ***Region 5: Illinois, Indiana, Michigan, Minnesota, Ohio, Wisconsin.***
U.S. EPA Region 5
NPDES Program Branch
77 W. Jackson Blvd.
Mail Code WN16J
Chicago, IL 60604-3507
- 7.9.1.6** ***Region 6: Arkansas, Louisiana, Oklahoma, Texas, and New Mexico (except see Region 9 for Navajo lands, and see Region 8 for Ute Mountain Reservation lands).***
U.S. EPA Region 6
NPDES Stormwater Program (WQ-PP)
1445 Ross Avenue, Suite 1200
Dallas, TX 75202-2733
- 7.9.1.7** ***Region 7: Iowa, Kansas, Missouri, Nebraska.***
U.S. EPA Region 7
NPDES Stormwater Program
11201 Renner Blvd
Lenexa, KS 66219
- 7.9.1.8** ***Region 8: Colorado, Montana, North Dakota, South Dakota, Wyoming, Utah (except see Region 9 for Goshute Reservation and Navajo Reservation lands), the Ute Mountain Reservation in New Mexico, and the Pine Ridge Reservation in Nebraska.***

EPA Region 8 Storm Water Program
Mailcode: 8P-W-WW
1595 Wynkoop Street
Denver, CO 80202-1129
- 7.9.1.9** ***Region 9: Arizona, California, Hawaii, Nevada, Guam, American Samoa, the Commonwealth of the Northern Mariana Islands, the Goshute Reservation in Utah***

and Nevada, the Navajo Reservation in Utah, New Mexico, and Arizona, the Duck Valley Reservation in Idaho, Fort McDermitt Reservation in Oregon.

U.S. EPA Region 9
Water Division
NPDES Stormwater Program (WTR-2-3)
75 Hawthorne Street
San Francisco, CA 94105-3901

7.9.1.10 *Region 10: Alaska, Idaho, Oregon (except see Region 9 for Fort McDermitt Reservation), Washington.*

U.S. EPA Region 10
NPDES Stormwater Program
1200 6th Avenue (OWW-191)
Seattle, WA 98101-3140

7.9.2 State and Tribal Addresses.

See Part 9 (states and tribes) for the addresses of applicable states or tribes that require submission of information to their agencies.

Part 8 – Sector-Specific Requirements for Industrial Activity

Subpart L – Sector L – Landfills, Land Application Sites, and Open Dumps.

You must comply with Part 8 sector-specific requirements associated with your primary industrial activity and any co-located industrial activities, as defined in Appendix A. The sector-specific requirements apply to those areas of your facility where those sector-specific activities occur. These sector-specific requirements are in addition to any requirements specified elsewhere in this permit.

8.L.1 Covered Stormwater Discharges.

The requirements in Subpart L apply to stormwater discharges associated with industrial activity from Landfills and Land Application Sites as identified by the Activity Code specified under Sector L in Table D-1 of Appendix D of the permit.

8.L.2 Industrial Activities Covered by Sector L.

This permit may authorize stormwater discharges for Sector L facilities associated with waste disposal at landfills, land application sites that receive or have received industrial waste, including sites subject to regulation under Subtitle D of RCRA. This permit does not cover discharges from landfills that receive only municipal wastes.

8.L.3 Limitations on Coverage.

8.L.3.1 *Prohibition of Non-Stormwater Discharges.* (See also Part 1.1.4) The following discharges are not authorized by this permit: leachate, gas collection condensate, drained free liquids, contaminated ground water, laboratory wastewater, and contact wash water from washing truck and railcar exteriors and surface areas that have come in direct contact with solid waste at the landfill facility. (EPA includes these prohibited non-stormwater discharges here solely as a helpful reminder to the operator that the only non-stormwater discharges authorized by this permit are at Part 1.1.3.)

8.L.3.2 *Prohibition Stormwater Discharges from Open Dumps.* Discharges from open dumps as defined under RCRA are also not authorized under this permit.

8.L.4 Definitions.

8.L.4.1 *Contaminated stormwater* – stormwater that comes into direct contact with landfill wastes, the waste handling and treatment areas, or landfill wastewater. Some areas of a landfill that may produce contaminated stormwater include (but are not limited to) the open face of an active landfill with exposed waste (no cover added); the areas around wastewater treatment operations; trucks, equipment, or machinery that has been in direct contact with the waste; and waste dumping areas.

8.L.4.2 *Drained free liquids* – aqueous wastes drained from waste containers (e.g., drums) prior to landfilling.

8.L.4.3 *Landfill wastewater* – as defined in 40 CFR Part 445 (Landfills Point Source Category) all wastewater associated with, or produced by, landfilling activities except for sanitary wastewater, non-contaminated stormwater, contaminated ground water, and wastewater from recovery pumping wells. Landfill process wastewater includes, but is not limited to, leachate; gas collection condensate; drained free liquids; laboratory-derived wastewater; contaminated stormwater; and contact wash water from washing truck, equipment, and railcar exteriors and surface areas that have come in direct contact with solid waste at the landfill facility.

8.L.4.4 *Leachate* – liquid that has passed through or emerged from solid waste and contains soluble, suspended, or miscible materials removed from such waste.

- 8.L.4.5 *Non-contaminated stormwater*** – stormwater that does not come into direct contact with landfill wastes, the waste handling and treatment areas, or landfill wastewater. Non-contaminated stormwater includes stormwater that flows off the cap, cover, intermediate cover, daily cover, and/or final cover of the landfill.
- 8.L.5 Additional Technology-Based Effluent Limits.**
- 8.L.5.1 *Preventive Maintenance Program.*** (See also Part 2.1.2.3) As part of your preventive maintenance program, maintain the following: all elements of leachate collection and treatment systems, to prevent commingling of leachate with stormwater; the integrity and effectiveness of any intermediate or final cover (including repairing the cover as necessary), to minimize the effects of settlement, sinking, and erosion.
- 8.L.5.2 *Erosion and Sedimentation Control.*** (See also Part 2.1.2.5) Provide temporary stabilization (e.g., temporary seeding, mulching, and placing geotextiles on the inactive portions of stockpiles) for the following in order to minimize discharges of pollutants in stormwater: materials stockpiled for daily, intermediate, and final cover; inactive areas of the landfill or open dump; landfills or open dump areas that have gotten final covers but where vegetation has yet to establish itself; and land application sites where waste application has been completed but final vegetation has not yet been established.
- 8.L.6 Additional SWPPP Requirements.**
- 8.L.5.1 *Drainage Area Site Map.*** (See also Part 5.2.2) Document in your SWPPP where any of the following may be exposed to precipitation or surface runoff: active and closed landfill cells or trenches, active and closed land application areas, locations where open dumping is occurring or has occurred, locations of any known leachate springs or other areas where uncontrolled leachate may commingle with runoff, and leachate collection and handling systems.
- 8.L.5.2 *Summary of Potential Pollutant Sources.*** (See also Part 5.2.3) Document in your SWPPP the following sources and activities that have potential pollutants associated with them: fertilizer, herbicide, and pesticide application; earth and soil moving; waste hauling and loading or unloading; outdoor storage of significant materials, including daily, interim, and final cover material stockpiles as well as temporary waste storage areas; exposure of active and inactive landfill and land application areas; uncontrolled leachate flows; and failure or leaks from leachate collection and treatment systems.
- 8.L.7 Additional Inspection Requirements.** (See also Part 3)
- 8.L.7.1 *Inspections of Active Sites.*** Except in arid and semi-arid climates, inspect operating landfills, open dumps, and land application sites at least once every 7 days. Focus on areas of landfills that have not yet been finally stabilized; active land application areas, areas used for storage of material and wastes that are exposed to precipitation, stabilization, and structural control measures; leachate collection and treatment systems; and locations where equipment and waste trucks enter and exit the site. Ensure that sediment and erosion control measures are operating properly. For stabilized sites and areas where land application has been completed, or where the climate is arid or semi-arid, conduct inspections at least once every month.
- 8.L.7.2 *Inspections of Inactive Sites.*** Inspect inactive landfills, open dumps, and land application sites at least quarterly. Qualified personnel must inspect landfill (or open dump) stabilization and structural erosion control measures, leachate collection and treatment systems, and all closed land application areas.

8.L.8 Additional Post-Authorization Documentation Requirements.

8.L.8.1 *Recordkeeping and Internal Reporting.* Keep records with your SWPPP of the types of wastes disposed of in each cell or trench of a landfill or open dump. For land application sites, track the types and quantities of wastes applied in specific areas.

8.L.9 Sector-Specific Benchmarks. (See also Part 6)

Table 8.L-1 identifies benchmarks that apply to the specific subsectors of Sector L. These benchmarks apply to both your primary industrial activity and any co-located industrial activities.

Subsector (You may be subject to requirements for more than one sector/subsector)	Parameter	Benchmark Monitoring Concentration¹
Subsector L1. All Landfill, Land Application Sites and Open Dumps (Industrial Activity Code "LF")	Total Suspended Solids (TSS)	100 mg/L
Subsector L2. All Landfill, Land Application Sites and Open Dumps, except Municipal Solid Waste Landfill (MSWLF) Areas Closed in Accordance with 40 CFR 258.60 (Industrial Activity Code "LF")	Total Iron	1.0 mg/L

¹Benchmark monitoring required only for discharges not subject to effluent limitations in 40 CFR Part 445 Subpart B (see Table L-2 below).

8.L.10. Effluent Limitations Based on Effluent Limitations Guidelines. (See also Part 6.2.2.1)

Table 8.L-2 identifies effluent limitations that apply to the industrial activities described below. Compliance with these effluent limitations is to be determined based on discharges from these industrial activities independent of commingling with any other waste streams that may be covered under this permit.

Industrial Activity	Parameter	Effluent Limitation
Discharges from non-hazardous waste landfills subject to effluent limitations in 40 CFR Part 445 Subpart B.	Biochemical Oxygen Demand (BOD ₅)	140 mg/L, daily maximum
		37 mg/L, monthly avg. maximum
	Total Suspended Solids (TSS)	88 mg/L, daily maximum
		27 mg/L, monthly avg. maximum
	Ammonia	10 mg/L, daily maximum
		4.9 mg/L, monthly avg. maximum
	Alpha Terpineol	0.033 mg/L, daily maximum
		0.016 mg/L monthly avg. maximum
	Benzoic Acid	0.12 mg/L, daily maximum
		0.071 mg/L, monthly avg. maximum
	p-Cresol	0.025 mg/L, daily maximum
		0.014 mg/L, monthly avg. maximum

Industrial Activity	Parameter	Effluent Limitation
	Phenol	0.026 mg/L, daily maximum
		0.015 mg/L, monthly avg. maximum
	Total Zinc	0.20 mg/L, daily maximum
		0.11 mg/L, monthly avg. maximum
pH	Within the range of 6-9 standard pH units (s.u.)	

¹ Monitor annually. As set forth at 40 CFR Part 445 Subpart B, these numeric limitations apply to contaminated stormwater discharges from MSWLFs that have not been closed in accordance with 40 CFR 258.60, and to contaminated stormwater discharges from those landfills that are subject to the provisions of 40 CFR Part 257 except for discharges from any of the following facilities:

- (a) landfills operated in conjunction with other industrial or commercial operations, when the landfill receives only wastes generated by the industrial or commercial operation directly associated with the landfill;
- (b) landfills operated in conjunction with other industrial or commercial operations, when the landfill receives wastes generated by the industrial or commercial operation directly associated with the landfill and also receives other wastes, provided that the other wastes received for disposal are generated by a facility that is subject to the same provisions in 40 CFR Subchapter N as the industrial or commercial operation, or that the other wastes received are of similar nature to the wastes generated by the industrial or commercial operation;
- (c) landfills operated in conjunction with CWT facilities subject to 40 CFR Part 437, so long as the CWT facility commingles the landfill wastewater with other non-landfill wastewater for discharge. A landfill directly associated with a CWT facility is subject to this part if the CWT facility discharges landfill wastewater separately from other CWT wastewater or commingles the wastewater from its landfill only with wastewater from other landfills; or
- (d) landfills operated in conjunction with other industrial or commercial operations when the landfill receives wastes from public service activities, so long as the company owning the landfill does not receive a fee or other remuneration for the disposal service.

Part 8 – Sector-Specific Requirements for Industrial Activity

Subpart N – Sector N – Scrap Recycling and Waste Recycling Facilities.

You must comply with Part 8 sector-specific requirements associated with your primary industrial activity and any co-located industrial activities, as defined in Appendix A. The sector-specific requirements apply to those areas of your facility where those sector-specific activities occur. These sector-specific requirements are in addition to any requirements specified elsewhere in this permit.

8.N.1 Covered Stormwater Discharges.

The requirements in Subpart N apply to stormwater discharges associated with industrial activity from Scrap Recycling and Waste Recycling facilities as identified by the SIC Code specified under Sector N in Table D-1 of Appendix D of the permit.

8.N.2 Limitation on Coverage.

Separate permit requirements have been established for recycling facilities that receive, process, and do wholesale distribution of only source-separated recyclable materials primarily from non-industrial and residential sources (i.e., common consumer products including paper, newspaper, glass, cardboard, plastic containers, and aluminum and tin cans). This includes recycling facilities commonly referred to as material recovery facilities (MRF). See Part 8.N.3.3.

8.N.2.1 *Prohibition of Non-Stormwater Discharges.* (See also Part 1.1.4) Non-stormwater discharges from turnings containment areas are not covered by this permit (see also Part 8.N.3.1.3). Discharges from containment areas in the absence of a storm event are prohibited unless covered by a separate NPDES permit. (EPA includes these prohibited non-stormwater discharges here solely as a helpful reminder to the operator that the only non-stormwater discharges authorized by this permit are at Part 1.1.3.)

8.N.3 Additional Technology-Based Effluent Limits.

8.N.3.1 *Scrap and Waste Recycling Facilities (Non-Source Separated, Nonliquid Recyclable Materials).* The following requirements are for facilities that receive, process, and do wholesale distribution of non-source separated, nonliquid recyclable wastes (e.g., ferrous and nonferrous metals, plastics, glass, cardboard, and paper). These facilities may receive both nonrecyclable and recyclable materials. This section is not intended for those facilities that accept recyclables only from primarily non-industrial and residential sources.

8.N.3.1.1 *Inbound Recyclable and Waste Material Control Program.* Minimize the chance of accepting materials that could be significant sources of pollutants by conducting inspections of inbound recyclables and waste materials and through implementation of control measures such as the following, where determined to be feasible (list not exclusive): providing information and education to suppliers of scrap and recyclable waste materials on draining and properly disposing of residual fluids (e.g., from vehicles and equipment engines, radiators and transmissions, oil filled transformers, and individual containers or drums) and removal of mercury switches from vehicles before delivery to your facility; establishing procedures to minimize the potential of any residual fluids from coming into contact with precipitation or runoff; establishing procedures for accepting scrap lead-acid batteries (additional requirements for the handling, storage, and disposal or recycling of batteries are contained in the scrap lead-acid battery program provisions in Part 8.N.3.1.6); providing training targeted for those personnel engaged in the inspection and acceptance of inbound recyclable materials; and

establishing procedures to ensure that liquid wastes, including used oil, are stored in materially compatible and non-leaking containers and are disposed of or recycled in accordance with the Resource Conservation and Recovery Act (RCRA).

- 8.N.3.1.2 *Scrap and Waste Material Stockpiles and Storage (Outdoor)*.** Minimize contact of stormwater runoff with stockpiled materials, processed materials, and nonrecyclable wastes through implementation of control measures such as the following, where determined to be feasible (list not exclusive): permanent or semi-permanent covers; sediment traps, vegetated swales and strips, catch basin filters, and sand filters to facilitate settling or filtering of pollutants; dikes, berms, containment trenches, culverts, and surface grading to divert runoff from storage areas; silt fencing; and oil and water separators, sumps, and dry absorbents for areas where potential sources of residual fluids are stockpiled (e.g., automobile engine storage areas).
- 8.N.3.1.3 *Stockpiling of Turnings Exposed to Cutting Fluids (Outdoor Storage)*.** Minimize contact of surface runoff with residual cutting fluids by storing all turnings exposed to cutting fluids under some form of permanent or semi-permanent cover, or establishing dedicated containment areas for all turnings that have been exposed to cutting fluids. Any containment areas must be constructed of concrete, asphalt, or other equivalent types of impermeable material and include a barrier (e.g., berms, curbing, elevated pads) to prevent contact with stormwater run-on. Stormwater runoff from these areas can be discharged, provided that any runoff is first collected and treated by an oil and water separator or its equivalent. You must regularly maintain the oil and water separator (or its equivalent) and properly dispose of or recycle collected residual fluids.
- 8.N.3.1.4 *Scrap and Waste Material Stockpiles and Storage (Covered or Indoor Storage)*.** Minimize contact of residual liquids and particulate matter from materials stored indoors or under cover with surface runoff through implementation of control measures such as the following, where determined to be feasible (list not exclusive): good housekeeping measures, including the use of dry absorbents or wet vacuuming to contain, dispose of, or recycle residual liquids originating from recyclable containers, and mercury spill kits for spills from storage of mercury switches; not allowing wash water from tipping floors or other processing areas to discharge to the storm sewer system; and disconnecting or sealing off all floor drains connected to the storm sewer system.
- 8.N.3.1.5 *Scrap and Recyclable Waste Processing Areas*.** Minimize surface runoff from coming in contact with scrap processing equipment. Pay attention to operations that generate visible amounts of particulate residue (e.g., shredding) to minimize the contact of accumulated particulate matter and residual fluids with runoff (i.e., through good housekeeping, preventive maintenance). To minimize discharges of pollutants in stormwater from scrap and recyclable waste processing areas, implement control measures such as the following, where determined to be feasible (list not exclusive): at least once per month inspecting equipment for spills or leaks and malfunctioning, worn, or corroded parts or equipment; establishing a preventive maintenance program for processing equipment; using dry-absorbents or other cleanup practices to collect and dispose of or recycle spilled or leaking fluids or use mercury spill kits for spills from storage of mercury switches; on unattended

hydraulic reservoirs over 150 gallons in capacity, installing protection devices such as low-level alarms or equivalent devices, or secondary containment that can hold the entire volume of the reservoir; implementing containment or diversion structures such as dikes, berms, culverts, trenches, elevated concrete pads, and grading to minimize contact of stormwater runoff with outdoor processing equipment or stored materials; using oil and water separators or sumps; installing permanent or semi-permanent covers in processing areas where there are residual fluids and grease; and using retention or detention ponds or basins, sediment traps, vegetated swales or strips, and/or catch basin filters or sand filters for pollutant settling and filtration.

- 8.N.3.1.6 *Scrap Lead-Acid Battery Program.*** To minimize the discharge of pollutants in stormwater from lead-acid batteries, properly handle, store, and dispose of scrap lead-acid batteries, and implement control measures such as the following, where determined to be feasible (list not exclusive): segregating scrap lead-acid batteries from other scrap materials; properly handling, storing, and disposing of cracked or broken batteries; collecting and disposing of leaking lead-acid battery fluid; minimizing or eliminating (if possible) exposure of scrap lead-acid batteries to precipitation or runoff; and providing employee training for the management of scrap batteries.
- 8.N.3.1.7 *Spill Prevention and Response Procedures.*** (See also Part 2.1.2.4) Install alarms and/or pump shutoff systems on outdoor equipment with hydraulic reservoirs exceeding 150 gallons in the event of a line break. Alternatively, a secondary containment system capable of holding the entire contents of the reservoir plus room for precipitation can be used. Use a mercury spill kit for any release of mercury from switches, anti-lock brake systems, and switch storage areas.
- 8.N.3.1.8 *Supplier Notification Program.*** As appropriate, notify major suppliers which scrap materials will not be accepted at the facility or will be accepted only under certain conditions.

8.N.3.2 *Waste Recycling Facilities* (Liquid Recyclable Materials).

- 8.N.3.2.1 *Waste Material Storage (Indoor).*** Minimize or eliminate contact between residual liquids from waste materials stored indoors and from surface runoff. The plan may refer to applicable portions of other existing plans, such as Spill Prevention, Control, and Countermeasure (SPCC) plans required under 40 CFR Part 112. To minimize discharges of pollutants in stormwater from indoor waste material storage areas, implement control measures such as the following, where determined to be feasible (list not exclusive): implementing procedures for material handling (including labeling and marking); cleaning up spills and leaks with dry absorbent materials and/or a wet vacuum system; installing appropriate containment structures (e.g., trenching, curbing, gutters, etc.); and installing a drainage system, including appurtenances (e.g., pumps or ejectors, manually operated valves), to handle discharges from diked or bermed areas. Drainage should be discharged to an appropriate treatment facility or sanitary sewer system, or otherwise disposed of properly. These discharges may require coverage under a separate NPDES wastewater permit or industrial user permit under the pretreatment program.
- 8.N.3.2.2 *Waste Material Storage (Outdoor).*** Minimize contact between stored residual liquids and precipitation or runoff. The plan may refer to applicable portions of other existing plans, such as SPCC plans required under 40 CFR Part 112.

Discharges of stormwater from containment areas containing used oil must also be in accordance with applicable sections of 40 CFR Part 112. To minimize discharges of pollutants in stormwater from outdoor waste material storage areas, implement control measures such as the following, where determined to be feasible (list not exclusive): appropriate containment structures (e.g., dikes, berms, curbing, pits) to store the volume of the largest tank, with sufficient extra capacity for precipitation; drainage control and other diversionary structures; corrosion protection and/or leak detection systems for storage tanks; and dry-absorbent materials or a wet vacuum system to collect spills.

- 8.N.3.2.3 Trucks and Rail Car Waste Transfer Areas.** Minimize pollutants in stormwater discharges from truck and rail car loading and unloading areas. Include measures to clean up minor spills and leaks resulting from the transfer of liquid wastes. To minimize discharges of pollutants in stormwater from truck and rail car waste transfer areas, implement control measures such as the following, where determined to be feasible (list not exclusive): containment and diversionary structures to minimize contact with precipitation or runoff; and dry clean-up methods, wet vacuuming, roof coverings, and/or runoff controls.
- 8.N.3.3 Recycling Facilities (Source-Separated Materials).** The following requirements are for facilities that receive only source-separated recyclables, primarily from non-industrial and residential sources.
- 8.N.3.3.1 Inbound Recyclable Material Control.** Minimize the chance of accepting nonrecyclables (e.g., hazardous materials) that could be a significant source of pollutants by conducting inspections of inbound materials and through the implementation of control measures such as the following, where determined to be feasible (list not exclusive): providing information and education measures to inform suppliers of recyclables about acceptable and non-acceptable materials; training drivers responsible for pickup of recycled material; clearly marking public drop-off containers regarding which materials can be accepted; rejecting nonrecyclable wastes or household hazardous wastes at the source; and establishing procedures for handling and disposal of nonrecyclable material.
- 8.N.3.3.2 Outdoor Storage.** Minimize exposure of recyclables to precipitation and runoff by using good housekeeping measures to prevent accumulation of particulate matter and fluids, particularly in high traffic areas and through implementation of control measure such as the following, where determined to be feasible (list not exclusive): providing totally enclosed drop-off containers for the public; installing a sump and pump with each container pit and treat or discharge collected fluids to a sanitary sewer system; providing dikes and curbs for secondary containment (e.g., around bales of recyclable waste paper); diverting surface water runoff away from outside material storage areas; providing covers over containment bins, dumpsters, and roll-off boxes; and storing the equivalent of one day's volume of recyclable material indoors.
- 8.N.3.3.3 Indoor Storage and Material Processing.** Minimize the release of pollutants from indoor storage and processing areas through implementation of control measures such as the following, where determined to be feasible (list not exclusive): scheduling routine good housekeeping measures for all storage and processing areas; prohibiting tipping floor wash water from draining to

the storm sewer system; and providing employee training on pollution prevention practices.

- 8.N.3.3.4 *Vehicle and Equipment Maintenance.*** Minimize the discharge of pollutants in stormwater from areas where vehicle and equipment maintenance occur outdoors through implementation of control measures such as the following, where determined to be feasible (list not exclusive): minimizing or eliminating outdoor maintenance areas; establishing spill prevention and clean-up procedures in fueling areas; avoiding topping off fuel tanks; diverting runoff from fueling areas; storing lubricants and hydraulic fluids indoors; and providing employee training on proper handling and storage of hydraulic fluids and lubricants.

8.N.4 Additional SWPPP Requirements.

- 8.N.4.1 *Drainage Area Site Map.*** (See also Part 5.2.2) Document in your SWPPP the locations of any of the following activities or sources that may be exposed to precipitation or surface runoff: scrap and waste material storage; outdoor scrap and waste processing equipment; and containment areas for turnings exposed to cutting fluids.

- 8.N.4.2 *Maintenance Schedules/Procedures for Collection, Handling, and Disposal or Recycling of Residual Fluids at Scrap and Waste Recycling Facilities.*** If you are subject to Part 8.N.3.1.3, your SWPPP must identify any applicable maintenance schedule and the procedures to collect, handle, and dispose of or recycle residual fluids.

8.N.5 Additional Inspection Requirements.

- 8.N.5.1 *Inspections for Waste Recycling Facilities.*** The inspections must be performed quarterly, per Part 3.1, and include, at a minimum, all areas where waste is generated, received, stored, treated, or disposed of and that are exposed to either precipitation or stormwater runoff.

8.N.6 Sector-Specific Benchmarks. (See also Part 6)

Table 8.N-1 identifies benchmarks that apply to Sector N. These benchmarks apply to both your primary industrial activity and any co-located industrial activities.

Subsector (You may be subject to requirements for more than one sector/subsector)	Parameter	Benchmark Monitoring Concentration
Subsector N1. Scrap Recycling and Waste Recycling Facilities except those only receiving source-separate recyclable materials primarily from non-industrial and residential sources (SIC 5093)	Chemical Oxygen Demand (COD)	120 mg/L
	Total Suspended Solids (TSS)	100 mg/L
	Aluminum Total Recoverable	0.75 mg/L
	Total Copper (freshwater) ²	Hardness Dependent
	Total Copper (saltwater) ¹	0.0048 mg/L
	Total Recoverable Iron	1.0 mg/L
	Total Lead (freshwater) ²	Hardness Dependent
	Total Lead (saltwater) ¹	0.21 mg/L
	Total Zinc (freshwater) ²	Hardness Dependent
Total Zinc (saltwater) ¹	0.09 mg/L	

¹Saltwater benchmark values apply to stormwater discharges into saline waters where indicated.

² The freshwater benchmark values of some metals are dependent on water hardness. For these parameters, permittees must determine the hardness of the receiving water (see Appendix J, "Calculating Hardness in Receiving Waters for Hardness Dependent Metals," for methodology), in accordance with Part 6.2.1.1, to identify the applicable 'hardness range' for determining their benchmark value applicable to their facility. Hardness Dependent Benchmarks follow in the table below:

Freshwater Hardness Range	Copper (mg/L)	Lead (mg/L)	Zinc (mg/L)
0-24.99 mg/L	0.0038	0.014	0.04
25-49.99 mg/L	0.0056	0.023	0.05
50-74.99 mg/L	0.0090	0.045	0.08
75-99.99 mg/L	0.0123	0.069	0.11
100-124.99 mg/L	0.0156	0.095	0.13
125-149.99 mg/L	0.0189	0.122	0.16
150-174.99 mg/L	0.0221	0.151	0.18
175-199.99 mg/L	0.0253	0.182	0.20
200-224.99 mg/L	0.0285	0.213	0.23
225-249.99 mg/L	0.0316	0.246	0.25
250+ mg/L	0.0332	0.262	0.26

Part 8 – Sector-Specific Requirements for Industrial Activity

Subpart P – Sector P – Land Transportation and Warehousing.

You must comply with Part 8 sector-specific requirements associated with your primary industrial activity and any co-located industrial activities, as defined in Appendix A. The sector-specific requirements apply to those areas of your facility where those sector-specific activities occur. These sector-specific requirements are in addition to any requirements specified elsewhere in this permit.

8.P.1 Covered Stormwater Discharges.

The requirements in Subpart P apply to stormwater discharges associated with industrial activity from Land Transportation and Warehousing facilities as identified by the SIC Codes specified under Sector P in Table D-1 of Appendix D of the permit.

8.P.2 Limitation on Coverage.

8.P.2.1 *Prohibited Discharges* (see also Parts 1.1.4 and 8.P.3.1.4) This permit does not authorize the discharge of vehicle/equipment/surface wash water, including tank cleaning operations. Such discharges must be authorized under a separate NPDES permit, discharged to a sanitary sewer in accordance with applicable industrial pretreatment requirements, or recycled on-site.

8.P.3 Additional Technology-Based Effluent Limits.

8.P.3.1 *Good Housekeeping Measures*. (See also Part 2.1.2.2) In addition to the Good Housekeeping requirements in Part 2.1.2.2, you must do the following.

8.P.3.1.1 *Vehicle and Equipment Storage Areas*. Minimize the potential for stormwater exposure to leaky or leak-prone vehicles/equipment awaiting maintenance through implementation of control measures such as the following, where determined to be feasible (list not exclusive): using of drip pans under vehicles/equipment; storing vehicles and equipment indoors; installing berms or dikes; using of absorbents; roofing or covering storage areas; and cleaning pavement surfaces to remove oil and grease.

8.P.3.1.2 *Fueling Areas*. Minimize contamination of stormwater runoff from fueling areas through implementation of control measures such as the following, where determined to be feasible: covering the fueling area; using spill/overflow protection and cleanup equipment; minimizing stormwater run-on/runoff to the fueling area; using dry cleanup methods; and treating and/or recycling collected stormwater runoff.

8.P.3.1.3 *Material Storage Areas*. Maintain all material storage vessels (e.g., for used oil/oil filters, spent solvents, paint wastes, hydraulic fluids) to prevent contamination of stormwater and plainly label them (e.g., "Used Oil," "Spent Solvents"). To minimize discharges of pollutants in stormwater from material storage areas, implement control measures such as the following, where determined to be feasible (list not exclusive): storing the materials indoors; installing berms/dikes around the areas; minimizing runoff of stormwater to the areas; using dry cleanup methods; and treating and/or recycling collected stormwater runoff.

8.P.3.1.4 *Vehicle and Equipment Cleaning Areas*. Minimize contamination of stormwater runoff from all areas used for vehicle/equipment cleaning through implementation of control measures such as the following, where determined to be feasible (list not exclusive): performing all cleaning operations indoors;

covering the cleaning operation, ensuring that all wash water drains to a proper collection system (i.e., not the stormwater drainage system); treating and/or recycling collected wash water; or other equivalent measures. Discharges of vehicle and equipment wash water, including tank cleaning operations, are not authorized by this permit for this sector.

- 8.P.3.1.5 *Vehicle and Equipment Maintenance Areas.*** Minimize contamination of stormwater runoff from all areas used for vehicle/equipment maintenance through implementation of control measures such as the following, where determined to be feasible (list not exclusive): performing maintenance activities indoors; using drip pans; keeping an organized inventory of materials used in the shop; draining all parts of fluid prior to disposal; prohibiting wet clean up practices if these practices would result in the discharge of pollutants to stormwater drainage systems; using dry cleanup methods; treating and/or recycling collected stormwater runoff; and minimizing run on/runoff of stormwater to maintenance areas.
- 8.P.3.1.6 *Locomotive Sanding (Loading Sand for Traction) Areas.*** Minimize discharges of pollutants in stormwater from locomotive sanding areas through implementation of control measures such as the following, where determined to be feasible (list not exclusive): covering sanding areas; minimizing stormwater run on/runoff; or appropriate sediment removal practices to minimize the offsite transport of sanding material by stormwater.
- 8.P.3.2 *Employee Training.*** (See also Part 2.1.2.8) Train personnel at least once a year and address the following activities, as applicable: used oil and spent solvent management; fueling procedures; general good housekeeping practices; proper painting procedures; and used battery management.
- 8.P.4 Additional SWPPP Requirements.**
- 8.P.4.1 *Drainage Area Site Map.*** (See also Part 5.2.2) Identify in the SWPPP the following areas of the facility and indicate whether activities occurring there may be exposed to precipitation/surface runoff: fueling stations; vehicle/equipment maintenance or cleaning areas; storage areas for vehicle/equipment with actual or potential fluid leaks; loading/unloading areas; areas where treatment, storage or disposal of wastes occur; liquid storage tanks; processing areas; and storage areas.
- 8.P.4.2 *Potential Pollutant Sources.*** (See also Part 5.2.3) Assess the potential for the following activities and facility areas to contribute pollutants to stormwater discharges: onsite waste storage or disposal; dirt/gravel parking areas for vehicles awaiting maintenance; illicit plumbing connections between shop floor drains and the stormwater conveyance system(s); and fueling areas. Describe these activities in the SWPPP.
- 8.P.4.3 *Description of Good Housekeeping Measures.*** You must document in your SWPPP the good housekeeping measures you implement consistent with Part 8.P.3.
- 8.P.4.4 *Vehicle and Equipment Wash Water Requirements.*** If wash water is handled in a manner that does not involve separate NPDES permitting (e.g., hauled offsite), describe the disposal method and include all pertinent information (e.g., frequency, volume, destination, etc.) in your SWPPP. Discharges of vehicle and equipment wash water, including tank cleaning operations, are not authorized by this permit for this sector.

8.P.5 Additional Inspection Requirements. (See also Part 3.1)

Inspect all the following areas/activities: storage areas for vehicles/equipment awaiting maintenance, fueling areas, indoor and outdoor vehicle/equipment maintenance areas, material storage areas, vehicle/equipment cleaning areas and loading/unloading areas.

9. Permit Conditions Applicable to Specific States, Indian Country Lands, or Territories

9.1 EPA Region 1: Connecticut, Massachusetts, Maine, New Hampshire, Rhode Island, Vermont.

9.1.1 CTR05I000: Indian Country within the State of Connecticut

No additional requirements.

9.1.2 MAR050000: Commonwealth of Massachusetts, except Indian country

Permittees in the Commonwealth of Massachusetts must meet the following conditions:

9.1.2.1 **Additional conditions required by the Commonwealth of Massachusetts.** Discharges covered by the general permit must comply with the provisions of 314 CMR 3.00; 314 CMR 4.00; 314 CMR 9.00; and 314 CMR 10.00 and any other related policies adopted under the authority of the Massachusetts Clean Waters Act, MGL c.21, ss. 26-53 and Wetlands Protection Act, MGL s. 40.

New facilities or redevelopment of existing facilities subject to this permit must comply with applicable stormwater performance standards prescribed by state regulation or policy. A permit under 314 CMR 3.04 is not required for existing facilities which meet state stormwater performance standards. An application for a permit under 314 CMR 3.00 is required only when required under 314 CMR 3.04(2)(b) {designation of a discharge on a case-by-case basis} or is otherwise identified in 314 CMR 3.00 or any Massachusetts Department of Environmental Protection policy as a discharge requiring a permit application. Department regulations and policies may be obtained through the State House Bookstore or online at www.mass.gov/dep.

9.1.2.2 **SWPPP Availability.** The Department may request a copy of the Stormwater Pollution Prevention Plan (SWPPP) and the permittee is required to submit the SWPPP to the Department within 14 days of such a request.

9.1.2.3 **Authorization to Inspect.** The Department may conduct an inspection of any facility covered by this permit to ensure compliance with state law requirements, including state water quality standards. The Department may enforce its certification conditions.

9.1.2.4 **Submission of Monitoring Data.** The results of any monitoring [four samples required in the first year of the permit] required by this permit must be sent to the appropriate Regional Office of the Department [attention: Bureau of Waste Prevention] where the monitoring identifies violations of any effluent limits or benchmarks for any parameter for which monitoring is required under this permit. In addition, any follow-up monitoring and a description of the corrective actions required and undertaken to meet the effluent limits or benchmarks must be sent to the appropriate Department Regional Office.

9.1.2.5 **Sector-Specific Requirements.** The Massachusetts Coastal Zone Management Program submitted the following conditions to be added to the permit in order to meet the Programs' Consistency Review and which are included in the requirements of this Water Quality Certification:

- In Sector Q [Water Transportation] add copper to the required monitoring parameters with a benchmark monitoring concentration as included in the MSGP 2015 Fact Sheet Part X.B.1, and Appendix J.
- In Sector R [Ship and Boat Building and Repair Yards] add aluminum, iron, lead and copper to the list of required monitoring parameters with a benchmark monitoring concentration as included in the MSGP 2015 Fact Sheet Part X.B.1 and Appendix J.
- Modify the monitoring requirements [Part 6.2.1.2] for Sectors Q and R such that all four of the quarterly monitoring samples must meet the benchmarks rather than the average of the four before no further monitoring is required.

9.1.3 MAR05I000: Indian country within the Commonwealth of Massachusetts

No additional requirements.

9.1.4 NHR050000: State of New Hampshire

Permittees in New Hampshire must also meet the following conditions:

9.1.4.1 *Consider Opportunities for on-site infiltration of stormwater.* In Part 2.1.1 Control Measure Selection and Design Considerations, you are required to consider opportunities for infiltrating runoff onsite. This is encouraged, but it should only be done if consistent with the statutes and rules of the Department of Environmental Services written to protect groundwater, including Env-Wq 1507.04(e). Infiltration best management practices are not recommended at industrial sites except in areas where industrial activities do not occur, such as at office buildings and their associated parking facilities, or in drainage areas at the facility where a certification of no exposure will always be possible [see 40 CFR 122.26(g)].

9.1.4.2 *Maintenance of Infiltration Best Management Practices.* In Part 2.1.2.3 you are required to maintain control measures. In Parts 5.2.2, 5.2.5.1, and 5.5 you are required to document the location of control measures, perform inspections and maintenance, and keep records. Accordingly, the SWPPP must contain the following:

- A description of and the location of each on-site infiltration BMP installed;
- The maintenance procedures that will be followed to ensure proper operation, including the removal of sediment from pretreatment devices;
- The inspection procedures that will be followed at least annually. These should include the procedures for ensuring that the stormwater being infiltrated is not exposed to industrial pollutants and the procedures for ensuring proper drainage to prevent mosquito breeding;
- The employee name (or title of the position) who is a member of the stormwater pollution prevention team (see Part 5.2.1) who will be responsible for the maintenance required in this section, the inspection required in this section, and any necessary corrective action required in Part 4; and
- Records for all maintenance performed, inspections conducted, and corrective actions taken.

9.1.4.3 *Discontinue, Permit or Register On-site Infiltration BMP if Necessary.* If at any time a certification of no exposure can no longer be made for any of the stormwater to be infiltrated, then the infiltration BMP must cease for that portion of the runoff or

the discharge must be permitted or registered as appropriate. The following may be required:

- Infiltration BMP that meets the definition of a Class V well or that infiltrates stormwater via a subsurface structure (i.e. concrete chambers, dry well, leach field, etc.) will need an underground injection control (UIC) registration from NHDES; and
- Permitting as a groundwater discharge as required in Env-Wq 402, if the stormwater will or may contain regulated contaminants.

The SWPPP must be modified immediately if new infiltration BMPs are proposed or if existing infiltration BMPs will cease.

9.1.4.4 Required NHDES notification.

- Notify the NHDES Groundwater Discharge Permit Coordinator immediately if you believe that any infiltration BMP may need to be permitted or registered (See Part 9.1.4.3) during the permit term.
- Notify the NHDES Wastewater Engineering Bureau immediately of any plans to discharge any new non-stormwater discharges during the permit term. This does not include the allowable non-stormwater discharges listed in Part 1.1.3.

9.1.4.5 Information That May Be Requested by NHDES. To ensure compliance with RSA 485-C, RSA 485-A, RSA 485-A:13, I(a), Env-Wq 400 and Env-Wq 401 the following information may be requested by NHDES. This information must be kept on site unless you receive a written request from NHDES that it be sent to the address shown in Part 9.1.4.6.

- The site map required in Part 5.2.2, showing the type and location of all on-site infiltration BMP utilized at the facility or the reason(s) why none were installed.
- A list of all non-stormwater discharges that occur at the facility, including their source locations and the control measures being used (See Sections 1.1.3 and 5.2.3.4).
- A copy of the Annual Reports required in Part 7.5

9.1.4.6 Where to Submit Information. Information submitted to NHDES must be sent to the following address:

NH Department of Environmental Services
Wastewater Engineering Bureau, Permits & Compliance Section
P.O. Box 95
Concord, NH 03302-0095

9.1.4.7 Modification of Clean Water Act Section 401 Water Quality Certification. When NHDES determines that additional water quality certification requirements are necessary to protect water quality, it may require individual dischargers to meet additional conditions to obtain or continue coverage under the MSGP. Any such conditions shall be supplied to the permittee in writing. Any required pollutant loading analyses and any designs for structural best management practices necessary to protect water quality must be prepared by a civil or sanitary engineer registered in New Hampshire.

- 9.1.5 RIR05I000: Indian country within the State of Rhode Island**
No additional requirements.
- 9.1.6 VTR05F000: Areas in the State of Vermont subject to industrial activity by a Federal Operator**
No additional requirements.
- 9.2 EPA Region 2: New Jersey, New York, Puerto Rico, Virgin Islands.**
- 9.2.1 PRR050000: Commonwealth of Puerto Rico**
No additional requirements.
- 9.3 EPA Region 3: Delaware, District of Columbia, Maryland, Pennsylvania, Virginia, West Virginia.**
- 9.3.1 DCR050000: District of Columbia**
Permittees in the District of Columbia must also meet the following conditions:
- 9.3.1.1 *Compliance with District of Columbia Laws and Regulations.*** Discharges covered by the MSGP must comply with the District of Columbia Water Pollution Control Act of 1984, as amended, D.C. Official Code § 8-103.01 *et seq.*; and its implementing regulations in Title 21, Chapters 11 and 19 of the District of Columbia Municipal Regulations. Nothing in this permit will be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to District of Columbia laws and regulations.
- 9.3.1.2 *Submission of SWPPP.*** The Stormwater Pollution Prevention Plan (SWPPP) shall be submitted to the District Department of the Environment (DDOE) at the same time the Notice of Intent (NOI) is submitted to EPA.
- 9.3.1.3 *Submission of No Exposure Certification and NOT.*** Copies of the No Exposure Certification and Notice of Termination (NOT) shall be submitted to DDOE at the same time they are submitted to EPA.
- 9.3.1.4 *Authorization to Inspect.*** The permittee shall allow DDOE to inspect any facility, equipment, practices, or operations regulated or required under this permit and to access records maintained under the conditions of this permit.
- 9.3.1.5 *Submission of Reports.*** Signed copies of all reports required under this permit including the reporting requirements of Appendix B.12 shall be submitted to DDOE at the same time they are submitted to EPA.
- 9.3.1.6 *Where to Submit Information.*** All required or requested documents shall be sent to the:
- Attention: Associate Director
Water Quality Division, Natural Resources Administration
District Department of the Environment
1200 First Street, NE, 5th Floor
Washington, D.C. 20002

- 9.3.2 **DER05F000: Areas in the State of Delaware subject to industrial activity by a Federal Operator**
No additional requirements.
- 9.4 **EPA Region 4: Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee**
Coverage not available under this permit.
- 9.5 **EPA Region 5: Illinois, Indiana, Michigan, Minnesota, Ohio, Wisconsin.**
- 9.5.1 **MIR05I000: Indian country within the State of Michigan**
No additional requirements.
- 9.5.2 **MNR05I000: Indian country within the State of Minnesota**
- 9.5.2.1 **Fond du Lac Reservation**
The following conditions apply only to discharges on the Fond du Lac Reservation.
- 9.5.2.1.1 **Submission of SWPPP.** A copy of the Stormwater Pollution Plan (SWPPP) must be submitted to the Office of Water Protection at least thirty (30) days in advance of sending the Notice of Intent to EPA. MSGP applicants are encouraged to work with the Fond du Lac Office of Water Protection in the identification of all proposed receiving waters.
- 9.5.2.1.2 **Submission of NOI and NOT.** Copies of the Notice of Intent (NOI) and Notice of Termination (NOT) must be sent to the Fond du Lac Office of Water Protection at the same time they are submitted to EPA.
- 9.5.2.1.3 **Benchmark Monitoring for Turbidity.** The Benchmark Monitoring Concentration (BMC) for Turbidity shall NOT exceed 10% of natural background as determined by Office of Water Protection staff as measured in NTU.
- 9.5.2.1.4 **Effluent Limitations.** The Effluent Limitations for ALL sectors shall NOT exceed more than two times (2x) Fond du Lac's ambient concentrations (based upon 15 years of monitoring data) for the following:
- | | |
|---------------------------|----------------------|
| a) Ammonia | Ambient = <0.3 mg/l |
| b) Arsenic | Ambient = <3.0 µg/l |
| c) Chromium | Ambient = <0.8 µg/l |
| d) Total Phosphorus | Ambient = <0.09 mg/l |
| e) Total Suspended Solids | Ambient = <16.0 mg/l |
| f) Zinc | Ambient = <24.0 mg/l |
- 9.5.2.1.5 **Outstanding Reservation Resource Waters (ORRW).** This Certification does not pertain to any new discharge to Outstanding Reservation Resource Waters (ORRW) as described in § 105 b.3. of the Fond du Lac Water Quality Standards (Ordinance #12/98). Although additional waters may be designated in the future, currently Perch Lake, Rice Portage Lake, Miller Lake, Deadfish Lake, and Jaskari Lake are designated as ORRWs. New dischargers wishing to discharge to an ORRW must obtain an individual permit for storm water discharges.

9.5.2.1.6 *Water Quality Criteria.* All industrial activities shall be carried out in such a manner as will prevent violations of water quality criteria as stated in the Water Quality Standards of the Fond du Lac Reservation, Ordinance 12/98, as amended. This includes, but is not limited to, the prevention of any discharge that causes a condition in which visible solids, bottom deposits, or turbidity impairs the usefulness of water of the Fond du Lac Reservation for any of the uses designated in the Water Quality Standards of the Fond du Lac Reservation. These uses include wildlife, aquatic life, warm and cold water fisheries, subsistence farming (netting), primary contact recreation, cultural, wild rice areas, aesthetic waters, agriculture, navigation, and commercial.

9.5.2.1.7 *Impacts to cultural sites.* This certification does not authorize impacts to cultural, historical, or archeological features or sites, or properties that may be eligible for such listing.

9.5.2.1.8 *Where to Submit Information.* All required or requested documents shall be sent to the:

Fond du Lac Reservation
Office of Water Protection
1720 Big Lake Road
Cloquet, Minnesota 55720

9.5.2.2 *Grand Portage Band of the Minnesota Chippewa Tribe*

The following conditions apply to industrial storm water discharges into Waters of the Grand Portage Reservation:

9.5.2.2.1 *Definitions.* The definitions set forth in the Grand Portage Water Resources Ordinance, as amended, ("Water Resources Ordinance") govern these certification conditions.

9.5.2.2.2 *Water Quality Standards.* All industrial storm water discharges authorized by this permit must comply with the Grand Portage Water Quality Standards, Applicable Federal Standards, and the Water Resources Ordinance.

9.5.2.2.3 *Additional Monitoring.* Grand Portage reserves the right to require monitoring of storm water discharges as determined on a case-by-case basis. If the Grand Portage Environmental Resources Board ("Board") determines that a monitoring plan is necessary, the monitoring plan must be prepared and incorporated into the Storm Water Pollution Prevention Plan ("SWPPP") before the SWPPP is submitted to the U.S. EPA. Accordingly, the Board must be contacted, at the address listed below, at the onset of writing the SWPPP.

9.5.2.2.4 *Submission of SWPPP, NOI, and NOT.* In addition, a copy of the SWPPP, Notice of Intent ("NOI"), and Notice of Termination (NOT) (collectively the "application") must be submitted to the Board at least 30 days before submitting the NOI to the U.S. EPA. Applications should be sent to the address below.

9.5.2.2.5 *Additional information.* Upon receipt of the application, the Board shall order the Grand Portage Environmental Department (Department) to conduct a technical review of the application materials. If necessary, Department staff will send a

request for additional information to the applicant within 30 days of receipt of the application.

- 9.5.2.2.6 Preliminary coverage determination.** After considering the application and such other information and data as the Department staff deems relevant, the Department Director will evaluate whether there is a reasonable probability that the proposed activity will violate the Grand Portage Water Quality Standards or any Applicable Federal Standards and recommend one of the following preliminary determinations:
- Unconditionally grant coverage under the MSGP;
 - Grant coverage under the MSGP subject to certain conditions; or
 - Deny coverage under the MSGP.
- 9.5.2.2.7 Final coverage determination.** Within 30 days of the Department Director's recommendation, the Board will provide public notice of the application for coverage under the MSGP and the Department Director's recommendations. Upon request, the Department will schedule a hearing as provided in 40 CFR Part 25. If, after considering the evidence provided at the hearing and the entire record, the Board determines by a preponderance of the evidence that the proposed activity will violate the Grand Portage Water Quality Standards or any Applicable Federal Standards, the Board shall deny eligibility for coverage under the MSGP, unless there is a reasonable certainty that compliance can be achieved by the applicant's adherence to reasonable conditions. If the Board finds insufficient evidence to show that the proposed activity will violate the Grand Portage Water Quality Standards or any Applicable Federal Standards, it shall approve coverage under the MSGP.
- 9.5.2.2.8 Appeals.** Appeals related to water quality certification decisions or permits will be heard by the Grand Portage Tribal Court.
- 9.5.2.2.9 Prohibition of Discharge.** The applicant is prohibited from discharging into the Waters of the Reservation pursuant to the MSGP unless the Board has granted coverage under the MSGP, or until the applicant has adhered to conditions required by the Board's conditional grant of coverage.
- 9.5.2.2.10 Compliance.** The Board retains full authority provided by the Water Resources Ordinance to ensure compliance with and enforce the provisions of the Water Resource Ordinance, the Grand Portage Water Quality Standards, Applicable Federal Standards, and these certification conditions.
- 9.5.2.2.11 Where to Submit Information.** All required or requested information mentioned above shall be sent to:
- Grand Portage Environmental Resources Board
P.O. Box 428
Grand Portage, MN 55605
- 9.5.3 WIR05I000: Indian country within the State of Wisconsin, except those on Bad River Band of Lake Superior Tribe of Chippewa Indians lands and on Sokaogon Chippewa Community lands**
No additional requirements.

Note: Facilities in the Bad River Band of Lake Superior Tribe of Chippewa Indians land Sokaogon Chippewa Community lands and are not eligible for stormwater discharge coverage under this permit. Contact the EPA Region 5 office for an individual permit application.

9.6 EPA Region 6: Arkansas, Louisiana, Oklahoma, Texas, and New Mexico (except see Region 9 for Navajo lands, and see Region 8 for Ute Mountain Reservation lands).

9.6.1 LAR05I000: Indian country within the State of Louisiana

No additional requirements.

9.6.2 NMR050000: The State of New Mexico, except Indian country

Permittees in New Mexico must also meet the following conditions:

9.6.2.1 Benchmark Monitoring Concentrations. The benchmark values for the indicated pollutants in the table below must be modified to reflect New Mexico water quality standards for the facilities in New Mexico, based on benchmark values from the *Standards for Interstate and Intrastate Surface Waters* (as approved on June. 5, 2013), 20.6.4.900 NMAC).

Pollutant	MSGP Benchmark	Lowest New Mexico Water Quality Standard	Hardness dependent value (if appropriate) ¹
Ammonia*	2.14 mg/L	No Standard	
Biochemical Oxygen Demand (BOD 5 day)	30 mg/L	No Standard	
Chemical Oxygen Demand (COD)	120 mg/L	No Standard	
Total Suspended Solids	100 mg/L	Segment specific	
Turbidity	50 NTU	Segment specific	
Nitrate + Nitrite Nitrogen	0.68 mg/L	132 mg/L	
Total Phosphorus	2.0 mg/L	Segment specific	
pH	6.0 – 9.0 SU	Segment specific	
Aluminum (T) (pH 6.5 – 9)*	0.75 mg/L	--	3.4 mg/L (acute) 1.37 mg/L (chronic)
Antimony (T)	0.64 mg/L	0.006 mg/L	
Arsenic (T) (Freshwater)*	0.15 mg/L	0.01 mg/L	
Beryllium (T)	0.13 mg/L	0.004 mg/L	
Cadmium (T) (Freshwater)*	0.0021 mg/L	--	0.00165 mg/L (acute) 0.00045 mg/L (chronic)
Copper (T) (Freshwater)*	0.014 mg/L	--	0.013 mg/L (acute) 0.009 mg/L (chronic)
Cyanide (Freshwater)*	0.022 mg/L	0.0052 (WH)	
Iron (T)	1.0mg/L	No standard	
Lead (Freshwater)*	0.082 mg/L		0.065 mg/L (acute) 0.003 mg/L (chronic)
Magnesium (T)	0.064 mg/L	No standard	
Mercury (Freshwater)*	0.0014 mg/L	0.00077 mg/L	
Nickel (T) (Freshwater)*	0.47 mg/L		0.47 mg/L (acute) 0.052 mg/L (chronic)
Selenium (T) (Freshwater)* ²	0.005 mg/L	0.005 mg/L (WH)	

Pollutant	MSGP Benchmark	Lowest New Mexico Water Quality Standard	Hardness dependent value (if appropriate) ¹
Silver (Freshwater)*	0.0038 mg/L		0.0032 mg/L (acute)
Zinc (T) (Freshwater)*	0.12 mg/L		0.16 mg/L (acute) 0.121 mg/L (chronic)

* EPA's Criteria are based on receiving water hardness of 100 mg/L. The facility will need to test their receiving water these hardness values and use Table 1 in Appendix J of this permit to determine their applicable limit.

¹ New Mexico Environment Department's criteria are listed at a hardness value of 100 mg/L as CaCO₃ for comparison to EPA's benchmark standard.

² SO₄ dependent

EPA defines saline/salt waters as having salinity concentrations greater than or equal to 10 parts per thousand 95 percent or more of the time (as discussed on Page 55 of the permit's proposed fact sheet). Saltwater values may apply to certain areas of New Mexico, such as the Pecos Basin below Santa Rosa and the Rio Grande below Elephant Butte. These values may also apply to waters that are part of the Colorado River Basin.

New Mexico water quality hardness-based values in the table below replace values listed in Appendix J and are the applicable benchmark values for New Mexico in this permit.

All Units mg/L	*	(mg/L, dissolved)						
		Aluminum	Cadmium	Copper	Lead	Nickel	Silver	Zinc
25	Acute	0.512	0.00051	0.004	0.014	0.140	0.0003	0.045
	Chronic	0.205	0.00017	0.003	0.001	0.016		0.034
30	Acute	0.658	0.00059	0.004	0.017	0.170	0.0004	0.054
	Chronic	0.263	0.00019	0.003	0.001	0.019		0.041
40	Acute	0.975	0.00076	0.006	0.024	0.220	0.0007	0.070
	Chronic	0.391	0.00023	0.004	0.001	0.024		0.053
50	Acute	1.324	0.00091	0.007	0.03	0.260	0.0010	0.085
	Chronic	0.530	0.00028	0.005	0.001	0.029		0.065
60	Acute	1.699	0.00107	0.008	0.037	0.300	0.0013	0.101
	Chronic	0.681	0.00031	0.006	0.001	0.034		0.076
70	Acute	2.099	0.00122	0.010	0.044	0.350	0.0017	0.116
	Chronic	0.841	0.00035	0.007	0.002	0.038		0.088
80	Acute	2.520	0.00137	0.011	0.051	0.390	0.0022	0.131
	Chronic	1.010	0.00039	0.007	0.002	0.043		0.099
90	Acute	2.961	0.00151	0.012	0.058	0.430	0.0027	0.145
	Chronic	1.186	0.00042	0.008	0.002	0.048		0.110
100	Acute	3.421	0.00165	0.013	0.065	0.470	0.0032	0.160
	Chronic	1.370	0.00045	0.009	0.003	0.052		0.121
200	Acute	8.838	0.00298	0.026	0.14	0.840	0.011	0.301
	Chronic	3.541	0.00075	0.016	0.005	0.09		0.228
220	Acute	10.071						
	Chronic	4.035						
300	Acute	10.071	0.00421	0.038	0.210	1.190	0.021	0.435
	Chronic	4.035	0.00100	0.023	0.008	0.130		0.329
400+	Acute	10.071	0.00538	0.050	0.280	1.510	0.035	0.564
	Chronic	4.035	122	0.029	0.011	0.170		428

*Acute vs. Chronic applicability: Acute numeric standards shall be attained at the "point of discharge" (end-of-pipe) for any discharge to surface water with a *designated aquatic life use*. TSS values will be important for any criteria differences between total and dissolved measurements.

9.6.2.2 Notice of Termination. Requirements in Part 8 of the this permit, in sectors G (Metal Mining), H (Coal Mines and Coal Mining-Related Facilities), I (Oil and Gas Extraction), and J (Non-Metallic Mineral Mining and Dressing), at the Requirements Applicable to Earth-Disturbing Activities Conducted Prior to Active Mining Activities" section were made more stringent as to inspection frequencies and timing of inspections and corrective actions required as a result of a rain event. These certification requirements will apply to these sectors mentioned in this condition, as follows:

Permittees can only use the option to "plant the area so that within 3 years the 70% cover requirement is met" as stated in Part 8.G.4.2.11, Part 8.H.4.2.11, and Part 8.J.4.2.11 of this Permit, in New Mexico as a method for final vegetative stabilization for purposes of filing a Notice of Termination (NOT) under the following conditions:

If this option is selected, you must notify New Mexico Environment Department (NMED) at the address listed below at the time the NOT is submitted to EPA. The information to be submitted includes:

- A copy of the NOT;
- Contact information, including individual name or title, address, and phone number for the party responsible for implementing the final stabilization measures; and
- The date that the permanent vegetative stabilization practice was implemented and the projected timeframe that the 70% native vegetative cover requirements are expected to be met. (Note that if more than three years is required to establish 70 percent of the natural vegetative cover, this technique cannot be used or cited for fulfillment of the final stabilization requirement- you remain responsible for establishment of final stabilization.)

NMED also requires that operators periodically (minimum once/year) inspect and properly maintain the area until the criteria for final stabilization, as specified in Part 2.2 of the Construction General Permit (CGP), have been met. Operators must prepare an inspection report documenting the findings of these inspections and signed in accordance with Appendix B.11. This inspection record must be retained along with the SWPPP for three years after the NOT is submitted for the site and additionally submitted to NMED at the address listed below. The inspections must at a minimum include the following:

- Observations of all areas of the site disturbed by construction activity;
- Best Management Practices (BMPs)/post-construction storm water controls must be observed to ensure they are effective;
- An assessment of the status of vegetative re-establishment; and
- Corrective actions required to ensure vegetative success within three years, and control of pollutants in storm water runoff from the site, including implementation dates.

- 9.6.2.3** *Where to Submit Information.* All required or requested information mentioned above shall be sent to:
- Program Manager
Point Source Regulation Section
NMED Surface Water Quality Bureau
PO Box 5469
Santa Fe, NM 87502
- 9.6.3** **NMR05I000: Indian country within the State of New Mexico, except Ute Mountain Reservation lands that are covered under Colorado permit COR05I000 and Navajo Reservation lands that are covered under Arizona permit AZR05I000**
- 9.6.3.1** *Pueblo of Sandia*
The following conditions apply only to discharges on the Pueblo of Sandia:
- 9.6.3.1.1** *Submission of NOI.* Copies of all Notices of Intent (NOI) submitted to the EPA must also be sent concurrently to the Pueblo of Sandia Environment Department. Discharges are not authorized by this permit unless an accurate and complete NOI has been submitted to the Pueblo of Sandia.
- 9.6.3.1.2** *SWPPP Availability.* The Stormwater Pollution Prevention Plan (SWPPP) must be available to the Pueblo of Sandia Environment Department either electronically or hard copy upon request for review. Failure to provide a SWPPP to the Pueblo of Sandia Environment Department may result in denial of the water quality certification.
- 9.6.3.1.3** *SWPPP Amendments.* Any Stormwater Pollution Prevention Plan (SWPPP) modification, update or amendment shall be submitted to the Pueblo of Sandia Environment Department either electronically or hard copy within seven (7) calendar days of its finalization. Failure to provide a SWPPP to the Pueblo of Sandia Environment Department may result in denial of the water quality certification.
- 9.6.3.1.4** *Submission of Monitoring Data.* All monitoring and analytical data (e.g., Discharge Monitoring Reports (DMRs), follow-up monitoring reports, Exceedance Reports for Numeric Effluent Limits, etc.) submitted to the EPA must also be sent concurrently to the Pueblo of Sandia Environment Department.
- 9.6.3.1.5** *Submission of Annual Reports.* Copies of all Annual Reports submitted to the EPA must also be sent concurrently to the Pueblo of Sandia Environment Department. Discharges are not authorized by this permit unless an accurate and complete Annual Report has been submitted to the Pueblo of Sandia.
- 9.6.3.1.6** *Submission of Quarterly Visual Assessments.* Copies of all "Quarterly Visual Assessments" (Part 3.2) must be submitted either electronically or hard copy to the Pueblo of Sandia Environment Department within seven (7) calendar days.
- 9.6.3.1.7** *Submission of Corrective Action Documentation.* Copies of all "Corrective Action Documentation" (Part 4.4) must be submitted electronically or hard copy to the Pueblo of Sandia Environment Department within seven (7) calendar days.
- 9.6.3.1.8** *Additional Reporting.* Any notice of release of oils or hazardous substances shall be submitted to the Pueblo of Sandia Environment Department within twenty-four (24)

hours of becoming aware of the situation or circumstance, followed by the reporting requirements of 40 CFR 110, 40 CFR 300, and 40 CFR 302 relating to spills or other releases of oil or hazardous substances. The permittee must also telephone the Pueblo of Sandia Environment Department at (505) 867-4533 of any non-emergency spills or unauthorized discharges that may affect drinking water supplies, ceremonial and recreational surface waters, elicit fish kills, harm wildlife or endangered and threatened species, or endanger human health or the environment within eight (8) hours of becoming aware of the situation or circumstance, followed by the written report when it is sent to the EPA.

9.6.3.1.9 Authorization to Inspect. If requested by the Pueblo of Sandia Environment Department, the permittee must allow the Pueblo of Sandia to perform its own routine or compliance inspection to ensure the permittee is in compliance and any discharge is not contributing to a violation of the permit and the Pueblo of Sandia's Water Quality Standards.

9.6.3.1.10 Water Quality Standards. If requested by the Pueblo of Sandia Environment Department, the permittee shall provide additional information necessary for a "case by case" eligibility determination to assure compliance with the Pueblo of Sandia's Water Quality Standards. *Note: Upon receipt of a determination by the Pueblo of Sandia that discharges from a permittee under this general permit have reasonable potential to be causing or contributing to a violation of the Pueblo of Sandia's Water Quality Standards, EPA Region 6 would be notified. EPA Region 6 would then notify the permittee to either improve their Stormwater Pollution Prevention Plan (SWPPP) to achieve compliance with the Pueblo of Sandia's Water Quality Standards or have the permittee apply for and obtain an individual NPDES permit for these discharges per CFR 122.28(B)(3).

9.6.3.1.11 Alternative Permit. Any industry discharging to waters of the United States that has been designated by the EPA or the Pueblo of Sandia as impaired or degraded water shall not be covered under this general permit but will be required to obtain an individual permit.

9.6.3.1.12 Submission of NOT. Before submitting a Notice of Termination (NOT), permittees must clearly demonstrate to the Pueblo of Sandia Environment Department through a site visit or documentation that requirements for site stabilization have been met and any degradation has been mitigated. A short letter stating the stabilization requirements have been met will be sent to the permittee. Upon receipt the permittee may apply for an NOT to the EPA. Copies of the NOT submitted to the EPA must also be sent concurrently to the Pueblo of Sandia Environment Department.

9.6.3.1.13 Where to Submit Information. All required or requested information mentioned above shall be sent to:

- Regular U.S. Delivery Mail:
Pueblo of Sandia Environment Department
Attention: Scott Bulgrin, Water Quality Manager
481 Sandia Loop
Bernalillo, New Mexico 87004
- Or Electronically to: sbulgrin@sandiapueblo.nsn.us

9.6.3.2 Pueblo of Santa Clara.

The following condition applies only to discharges on the Santa Clara Indian Pueblo:

9.6.3.2.1 Submission of NOI and NOT. The Notice of Intent (NOI) and Notice of Termination (NOT) must be provided to the Santa Clara Pueblo Governor's Office at the same time it is provided to EPA.

9.6.3.2.2 SWPPP Availability. A copy of the Stormwater Pollution Prevention Plan must be made available to the Pueblo of Santa Clara staff upon request.

9.6.3.2.3 Where to Submit Information. All required or requested documents shall be sent to the:

Santa Clara Pueblo
Governor's Office
P.O. Box 580
Española, NM 87532

9.6.4 OKR05I000: Indian country within the State of Oklahoma

9.6.4.1 Certification Requirements. In accordance with Oklahoma's Water Quality Standards (OAC 785:45-5-25) certification is denied for any new or proposed discharges located within the watershed of any part of the Oklahoma Scenic Rivers system, including the Illinois River, Flint Creek, Barren Fork Creek, Upper Mountain Fork Creek, Little Lee Creek, Big Lee Creek or to any water designated as an Outstanding Resource Water (ORW). Existing discharges of stormwater in these watersheds may be permitted under this permit only from point sources existing as of June 25, 1992, whether or not such stormwater discharges were permitted as point sources prior to June 25, 1992. For any such existing discharge, increased load of any pollutant above levels of June 25, 1992 is prohibited.

Note: Operators of facilities within the watershed of any part of the Oklahoma Scenic Rivers system must contact the EPA Region 6 office for an individual permit application.

9.6.5 OKR05F000: Facilities in the State of Oklahoma not under the jurisdiction of the Oklahoma Department of Environmental Quality or the Oklahoma Department of Agriculture, Food and Forestry, except those on Indian Country. EPA jurisdiction facilities include SIC Codes 1311, 1381, 1382, 1389, and 5171

9.6.5.1 Certification Requirements. In accordance with Oklahoma's Water Quality Standards (OAC 785:45-5-25), Certification is denied for any new or proposed discharges located within the watershed or any part of the Oklahoma Scenic Rivers system, including the Illinois River, Flint Creek, Barren Fork Creek, Upper Mountain Fork River, Little Lee Creek, Big Lee Creek or to any water designated as an Outstanding Resource Water (ORW). Existing discharges of stormwater in these watersheds may be permitted under this permit only from point sources existing as of June 25, 1992, whether or not such stormwater discharges were permitted as point sources prior to June 25, 1992. For any such existing discharge, increased load of any pollutant above levels of June 25, 1992 is prohibited.

Note: Operators of facilities within the watershed of any part of the Oklahoma Scenic Rivers system must contact the EPA Region 6 office for an individual permit application.

- 9.6.6 TXR05F000: Facilities in the State of Texas not under the jurisdiction of the Texas Commission on Environmental Quality, except those on Indian Country. EPA-jurisdiction facilities include SIC Codes 1311, 1321, 1381, 1382, and 1389 (other than oil field service company “home base” facilities)**
No additional requirements.
- 9.6.7 TXR05I000: Indian country within the State of Texas**
No additional requirements.
- 9.7 EPA Region 7: Iowa, Kansas, Missouri, Nebraska (except see Region 8 for Pine Ridge Reservation Lands).**
- 9.7.1 IAR05I000: Indian country within the State of Iowa**
No additional requirements.
- 9.7.2 KSR05I000: Indian country within the State of Kansas**
No additional requirements.
- 9.7.3 NER05I000: Indian country within the State of Nebraska, except Pine Ridge Reservation lands (see Region 8)**
No additional requirements.
- 9.8 EPA Region 8: Colorado, Montana, North Dakota, South Dakota, Wyoming, Utah (except see Region 9 for Goshute Reservation and Navajo Reservation Lands), the Ute Mountain Reservation in NM, and the Pine Ridge Reservation in NE.**
- 9.8.1 COR05F000: Areas in the State of Colorado, except those located on Indian country, subject to industrial activity by a Federal Operator**
No additional requirements.
- 9.8.2 COR05I000: Indian country within the State of Colorado, as well as the portion of the Ute Mountain Reservation located in New Mexico**
No additional requirements
- 9.8.3 MTR05I000: Indian country within the State of Montana**
No additional requirements.
- 9.8.4 NDR05I000: Indian country within the State of North Dakota, as well as that portion of the Standing Rock Reservation located in South Dakota (except for the portion of the lands within the former boundaries of the Lake Traverse Reservation which is covered under South Dakota permit SDR05I000 listed below)**
No additional requirements.
- 9.8.5 SDR05I000: Indian country within the State of South Dakota, as well as the portion of the Pine Ridge Reservation located in Nebraska and the portion of the lands within the former boundaries of the Lake Traverse Reservation located in North Dakota**

(except for the Standing Rock Reservation which is covered under North Dakota permit NDR05I000 listed above)

No additional requirements.

9.8.6 UTR05I000: Indian country within the State of Utah, except Goshute and Navajo Reservation lands (see Region 9)

No additional requirements.

9.8.7 WYR05I000: Indian country within the State of Wyoming

No additional requirements.

9.9 EPA Region 9: California, Hawaii, Nevada, Guam, American Samoa, the Commonwealth of the Northern Mariana Islands, the Confederated Tribes of the Goshute Reservation in Utah and Nevada, Indian Country within the State of Arizona including the Navajo Reservation in Utah and New Mexico and Arizona, the Duck Valley Reservation in Idaho, and the Fort McDermitt Reservation in Oregon.

9.9.1 ASR050000: American Samoa

No additional requirements.

9.9.2 AZR05I000: Indian country within the State of Arizona, including Navajo Reservation lands in New Mexico and Utah

9.9.2.1 Hualapai Tribe

The following condition applies only to discharges on the Hualapai Tribe:

9.9.2.1.1 *Submission of NOI and SWPPP.* All Notices of Intent (NOI) for proposed stormwater discharges under this permit and all Stormwater Pollution Plans (SWPPPs) for stormwater discharges on Hualapai Tribal lands shall be submitted to the Water Resource Program through the Tribal Chairwoman for review and approval.

9.9.2.1.2 *Where to Submit Information.* All required or requested documents shall be sent to:

Water Resource Program through the Tribal Chairwoman
P.O. Box 179
Peach Springs, AZ 86434

9.9.2.2 Navajo Nation

The following conditions apply only to discharges on the Navajo Nation:

9.9.2.2.1 *Submission of NOI and SWPPP.* Courtesy copies of Notices of Intent (NOI) and Stormwater Water Pollution Plans (SWPPPs) shall be made available to Navajo EPA for facilities located on Navajo lands.

9.9.2.2.2 *Submission of Monitoring Data.* Copies of all monitoring reports must be provided to Navajo EPA for facilities located on Navajo lands.

9.9.2.2.3 *Authorization to Inspect.* Facilities located on Navajo lands and covered under this permit will be subject to compliance inspections by Navajo EPA staff with active Federal Inspector Credentials under authority of the Clean Water Act.

9.9.2.3 White Mountain Apache Tribe

The following condition applies only to discharges on the White Mountain Apache Tribe:

- 9.9.2.3.1 Submission of SWPPP.** The Storm Water Pollution Prevention Plan (SWPPP) must be available to the White Mountain Apache Water Resources Programs either electronically or hard copy upon request for review before a Notice of Intent (NOI) for comments from the White Mountain Apache Water Resources Programs. Failure to provide a SWPPP to the White Mountain Apache Water Resources Programs may result in denial of the water quality certification.
- 9.9.2.3.2 Submission of NOI.** Copies of all Notices of Intent (NOI) submitted to the EPA must also be sent concurrently to the White Mountain Apache Water Resources Programs. Discharges are not authorized by this permit unless an accurate and complete NOI has been submitted to the White Mountain Apache Tribe.
- 9.9.2.3.3 SWPPP Modification.** Any Storm Water Pollution Prevention Plan (SWPPP) modification, update or amendment shall be submitted to the White Mountain Apache Water Resources Programs either electronically or hard copy within seven (7) calendar days of its finalization. Failure to provide a SWPPP to the White Mountain Apache Water Resources Programs may result in denial of the water quality certification.
- 9.9.2.3.4 Submission of Monitoring Data.** All monitoring and analytical data (e.g. Discharge Monitoring Reports (DMRs), follow-up monitoring reports, Exceedance Reports for Numerical Effluent Limits, etc.) submitted to EPA must also be sent concurrently to the White Mountain Apache Water Resources Programs.
- 9.9.2.3.5 Submission of Annual Reports.** Copies of all Annual Reports submitted to the EPA must also be sent concurrently to the White Mountain Apache Water Resources Programs. Discharges are not authorized by this permit unless an accurate and complete Annual Report has been submitted to the White Mountain Apache Tribe.
- 9.9.2.3.6 Submission of Quarterly Visual Assessments.** Copies of all "Quarterly Visual Assessments" (Part 3.2) must be submitted either electronically or hard copy to the White Mountain Apache Water Resources Programs within seven (7) calendar days.
- 9.9.2.3.7 Submission of Corrective Action Documentation.** Copies of all "Corrective Action Documentation" (Part 4.4) must be submitted either electronically or hard copy to the White Mountain Apache Water Resources Programs within seven (7) calendar days.
- 9.9.2.3.8 Additional Reporting.** Any notice of release of oils or hazardous substances shall be submitted to the White Mountain Apache Water Resources Programs within twenty-four (24) hours of becoming aware of the situation or circumstance, followed by the reporting requirements of 40 CFR 110, 40 CFR 300, and 40 CFR 302 relating to spills or other releases of oils or hazardous substances. The permittee must also telephone the White Mountain Apache Water Resources Programs at (928) 338-4267 of any non-emergency spills or unauthorized discharge that may affect drinking water, supplies, ceremonial and recreational surface waters, elicit fish kills, harm wildlife or endangered and threaten species, or endanger human health or

the environment within eight (8) hours of becoming aware of the situation or circumstance, followed by a written report when it is sent to the EPA.

9.9.2.3.9 *Authorization to Inspect.* If requested by the White Mountain Apache Water Resources Programs, the permittee must allow the White Mountain Apache Tribe to perform its own routine or compliance inspection to ensure the permittee is in compliance and any discharge is not contributing to a violation of the permit and the White Mountain Apache Tribe's Water Quality Standards.

9.9.2.3.10 *Water Quality Standards.* If requested by the White Mountain Apache Water Resources Programs, the permittee shall provide additional information necessary for a "case by case" eligibility determination to assure compliance with the White Mountain Apache Tribe's Water Quality Standards. *Note: Upon receipt of a determination by the White Mountain Apache Tribe that discharges from a permittee under this general permit have reasonable potential to be causing or contributing to a violation of the White Mountain Apache Tribe's Water Quality Standards, EPA Region 9 would be notified. EPA Region 9 would then notify the permittee to either improve their Stormwater Pollution Prevention Plan (SWPPP) to achieve compliance with the White Mountain Apache Tribe's Water Quality Standards or have the permittee apply for and obtain an individual NPDES permit for those discharges per CFR 122.28 (B)(3).

9.9.2.3.11 *Alternative Permit.* Any industry discharging into waters of the United States that has been designated by the EPA or the White Mountain Apache Tribe as impaired or degraded water shall not be covered under this general permit but will be required to obtain an individual permit.

9.9.2.3.12 *Submission of NOT.* Before submitting a Notice of Termination (NOT), permittees must clearly demonstrate to the White Mountain Apache Water Resources Programs through a site visit or documentation that requirements for site stabilization have been met and any degradation has been mitigated. A short letter stating the stabilization requirements have been met will be sent to the permittee. Upon receipt the permittee may apply for an NOT to the EPA. Copies of the NOT submitted to the EPA must also be sent concurrently to the White Mountain Apache Water Resources Programs.

9.9.2.3.13 *Where to Submit Information.* All required or requested information mentioned above shall be sent to:

- Regular U.S. Delivery Mail:
White Mountain Apache Tribe Water Resources Programs
Attention: Tara Chief, Water Quality Officer
P.O. Box 816
Fort Apache, AZ 85926
- Or Electronically to: tarachief@wmat.us

9.9.3 CAR05I000: Indian country within the State of California

9.9.3.1 *Hoopa Valley Tribe*

The following conditions apply only to discharges on the Hoopa Valley Tribe:

- 9.9.3.1.1** *Submission of NOI.* All Notices of Intent (NOI) submitted for stormwater discharges under the general permits in Hoopa Valley Indian Reservation (HVIR) shall be submitted to the Tribal Environmental Protection Agency (TEPA).
- 9.9.3.1.2** *Submission of SWPPP.* All Stormwater Pollution Plans (SWPPPs) for stormwater discharge in HVIR shall be submitted to TEPA for review and approval.
- 9.9.3.2** *Twenty-Nine Palms Band of Mission Indians*
The following conditions apply only to discharges on the Twenty-Nine Palms Band of Mission Indians:
- 9.9.3.2.1** *Submission of Monitoring Data.* The Twenty-Nine Palms Tribal Water Quality Standards require that routine monitoring be performed quarterly at each sampling site. Additional special monitoring requirements include: a) Sampling following a significant storm event; and b) Sampling in the event of an accidental spill. Monitoring results for discharges into Twenty-Nine Palms Tribal waters must be reported to Twenty-Nine Palms Tribal EPA.
- 9.9.3.2.2** *Certification.* Certification does not relieve the applicant of the responsibility to comply with applicable local, state, or federal regulations or statutes, including regulations affecting any discharge into waters of the U.S. Copies of this certification shall be kept on the job site and readily available for reference by tribal members and tribal representatives. If the project is operated in a manner not consistent with the MSGPs, the permittee will be in violation of this certification.
- 9.9.3.2.3** *Pollution Prevention.* All practicable measures and precautions must be taken to prevent pollution affecting public health, fish, shellfish, wildlife, and recreation due to turbidity, pH, temperature, nutrients, suspended solids, floating debris, visible oil and grease, or other pollutants entering tribal waters, including wetlands.
- 9.9.3.2.4** *Spills or Leaks.* All equipment operated within any tribal waters must be cleaned away from the tribal waters and maintained to prevent fuel and oil leaks. These methods include, but are not limited to: offsite/ upland fuel and oil storage and refueling areas, on-site spill containment equipment, a spill contingency plan, and spill prevention/contaminant training for on-site personnel. Should a spill of petroleum products or chemicals occur, immediately call the National Response Center at (800) 424-8802 and the Tribal Environmental Protection Agency at (760) 398-6767.
- 9.9.3.2.5** *Ground Disturbance.* Ground disturbance shall not exceed the minimum necessary.
- 9.9.3.2.6** *Minimizing Adverse Impacts.* All projects using the MSGP must avoid discharges to the maximum extent practicable, and utilize the best available and practicable means of minimizing the adverse impact of discharges that cannot be avoided.
- 9.9.4** **GUR050000: Island of Guam**
No additional requirements.
- 9.9.5** **JAR050000: Johnston Atoll**
No additional requirements.

- 9.9.6 **MWR050000: Midway Island and Wake Island**
No additional requirements.
- 9.9.7 **MPR050000: Commonwealth of the Northern Mariana Islands**
No additional requirements.
- 9.9.8 **NVR051000: Indian country within the State of Nevada, including the Duck Valley Reservation in Idaho, the Fort McDermitt Reservation in Oregon and the Confederated Tribes of the Goshute Reservation in Utah**
No additional requirements.
- 9.10 **Region 10: Alaska, Idaho (except see Region 9 for Duck Valley Reservation lands), Oregon (except see Region 9 for Fort McDermitt Reservation), Washington.**
- 9.10.1 **AKR05F000: Areas in the Denali National Park and Preserve subject to industrial activity by a Federal Operator**
No additional requirements.
- 9.10.2 **AKR05I000: Indian country lands within the State of Alaska**
No additional requirements.
- 9.10.3 **IDR050000: The State of Idaho, except Indian country lands**
Permittees in the State of Idaho must meet the following conditions. For the complete text of Idaho's certification including the full anti-degradation analysis, please visit the IDEQ website at <http://www.deq.idaho.gov/media/60177118/multi-sector-general-permit-401-certification.pdf>.
- 9.10.3.1 ***New or Expanding Discharges.*** New dischargers or existing dischargers wishing to expand their discharge to high-quality waters are only eligible for coverage under the MSGP if the discharger establishes, to the satisfaction of EPA and DEQ, that the new or expanded discharge will not result in an increase in the concentration of pollutants relevant to the use for which the water is considered high quality, or that the increase constitutes insignificant degradation as defined in the WQS (IDAPA 58.01.02.052.08.a).
- A new discharger or an existing discharger wishing to expand must include an analysis regarding whether the new or expanded discharge will cause an increase in the pollutants relevant to the use for which the water is considered high quality, and if there is an increase, whether that increase constitutes insignificant degradation in the NOI, or in the planned changes report. These NOIs and planned changes reports must be submitted to both EPA and DEQ.
- If DEQ determines the new discharge or planned changes of an existing discharger will result in significant degradation, the permittee will need to obtain DEQ's approval of an alternatives analysis (IDAPA 58.01.02.052.08.c), a socioeconomic justification (IDAPA 58.01.02.052.08.d) and information regarding other source controls (IDAPA 59.01.02.052.08.b).**
- 9.10.3.2 ***Follow-up Monitoring for Benchmark Concentrations.*** If ***all*** four quarterly samples do not exceed the benchmark, the permittee is not required to conduct any additional quarterly monitoring for that parameter. If ***any*** of the four quarterly

samples exceed the benchmark, then the permittee must follow the additional requirements in Section 6.2.1.2 of the MSGP, with the following modifications:

- If the permittee elects to make any necessary modifications and continue quarterly monitoring, such monitoring must occur until the results from *all four consecutive quarterly samples are below the benchmark*.

9.10.3.3 *Monitoring of Discharges to Impaired Waters.* To determine the support status of the affected water body, persons filing a Notice of Intent (NOI) for coverage under this general permit must use the most current EPA Integrated Report, available on Idaho DEQ's website: <http://deq.idaho.gov/media/725927-2010-integrated-report.pdf>. DEQ's webpage also has a link to the state's map-based Integrated Report which presents information from the Integrated Report in a searchable, map-based format: <http://mapcase.deq.idaho.gov/wq2010/> For water bodies included on the states 303(d) list (Category 5 of the Integrated Report), identified as "cause unknown", the permittee must monitor for the pollutants listed in the cause comments section of the report (e.g., nutrients, metals, pesticides).

9.10.3.4 *Stormwater Pollution Prevention Plan (SWPPP) Availability.* If requested by Idaho Department of Environmental Quality (DEQ), the permittee must submit a copy of the SWPPP to DEQ within fourteen (14) days of the request.

9.10.3.5 *Submission of NOIs, Monitoring Data, and Additional Reporting.* Copies of the following information must be sent to the appropriate DEQ regional office at the same time it is submitted to EPA:

- NOIs and NOTs;
- Monitoring data collected pursuant to Part 6 of the MSGP, well as any additional monitoring data required by this Part;
- Exceedance Reports as required by Part 6.3;
- Planned Changes Reports

Both monitoring data and exceedance reports must be sent to the appropriate DEQ regional office with thirty (30) days of receipt of analytical results. DEQ Regional Office contact information is listed in Table 9.10.3.5.1.

Table 9.10.3.5.1: Idaho Regional Office contact information

Regional Office	Address	Phone
Boise	1445 N. Orchard Rd, Boise 83706	208-373-0550
Coeur d'Alene	2110 Ironwood Parkway, Coeur d'Alene 83814	208-769-1422
Idaho Falls	900 N. Skyline, Ste B, Idaho Falls 83402	208-528-2650
Lewiston	1118 "F" St., Lewiston 83501	208-799-4370
Pocatello	444 Hospital Way, Pocatello 83201	208-236-6160
Twin Falls	650 Addison Ave., W., Ste 110, Twin Falls 83301	208-736-2190
State Office	1410 N. Hilton Rd., Boise 83706	208-373-0574

9.10.3.6 *Benchmark Monitoring for Arsenic and Selenium.* The benchmark values for arsenic and selenium are equal to 0.15 mg/L and 0.005 mg/L, respectively. These values are equivalent to Idaho's chronic water quality criteria. Given that storms are discrete events of relatively short duration, DEQ believes it is more appropriate to use the acute water quality criteria as benchmark values. Therefore, the benchmark value

for arsenic and selenium can be set equal to 0.34 mg/L and 0.02 mg/L, respectively, and still comply with Idaho WQS.

9.10.3.7 Additional Conditions Applicable to Sector L (Landfills, Land Application Sites and Open Dumps). Stormwater entering a landfill must be managed as leachate, including run off from areas that have received daily cover which may have contacted waste material, and thus is not eligible for coverage under the MSGP (See 40 CFR 258.26(a)(2); Municipal Solid Waste Landfill Criteria Technical Manual, EPA 530-R-93-017, 1998). Stormwater from a closed landfill or from areas of the landfill that have received final cover is not leachate, and may be covered under the MSGP.

9.10.3.8 Additional Reporting of Discharges Containing Hazardous Materials or Petroleum Products. Any unauthorized discharges containing hazardous materials or petroleum products must be reported to the Idaho State Communications Center by calling 1-800-632-8000 or 208-846-7610.

Spills must also be reported to the appropriate DEQ Regional Office (Table 9.10.3.5.1). Spills of petroleum products that exceed 25 gallons or that cause a visible sheen on nearby surface waters should be reported to DEQ within 24 hours. Petroleum product spills of less than 25 gallons or spills that do not cause a sheen on nearby surface waters must only be reported to DEQ if clean-up cannot be accomplished within 24 hours (IDAPA 58.01.02.850, 58.01.02.851, 58.01.02.852).

9.10.3.9 Numeric Effluent Limitations and Benchmark Monitoring for pH. The MSGP includes a pH range of 6.0 – 9.0 standard units, which does not comply with Idaho WQS (IDAPA 58.01.02.250.01.a). Therefore, numeric effluent limitations and benchmark monitoring concentrations for pH shall be 6.5 – 9.0 standard units.

9.10.3.10 Numeric Effluent Limitations for Total Arsenic and Total Zinc. The MSGP includes a total arsenic effluent limitation (Sector K) of 1.1 mg/L, which exceeds Idaho's acute and chronic criteria of 0.34 mg/L and 0.15 mg/L, respectively. Given that storms are discrete events of relatively short duration, DEQ believes it is more appropriate to use the acute water quality criteria as benchmark values; therefore DEQ requires the total arsenic effluent limit to be set equal to Idaho's acute criterion of 0.34 mg/L.

The MSGP includes a monthly average maximum numeric effluent limit for zinc of 0.296 mg/L (Sector K), which will only comply with water quality standards when hardness is greater than 290 mg/L. Similarly, the maximum daily limit and the monthly average maximum limit for zinc is 0.2 mg/L and 0.11 mg/L, respectively (Sector L); these limits do not generally comply with WQS when hardness values for the receiving water are less than 130 mg/L and 85 mg/L, respectively. Therefore, DEQ requires that the total zinc numeric effluent limit be equal to the acute water quality criterion of 0.12 mg/L.

9.10.4 IDR05I000: Indian country lands within the State of Idaho, except Duck Valley Reservation lands, which are covered under Nevada permit NVR05I000

9.10.4.1 Shoshone-Bannock Tribes

The following conditions apply only to discharges to waters of the Shoshone-Bannock Tribes:

9.10.4.1.1 Submission of NOI, Monitoring Data, and Reports. Copies of the Notices of Intent (NOI), Monitoring data collected pursuant to section 6.2 of this permit, and Exceedance Reports must be sent to the Shoshone-Bannock Tribes Water Resources Department (SBT-WRD). The monitoring data and exceedance reports must be sent to the SBT-WRD within thirty (30) days of receipt of analytical results.

9.10.4.1.2 Submission of SWPPP. If requested by the SBT-WRD, the permittee must submit a copy of the SWPPP to SBT-WRD within fourteen (14) days of the request.

9.10.4.1.3 Where to Submit Information. All required or requested documents shall be sent to:

Shoshone-Bannock Tribes Water Resources Department
P.O. Box 306 Pima Drive
Fort Hall, ID 83203
Phone: (208) 239-4582
Fax: (208) 239-4592

9.10.5 ORR05I000: Indian country lands within the State of Oregon, except Fort McDermitt Reservation lands, which are covered under Nevada permit NVR05I000

9.10.5.1 Confederated Tribes of the Umatilla Indian Reservation

Projects located within the exterior boundaries of the Umatilla Indian Reservation must meet the following conditions:

9.10.5.1.1 Water Quality Standards. The operator shall be responsible for achieving compliance with Confederated Tribes of the Umatilla Indian Reservation's (CTUIR) Water Quality Standards.

9.10.5.1.2 Submission of NOI. The operator shall submit a copy of the Notice of Intent (NOI) to be covered by this permit to the CTUIR Water Resources Program at the address below, at the same time it is submitted to EPA.

9.10.5.1.3 Submission of SWPPP. The operator shall be responsible for submitting all Stormwater Pollution Prevention Plans (SWPPPs) required under this general permit to the CTUIR Water Resources Program for review and determination that the SWPPP is sufficient to meet Tribal Water Quality Standards, prior to the beginning of any discharge activities taking place.

9.10.5.1.4 Additional Reporting. The operator shall be responsible for reporting an exceedance to Tribal Water Quality Standards to the CTUIR Water Resources Program at the same time it is reported to EPA.

9.10.5.1.5 Additional Requirements for Historic Properties Preservation. The applicant shall submit copies of each NOI to the CTUIR Tribal Historic Preservation Office (THPO). The NOI shall define the undertaking's area of potential effect (APE). This information will be used to determine whether or not the undertaking has the potential to affect historic properties. To be in compliance with the NHPA and be eligible for coverage under this permit, the operator must meet the following criteria:

- The THPO will be provided 30 days to comment on the APE as defined in the permit application.

- If the project is an undertaking, a cultural resource investigation must occur. All fieldwork must be conducted by qualified personnel (as outlined by the [Secretary of Interior's Standards and Guidelines](#)) and documented using [Oregon Reporting Standards](#). The resulting report must be submitted to the THPO and the THPO must concur with the findings and recommendations before any ground disturbing work can occur. The THPO requires 30 days to review all reports.
- The operator must obtain THPO concurrence in writing. If historic properties are present, this written concurrence will outline measures to be taken to prevent or mitigate effects to historic properties.

9.10.5.1.6 Where to Submit Information. The NOI, SWPPP, and reports must be sent to:

Confederated Tribes of the Umatilla Indian Reservation
Water Resources Program
46411 Timine Way
Pendleton, OR 97801
(541) 966-2420

All required Historic Properties Preservation information must be sent to:

Confederated Tribes of the Umatilla Indian Reservation
Cultural Resources Protection Program
Tribal Historic Preservation Office
46411 Timine Way
Pendleton, OR 97801
(541) 429-7234

9.10.5.2 Confederated Tribes of the Warm Springs Indian Reservation

The following conditions apply for projects within the exterior boundaries of the Warm Springs Indian Reservation:

- 9.10.5.2.1 Water Quality Standards.** The operator shall be responsible for achieving compliance with the Confederated Tribes of the Warm Springs Indian Reservation's Water Quality Standards. (Tribal Ordinance 80).
- 9.10.5.2.2 Submission of NOI.** The operator shall submit a copy of the Notice of Intent (NOI) to be covered by this permit to the Tribes' Environmental Office at the address below, at the same time it is submitted to EPA.
- 9.10.5.2.3 Submission of SWPPP.** The operator shall be responsible for filing all Stormwater Pollution Prevention Plans (SWPPP) required under this permit to the Tribes' Environmental Office for review and determination that the SWPPP is sufficient to meet Tribal Water Quality Standards, prior to the beginning of any discharge activities taking place.
- 9.10.5.2.4 Additional Reporting.** The operator shall be responsible for reporting an exceedance to Tribal Water Quality Standards to the Tribes' Environmental Office at the same time it is reported to EPA.
- 9.10.5.2.5 Tribal Cultural Resources.** The applicant shall submit copies of each NOI to the Tribal Historic Preservation Office (THPO). The NOI shall define the undertaking's area of potential effect (APE). This information will be used to determine whether or not the

undertaking has the potential to affect historic properties. To be in compliance with the NHPA and be eligible for coverage under this permit, the operator must meet the following criteria:

- The THPO will be provided 30 days to comment on the APE as defined in the permit application.
- If the project is an undertaking, a cultural resource investigation must occur. All fieldwork must be conducted by qualified personnel (as outlined by the Secretary of Interior's Standards and Guidelines). The resulting report must be submitted to the THPO and the THPO must concur with the findings and recommendations before any ground disturbing work can occur. The THPO requires 30 days to review all reports.
- The operator must obtain THPO concurrence in writing. If historic properties are present, this written concurrence will outline measures to be taken to prevent or resolve effects to historic properties.

9.10.5.2.6 *Where to Submit Information.* All required or requested documents shall be sent to:

Confederated Tribes of Warm Springs
Branch of Natural Resources
Tribal Environmental Office
P.O. Box C
Warm Springs
Oregon, 97761
541-553-2002

9.10.6 WAR05I000: Indian country lands within the State of Washington

9.10.6.1 *Confederated Tribes of the Colville Reservation*

No Additional Requirements.

9.10.6.2 *Lummi Nation*

The following conditions apply only to discharges within the Lummi Nation:

9.10.6.2.1 *Certification.* This certification does not exempt and is provisional upon compliance with other applicable statutes and codes administered by federal and Lummi tribal agencies. Pursuant to Lummi Code of Laws (LCL) 17.05.020(a), the operator must also obtain a land use permit from the Lummi Planning Department as provided in Title 15 of the Lummi Code of Laws and regulations adopted thereunder.

9.10.6.2.2 *Submission of SWPPP.* Pursuant to LCL 17.05.020, each operator shall develop and submit a Storm Water Pollution Prevention Plan to the Lummi Water Resources Division for review and approval by the Water Resources Manager prior to beginning any discharge activities.

9.10.6.2.3 *Water Quality Standards.* Pursuant to LCL Title 17, each operator shall be responsible for achieving compliance with the Water Quality Standards for Surface Waters of the Lummi Indian Reservation (Lummi Administrative Regulations [LAR] 17 LAR 07.010 through 17 LAR 07.210).

9.10.6.2.4 *Submission of NOI, Monitoring Data, Reports and NOT.* Each operator shall submit a copy of the Notice of Intent (NOI), analytical monitoring results, any Exceedance Reports, Annual Reports, and Notice of Termination (NOT) to the Lummi Water

Resources Division at the same time it is submitted to the Environmental Protection Agency (EPA).

9.10.6.2.5 *Where to Submit Information.* All required or requested documents shall be sent to:

Lummi Natural Resources Department
ATTN: Water Resources Manager
2665 Kwina Road
Bellingham, WA 98226

Please see the Lummi Nation website (www.lummi-nsn.gov) to review a copy of Title 17 of the Lummi Code of Laws and the references upon which the conditions identified above are based.

9.10.6.3 *Puyallup Tribe of Indians*

The following conditions apply only to discharges to waters of the Puyallup Tribe of Indians:

9.10.6.3.1 *Submission of NOI, NOT and No Exposure.* Copies of the Notice of Intent (NOI), Notice of Termination (NOT), and No Exposure Certification shall be submitted to the Tribe's Natural Resources Department.

9.10.6.3.2 *Submission of SWPPP.* A copy of the Stormwater Pollution Plan (SWPPP) shall be submitted to the Tribe's Natural Resources Department at least thirty (30) days in advance of submitting the NOI to EPA.

9.10.6.3.3 *Compliance with Tribe's Water Quality Standards.* Each permittee shall be responsible for achieving compliance with the Tribe's Water Quality Standards, including anti-degradation provisions.

9.10.6.3.4 *Submission and Approval of Sampling Plan.* A sampling plan shall be submitted to the Tribe's Natural Resources Department and approved by the Tribe prior to initiation of monitoring required under Part 6 of this permit.

9.10.6.3.5 *Submission of Monitoring Data and Reports.* The results of any monitoring required by this permit and reports must be sent to the Tribe's Natural Resources Department, including a description of the corrective actions required and undertaken to meet effluent limits or benchmarks (as applicable).

9.10.6.3.6 *Authorization to Inspect.* The Natural Resources Department may conduct an inspection of any facility covered by this permit to ensure compliance with tribal water quality standards. The Department may enforce its certification conditions.

9.10.6.3.7 *Tribal Endangered Species Act Consultation.* Consultation with the Tribe that addresses the effects of your facility's stormwater discharges, allowable non-stormwater discharges, and stormwater discharge-related activities on federally-listed threatened or endangered species and designated critical habitat. Information required as part of the consultation shall include:

- Basis of the determination that your stormwater discharges, allowable non-stormwater discharges, and stormwater discharge-related activities will not adversely affect federally-listed as endangered or threatened ("listed") under the Endangered Species Act (ESA) and will not result in the adverse

modification or destruction of designated critical habitat including appropriate measures to be undertaken to avoid or eliminate the likelihood of adverse effects (under Criterion C in Section 1.1.4.5); and

- Notice of Intent form complete with extent of action area, list of federally-listed threatened or endangered species or designated critical habitat likely to occur in action area, list of potential pollutants (if you are a new discharger) or list of pollutants for which you have ever exceeded an applicable benchmark of effluent limitation guideline, or for which your discharge has ever been found to cause or contribute to an exceedance of an applicable water quality standard (if you are an existing discharger).

9.10.6.3.8 Discharges to CERCLA Sites. This permit does not authorize direct stormwater discharges to certain sites undergoing remedial cleanup actions pursuant to the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) unless first approved by the appropriate EPA Regional office. In the case of the Commencement Bay, Near Shore/Tide Flats (WAD980726368), the Puyallup Tribe also requests notification by the facility and consultation with EPA prior to discharge. Contaminants at this site include but are not limited to: dioxins, furans, arsenic, copper, lead, zinc, 4-methyl-phenol, Hex-CB, HPAHs, PCBs, PCE, cadmium, mercury, and LPAHs.

9.10.6.3.9 Discharge-related Activities that have Potential to Cause an Adverse Effect on Historic Properties. Installation of stormwater controls that involve subsurface disturbances may potentially have an adverse impact on historic properties. Procedures detailed in Appendix F of the permit shall be completed. Brandon Reynon, the Puyallup Tribe's Cultural Regulatory Specialist, shall be contacted prior to initiating discharge-related activities that may have an impact on historic properties. His contact information is (253) 573-7986 and Brandon.reynon@puyalluptribe.com

9.10.6.3.10 Where to Submit Information. All required or requested documents shall be sent to the:

Puyallup Tribe of Indians
Department of Natural Resources c/o Bill Sullivan and Char Naylor
3009 E. Portland Avenue
Tacoma, Washington 98404

9.10.6.4 Spokane Tribe of Indians

Permit coverage not available until Clean Water Act (CWA) 401 certification is received.

9.10.6.5 Swinomish Indian Tribal Community

The following conditions apply only to discharges to waters of the Swinomish Indian Tribal Community:

9.10.6.5.1 Certification. This certification does not exempt and is provisional upon compliance with other applicable statutes and codes administered by federal and Swinomish Indian Tribal Community (SITC) agencies. Operator must obtain any applicable SITC permits.

- 9.10.6.5.2 Submission of SWPPP.** Each operator shall develop a Storm Water Pollution Prevention Plan (SWPPP) and submit it to the Swinomish Department of Environmental Protection (SDEP) for review and approval by the Director prior to beginning any discharge activities under the permit.
- 9.10.6.5.3 Water Quality Standards.** Each operator shall be responsible for achieving compliance with applicable Water Quality Standards for Surface Waters of the Swinomish Indian Reservation.
- 9.10.6.5.4 Submission of NOI, Monitoring Data, Reports and NOT.** Each operator shall submit a copy of the Notice of Intent (NOI), analytical monitoring results and Exceedance Reports if any, Annual Reports, and Notice of Termination (NOT) to the Swinomish DEP at the same time it is submitted to EPA.
- 9.10.6.5.5 Alternative Permit.** The permit does not allow discharge of any pollutant on EPA's Persistent Bioaccumulative and Toxic pollutant list. Operator must eliminate such discharge or apply for an Individual permit.
- 9.10.6.5.6 Historic Properties Preservation.** If any archeological/cultural resources or human remains are uncovered during the course of operations, all work will cease and operator must contact the Swinomish Tribal Historic Preservation Officer at 466-7352 or (cell) 840-4127.
- 9.10.6.5.7 Where to Submit Information.** All submittals and correspondence required by this certification including but not limited to Storm Water Pollution Prevention Plans (SWPPP), monitoring results, reports of exceedances, and other notices are to be directed to the Environmental Director, Swinomish Department of Environmental Protection, 11430 Moorage Way, LaConner, WA 98257, phone (360) 466-7201, fax (360) 466-1615, and shall reference 401 Certification # 2014-01 and NPDES MSGP WAR-51000.
- 9.10.6.6 Tulalip Tribes**
The following conditions apply only to discharges on waters of the Tulalip Tribes:
- 9.10.6.6.1 Submission of NOI, NOT, and No Exposure.** Copies of the Notice of Intent (NOI), Notice of Termination (NOT), and No Exposure Certification shall be submitted to the Tribe's Natural Resources Department.
- 9.10.6.6.2 Submission of SWPPP.** A copy of the Stormwater Pollution Prevention Plan (SWPPP) shall be submitted to the Tribe's Natural Resources Department at least thirty (30) days in advance of submitting the NOI to EPA.
- 9.10.6.6.3 Compliance with Tribe's Water Quality Standards.** Each permittee shall be responsible for achieving compliance with the Tribe's Water Quality Standards.
- 9.10.6.6.4 Submission and approval of Sampling Plans.** A sampling plan shall be submitted to the Tribe's Natural Resources Department and approved by the Tribe prior to initiation of monitoring required under Part 6 of this permit.
- 9.10.6.6.5 Submission of Monitoring Data and Reports.** The results of any monitoring required by this permit and reports must be sent to the Tribe's Natural Resources Department,

including a description of the corrective actions required and undertaken to meet effluent limits or benchmarks (as applicable).

- 9.10.6.6.6 Authorization to Inspect.** The Natural Resources Department may conduct an inspection of any facility covered by this permit to ensure compliance with tribal water quality standards. The Department may enforce its certification conditions.
- 9.10.6.6.7 Incorporation by reference.** This certification does not exempt the applicant from compliance with other statutes and codes administered by the tribes, county, state and federal agencies.
- 9.10.6.6.8 Invalidation.** This certification will cease to be valid if the project is constructed and/or operated in a manner not consistent with the project description contained in the permit. This certification will also cease to be valid and the applicant must reapply with an updated application if information contained in the permit is voided by subsequent submittals.
- 9.10.6.6.9 Modification.** Nothing in this certification waives the Tulalip Tribes of Washington's authority to issue modifications to this certification if additional impacts due to operational changes are identified, or if additional conditions are necessary to protect water quality or further protect the Tribal Communities interest.
- 9.10.6.6.10 Permits on-site.** A copy of the permit shall be kept on the job site and readily available for reference by the construction supervisor, construction managers and foreman, and Tribal inspectors.
- 9.10.6.6.11 Project Management.** The applicant shall ensure that project managers, construction managers and foreman, and other responsible parties have read and understand conditions of the permit, this certification, and other relevant documents, to avoid violations or noncompliance with this certification.
- 9.10.6.6.12 Emergencies/Contingency Measures.** In the event the operator is unable to comply with the permit terms and conditions due to any cause, the contractor shall immediately take action to stop the violation and correct the problem, and immediately report spill events to EPA's 24-hour Spill Response Team at (206) 553-1263 and the Tulalip Tribes Police Department (425) 508-1565. Compliance with this condition does not relieve the applicant from responsibility to maintain continuous compliance with the terms and conditions of this certification or the resulting liability from failure to comply.
- 9.10.6.6.13 Tribal Endangered Species Act Consultation.** Consultation with the Tribes that addresses the effects of a facility's stormwater discharges, allowable non-stormwater discharges, and stormwater discharge-related activities on federally-listed threatened or endangered species and designated critical habitat. Information required as part of the consultation shall include:
- Basis of the determination that your stormwater discharges, allowable non-stormwater discharges, and stormwater discharge-related activities will not adversely affect federally-listed as endangered or threatened ("listed") under the Endangered Species Act (ESA) and will not result in the adverse modification or destruction of designated critical habitat including appropriate measures to be undertaken to avoid or eliminate the likelihood of adverse effects (under Criterion C in Section 1.1.4.5); and

- Notice of Intent form complete with extent of action area, list of federally-listed threatened or endangered species or designated critical habitat likely to occur in action area, list of potential pollutants (if you are a new discharger) or list of pollutants for which you have ever exceeded an applicable benchmark or effluent limitations guideline, or for which your discharge has ever been found to cause or contribute to an exceedance of an applicable water quality standard (if you are an existing discharger).

9.10.6.6.14 Discharges to CERCLA Sites. This permit does not authorize direct stormwater discharges to certain sites undergoing remedial cleanup actions pursuant to the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) unless first approved by the appropriate EPA Regional office. In the case of the Tulalip Landfill site (WAD980639256), the Tulalip Tribes also requests notification by the facility and consultation with EPA prior to discharge. Contaminants at this site may include but are not limited to: dioxins, furans, arsenic, copper, lead, zinc, 4-methyl-phenol, Hex-CB, HPAHs, PCBs, PCE, cadmium, mercury, and LPAHs.

9.10.6.6.15 Discharge-related Activities that have Potential to Cause an Adverse Effect on Historic Properties. Installation of stormwater controls that involve subsurface disturbances may potentially have an adverse impact on historic properties. Procedures detailed in Appendix F of the permit shall be completed. Richard Young, of the Tulalip Tribe's Cultural Resources Department shall be contacted prior to initiating discharge-related activities that may have an impact on historic properties. His contact information is (360) 716-2652 and ryoung@tulaliptribesnsn.gov.

9.10.6.6.16 Where to Submit Information: All required or requested documents shall be sent to the:

Tulalip Tribes Natural Resources Environmental Division
c/o Kurt Nelson and Valerie Streeter
6704 Marine Drive, Tulalip, Washington 98271

9.10.7 WAR05F000: Areas in the State of Washington, except those located on Indian Country lands, subject to industrial activity by a Federal Operator

Permittees in the State of Washington must meet the following conditions:

9.10.7.1 Discharges shall not cause or contribute to a violation of surface water quality standards (Chapter 173-201A WAC), ground water quality standards (Chapter 173-200 WAC), sediment management standards (Chapter 173-204 WAC), and human health-based criteria in the National Toxics Rule (40 CFR Part 131.36). Discharges that are not in compliance with these standards are not authorized.

9.10.7.2 Prior to the discharge of stormwater and non-stormwater to waters of the state, the Permittee shall apply all known, available, and reasonable methods of prevention, control, and treatment (AKART). This includes the preparation and implementation of an adequate Stormwater Pollution Prevention Plan (SWPPP), with all appropriate best management practices (BMPs) installed and maintained in accordance with the SWPPP and the terms and conditions of this permit.

9.10.7.3 Additional Sampling Requirements and Effluent Limits for Discharges to Certain Impaired Waters and Puget Sound Sediment Cleanup Sites.

1. Permittees discharging to a 303(d)-listed waterbody (Category 5), either directly or indirectly through a stormwater drainage system, shall comply with the applicable sampling requirements and numeric effluent limits in Table 9.10.7.3.1.

For purposes of this condition, “applicable sampling requirements and effluent limits” means the sampling and effluent limits in Table 1 that correspond to the specific parameter(s) the receiving water is 303(d)-listed for at the time of permit coverage, or Total Suspended Solids (TSS) if the waterbody is 303(d)-listed (Category 5) for sediment quality at the time of MSGP coverage.

If a discharge point is subject to an impaired waterbody effluent limit for a parameter that also has a benchmark, the effluent limit supersedes the benchmark. All references to Category 5 pertain to the 2012 EPA-approved Water Quality Assessment.

The 2012 EPA-approved Water Quality Assessment may be viewed online at: http://www.ecy.wa.gov/programs/wq/links/wq_assessments.html.

Table 9.10.7.3.1: Sampling and Effluent Limits Applicable to Discharges to 303(d)-listed Waters

Parameter	Units	Maximum Daily ^a		Analytical Method ^b	Laboratory Quantitation Level ^c	Sampling Frequency ^d
		Freshwater	Marine			
Turbidity	NTUs	25	25	EPA 180.1 Meter	0.5	1/quarter
pH	SU	j	Between 7.0 and 8.5	Meter	±0.1	1/quarter
Fecal Coliform Bacteria	# colonies/100 mL	i	i	SM 9222D	20 CFU/100 mL	1/quarter
TSS ^f	mg/L	30	30	SM2540-D	5	1/quarter
Phosphorus, Total	mg/L	g	g	EPA 365.1	0.01	1/quarter
Total Ammonia (as N)	mg/L	g	g	SM 4500 NH ³ -GH	0.3	1/quarter
Copper, Total	µg/L	g	g	EPA 200.8	2.0	1/quarter
Lead, Total	µg/L	g	g	EPA 200.8	0.5	1/quarter
Mercury, Total	µg/L	2.1	1.8	EPA1631E	0.0005	1/quarter
Zinc, Total	µg/L	g	g	EPA 200.8	2.5	1/quarter
Pentachlorophenol	µg/L	9 ^h	g	EPA 625	1.0	1/quarter

- a. Maximum daily effluent limit means the highest allowable daily discharge. The daily discharge means the discharge of a pollutant measured during a calendar day. The daily discharge is the average measurement of the pollutant over the day; this does not apply to pH.
- b. Or other equivalent method with the same reporting level.
- c. The Permittee shall ensure laboratory results comply with the quantitation level (QL) specified in the table. However, if an alternate method from 40 CFR Part 136 is sufficient to produce measurable results in the sample, the Permittee may use that method for analysis. If the Permittee uses an alternative method it must report the test method and QL on the DMR. If the Permittee is unable to obtain the required QL due to matrix effects, the Permittee must report the matrix-specific method detection level (MDL) and QL on the DMR.
- d. 1/quarter means at least one sample taken each quarter, e.g., Q1 = Jan 1 – March 31, Q2 = April 1 – June 30.
- e. Permittees shall use either a calibrated pH meter consistent with EPA 9040 or an approved state method.
- f. Permittees who discharge to a waterbody 303(d)-listed (Category 5) for sediment quality shall sample the discharge for TSS.
- g. Site-specific effluent limitation will be assigned at the time of permit coverage.
- h. Based on a pH of 7.0.

- i. A numeric effluent limit does not apply, but Permittees must sample according to Table 9.10.7.3.1. In addition, the following mandatory BMPs shall be incorporated into the SWPPP and implemented; the Permittee must:
 - 1) Use all known, available and reasonable methods to prevent rodents, birds, and other animals from feeding/nesting/roosting at the facility. Nothing in this section shall be construed as allowing violations of any applicable federal, state or local statutes, ordinances, or regulations including the Migratory Bird Treaty Act.
 - 2) Perform at least one annual dry weather inspection of the stormwater system to identify and eliminate sanitary sewer cross-connections.
 - 3) Install structural source control BMPs to address on-site activities and sources that could cause bacterial contamination (e.g., dumpsters, compost piles, food waste, and animal products).
 - 4) Implement operational source control BMPs to prevent bacterial contamination from any known sources of fecal coliform bacteria (e.g., animal waste).
 - 5) Conduct additional bacteria-related sampling and/or BMPs, if ordered by Ecology on a case-by-case basis.
- j. The effluent limit for a Permittee who discharges to a freshwater body 303(d)-listed for pH is: Between 6.0 and 8.5, if the 303(d)-listing is for high pH only; Between 6.5 and 9.0, if the 303(d)-listing is for low pH only; and Between 6.5 and 8.5 if the 303(d)-listing is for both low and high pH. All pH effluent limits are applied end-of-pipe.

2. Permittees discharging to a Puget Sound Sediment Cleanup Site¹, either directly or indirectly through a stormwater drainage system, shall comply with this section:

- a. Permittees shall sample the discharge for Total Suspended Solids (TSS) in accordance with Table 9.10.7.3.2.
- b. If the waterbody is listed within Category 5 (sediment medium) where the outfall discharges to the waterbody, the discharge is subject to the TSS numeric effluent limit in Table 9.10.7.3.1.
- c. If the waterbody is not listed within Category 5 (sediment medium) where the outfall discharges to the waterbody (e.g., Category 4B, etc.), the discharge is subject to the TSS benchmark in Table 9.10.7.3.2. If the discharge is subject to more than one TSS benchmark value (i.e., two different benchmarks), the lower benchmark supersedes the higher one. If a discharge exceeds the TSS benchmark, the Permittee shall implement corrective actions in accordance with the MSGP.
- d. Permittees shall remove accumulated solids from storm drain lines (including inlets, catch basins, sumps, conveyance lines, and oil/water separators) owned or controlled by the Permittee at least once during the term of the MSGP.

Permittees shall conduct line cleaning operations (e.g., jetting, vacuuming, removal, loading, storage, and/or transport) using BMPs to prevent discharges of storm drain solids to surface waters of the state.

Removed storm drain solids and liquids shall be disposed of in accordance with applicable laws and regulations and documented in the SWPPP.

¹ Puget Sound Sediment Cleanup Site means: Category 4B (Sediment) portions of Budd Inlet (Inner), Commencement Bay (Inner), Commencement Bay (Outer), Dalco Passage and East Passage, Duwamish Waterway (including East and West Waterway), Eagle Harbor, Elliot Bay, Hood Canal (North), Liberty Bay, Rosario Strait, Sinclair Inlet, and Thea Foss Waterway; Category 5 (Sediment) portions of the Duwamish Waterway (including East and West Waterway), and Port Gardner and Inner Everett Harbor; and the Port Angeles Harbor sediment cleanup area, as mapped on Ecology's ISGP website. All references to Category 4B and 5 pertain to the 2012 EPA-approved Water Quality Assessment, available online at: http://www.ecy.wa.gov/programs/wq/links/wq_assessments.html

- e. Prior to removing storm drain solids according to Condition 2.D, Permittees shall sample and analyze storm drain solids in accordance with Table 9.10.7.3.3. Storm drain solids must be collected/sampled from a representative catch basin, sump, pipe, or other feature within the storm drain system that corresponds to the discharge point where Total Suspended Solids (TSS) samples are collected per these conditions. Samples may be either a single grab sample or a composite sample. Samples must be representative of the storm drain solids generated and accumulated in the facility's drainage system. To the extent possible, sample locations must exclude portions of the drainage system affected by water from off-site sources (e.g., run-on from off-site properties, tidal influence, and backflow).
- f. All storm drain solids sampling data shall be reported to EPA no later than the DMR due date for the reporting period in which the solids were sampled. A copy of the lab report shall be submitted to EPA.

Table 9.10.7.3.2: Benchmarks and Sampling Requirements Applicable to Discharges to Puget Sound Sediment Cleanup Sites that are not Category 5 for Sediment Quality

Parameter	Units	Benchmark Value ^a	Analytical Method	Laboratory Quantitation Level ^b	Minimum Sampling Frequency ^c
TSS	mg/L	30	SM2540-D	5	1/quarter

- a. Permittees sampling more than once per quarter shall average the sample results and compare the average value to the benchmark to determine if the discharge has exceeded the benchmark value. However, if Permittees collect more than one sample during a 24-hour period, they must first calculate the daily average of the individual grab sample results collected during that 24-hour period; then use the daily average to calculate a quarterly average.
- b. The Permittee shall ensure laboratory results comply with the quantitation level (QL) specified in the table. However, if an alternate method from 40 CFR Part 136 is sufficient to produce measurable results in the sample, the Permittee may use that method for analysis. If the Permittee uses an alternative method it must report the test method and QL on the DMR. If the Permittee is unable to obtain the required QL due to matrix effects, the Permittee must report the matrix-specific method detection level (MDL) and QL on the DMR.
- c. 1/quarter means at least one sample taken each quarter, year-round.

Table 9.10.7.3.3: Sampling and Analytical Procedures for Storm Drain Solids

Analyte	Method in Sediment	Quantitation Level ^a
Conventional Parameters		
Percent total solids	SM 2540G, or ASTM Method D 2216	NA
Total organic carbon	Puget Sound Estuary Protocols (PSEP 1997), or EPA 9060	0.1%
Grain size	Ecology Method Sieve and Pipette (ASTM 1997), ASTM D422, or PSEP 1986/2003	NA
Metals		
Antimony, Total	EPA Method 200.8 (ICP/MS), EPA Method 6010 or EPA Method 6020	0.2 mg/kg dw ^b
Arsenic, Total	EPA Method 200.8 (ICP/MS), EPA Method 6010 or EPA Method 6020	0.1 mg/kg dw
Beryllium, Total	EPA Method 200.8 (ICP/MS), EPA Method 6010 or EPA Method 6020	0.2 mg/kg dw
Cadmium, Total	EPA Method 200.8 (ICP/MS), EPA Method 6010 or EPA Method 6020	0.2 mg/kg dw
Chromium, Total	EPA Method 200.8 (ICP/MS), EPA Method 6010 or EPA Method 6020	0.5 mg/kg dw

Analyte	Method in Sediment	Quantitation Level ^a
Copper, Total	EPA Method 200.8 (ICP/MS) , EPA Method 6010 or EPA Method 6020	0.2 mg/kg dw
Lead, Total	EPA Method 200.8 (ICP/MS) , EPA Method 6010 or EPA Method 6020	0.2 mg/kg dw
Mercury, Total	EPA Method 1631E, or EPA Method 7471B	0.005 mg/kg dw
Nickel, Total	EPA Method 200.8 (ICP/MS) , EPA Method 6010 or EPA Method 6020	0.1 mg/kg dw
Selenium, Total	EPA Method 200.8 (ICP/MS) , EPA Method 6010 or EPA Method 6020	0.5 mg/kg dw
Silver, Total	EPA Method 200.8 (ICP/MS) , EPA Method 6010 or EPA Method 6020	0.1 mg/kg dw
Thallium, Total	EPA Method 200.8 (ICP/MS) , EPA Method 6010 or EPA Method 6020	0.2 mg/kg dw
Zinc, Total	EPA Method 200.8 (ICP/MS) , EPA Method 6010 or EPA Method 6020	5.0 mg/kg dw
Organics		
PAH compounds ^c	EPA Method 8270 D	70 µg/kg dw
PCBs (aroclors), Total ^d	EPA Method 8082	10 µg/kg dw
Petroleum Hydrocarbons		
NWTPH-Dx	NWTPH-Dx	25.0-100.0 mg/kg dw

- a. The Permittee shall ensure laboratory results comply with the quantitation level (QL) specified in the table. However, if an alternate method is sufficient to produce measurable results in the sample, the Permittee may use that method for analysis. If the Permittee uses an alternative method, it must report the test method and QL on the sediment monitoring report. All results shall be reported. For values below the QL, or where a QL is not specified, report results at the method detection level (MDL) from the lab and the qualifier of "U" for undetected at that concentration. If the Permittee is unable to obtain the required QL due to matrix effects, the Permittee must report the matrix-specific MDL and QL on the DMR.
- b. dw = dry weight.
- c. PAH compounds include: 1-methylnaphthalene, 2-methylnaphthalene, 2-chloronaphthalene, acenaphthylene, acenaphthene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b, k)fluoranthene, benzo(ghi)perylene, dibenzo(a,h)anthracene, dibenzofuran, carbazole, chrysene, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, naphthalene, phenanthrene, and pyrene.
- d. Total = sum of PCB aroclors 1016+1221+1232+1242+1248+1254+1260.

9.10.7.4 Requirements for Discharges to Waters with Applicable TMDLs

1. The Permittee shall comply with applicable TMDL determinations. Applicable TMDLs or TMDL determinations are TMDLs which have been completed by the issuance date of this permit, or which have been completed prior to the date that the Permittee's NOI is received by EPA, whichever is later. EPA will list the Permittee's requirements to comply with this condition on the letter of permit coverage.
2. TMDL requirements associated with TMDLs completed after the issuance date of this permit only become effective if they are imposed through an administrative order issued by EPA.
3. Where Ecology has established a TMDL wasteload allocation and sampling requirements for the Permittee's discharge, the Permittee shall comply with all requirements of the TMDL.
 - a. If a discharge point is subject to a TMDL-related effluent limit for a parameter that also has a benchmark, the effluent limit supersedes the benchmark.

4. Where Ecology has established a TMDL general wasteload allocation for industrial stormwater discharges for a parameter present in the Permittee's discharge, but has not identified specific requirements, EPA will assume the Permittee's compliance with the terms and conditions of the permit complies with the approved TMDL.
5. Where Ecology has not established a TMDL wasteload allocation for industrial stormwater discharges for a parameter present in the Permittee's discharge, but has not excluded these discharges, EPA will assume the Permittee's compliance with the terms and conditions of this permit complies with the approved TMDL.
6. Where a TMDL for a parameter present in the Permittee's discharge specifically precludes or prohibits discharges of stormwater associated with industrial activity, the Permittee is not eligible for coverage under the MSGP.

Appendix A - Definitions, Abbreviations, and Acronyms (for the purposes of this permit).

A.1. DEFINITIONS

Action Area – all areas to be affected directly or indirectly by the federal action and not merely the immediate area involved in the action. See 50 CFR 402. For the purposes of this permit and for application of Endangered Species Act requirements, the following areas are included in the definition of action area:

- The areas where stormwater discharges originate and flow from the industrial facility to the point of discharge into receiving waters. (Example: Where stormwater flows into a ditch, swale, or gully that leads to receiving waters and where listed species (such as listed amphibians) are found in the ditch, swale, or gully.)
- The areas where stormwater from industrial activities discharge into receiving waters and the areas in the immediate vicinity of the point of discharge. (Example: Where stormwater from industrial activities discharges into a stream segment that is known to harbor listed aquatic species.)
- The areas where stormwater controls will be constructed and operated, including any areas where stormwater flows to and from the stormwater controls. (Example: Where a stormwater retention pond would be built.)
- The areas upstream and/or downstream from the stormwater discharge into a stream segment that may be affected by these discharges. (Example: Where sediment discharged to a receiving stream settles downstream and impacts a breeding area of a listed aquatic species.)

Antidegradation Policy or Antidegradation Requirements – the water quality standards regulation that requires States and Tribes to establish a three-tiered antidegradation program:

1. Tier 1 maintains and protects existing uses and water quality conditions necessary to support such uses. An existing use can be established by demonstrating that fishing, swimming, or other uses have actually occurred since November 28, 1975, or that the water quality is suitable to allow such uses to occur. Where an existing use is established, it must be protected even if it is not listed in the water quality standards as a designated use. Tier 1 requirements are applicable to all surface waters.
2. Tier 2 maintains and protects "high quality" waters -- water bodies where existing conditions are better than necessary to support CWA § 101(a)(2) "fishable/swimmable" uses. Water quality can be lowered in such waters. However, state and tribal Tier 2 programs identify procedures that must be followed and questions that must be answered before a reduction in water quality can be allowed. In no case may water quality be lowered to a level which would interfere with existing or designated uses.
3. Tier 3 maintains and protects water quality in outstanding national resource waters (ONRWs). Except for certain temporary changes, water quality cannot be lowered in such waters. ONRWs generally include the highest quality waters of the United States. However, the ONRW classification also offers special protection for waters of exceptional ecological significance, i.e., those which are important, unique, or sensitive ecologically. Decisions regarding which water bodies qualify to be ONRWs are made by States and authorized Indian Tribes.

Arid Areas – areas where annual rainfall averages from 0 to 10 inches.

Bypass – the intentional diversion of waste streams from any portion of a treatment facility. See 40 CFR 122.41(m)(1)(i).

CERCLA Site (i.e., Superfund Site) - for the purposes of this permit, a site as defined in Section 101(9) of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), 42 U.S.C. § 9601(9), that is undergoing a remedial investigation and feasibility study, or for which a Record of Decision for remedial action has been issued in accordance with the National Contingency Plan, 40 CFR Part 300.

Co-located Industrial Activities – any industrial activities, excluding your primary industrial activity(ies), located on-site that are defined by the stormwater regulations at 122.26(b)(14)(i)-(ix) and (xi). An activity at a facility is not considered co-located if the activity, when considered separately, does not meet the description of a category of industrial activity covered by the stormwater regulations or identified by the SIC code list in Appendix D.

Confidential Business Information (CBI) – see 40 CFR Part 2 for relevant definitions of CBI: <http://www.gpo.gov/fdsys/pkg/CFR-2013-title40-vol1/pdf/CFR-2013-title40-vol1-part2-subpartB.pdf>.

Control Measures – refers to any stormwater control or other method (including narrative effluent limitations) used to prevent or reduce the discharge of pollutants to waters of the United States.

Corrective Action – for the purposes of the permit, any action taken, or required to be taken, to (1) repair, modify, or replace any stormwater control used at the site; (2) clean up and dispose of spills, releases, or other deposits found on the site; and (3) remedy a permit violation.

Critical Habitat – as defined in the Endangered Species Act at 16 U.S.C. 1531 for a threatened or endangered species, (i) the specific areas within the geographical area occupied by the species, at the time it is listed in accordance with the provisions of section 4 of the Endangered Species Act, on which are found those physical or biological features essential to the conservation of the species and which may require special management considerations or protection; and (ii) specific areas outside the geographical area occupied by the species at the time it is listed in accordance with the provisions of section 4 of the Endangered Species Act, upon a determination by the Secretary that such areas are essential for the conservation of the species.

Director – a Regional Administrator of the Environmental Protection Agency or an authorized representative. See 40 CFR 122.2.

Discharge – when used without qualification, means the "discharge of a pollutant." See 40 CFR 122.2.

Discharge of a Pollutant – any addition of any "pollutant" or combination of pollutants to "waters of the United States" from any "point source," or any addition of any pollutant or combination of pollutants to the waters of the "contiguous zone" or the ocean from any point source other than a vessel or other floating craft which is being used as a means of transportation. This includes additions of pollutants into waters of the United States from: surface runoff which is collected or channeled by man; discharges through pipes, sewers, or other conveyances, leading into privately owned treatment works. See 40 CFR 122.2.

Discharge Point – for the purposes of this permit, the location where collected and concentrated stormwater flows are discharged from the facility such that the first receiving waterbody into which the discharge flows, either directly or through a separate storm sewer system, is a water of the U.S.

Discharge-Related Activity – activities that cause, contribute to, or result in stormwater and allowable non-stormwater point source discharges, and measures such as the siting, construction and operation of stormwater controls to control, reduce, or prevent pollution in the discharges.

Discharge to an Impaired Water – for the purposes of this permit, a discharge to an impaired water occurs if the first water of the U.S. to which you discharge is identified by a state, tribe, or EPA as not meeting an applicable water quality standard, and requires development of a total maximum daily load (TMDL) (pursuant to Section 303(d) of the Clean Water Act), or is addressed by an EPA-approved or established TMDL, or is not in either of the above categories but the waterbody is covered by pollution control requirements that meet the requirements of 40 CFR 130.7(b)(1). For discharges that enter a separate storm sewer system prior to discharge, the water of the U.S. to which you discharge is the waterbody that receives the stormwater discharge from the storm sewer system.

Drought-Stricken Area – for the purposes of this permit, an area in which the National Oceanic and Atmospheric Administration's U.S. Seasonal Drought Outlook indicates for the period that any of the following conditions are likely: (1) "Drought to persist or intensify", (2) "Drought ongoing, some improvement", (3) "Drought likely to improve, impacts ease", or (4) "Drought development likely". See http://www.cpc.ncep.noaa.gov/products/expert_assessment/season_drought.gif.

Effective Operating Condition – for the purposes of this permit, a stormwater control is kept in effective operating condition if it has been implemented and maintained in such a manner that it is working as designed to minimize pollutant discharges.

Effluent Limitations – for the purposes of this permit, any of the Part 2 or Part 3 requirements.

Effluent Limitations Guideline (ELG) – defined in 40 CFR § 122.2 as a regulation published by the Administrator under section 304(b) of CWA to adopt or revise effluent limitations.

Eligible – for the purposes of this permit, refers to stormwater and allowable non-stormwater discharges that are authorized for coverage under this general permit.

Endangered Species – defined in the Endangered Species Act at 16 U.S.C. 1531 as any species which is in danger of extinction throughout all or a significant portion of its range other than a species of the Class Insecta determined by the Secretary to constitute a pest whose protection under the provisions of this Act would present an overwhelming and overriding risk to man.

Existing Discharger – an operator applying for coverage under this permit for discharges authorized previously under an NPDES general or individual permit.

Facility or Activity – any NPDES "point source" (including land or appurtenances thereto) that is subject to regulation under the NPDES program. See 40 CFR 122.2.

Feasible – for the purposes of this permit, feasible means technologically possible and economically practicable and achievable in light of best industry practices. EPA notes that it does not intend for any permit requirement to conflict with state water rights law.

Federal Operator – an entity that meets the definition of “Operator” in this permit and is either any department, agency or instrumentality of the executive, legislative, and judicial branches of the Federal government of the United States, or another entity, such as a private contractor, operating for any such department, agency, or instrumentality.

Hazardous Materials or Hazardous Substances or Toxic Materials – for the purposes of this permit, any liquid, solid, or contained gas that contain properties that are dangerous or potentially harmful to human health or the environment. See also 40 CFR §261.2.

Historic Property – as defined in the National Historic Preservation Act regulations means any prehistoric or historic district, site, building, structure, or object included in, or eligible for inclusion in, the National Register of Historic Places maintained by the Secretary of the Interior. This term includes artifacts, records, and remains that are related to and located within such properties. The term includes properties of traditional religious and cultural importance to an Indian tribe or Native Hawaiian organization and that meet the National Register criteria.

Impaired Water (or “Water Quality Impaired Water” or “Water Quality Limited Segment”) – for the purposes of this permit, waters identified by a state, tribe, or EPA as not meeting an applicable water quality standard, and require development of a total maximum daily load (TMDL) (pursuant to Section 303(d) of the CWA), or are addressed by an EPA-approved or established TMDL, or are covered by pollution controls requirements that meet the requirements of 40 FR 130.7(b)(1). For discharges that enter a separate storm sewer system prior to discharge, the first water of the U.S. to which you discharge is the waterbody that receives the stormwater discharge from the storm sewer system.

Indian Country or Indian Country Lands – defined at 40 CFR 122.2 as:

- a). All land within the limits of any Indian reservation under the jurisdiction of the United States Government, notwithstanding the issuance of any patent, and including rights-of-way running through the reservation;
- b). All dependent Indian communities within the borders of the United States, whether within the original or subsequently acquired territory thereof, and whether within or without the limits of a State: and
- c). All Indian allotments, the Indian titles to which have not been extinguished, including rights-of-way running through the same. This definition includes all land held in trust for an Indian tribe. (18 U.S.C. 1151)

Infeasible – for the purposes of this permit, infeasible means not technologically possible or not economically practicable and achievable in light of best industry practices. EPA notes that it does not intend for any permit requirement to conflict with state water rights law.

Industrial Activity – the 10 categories of industrial activities included in the definition of “stormwater discharges associated with industrial activity” as defined in 40 CFR 122.26(b)(14)(i)-(ix) and (xi).

Industrial Stormwater – stormwater runoff from industrial activity.

Measurable Storm Event – a precipitation event that results in a measurable amount of precipitation (i.e., a storm event that results in an actual discharge) and that follows the preceding storm event by at least 72 hours (3-days). The 72-hour storm interval does not apply if you document that less than a 72-hour interval is representative for local storm events.

Minimize – for the purposes of this permit, minimize means to reduce and/or eliminate to the extent achievable using control measures that are technologically available and economically practicable and achievable in light of best industry practices.

Municipal Separate Storm Sewer (MS4) – defined at 40 CFR §122.26(b)(8) as a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, manmade channels, or storm drains):

1. Owned or operated by a state, city, town, borough, county, parish, district, association, or other public body (created by or pursuant to State law) having jurisdiction over disposal of sewage, industrial wastes, stormwater, or other wastes, including special districts under state law such as a sewer district, flood control district or drainage district, or similar entity, or an Indian tribe or an authorized Indian tribal organization, or a designated and approved management agency under section 208 of the CWA that discharges to waters of the United States;
2. Designed or used for collecting or conveying stormwater;
3. Which is not a combined sewer; and
4. Which is not part of a Publicly Owned Treatment Works (POTW) as defined at 40 CFR 122.2. See 40 CFR 122.26(b)(4) and (b)(7).

National Pollutant Discharge Elimination System (NPDES) – defined at 40 CFR §122.2 as the national program for issuing, modifying, revoking and reissuing, terminating, monitoring and enforcing permits, and imposing and enforcing pretreatment requirements, under sections 307, 402, 318, and 405 of CWA. The term includes an ‘approved program.’

New Discharger – a facility from which there is or may be a discharge, that did not commence the discharge of pollutants at a particular site prior to August 13, 1979, which is not a new source, and which has never received a finally effective NPDES permit for discharges at that site. See 40 CFR 122.2.

New Source – any building, structure, facility, or installation from which there is or may be a “discharge of pollutants,” the construction of which commenced:

- after promulgation of standards of performance under section 306 of the CWA which are applicable to such source, or
- after proposal of standards of performance in accordance with section 306 of the CWA which are applicable to such source, but only if the standards are promulgated in accordance with section 306 within 120 days of their proposal. See 40 CFR 122.2.

New Source Performance Standards (NSPS) – technology-based standards for facilities that qualify as new sources under 40 CFR 122.2 and 40 CFR 122.29.

No Exposure – all industrial materials or activities protected by a storm-resistant shelter to prevent exposure to rain, snow, snowmelt, and/or runoff. See 40 CFR 122.26(g).

Non-Stormwater Discharges – discharges that do not originate from storm events. They can include, but are not limited to, discharges of process water, air conditioner condensate, non-contact cooling water, pavement wash water, external building washdown, irrigation water, or uncontaminated ground water or spring water.

Notice of Intent (NOI) – the form (electronic or paper) required for authorization of coverage under the Multi-Sector General Permit.

Notice of Termination (NOT) – the form (electronic or paper) required for terminating coverage under the Multi-Sector General Permit.

Operator – any entity with a stormwater discharge associated with industrial activity that meets either of the following two criteria:

1. The entity has operational control over industrial activities, including the ability to make modifications to those activities; or
2. The entity has day-to-day operational control of activities at a facility necessary to ensure compliance with the permit (e.g., the entity is authorized to direct workers at a facility to carry out activities required by the permit).

Outfall – see “Discharge Point.”

Permitting Authority – for the purposes of this permit, EPA, a Regional Administrator of EPA, or an authorized representative.

Person – an individual, association, partnership, corporation, municipality, State or Federal agency, or an agent or employee thereof. See 40 CFR 122.2.

Point Source – any discernible, confined, and discrete conveyance, including but not limited to any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, landfill leachate collection system, vessel, or other floating craft from which pollutants are or may be discharged. This term does not include return flows from irrigated agriculture or agricultural stormwater runoff. See 40 CFR 122.2.

Pollutant – defined at 40 CFR § 122.2. A partial listing from this definition includes: dredged spoil, solid waste, incinerator residue, filter backwash, sewage, garbage, sewage sludge, munitions, chemical wastes, biological materials, heat, wrecked or discarded equipment, rock, sand, cellar dirt, and industrial, municipal and agricultural waste discharged into water. See 40 CFR 122.2.

Pollutant of Concern – a pollutant which causes or contributes to a violation of a water quality standard, including a pollutant which is identified as causing an impairment in a state's 303(d) list.

Primary Industrial Activity – includes any activities performed on-site which are (1) identified by the facility's primary SIC code and included in the descriptions of 122.26(b)(14)(ii), (iii), (vi), or (viii); or (2) included in the narrative descriptions of 122.26(b)(14)(i), (iv), (v), (vii), or (ix). [For co-located activities covered by multiple SIC codes, it is recommended that the primary industrial determination be based on the value of receipts or revenues or, if such information is not available for a particular facility, the number of employees or production rate for each process may be compared. The operation that generates the most revenue or employs the most personnel is the operation in which the facility is primarily engaged. In situations where the vast majority of on-site activity falls within one SIC code, that activity may be the primary industrial activity.] Narrative descriptions in 40 CFR 122.26(b)(14) identified above include: (i) activities subject to stormwater effluent limitations guidelines, new source performance standards, or toxic pollutant effluent standards; (iv) hazardous waste treatment storage, or disposal facilities including those that are operating under interim status or a permit under subtitle C of the Resource Conservation and Recovery Act (RCRA); (v) landfills, land application sites and open

dumps that receive or have received industrial wastes; (vii) steam electric power generating facilities; and (ix) sewage treatment works with a design flow of 1.0 mgd or more.

Qualified Personnel – qualified personnel are those who are knowledgeable in the principles and practices of industrial stormwater controls and pollution prevention, and who possess the education and ability to assess conditions at the industrial facility that could impact stormwater quality, and the education and ability to assess the effectiveness of stormwater controls selected and installed to meet the requirements of the permit.

Reportable Quantity Release – a release of a hazardous substance at or above the established legal threshold that requires emergency notification. Refer to 40 CFR Parts 110, 117, and 302 for complete definitions and reportable quantities for which notification is required.

Restricted Information – for the purposes of this permit, information that is privileged or that is otherwise protected from disclosure pursuant to applicable statutes, Executive Orders, or regulations. Such information includes, but is not limited to: classified national security information, protected critical infrastructure information, sensitive security information, and proprietary business information.

Runoff Coefficient – the fraction of total rainfall that will appear at the conveyance as runoff. See 40 CFR 122.26(b)(11).

Run-On – sources of stormwater that drain from land located upslope or upstream from the regulated facility in question.

Saline Water or Saltwater – for the purposes of this permit, a waterbody with salinity that is equal to or exceeds 10 parts per thousand 95 percent or more of the time, unless otherwise defined as a coastal or marine water by the applicable state or tribal surface water quality standards.

Semi-Arid Areas – areas where annual rainfall averages from 10 to 20 inches.

Significant Materials – includes, but is not limited to: raw materials; fuels; materials such as solvents, detergents, and plastic pellets; finished materials such as metallic products; raw materials used in food processing or production; hazardous substances designated under section 101(14) of CERCLA; any chemical the facility is required to report pursuant to section 313 of Title III of SARA; fertilizers; pesticides; and waste products such as ashes, slag and sludge that have the potential to be released with stormwater discharges. See 40 CFR 122.26(b)(12).

Special Aquatic Sites – sites identified in 40 CFR 230 Subpart E. These are geographic areas, large or small, possessing special ecological characteristics of productivity, habitat, wildlife protection, or other important and easily disrupted ecological values. These areas are generally recognized as significantly influencing or positively contributing to the general overall environmental health or vitality of the entire ecosystem of a region.

Spill – for the purpose of this permit, the release of a hazardous or toxic substance from its container or containment.

Stormwater – stormwater runoff, snow melt runoff, and surface runoff and drainage. See 40 CFR 122.26(b)(13).

Stormwater Controls – see “Control Measures.”

Stormwater Discharges Associated with Construction Activity – as used in this permit, a discharge of pollutants in stormwater runoff from areas where land-disturbing activities (e.g., clearing, grading, or excavating) occur, or where construction materials or equipment storage or maintenance (e.g., fill piles, borrow areas, concrete truck washout, fueling), or other industrial stormwater directly related to the construction process (e.g., concrete or asphalt batch plants) are located. See 40 CFR 122.26(b)(14)(x) and 40 CFR 122.26(b)(15).

Stormwater Discharges Associated with Industrial Activity – the discharge from any conveyance that is used for collecting and conveying stormwater and that is directly related to manufacturing, processing or raw materials storage areas at an industrial plant. The term does not include discharges from facilities or activities excluded from the NPDES program under Part 122. For the categories of industries identified in this section, the term includes, but is not limited to, stormwater discharges from industrial plant yards; immediate access roads and rail lines used or traveled by carriers of raw materials, manufactured products, waste material, or by-products used or created by the facility; material handling sites; refuse sites; sites used for the application or disposal of process waste waters (as defined at part 401 of this chapter); sites used for the storage and maintenance of material handling equipment; sites used for residual treatment, storage, or disposal; shipping and receiving areas; manufacturing buildings; storage areas (including tank farms) for raw materials, and intermediate and final products; and areas where industrial activity has taken place in the past and significant materials remain and are exposed to stormwater. For the purposes of this paragraph, material handling activities include storage, loading and unloading, transportation, or conveyance of any raw material, intermediate product, final product, by-product or waste product. The term excludes areas located on plant lands separate from the plant's industrial activities, such as office buildings and accompanying parking lots as long as the drainage from the excluded areas is not mixed with stormwater drained from the above described areas. Industrial facilities include those that are federally, state, or municipally owned or operated that meet the description of the facilities listed in 40 CFR 122.26(b)(14). The term also includes those facilities designated under the provisions of 40 CFR 122.26(a)(1)(v). See 40 CFR 122.26(b)(14).

Stormwater Team – the group of individuals responsible for oversight of the development and modifications of the SWPPP, and oversight of compliance with the permit requirements. The individuals on the "Stormwater Team" must be identified in the SWPPP.

Storm Event – a precipitation event that results in a measurable amount of precipitation.

Threatened Species – defined in the Endangered Species Act at 16 U.S.C. 1531 as any species which is likely to become an endangered species within the foreseeable future throughout all or a significant portion of its range.

Tier 2 Waters – For antidegradation purposes, pursuant to 40 CFR 131.12(a)(2), Tier 2 waters are characterized as having water quality that exceeds the levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water.

Tier 2.5 Waters – For antidegradation purposes, Tier 2.5 waters are those waters designated by States or Tribes as requiring a level of protection equal to and above that given to Tier 2 waters, but less than that given Tier 3 waters. States have special requirements for these waters.

Tier 3 Waters – For antidegradation purposes, pursuant to 40 CFR 131.12(a)(3), Tier 3 waters are identified by states as having high quality waters constituting an Outstanding National Resource Water (ONRW), such as waters of National Parks and State Parks, wildlife refuges, and waters of exceptional recreational or ecological significance.

Total Maximum Daily Loads (TMDLs) – The sum of the individual wasteload allocations (WLAs) for point sources and load allocations (LAs) for nonpoint sources and natural background. If receiving water has only one point source discharger, the TMDL is the sum of that point source WLA plus the LAs for any nonpoint sources of pollution and natural background sources, tributaries, or adjacent segments. TMDLs can be expressed in terms of either mass per time, toxicity, or other appropriate measure. (See section 303(d) of the Clean Water Act and 40 CFR 130.2 and 130.7).

Toxic Waste – see “Hazardous Materials.”

Uncontaminated Discharge – a discharge that does not cause or contribute to an exceedance of applicable water quality standards.

Upset – Upset means an exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent limitations because of factors beyond your reasonable control. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation. See 40 CFR 122.41 (n)(1).

Water Quality Impaired – See “Impaired Water.”

Water Quality Standards – defined in 40 CFR § 131.3, and are provisions of State or Federal law which consist of a designated use or uses for the waters of the United States, water quality criteria for such waters based upon such uses, and an antidegradation policy to protect high-quality waters. Water quality standards protect the public health or welfare, enhance the quality of water and serve the purposes of the Act.

Waters of the United States – See definition at 40 CFR § 122.2.

A.2. ABBREVIATIONS AND ACRONYMS

BAT – Best Available Technology Economically Achievable

BOD5 – Biochemical Oxygen Demand (5-day test)

BMP – Best Management Practice

BPJ – Best Professional Judgment

BPT – Best Practicable Control Technology Currently Available

CERCLA – Comprehensive Environmental Response, Compensation and Liability Act

CGP – Construction General Permit

CFR – Code of Federal Regulations

COD – Chemical Oxygen Demand

CWA – Clean Water Act (or the Federal Water Pollution Control Act, 33 U.S.C. § 1251 *et seq*)

CWT – Centralized Waste Treatment

DMR – Discharge Monitoring Report

ELG – Effluent Limitations Guideline

EPA – U. S. Environmental Protection Agency

ESA – Endangered Species Act

FWS – U. S. Fish and Wildlife Service

LA – Load Allocations

MGD – Million Gallons per Day

MOS – Margin of Safety

MS4 – Municipal Separate Storm Sewer System

MSGP – Multi-Sector General Permit

NAICS – North American Industry Classification System

NEPA – National Environmental Policy Act

NET – NPDES eReporting Tool

NHPA – National Historic Preservation Act

NMFS – U. S. National Marine Fisheries Service

NOI – Notice of Intent

NOE – No Exposure

NOT – Notice of Termination

NPDES – National Pollutant Discharge Elimination System

NRC – National Response Center

NRHP – National Register of Historic Places

NSPS – New Source Performance Standard

NTU – Nephelometric Turbidity Unit

OMB – U. S. Office of Management and Budget

ORW – Outstanding Resource Water

OSM – U. S. Office of Surface Mining

POTW – Publicly Owned Treatment Works

RCRA – Resource Conservation and Recovery Act

RQ – Reportable Quantity

SARA – Superfund Amendments and Reauthorization Act

SDS – Safety Data Sheet

SHPO – State Historic Preservation Officer

SIC – Standard Industrial Classification

SMCRA – Surface Mining Control and Reclamation Act

SPCC – Spill Prevention, Control, and Countermeasures

SWPPP – Stormwater Pollution Prevention Plan

THPO – Tribal Historic Preservation Officer

TMDL – Total Maximum Daily Load

TSDF – Treatment, Storage, or Disposal Facility

TSS – Total Suspended Solids

USGS – United States Geological Survey

WLA – Wasteload Allocation

WQS – Water Quality Standard

Appendix B - Standard Permit Conditions.

Standard permit conditions in Appendix B are consistent with the general permit provisions required under 40 CFR 122.41.

B.1 Duty To Comply.

You must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Clean Water Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

- A. You must comply with effluent standards or prohibitions established under section 307(a) of the Clean Water Act for toxic pollutants within the time provided in the regulations that establish these standards, even if the permit has not yet been modified to incorporate the requirement.
- B. Penalties for Violations of Permit Conditions: The Director will adjust the civil and administrative penalties listed below in accordance with the Civil Monetary Penalty Inflation Adjustment Rule (61 FR 252, December 31, 1996, pp. 69359-69366, as corrected in 62 FR 54, March 20, 1997, pp.13514-13517) as mandated by the Debt Collection Improvement Act of 1996 for inflation on a periodic basis. This rule allows EPA's penalties to keep pace with inflation. The Agency is required to review its penalties at least once every 4 years thereafter and to adjust them as necessary for inflation according to a specified formula. The civil and administrative penalties following were adjusted for inflation starting in 1996.

1. Criminal Penalties.

- 1.1 Negligent Violations. The CWA provides that any person who negligently violates permit conditions implementing Sections 301, 302, 306, 307, 308, 318, or 405 of the Act is subject to criminal penalties of not less than \$2,500 nor more than \$25,000 per day of violation, or imprisonment of not more than one year, or both. In the case of a second or subsequent conviction for a negligent violation, a person shall be subject to criminal penalties of not more than \$50,000 per day of violation or by imprisonment of not more than two years, or both.
- 1.2. *Knowing Violations.* The CWA provides that any person who knowingly violates permit conditions implementing Sections 301, 302, 306, 307, 308, 318, or 405 of the Act is subject to a fine of not less than \$5,000 nor more than \$50,000 per day of violation, or by imprisonment for not more than 3 years, or both. In the case of a second or subsequent conviction for a knowing violation, a person shall be subject to criminal penalties of not more than \$100,000 per day of violation, or imprisonment of not more than 6 years, or both.
- 1.3. *Knowing Endangerment.* The CWA provides that any person who knowingly violates permit conditions implementing Sections 301, 302, 306, 307, 308, 318, or 405 of the Act and who knows at that time that he or she is placing another person in imminent danger of death or serious bodily injury shall upon conviction be subject to a fine of not more than \$250,000 or by imprisonment of not more than 15 years, or both. In the case of a second or subsequent conviction for a knowing endangerment violation, a person

shall be subject to a fine of not more than \$500,000 or by imprisonment of not more than 30 years, or both. An organization, as defined in section 309(c)(3)(B)(iii) of the Act, shall, upon conviction of violating the imminent danger provision be subject to a fine of not more than \$1,000,000 and can be fined up to \$2,000,000 for second or subsequent convictions.

- 1.4. *False Statement.* The CWA provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than \$10,000, or by imprisonment for not more than 2 years, or both. If a conviction of a person is for a violation committed after a first conviction of such person under this paragraph, punishment is a fine of not more than \$20,000 per day of violation, or by imprisonment of not more than 4 years, or both. The Act further provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or non-compliance shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than 6 months per violation, or by both.
2. *Civil Penalties.* The CWA provides that any person who violates a permit condition implementing Sections 301, 302, 306, 307, 308, 318, or 405 of the Act is subject to a civil penalty not to exceed the maximum amounts authorized by Section 309(d) of the Act and the Federal Civil Penalties Inflation Adjustment Act (28 U.S.C. § 2461 note) as amended by the Debt Collection Improvement Act (31 U.S.C. § 3701 note) (currently \$37,500 per day for each violation).
3. *Administrative Penalties.* The CWA provides that any person who violates a permit condition implementing Sections 301, 302, 306, 307, 308, 318, or 405 of the Act is subject to an administrative penalty, as follows
 - 3.1. *Class I Penalty.* Not to exceed the maximum amounts authorized by Section 309(g)(2)(A) of the Act and the Federal Civil Penalties Inflation Adjustment Act (28 U.S.C. § 2461 note) as amended by the Debt Collection Improvement Act (31 U.S.C. § 3701 note) (currently \$16,000 per violation, with the maximum amount of any Class I penalty assessed not to exceed \$37,500).
 - 3.2. *Class II Penalty.* Not to exceed the maximum amounts authorized by Section 309(g)(2)(B) of the Act and the Federal Civil Penalties Inflation Adjustment Act (28 U.S.C. § 2461 note) as amended by the Debt Collection Improvement Act (31 U.S.C. § 3701 note) (currently \$11,000 per day for each day during which the violation continues, with the maximum amount of any Class II penalty not to exceed \$177,500).

B.2 Duty to Reapply.

If you wish to continue an activity regulated by this permit after the expiration date of this permit, you must apply for and obtain authorization as required by the new permit once EPA issues it.

B.3 Need to Halt or Reduce Activity Not a Defense.

It shall not be a defense for you in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

B.4 Duty to Mitigate.

You must take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

B.5 Proper Operation and Maintenance.

You must at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by you to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems which are installed by you only when the operation is necessary to achieve compliance with the conditions of this permit.

B.6 Permit Actions.

This permit may be modified, revoked and reissued, or terminated for cause. Your filing of a request for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

B.7 Property Rights.

This permit does not convey any property rights of any sort, or any exclusive privileges.

B.8 Duty to Provide Information.

You must furnish to EPA or an authorized representative (including an authorized contractor acting as a representative of EPA), within a reasonable time, any information which EPA may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. You must also furnish to EPA or an authorized representative upon request, copies of records required to be kept by this permit.

B.9 Inspection and Entry.

You must allow EPA or an authorized representative (including an authorized contractor acting as a representative of EPA), upon presentation of credentials and other documents as may be required by law, to:

- A. Enter upon your premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
- B. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- C. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and

- D. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act, any substances or parameters at any location.

B.10 Monitoring and Records.

- A. Samples and measurements taken for the purpose of monitoring must be representative of the volume and nature of the monitored activity.
- B. You must retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least three years from the date the permit expires or the date the permittee's authorization is terminated. This period may be extended by request of EPA at any time.
- C. Records of monitoring information must include:
 - 1. The date, exact place, and time of sampling or measurements;
 - 2. The individual(s) who performed the sampling or measurements;
 - 3. The date(s) analyses were performed
 - 4. The individual(s) who performed the analyses;
 - 5. The analytical techniques or methods used; and
 - 6. The results of such analyses.
- D. Monitoring must be conducted according to test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in the permit.
- E. The Clean Water Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than \$10,000, or by imprisonment for not more than 2 years, or both. If a conviction of a person is for a violation committed after a first conviction of such person under this paragraph, punishment is a fine of not more than \$20,000 per day of violation, or by imprisonment of not more than 4 years, or both.

B.11 Signatory Requirements.

- A. NOIs, NOTs, and NOEs must be signed as follows:
 - 1. For a corporation: By a responsible corporate officer. For the purpose of this subsection, a responsible corporate officer means: (i) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment

- recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.
2. For a partnership or sole proprietorship: By a general partner or the proprietor, respectively; or
 3. For a municipality, state, federal, or other public agency: By either a principal executive officer or ranking elected official. For purposes of this subsection, a principal executive officer of a federal agency includes (i) the chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrator of EPA).
- B. Your SWPPP, including changes to your SWPPP to document any corrective actions taken as required by Part 3.1, and any other compliance documentation required under this permit, including the Annual Report, DMRs, inspection reports, and corrective action reports, must be signed by a person described in Appendix B, Subsection 11.A above or by a duly authorized representative of that person. A person is a duly authorized representative only if:
1. The authorization is made in writing by a person described in Appendix B, Subsection 11.A;
 2. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position); and
 3. The signed and dated written authorization is included in the SWPPP. A copy must be submitted to EPA, if requested.
- C. All other changes to your SWPPP, and other compliance documentation required under Part 5.4, must be signed and dated by the person preparing the change or documentation.
- D. Changes to Authorization. If an authorization under Part 1.3.1.3 is no longer accurate because the industrial facility has been purchased by a different entity, a new NOI satisfying the requirements of Part 1.3 must be submitted to EPA. See Table 1-2 in Part 1.3.1.1 of the permit. However, if the only change that is occurring is a change in contact information or a change in the facility's address, the operator need only make a modification to the existing NOI submitted for authorization.
- E. Any person signing documents in accordance with Appendix B, Subsections 11.A or 11.B above must include the following certification:
- "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 gathered and evaluated the

information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained 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."

- F. For persons signing documents electronically, in addition to meeting other applicable requirements in Appendix I, Subsection B.11, such signatures must be legally dependable with no less evidentiary value than their paper equivalent.
- G. The CWA provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or non-compliance shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than 6 months per violation, or by both.

B.12 Reporting Requirements.

- A. Planned changes. You must give notice to EPA as soon as possible, but no fewer than 30 days, of any planned physical alterations or additions to the permitted facility. Notice is required only when:
 - 1. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in 40 CFR 122.29(b); or
 - 2. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements under 40 CFR 122.42(a)(1).
- B. Anticipated noncompliance. You must give advance notice to EPA of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- C. Transfers. This permit is not transferable to any person except after notice to EPA. Where a facility wants to change the name of the permittee, the original permittee (the first owner or operators) must submit a Notice of Termination pursuant to Part 1.4. The new owner or operator must submit a Notice of Intent in accordance with Part 1.3.1 and Table 1-2. See also requirements in Appendix B, Subsections 11.B and 11.D.
- D. Monitoring reports. Monitoring results must be reported at the intervals specified elsewhere in this permit.
 - 1. Pursuant to Part 7.1, all monitoring data collected pursuant to Part 6 must be submitted to EPA using EPA's online DMR system (<http://www.epa.gov/netdmr/>).
 - 2. If you monitor any pollutant more frequently than required by the permit using test procedures approved under 40 CFR Part 136 or as specified in the permit, the results of this monitoring must be included in the calculation and reporting of the data submitted in the DMR.

3. Calculations for all limitations which require averaging of measurements must use an arithmetic mean. For averaging purposes, use a value of zero for any individual sample parameter, which is determined to be less than the method detection limit. For sample values that fall between the method detection level and the quantitation limit (i.e., a confirmed detection but below the level that can be reliably quantified), use a value halfway between zero and the quantitation limit.
- E. Compliance schedules. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit must be submitted no later than 14 days following each schedule date.
- F. Twenty-four hour reporting.
1. You must report any noncompliance which may endanger health or the environment. Any information must be provided orally within 24 hours from the time you become aware of the circumstances. A written submission must also be provided within five days of the time you become aware of the circumstances. The written submission must contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.
 2. The following shall be included as information which must be reported within 24 hours under this paragraph.
 - a. Any unanticipated bypass which exceeds any effluent limitation in the permit. (See 40 CFR 122.41 (m) (3) (ii))
 - b. Any upset which exceeds any effluent limitation in the permit
 - c. Violation of a maximum daily discharge limit for any numeric effluent limitation. (See 40 CFR 122.44(g).)
 3. EPA may waive the written report on a case-by-case basis for reports under Appendix B, Subsection 12.F.2 if the oral report has been received within 24 hours.
- G. Other noncompliance. You must report all instances of noncompliance not reported under Appendix B, Subsections 12.D, 12.E, and 12.F, at the time monitoring reports are submitted. The reports must contain the information listed in Appendix B, Subsection 12.F.
- H. Other information. Where you become aware that you failed to submit any relevant facts in your NOI, or submitted incorrect information in your NOI or in any report to the Permitting Authority, you must promptly submit such facts or information.

B.13 Bypass.

A. Definitions.

1. Bypass means the intentional diversion of waste streams from any portion of a treatment facility See 40 CFR 122.41 (m) (1) (i).

2. Severe property damage means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production. See 40 CFR 122.41(m)(1)(ii).
- B. Bypass not exceeding limitations. You may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Appendix B, Subsections 13.C and 13.D. See 40 CFR 122.41(m)(2).
- C. Notice.
1. Anticipated bypass. If you know in advance of the need for a bypass, you must submit prior notice, if possible at least ten days before the date of the bypass. See 40 CFR 122.41(m)(3)(i).
 2. Unanticipated bypass. You must submit notice of an unanticipated bypass as required in Appendix B, Subsection 12.F (24-hour notice). See 40 CFR 122.41(m)(3)(ii).
- D. Prohibition of bypass. See 40 CFR 122.41(m)(4).
1. Bypass is prohibited, and EPA may take enforcement action against you for bypass, unless:
 - a. Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
 - b. There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
 - c. You submitted notices as required under Appendix B, Subsection 13.C.
 2. EPA may approve an anticipated bypass, after considering its adverse effects, if EPA determines that it will meet the three conditions listed above in Appendix B, Subsection 13.D.1.

B.14 Upset.

- A. Definition. Upset means an exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent limitations because of factors beyond your reasonable control. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation. See 40 CFR 122.41(n)(1).
- B. Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology based permit effluent limitations if the requirements

of Appendix B, Subsection 14.C are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review. See 40 CFR 122.41(n)(2).

- C. Conditions necessary for a demonstration of upset. See 40 CFR 122.41(n)(3). A permittee who wishes to establish the affirmative defense of upset must demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
1. An upset occurred and that you can identify the cause(s) of the upset;
 2. The permitted facility was at the time being properly operated; and
 3. You submitted notice of the upset as required in Appendix B, Subsection 12.F.2.b (24 hour notice).
 4. You complied with any remedial measures required under Appendix B, Subsection 4.
- D. Burden of proof. In any enforcement proceeding, you, as the one seeking to establish the occurrence of an upset, have the burden of proof. See 40 CFR 122.41(n)(4).

B.15 Retention of Records.

Copies of the SWPPP and all documentation required by this permit, including records of all data used to complete the NOI to be covered by this permit, must be retained for at least three years from the date that permit coverage expires or is terminated. This period may be extended by request of EPA at any time.

B.16 Reopener Clause.

- A. Procedures for modification or revocation. Permit modification or revocation will be conducted according to 40 CFR §122.62, §122.63, §122.64 and §124.5.
- B. Water quality protection. If there is evidence indicating that the stormwater discharges authorized by this permit cause, have the reasonable potential to cause or contribute to an excursion above any applicable water quality standard, you may be required to obtain an individual permit in accordance with Part 1.3.3 of this permit, or the permit may be modified to include different limitations and/or requirements.
- C. Timing of permit modification. EPA may elect to modify the permit prior to its expiration (rather than waiting for the new permit cycle) to comply with any new statutory or regulatory requirements, such as for effluent limitation guidelines that may be promulgated in the course of the current permit cycle.

Appendix C - Permit Areas Eligible for Coverage.

EPA can only provide permit coverage in these areas and for classes of discharges that are outside the scope of a state's NPDES program authorization.

C.1 EPA Region 1: Connecticut, Massachusetts, Maine, New Hampshire, Rhode Island, Vermont.

This permit offers NPDES permit coverage for stormwater discharges associated with industrial activity from the following areas in EPA Region 1:

Master Permit Number	Areas of Coverage/Where EPA Is Permitting Authority
CTR05I000	Indian Country within the State of Connecticut
MAR050000	Commonwealth of Massachusetts, except Indian country
MAR05I000	Indian country within the Commonwealth of Massachusetts
NHR050000	State of New Hampshire
RIR05I000	Indian country within the State of Rhode Island
VTR05F000	Areas in the State of Vermont subject to industrial activity by a Federal Operator

For stormwater discharges in EPA Region 1 outside the areas of coverage identified above, please contact your state NPDES permitting authority to obtain coverage under a state-issued NPDES permit.

C.2 EPA Region 2: New Jersey, New York, Puerto Rico, Virgin Islands.

This permit offers NPDES permit coverage for stormwater discharges associated with industrial activity from the following areas in EPA Region 2:

Master Permit Number	Areas of Coverage/Where EPA Is Permitting Authority
PRR050000	Commonwealth of Puerto Rico

For stormwater discharges in EPA Region 2 outside the areas of coverage identified above, please contact your state NPDES permitting authority to obtain coverage under a state-issued NPDES permit.

C.3 EPA Region 3: Delaware, District of Columbia, Maryland, Pennsylvania, Virginia, West Virginia.

This permit offers NPDES permit coverage for stormwater discharges associated with industrial activity from the following areas in EPA Region 3:

Master Permit Number	Areas of Coverage/Where EPA Is Permitting Authority
DCR050000	District of Columbia
DER05F000	Areas in the State of Delaware subject to industrial activity by a Federal Operator

For stormwater discharges in EPA Region 3 outside the areas of coverage identified above, please contact your state NPDES permitting authority to obtain coverage under a state-issued NPDES permit.

C.4 EPA Region 4: Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee (Coverage not available under this permit).

For stormwater discharges in EPA Region 4, please contact your state NPDES permitting authority to obtain coverage under a state-issued NPDES permit.

C.5 EPA Region 5: Illinois, Indiana, Michigan, Minnesota, Ohio, Wisconsin.

This permit offers NPDES permit coverage for stormwater discharges associated with industrial activity from the following areas in EPA Region 5:

Master Permit Number	Areas of Coverage/Where EPA Is Permitting Authority
MIR051000	Indian country within the State of Michigan
MNR051000	Indian country within the State of Minnesota
WIR051000	Indian country within the State of Wisconsin (except for facilities on Sokaogon Chippewa Community lands and Bad River Band of Lake Superior Tribe of Chippewa Indians lands, see EPA Region 5 for an individual permit application).

For stormwater discharges in EPA Region 5 outside the areas of coverage identified above, please contact your state NPDES permitting authority to obtain coverage under a state-issued NPDES permit.

C.6 EPA Region 6: Arkansas, Louisiana, Oklahoma, Texas, and New Mexico (except see Region 9 for Navajo lands, and see Region 8 for Ute Mountain Reservation lands).

This permit offers NPDES permit coverage for stormwater discharges associated with industrial activity from the following areas in EPA Region 6:

Master Permit Number	Areas of Coverage/Where EPA Is Permitting Authority
LAR051000	Indian country within the State of Louisiana
NMR050000	The State of New Mexico, except Indian country
NMR051000	Indian country within the State of New Mexico, except Ute Mountain Reservation lands that are covered under Colorado permit COR051000 and Navajo Reservation lands that are covered under Arizona permit AZR051000
OKR051000	Indian country within the State of Oklahoma
OKR05F000	Facilities in the State of Oklahoma not under the jurisdiction of the Oklahoma Department of Environmental Quality or the Oklahoma Department of Agriculture, Food and Forestry, except those on Indian Country. EPA jurisdiction facilities include SIC Codes 1311, 1381, 1382, 1389, and 5171.

Master Permit Number	Areas of Coverage/Where EPA Is Permitting Authority
TXR05F000	Facilities in the State of Texas not under the jurisdiction of the Texas Commission on Environmental Quality, except those on Indian Country. EPA-jurisdiction facilities include SIC Codes 1311, 1321, 1381, 1382, 1389, and 5171 (other than oil field service company "home base" facilities).
TXR05I000	Indian country within the State of Texas

For stormwater discharges in EPA Region 6 outside the areas of coverage identified above, please contact your state NPDES permitting authority to obtain coverage under a state-issued NPDES permit.

C.7 EPA Region 7: Iowa, Kansas, Missouri, Nebraska (except see Region 8 for Pine Ridge Reservation Lands).

This permit offer NPDES permit coverage for stormwater discharges associated with industrial activity from the following areas in EPA Region 7:

Master Permit Number	Areas of Coverage/Where EPA Is Permitting Authority
IAR05I000	Indian country within the State of Iowa
KSR05I000	Indian country within the State of Kansas
NER05I000	Indian country within the State of Nebraska, except Pine Ridge Reservation lands (see Region 8)

For stormwater discharges in EPA Region 7 outside the areas of coverage identified above, please contact your state NPDES permitting authority to obtain coverage under a state-issued NPDES permit.

C.8 EPA Region 8: Colorado, Montana, North Dakota, South Dakota, Wyoming, Utah (except see Region 9 for Goshute Reservation and Navajo Reservation Lands), the Ute Mountain Reservation in NM, and the Pine Ridge Reservation in NE.

This permit offers NPDES permit coverage for stormwater discharges associated with industrial activity from the following areas in EPA Region 8:

Master Permit Number	Areas of Coverage/Where EPA Is Permitting Authority
COR05F000	Areas in the State of Colorado, except those located on Indian country, subject to industrial activity by a Federal Operator
COR05I000	Indian country within the State of Colorado, as well as the portion of the Ute Mountain Reservation located in New Mexico
MTR05I000	Indian country within the State of Montana
NDR05I000	Indian country within the State of North Dakota, as well as that portion of the Standing Rock Reservation located in South Dakota (except for the portion of the lands within the former boundaries of the Lake Traverse Reservation, which is covered under South Dakota permit SDR05I000 listed below)

Master Permit Number	Areas of Coverage/Where EPA Is Permitting Authority
SDR051000	Indian country within the State of South Dakota, as well as the portion of the Pine Ridge Reservation located in Nebraska and the portion of the lands within the former boundaries of the Lake Traverse Reservation located in North Dakota (except for the Standing Rock Reservation, which is covered under North Dakota permit NDR051000 listed above)
UTR051000	Indian country within the State of Utah, except Goshute and Navajo Reservation lands (see Region 9)
WYR051000	Indian country within the State of Wyoming

For stormwater discharges in EPA Region 8 outside the areas of coverage identified above, please contact your state NPDES permitting authority to obtain coverage under a state-issued NPDES permit.

C.9 EPA Region 9: California, Hawaii, Nevada, Guam, American Samoa, the Commonwealth of the Northern Mariana Islands, the Confederated Tribes of the Goshute Reservation in Utah and Nevada, Indian Country within the State of Arizona including the Navajo Reservation in Utah and New Mexico and Arizona, the Duck Valley Reservation in Idaho, and the Fort McDermitt Reservation in Oregon.

This permit offers NPDES permit coverage for stormwater discharges associated with industrial activity from the following areas in EPA Region 9:

Master Permit Number	Areas of Coverage/Where EPA Is Permitting Authority
ASR050000	American Samoa
AZR051000	Indian country within the State of Arizona, including Navajo Reservation lands in New Mexico and Utah
CAR051000	Indian country within the State of California
GUR050000	Island of Guam
JAR050000	Johnston Atoll
MWR050000	Midway Island and Wake Island
MPR050000	Commonwealth of the Northern Mariana Islands
NVR051000	Indian country within the State of Nevada, including the Duck Valley Reservation in Idaho, the Fort McDermitt Reservation in Oregon and the Confederated Tribes of the Goshute Reservation in Utah

For stormwater discharges in EPA Region 9 outside the areas of coverage identified above, please contact your state NPDES permitting authority to obtain coverage under a state-issued NPDES permit.

C.10 Region 10: Alaska, Idaho (except see Region 9 for Duck Valley Reservation lands), Oregon (except see Region 9 for Fort McDermitt Reservation), Washington.

This permit offers NPDES permit coverage for stormwater discharges associated with industrial activity from the following areas in EPA Region 10:

Master Permit Number	Areas of Coverage/Where EPA Is Permitting Authority
AKR05F000	Denali National Park and Preserve
AKR05I000	Indian country lands as defined in 18 U.S.C. 1151 within the State of Alaska
IDR050000	The State of Idaho, except Indian country lands
IDR05I000	Indian country lands within the State of Idaho, except Duck Valley Reservation lands, which are covered under Nevada permit NVR05I000
ORR05I000	Indian country lands within the State of Oregon, except Fort McDermitt Reservation lands, which are covered under Nevada permit NVR05I000
WAR05I000	Indian country lands within the State of Washington
WAR05F000	Areas in the State of Washington, except those located on Indian country lands, subject to industrial activity by a Federal Operator

For stormwater discharges in EPA Region 10 outside the areas of coverage identified above, please contact your state NPDES permitting authority to obtain coverage under a state-issued NPDES permit.

Appendix D - Facilities and Activities Covered

Your permit eligibility is limited to discharges from facilities in the “sectors” of industrial activity summarized in Table D-1. These sector descriptions are based on Standard Industrial Classification (SIC) Codes and Industrial Activity Codes. References to “sectors” in this permit (e.g., sector-specific monitoring requirements) refer to these groupings.

Table D-1. Sectors of Industrial Activity Covered by This Permit		
Subsector (May be subject to more than one sector/subsector)	SIC Code or Activity Code¹	Activity Represented
SECTOR A: TIMBER PRODUCTS		
A1	2421	General Sawmills and Planing Mills
A2	2491	Wood Preserving
A3	2411	Log Storage and Handling
A4	2426	Hardwood Dimension and Flooring Mills
	2429	Special Product Sawmills, Not Elsewhere Classified
	2431-2439 (except 2434)	Millwork, Veneer, Plywood, and Structural Wood (see Sector W)
	2448	Wood Pallets and Skids
	2449	Wood Containers, Not Elsewhere Classified
	2451, 2452	Wood Buildings and Mobile Homes
	2493	Reconstituted Wood Products
	2499	Wood Products, Not Elsewhere Classified
	2441	Nailed and Lock Corner Wood Boxes and Shook
SECTOR B: PAPER AND ALLIED PRODUCTS		
B1	2631	Paperboard Mills
B2	2611	Pulp Mills
	2621	Paper Mills
	2652-2657	Paperboard Containers and Boxes
	2671-2679	Converted Paper and Paperboard Products, Except Containers and Boxes
SECTOR C: CHEMICALS AND ALLIED PRODUCTS		
C1	2873-2879	Agricultural Chemicals
C2	2812-2819	Industrial Inorganic Chemicals
C3	2841-2844	Soaps, Detergents, and Cleaning Preparations; Perfumes, Cosmetics, and Other Toilet Preparations
C4	2821-2824	Plastics Materials and Synthetic Resins, Synthetic Rubber, Cellulosic and Other Manmade Fibers Except Glass

Table D-1. Sectors of Industrial Activity Covered by This Permit

Subsector (May be subject to more than one sector/subsector)	SIC Code or Activity Code ¹	Activity Represented
C5	2833-2836	Medicinal Chemicals and Botanical Products; Pharmaceutical Preparations; in vitro and in vivo Diagnostic Substances; and Biological Products, Except Diagnostic Substances
	2851	Paints, Varnishes, Lacquers, Enamels, and Allied Products
	2861-2869	Industrial Organic Chemicals
	2891-2899	Miscellaneous Chemical Products
	3952 (limited to list of inks and paints)	Inks and Paints, Including China Painting Enamels, India Ink, Drawing Ink, Platinum Paints for Burnt Wood or Leather Work, Paints for China Painting, Artist's Paints and Artist's Watercolors
	2911	Petroleum Refining
SECTOR D: ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS		
D1	2951, 2952	Asphalt Paving and Roofing Materials
D2	2992, 2999	Miscellaneous Products of Petroleum and Coal
SECTOR E: GLASS, CLAY, CEMENT, CONCRETE, AND GYPSUM PRODUCTS		
E1	3251-3259	Structural Clay Products
	3261-3269	Pottery and Related Products
E2	3271-3275	Concrete, Gypsum, and Plaster Products
E3	3211	Flat Glass
	3221, 3229	Glass and Glassware, Pressed or Blown
	3231	Glass Products Made of Purchased Glass
	3241	Hydraulic Cement
	3281	Cut Stone and Stone Products
	3291-3299	Abrasive, Asbestos, and Miscellaneous Nonmetallic Mineral Products
SECTOR F: PRIMARY METALS		
F1	3312-3317	Steel Works, Blast Furnaces, and Rolling and Finishing Mills
F2	3321-3325	Iron and Steel Foundries
F3	3351-3357	Rolling, Drawing, and Extruding of Nonferrous Metals
F4	3363-3369	Nonferrous Foundries (Castings)
F5	3331-3339	Primary Smelting and Refining of Nonferrous Metals
	3341	Secondary Smelting and Refining of Nonferrous Metals
	3398, 3399	Miscellaneous Primary Metal Products

Table D-1. Sectors of Industrial Activity Covered by This Permit		
Subsector (May be subject to more than one sector/subsector)	SIC Code or Activity Code¹	Activity Represented
SECTOR G: METAL MINING (ORE MINING AND DRESSING)		
G1	1021	Copper Ore and Mining Dressing Facilities
G2	1011	Iron Ores
	1021	Copper Ores
	1031	Lead and Zinc Ores
	1041, 1044	Gold and Silver Ores
	1061	Ferroalloy Ores, Except Vanadium
	1081	Metal Mining Services
	1094, 1099	Miscellaneous Metal Ores
SECTOR H: COAL MINES AND COAL MINING-RELATED FACILITIES		
H1	1221-1241	Coal Mines and Coal Mining-Related Facilities
SECTOR I: OIL AND GAS EXTRACTION		
I1	1311	Crude Petroleum and Natural Gas
	1321	Natural Gas Liquids
	1381-1389	Oil and Gas Field Services
SECTOR J: MINERAL MINING AND DRESSING		
J1	1442	Construction Sand and Gravel
	1446	Industrial Sand
J2	1411	Dimension Stone
	1422-1429	Crushed and Broken Stone, Including Rip Rap
	1481	Nonmetallic Minerals Services, Except Fuels
	1499	Miscellaneous Nonmetallic Minerals, Except Fuels
J3	1455, 1459	Clay, Ceramic, and Refractory Materials
	1474-1479	Chemical and Fertilizer Mineral Mining
SECTOR K: HAZARDOUS WASTE TREATMENT, STORAGE, OR DISPOSAL FACILITIES		
K1	HZ	Hazardous Waste Treatment, Storage, or Disposal Facilities, including those that are operating under interim status or a permit under subtitle C of RCRA
SECTOR L: LANDFILLS, LAND APPLICATION SITES, AND OPEN DUMPS		
L1	LF	All Landfill, Land Application Sites and Open Dumps
L2	LF	All Landfill, Land Application Sites and Open Dumps, except Municipal Solid Waste Landfill (MSWLF) Areas Closed in Accordance with 40 CFR 258.60
SECTOR M: AUTOMOBILE SALVAGE YARDS		
M1	5015	Automobile Salvage Yards

Table D-1. Sectors of Industrial Activity Covered by This Permit		
Subsector (May be subject to more than one sector/subsector)	SIC Code or Activity Code¹	Activity Represented
SECTOR N: SCRAP RECYCLING FACILITIES		
N1	5093	Scrap Recycling and Waste Recycling Facilities except Source-Separated Recycling
N2	5093	Source-separated Recycling Facility
SECTOR O: STEAM ELECTRIC GENERATING FACILITIES		
O1	SE	Steam Electric Generating Facilities, including coal handling sites
SECTOR P: LAND TRANSPORTATION AND WAREHOUSING		
P1	4011, 4013	Railroad Transportation
	4111-4173	Local and Highway Passenger Transportation
	4212-4231	Motor Freight Transportation and Warehousing
	4311	United States Postal Service
	5171	Petroleum Bulk Stations and Terminals
SECTOR Q: WATER TRANSPORTATION		
Q1	4412-4499	Water Transportation Facilities
SECTOR R: SHIP AND BOAT BUILDING AND REPAIRING YARDS		
R1	3731, 3732	Ship and Boat Building or Repairing Yards
SECTOR S: AIR TRANSPORTATION FACILITIES		
S1	4512-4581	Air Transportation Facilities
SECTOR T: TREATMENT WORKS		
T1	TW	Treatment Works treating domestic sewage or any other sewage sludge or wastewater treatment device or system, used in the storage, treatment, recycling, and reclamation of municipal or domestic sewage, including land dedicated to the disposal of sewage sludge that are located within the confines of the facility, with a design flow of 1.0 mgd or more, or required to have an approved pretreatment program under 40 CFR Part 403. Not included are farm lands, domestic gardens or lands used for sludge management where sludge is beneficially reused and which are not physically located in the confines of the facility, or areas that are in compliance with section 405 of the CWA
SECTOR U: FOOD AND KINDRED PRODUCTS		
U1	2041-2048	Grain Mill Products
U2	2074-2079	Fats and Oils Products
U3	2011-2015	Meat Products
	2021-2026	Dairy Products

Table D-1. Sectors of Industrial Activity Covered by This Permit		
Subsector (May be subject to more than one sector/subsector)	SIC Code or Activity Code¹	Activity Represented
	2032-2038	Canned, Frozen, and Preserved Fruits, Vegetables, and Food Specialties
	2051-2053	Bakery Products
	2061-2068	Sugar and Confectionery Products
	2082-2087	Beverages
	2091-2099	Miscellaneous Food Preparations and Kindred Products
	2111-2141	Tobacco Products
SECTOR V: TEXTILE MILLS, APPAREL, AND OTHER FABRIC PRODUCT MANUFACTURING; LEATHER AND LEATHER PRODUCTS		
V1	2211-2299	Textile Mill Products
	2311-2399	Apparel and Other Finished Products Made from Fabrics and Similar Materials
	3131-3199	Leather and Leather Products (note: see Sector Z1 for Leather Tanning and Finishing)
SECTOR W: FURNITURE AND FIXTURES		
W1	2434	Wood Kitchen Cabinets
	2511-2599	Furniture and Fixtures
SECTOR X: PRINTING AND PUBLISHING		
X1	2711-2796	Printing, Publishing, and Allied Industries
SECTOR Y: RUBBER, MISCELLANEOUS PLASTIC PRODUCTS, AND MISCELLANEOUS MANUFACTURING INDUSTRIES		
Y1	3011	Tires and Inner Tubes
	3021	Rubber and Plastics Footwear
	3052, 3053	Gaskets, Packing and Sealing Devices, and Rubber and Plastic Hoses and Belting
	3061, 3069	Fabricated Rubber Products, Not Elsewhere Classified
Y2	3081-3089	Miscellaneous Plastics Products
	3931	Musical Instruments
	3942-3949	Dolls, Toys, Games, and Sporting and Athletic Goods
	3951-3955 (except 3952 – see Sector C)	Pens, Pencils, and Other Artists' Materials
	3961, 3965	Costume Jewelry, Costume Novelties, Buttons, and Miscellaneous Notions, Except Precious Metal
	3991-3999	Miscellaneous Manufacturing Industries
SECTOR Z: LEATHER TANNING AND FINISHING		
Z1	3111	Leather Tanning and Finishing

Table D-1. Sectors of Industrial Activity Covered by This Permit		
Subsector (May be subject to more than one sector/subsector)	SIC Code or Activity Code¹	Activity Represented
SECTOR AA: FABRICATED METAL PRODUCTS		
AA1	3411-3499 (except 3479)	Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services.
	3911-3915	Jewelry, Silverware, and Plated Ware
AA2	3479	Fabricated Metal Coating and Engraving
SECTOR AB: TRANSPORTATION EQUIPMENT, INDUSTRIAL OR COMMERCIAL MACHINERY		
AB1	3511-3599 (except 3571-3579)	Industrial and Commercial Machinery, Except Computer and Office Equipment (see Sector AC)
	3711-3799 (except 3731, 3732)	Transportation Equipment Except Ship and Boat Building and Repairing (see Sector R)
SECTOR AC: ELECTRONIC, ELECTRICAL, PHOTOGRAPHIC, AND OPTICAL GOODS		
AC1	3571-3579	Computer and Office Equipment
	3812-3873	Measuring, Analyzing, and Controlling Instruments; Photographic and Optical Goods, Watches, and Clocks
	3612-3699	Electronic and Electrical Equipment and Components, Except Computer Equipment
SECTOR AD: NON-CLASSIFIED FACILITIES		
AD1	Other stormwater discharges designated by the Director as needing a permit (see 40 CFR 122.26(a)(9)(i)(C) & (D)) or any facility discharging stormwater associated with industrial activity not described by any of Sectors A-AC. NOTE: Facilities may not elect to be covered under Sector AD. Only the Director may assign a facility to Sector AD.	

¹ A complete list of SIC Codes (and conversions from the newer North American Industry Classification System" (NAICS)) can be obtained from the Internet at www.census.gov/epcd/www/naics.html or in paper form from various locations in the document titled *Handbook of Standard Industrial Classifications*, Office of Management and Budget, 1987.

Appendix E - Procedures Relating to Endangered Species Protection

E.1 Assessing the Effects of Your Discharges and Discharge-Related Activities

You must follow the procedures in this appendix to determine which of the eligibility criteria in Part 1.1.4.5 (i.e., criterion A - E), if any, you qualify under, by assessing the potential effects of applicable stormwater discharges, discharge-related activities, and allowable non-stormwater discharges on listed threatened and endangered species and their designated critical habitat. In accordance with Part 5.2.6.1 of this permit, you must keep any documentation that supports your eligibility determination, including the completed [Criterion Selection Worksheet](#) in Part E.4 of this appendix, with your Stormwater Pollution Prevention Plan (SWPPP). You must complete your eligibility determination prior to submitting your Notice of Intent (NOI) for coverage under the MSGP, and must provide all information as required on your NOI form that supports the Part 1.1.4.5 eligibility criterion you qualify under. **Note that if you have determined that you may be eligible under criterion C, you must submit a completed [Criterion C Eligibility Form](#) to EPA a minimum of 30 days prior to submitting your NOI for permit coverage.**

When evaluating the potential effects of your activities, you must consider effects to listed species or critical habitats within the "action area" of your industrial activity. Action area is defined in Appendix A of the MSGP as all areas to be affected directly or indirectly by the federal action and not merely the immediate area involved in the action. This includes areas beyond the footprint of the facility that are likely to be affected by stormwater discharges, discharge-related activities, and allowable non-stormwater discharges. For example, discharges of pollutants into downstream areas can increase the "action area" beyond the footprint of the facility.

E.2 Eligibility Criterion

As required by Part 1.1.4.5, you must meet one or more of the following five criteria (A - E) to be eligible for coverage under the permit:

- Criterion A.** No federally listed threatened or endangered species or their designated critical habitat(s) are likely to occur in the "action area" as defined in Appendix A. To certify your eligibility under this criterion, you must use the *Criterion Selection Worksheet* in Part E.4 of Appendix E. You must also provide a description of the basis for the criterion you selected on your NOI form and provide documentation supporting your eligibility determination in your SWPPP.
- Criterion B.** Your industrial activity's discharges and discharge-related activities were already addressed in another operator's valid certification of eligibility for your action area under this permit and there is no reason to believe that federally listed species or designated critical habitat not considered in the prior certification may be present or located in the "action area" (e.g., due to a new species listing or critical habitat designation). To certify your eligibility under this criterion, you must use the *Criterion Selection Worksheet* in Part E.4 of Appendix E. There must be no lapse of NPDES permit coverage in the other operator's certification. You must also comply with any additional measures that formed the basis of the other operator's valid certification of eligibility to ensure that your discharges and discharge-related activities are protective of listed species and/or critical habitat. You must include in your NOI the NPDES ID (i.e., permit tracking number) assigned to the other operator's authorization under this permit, and a description of the basis for the criterion selected on your NOI form, including the eligibility criterion selected by the

other operator's certification. You must also provide any documentation in your SWPPP that supports the other operator's eligibility determination, including any additional measures that formed the basis of the other operator's eligibility determination.

Criterion C. Federally listed threatened or endangered species or their designated critical habitat(s) are likely to occur in or near your facility's "action area," and your industrial activity's discharges and discharge-related activities are not likely to adversely affect listed threatened or endangered species or critical habitat. To certify your eligibility under this criterion, you must use the *Criterion Selection Worksheet* in Part E.4 of Appendix E, including completion of the *Criterion C Eligibility Form*, which you must submit to EPA at least 30 days prior to filing your NOI for permit coverage. After evaluation of your *Criterion C Eligibility Form*, EPA may require additional measures that you must implement to avoid or eliminate likely adverse effects on listed species and critical habitat from discharges and discharge-related activities. You may submit your NOI for permit coverage 30 days after submitting to EPA your completed *Criterion C Eligibility Form*. You must also provide a description of the basis for the criterion you selected on your NOI form and provide documentation supporting your eligibility determination in your SWPPP.

Criterion D. Consultation between a Federal Agency and the U.S. Fish and Wildlife Service and/or the National Marine Fisheries Service under section 7 of the Endangered Species Act (ESA) has been concluded. Consultations can be either formal or informal, and would have occurred only as a result of a separate federal action (e.g., during application for an individual wastewater discharge permit or the issuance of a wetlands dredge and fill permit), and consultation must have addressed the effects of the industrial activity's discharges and discharge-related activities on all federally listed threatened or endangered species and federally designated critical habitat. The result of this consultation must be one of the following:

- i. A biological opinion that concludes that the action in question (taking into account the effects of your facility's discharges and discharge-related activities) is not likely to jeopardize the continued existence of listed species, or result in the destruction or adverse modification of critical habitat;
- ii. A biological opinion that concludes that the action is likely to jeopardize listed species or to result in the destruction or adverse modification of critical habitat, and any recommended reasonable and prudent alternatives or reasonable and prudent measures are being implemented; or
- iii. Written concurrence from the applicable Service(s) with a finding that your facility's discharges and discharge-related activities are not likely to adversely affect listed species or critical habitat.

To certify your eligibility under this criterion, you must use the *Criterion Selection Worksheet* in Part E.4 of Appendix E. You must verify that the consultation does not warrant reinitiation under 50 CFR §402.16. If reinitiation of consultation is required, in order to be eligible under this criterion you must ensure consultation is reinitiated and the result of the consultation must be consistent with (i), (ii), or (iii) above.

If eligible, you must also provide supporting documentation for your determination in your NOI and SWPPP, including the Biological Opinion (or PCTS tracking number) or concurrence letter.

Criterion E. Your industrial activities are the subject of a permit under section 10 of the ESA, and this authorization addresses the effects of your facility's discharges and discharge-related activities on federally listed species and designated critical habitat. To certify your eligibility under this criterion, you must use the *Criterion Selection Worksheet* in Part E.4 of Appendix E. You must also provide supporting documentation for your determination in your NOI and SWPPP, including a copy of the permit from the Services.

E.3 Eligibility Compliance

You must comply with any measures that formed the basis of your eligibility determination in Part 1.1.4.5 for the duration of your coverage under the MSGP in order to maintain your eligibility for coverage under the permit. These measures become permit requirements per Part 2.3. Documentation of these measures must be kept as part of your SWPPP (see Part 5.2.6.1).

E.4 Criterion Selection Worksheet

Instructions:

You must follow the step-by-step instructions in this worksheet in order to determine your eligibility under the Part 1.1.4.5 criteria. Alternatively, if you prefer to use a Biological Evaluation (or its equivalent) in making a determination of your eligibility, you should ensure all of the information requested below for the criterion you are selecting is fully addressed in such a document. You must attach this completed document or Biological Evaluation (or equivalent) to your SWPPP to support your Part 1.1.4.5 eligibility determination.

You may need the following information in order to determine your eligibility:

- 1) Your facility's draft Stormwater Pollution Prevention Plan (SWPPP), including information on receiving waters.
- 2) Any additional site-specific information related to your facility's discharges and discharge-related activities.
- 3) The list(s) of endangered and threatened species and any designated critical habitat in your action area, as acquired from the Fish and Wildlife Service and/or the National Marine Fisheries Services. Directions on how to acquire species lists is described in a subsequent section below.

Note that much of the information needed to complete this worksheet is also needed in order to prepare your NOI for permit coverage, and is also information that you must develop as part of your SWPPP. You may copy and paste any information that is already required and completed in your SWPPP into this worksheet. (*You may also decide to make minor changes or additions to your SWPPP while filling out the worksheet for clarification purposes or to address any concerns that are identified below.*)

STEP 1: DETERMINE IF THE ELIGIBILITY REQUIREMENTS OF CRITERION B, D, OR E CAN BE MET.

- A. You should first determine whether you are eligible under [criterion B](#) (because another operator has accounted for your action area in their valid certification of eligibility under the 2015 MSGP), [criterion D](#) (because of a previously completed ESA section 7 consultation), or [criterion E](#) (because of a previously issued ESA section 10 permit).

- B. If your facility is likely to be eligible under criterion B, D or E, you may skip ahead to the applicable criterion's requirements to determine if you are eligible. If after completing the relevant section you find that your facility does not in fact meet criteria B, D, or E (e.g., due to difference in action area described, lack of analysis of appropriate effects, new listings or designation of critical habitat), proceed to [Step 2](#) below.
- C. If your facility is not likely to be eligible under criterion B, D or E, you may proceed directly to [Step 2](#).

Criterion B Eligibility Requirements

If your industrial activities were already addressed in another operator's valid certification of eligibility under the current 2015 MSGP, you may be eligible for coverage under criterion B. In order to be eligible for coverage under criterion B, you must confirm that all the following are true:

- You have confirmed that the other operator's certification of eligibility accounted for your action area and that the eligibility determination was valid.
- There has been no lapse of NPDES permit coverage in the other operator's certification.
- You will comply with all measures that formed the basis of the other operator's valid certification of eligibility. List any measures here (or enter "N/A" if none exist):

- **If all of the above are true, you may select criterion B on your NOI.** You must include in your NOI the NPDES ID assigned to the other operator's authorization under this permit, and a description of the basis for the criterion selected on your NOI form, including the eligibility criterion selected by the other operator's certification. You must include this completed worksheet in your SWPPP.
- **If any of the above are not true, you may not select criterion B and must proceed to [Step 2](#).** For example, if there are any listed species in your action area that were not addressed in the other operator's certification, you are not eligible under criterion B.

Criterion D Eligibility Requirements

If consultation under section 7 of the ESA has been concluded, you may be eligible for coverage under criterion D. In order to be eligible for coverage under criterion D, you must confirm that all the following are true:

- A consultation between a federal agency and the U.S. Fish and Wildlife Service and/or the National Marine Fisheries Service under section 7 of the ESA has been concluded. Consultations can be either formal or informal, and would have occurred only as a result of a separate federal action (e.g., during application for an individual wastewater discharge permit or the issuance of a wetlands dredge and fill permit), and the consultation must have addressed the effects of your industrial activity's discharges and discharge-related activities on all federally listed threatened or endangered species and all designated critical habitat in your action area. The result of this consultation must be either:

- i. A biological opinion that concludes that the action in question (taking into account the effects of your facility's discharges and discharge-related activities) is not likely to jeopardize the continued existence of listed species, or result in the destruction or adverse modification of critical habitat. The biological opinion must have included the effects of your facility's discharges^a and discharge-related activities on all the listed species and designated critical habitat in your action area;
- ii. A biological opinion that concludes that the action is likely to jeopardize listed species or to result in the destruction or adverse modification of critical habitat, and any recommended reasonable and prudent alternatives or reasonable and prudent measures are being implemented; or
- iii. Written concurrence (e.g., letter of concurrence) from the applicable Service(s) with a finding that concludes that your facility's discharges and discharge-related activities are not likely to adversely affect listed species or designated critical habitat. The concurrence letter must have included the effects of your facility's discharges and discharge-related activities on all the listed species and designated critical habitat on your species list(s) acquired from the Service(s) as part of this worksheet.

The consultation does not warrant reinitiation under 50 CFR §402.16; or, if reinitiation of consultation is required (e.g., due to a new species listing or critical habitat designation; new information), you have reinitiated the consultation and the result of the consultation is consistent with the statements above. Attach a copy of any reinitiation documentation from the Services or other consulting federal agency.

- **If all of the above are true, you may select criterion D on your NOI.** You must also provide a description of the basis for the criterion selected on your NOI form and you must include this completed worksheet in your SWPPP. In both your SWPPP and NOI you must also provide the Biological Opinion (or PCTS tracking number) or concurrence letter and any other documentation supporting your eligibility determination.
- **If any of the above are not true, you may not select criterion D and must proceed to [Step 2](#).** For example, if the biological opinion or written concurrence did not include the effects of the discharge or discharge-related activities as described above (e.g., the previous consultation covered some but not all of the species or critical habitat in your action area as shown on your species list), or if the consultation is no longer valid (e.g., due to new species listings), you are not eligible under criterion D.

Criterion E Eligibility Requirements

If your industrial activities are the subject of a permit under section 10 of the ESA, and this authorization addresses the effects of your facility's discharges and discharge-related activities on federally listed species and designated critical habitat in your action area, you may be eligible for coverage under criterion E. In order to be eligible for coverage under criterion E, you must confirm that the following is true:

A permit has been issued under section 10 of the ESA. The permit authorization specifically addresses the effects of your facility's discharges and discharge-related activities (if applicable) on all federally-listed species and designated critical habitat in your action area.

^a Effects of discharge includes, but is not limited to, the analysis of the hydrological, chemical, and biological effects of the discharge on listed species, their prey, and their habitat, as well as critical habitat, where designated. For example, the effects analysis would have evaluated whether the various pollutants in the discharge (e.g., TSS, metals) would adversely affect listed species through exposure to the pollutants, or to their prey or habitat. Effects that look only at short-term effects unrelated to the stormwater discharge effects to listed species are not sufficient for these purposes.

- **If the above is true, you may select criterion E on your NOI.** You must also provide a description of the basis for the criterion selected on your NOI form and must include this completed worksheet in your SWPPP. In both your SWPPP and your NOI you must provide a copy of the section 10 permit issued by the Services.
- **If the above is not true, you may not select criterion E and must proceed to [Step 2](#).** For example, if a permit has been issued under section 10 of the ESA, but the permit authorization did not address the effects of your facility's discharges and/or discharge-related activities on all federally-listed species and designated critical habitat in your action area, you are not eligible under criterion E, but you should attach a copy of the permit to the SWPPP for reference.

STEP 2: DETERMINE THE EXTENT OF YOUR ACTION AREA

You must determine whether species listed as either threatened or endangered, or their critical habitat(s) (see definitions of these terms in Appendix A), are located in your facility's action area (i.e., all areas to be affected directly or indirectly by the federal action and not merely the immediate area involved in the action, including areas beyond the footprint of the facility that are likely to be affected by stormwater discharges, discharge-related activities, and allowable non-stormwater discharges). Consider the following in determining the action area for your facility:

- Discharges of pollutants into downstream areas can expand the action area well beyond the footprint of your facility and the discharge point(s). Take into account the controls you will be implementing to minimize pollutants and the receiving waterbody characteristics (e.g., perennial, intermittent, ephemeral) in determining the extent of physical, chemical, and/or biotic effects of the discharges. All receiving waterbodies that could receive pollutants from your facility must be included in your action area.
- Discharge-related activities must also be accounted for in determining your action area. Discharge-related activities are any activities that cause, contribute to, or result in stormwater and allowable non-stormwater point source discharges, and measures such as the siting, construction, and operation of stormwater controls to control, reduce, or prevent pollutants from being discharged. For example, any new or modified stormwater controls that will have noise or other similar effects, and any disturbances associated with construction of controls, are part of your action area.

If you have any questions about determining the extent of your action area, you may contact EPA or the Services for assistance.

You must include a map **and a written description** of the action area of your facility in [Attachment 1](#) of this appendix. You may choose to include the map that is generated from the FWS' on-line mapping tool IPaC (the *Information, Planning, and Consultation System*) located at <http://ecos.fws.gov/ipac/> (see [Step 3](#) for information about using this tool).

You must proceed to [Step 3](#) below.

STEP 3: DETERMINE IF LISTED THREATENED OR ENDANGERED SPECIES AND/OR CRITICAL HABITAT ARE PRESENT IN YOUR ACTION AREA.

You must determine whether species listed as either threatened or endangered under the Endangered Species Act (ESA), and/or their designated critical habitat(s)^b, are located in your facility's action area. Federally listed species and designated critical habitat are under the purview of the National Marine Fisheries Service (NMFS) and the U.S. Fish and Wildlife Service (FWS) (together, "Services"), and in many cases, species and critical habitat lists will need to be acquired from both Services.

^b See definitions of these terms in Appendix A of the MSGP.

- For NMFS species and critical habitat information, use the following webpages, which provide up-to-date information on listed species (<http://www.nmfs.noaa.gov/pr/species/esa/>) and critical habitat (<http://www.nmfs.noaa.gov/pr/species/criticalhabitat.htm>). To determine the field office that corresponds to your facility, go to <http://www.nmfs.noaa.gov/> (under the left tab for "Regions"). For NMFS species in the Greater Atlantic Region, go to <http://www.greateratlantic.fisheries.noaa.gov/protected/section7/guidance/maps/index.html>.
- For FWS species information, use the on-line mapping tool IPaC (the *Information, Planning, and Consultation System*) located at <http://ecos.fws.gov/ipac/>, and follow these steps:
 - *Select Get Started.*
 - Select Enter Project Location
 - Use an address, city name or other location to zoom into your project area
 - Use the zoom feature to see the entire extent of your action area on the screen.
 - Use one of the mapping features (e.g., Polygon or line feature) to draw your action.
 - For the aquatic portion of your action area, trace the waterbody(ies) with the tool to characterize your action area.
 - If your proposal will include any upland activities (i.e., discharge-related activities), or if there is some aspect of your discharge that would potentially result in effects to terrestrial species, include the corresponding upland areas within your action area.
 - When you are done, press *Continue*.
 - Select Request an Official Species List
 - Complete the fields on the Official Species List Request page, and include "(MSGP)" at the end of the project description.
 - For Classification, select "Water Quality Modification".
 - Select the appropriate requesting agency/organization type (for most applicants, this should be "Other").
 - Submit the request to acquire an Official Species List, which should show both listed species as well as any designated critical habitat that are present in the action area in the previous step.
 - Note: *If a link to an Official Species List is not available on the page, follow the web link of the office(s) indicated, or contact the office directly by mail or phone if a web link is not shown.*

The principle authority for critical habitat designations and associated requirements is found at 50 CFR Parts 17 and 226. See <http://www.access.gpo.gov>.

Attach a copy of the species and critical habitat list(s) from the Service(s) to [Attachment 2](#) of this appendix and use the list(s) to complete the rest of this worksheet. For FWS species, include the full printout from your IPaC query/Official Species List in Attachment 2. You can include the map from your IPaC query in Attachment 1.

If after following the steps you have determined that there are no listed species and/or designated critical habitat in your action area, you may be eligible for coverage under [criterion A](#).

If you have determined that there are or may be listed species and/or designated critical habitat in your action area, you are not eligible under criterion A and must proceed to [Step 4](#) below.

Criterion A Eligibility Requirements

In order to be eligible for coverage under criterion A, you must confirm that the following is true:

I have confirmed there to be no listed species and no critical habitat in my action area.

- **If the above is true, you may select criterion A on your NOI form.** You must also provide a description of the basis for the criterion selected on your NOI form. You must include this completed worksheet in your SWPPP. *Note: If your Official Species List from the USFWS indicated no species or critical habitat were present in your action area, include the full consultation tracking code at the top of your Official Species List in your NOI submittal in the question "Provide a brief summary of the basis for the criterion selected in Appendix E." If an Official Species List was not available on IPaC, list the contact date and name of the Service staff with whom you corresponded to verify no USFWS species or critical habitat were present in your action area.*
- If the above is not true, you may not select criterion A and must proceed to [Step 4](#) to determine if you can become eligible under criterion C.

Note: For existing dischargers that have previously obtained coverage under criterion A, you must verify whether listed species and/or critical habitat are expected to exist in your action area, as described above. Please note that if you now find that your action area overlaps with listed species or critical habitat, you must proceed to [Step 4](#).

STEP 4: DETERMINE IF YOUR INDUSTRIAL FACILITY'S DISCHARGES OR DISCHARGE-RELATED ACTIVITIES ARE LIKELY TO ADVERSELY AFFECT LISTED THREATENED OR ENDANGERED SPECIES OR DESIGNATED CRITICAL HABITAT AND ANY MEASURES THAT MUST BE IMPLEMENTED TO AVOID ADVERSE EFFECTS

If in Step 3 you determined that listed species and/or designated critical habitat could exist in your action area, you must next assess whether your discharges and discharge-related activities are likely to adversely affect listed threatened or endangered species or designated critical habitat, and whether any additional measures are necessary to ensure no likely adverse effects. In order to make a determination of your facility's likelihood of adverse effects, you must complete the attached [Criterion C Eligibility Form](#) and must submit this form to EPA a minimum of 30 days prior to filing your NOI for permit coverage. After you submit your [Criterion C Eligibility Form](#), you may be contacted by EPA with additional measures that you must implement in order to ensure your eligibility under criterion C.

Criterion C Eligibility Form

Instructions:

In order to be eligible for coverage under criterion C, you must complete the following form and you must submit it to EPA following the instructions in Section VII a **minimum of 30 days prior to filing your NOI for permit coverage.** After you submit your form, you may be contacted by EPA with additional measures (e.g., additional stormwater controls or modifications to your discharge-related activities) that you must implement in order to ensure your eligibility under criterion C.

If after completing this worksheet you cannot make a determination that your discharges and discharge-related activities are not likely to adversely affect listed threatened or endangered species or designated critical habitat, you must submit this completed worksheet to EPA, and you may not file your NOI for permit coverage until you receive a determination from EPA that your discharges and/or discharge-related activities are not likely to adversely affect listed species and critical habitat.

Note: Much of the information needed for this form can be obtained from your draft SWPPP which will be needed when you file your NOI.

SECTION I. OPERATOR, FACILITY, AND SITE LOCATION INFORMATION.

1) Operator Information

a) Operator Name: _____

b) Point of Contact

First Name: _____ Last Name: _____

Phone Number: _____

E-mail: _____

2) Facility Information

a) Facility Name: _____

b) Check which of the following applies:

I am seeking coverage under the MSGP as a new discharger or as a new source

I am seeking coverage under the MSGP as an existing discharger and my facility has modifications to its discharge characteristics (e.g., changes in discharge flow or area drained, different pollutants) and/or discharge-related activities (e.g., stormwater controls)

Indicate the number of years the facility has been in operation: _____ years

Provide your NPDES ID (i.e., permit tracking number) from your previous MSGP coverage: _____

I am seeking coverage under the MSGP as an existing discharger and there are no modifications to my facility.

Indicate the number of year the facility has been in operation: _____ years

Provide your NPDES ID (i.e., permit tracking number) from your previous MSGP coverage: _____

c) Facility Address:

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip Code: _____

d) Identify the primary industrial sector to be covered under the 2015 MSGP:

SIC Code _____ or Primary Activity Code _____

Sector _____ and Subsector _____

e) Identify the sectors of any co-located activities to be covered under the 201r MSGP:

Sector _____ Subsector _____

Sector _____ Subsector _____

Sector _____ Subsector _____

Sector _____ Subsector _____

Sector _____ Subsector _____

Sector _____ Subsector _____

f) Estimated area of industrial activity exposed to stormwater: _____ acres

g) Provide a general description of the industrial activities that are taking place at this facility:

3) Receiving Waters Information

List all the stormwater outfalls from your facility.				For each outfall, provide the following receiving water information:	
Outfall ID	Design Capacity (if known)	Latitude (decimal degrees)	Longitude (decimal degrees)	Name of the receiving water that receives stormwater from the outfall and/or from the MS4 that the outfall discharges to	Type of Waterbody (e.g., lake, pond, river/stream/creek, estuarine/marine water)
		---.----	---.----		
		---.----	---.----		
		---.----	---.----		
		---.----	---.----		
		---.----	---.----		

SECTION II. ACTION AREA

Ensure that your action area is described in [Attachment 1](#), as required in [Step 2](#).

SECTION III. LISTED SPECIES AND CRITICAL HABITAT LIST

Ensure that the listed species and critical habitat list is included in [Attachment 2](#), as required in [Step 3](#).

Review your species list in Attachment 2, choose one of the following three statements, and follow the corresponding instructions:

The species list includes only terrestrial species and/or their designated critical habitat. No aquatic or aquatic-dependent species or their critical habitat are present in the action area. **You may skip to [Section IV](#) of this form. You are not required to fill out [Section V](#).**

The species list includes only aquatic and/or aquatic-dependent species and/or their designated critical habitat. No terrestrial species or their critical habitat are present in the action area. **You may skip to [Section V](#) of this form and are not required to fill out [Section IV](#).**

The species list includes both terrestrial and aquatic or aquatic-dependent species and/or their designated critical habitat. **You must fill out both [Sections IV](#) and [V](#) of this form.**

Note: For the purposes of this permit, "terrestrial species" would not include animal or plant species that 1) spends any portion of its life cycle in a waterbody or wetland, or 2) if an animal, depends on prey or habitat that occurs in a waterbody or wetland. For example, shorebirds, wading birds, amphibians, and certain reptiles would not be considered terrestrial species under this definition. Please also be aware that some terrestrial animals (e.g., certain insects, amphibians) may have an aquatic egg or larval/juvenile phase.

SECTION IV. EVALUATION OF DISCHARGE-RELATED ACTIVITIES EFFECTS

Note: You are only required to fill out this section if your facility's action area contains terrestrial species and/or their designated critical habitat. If your action area only contains aquatic and/or aquatic-dependent species and/or their designated critical habitat, you can skip directly to [Section V](#).

Most of the potential effects related to coverage under the MSGP are assumed to occur to aquatic and/or aquatic-dependent species. However, in some cases, potential effects to terrestrial species and/or their critical habitat should be considered as well from any discharge-related activities that occur during coverage under the MSGP. Examples of discharge-related activities that could have potential effects on listed terrestrial species or their critical habitat include the storage of materials and land disturbances associated with stormwater management-related activities (e.g., the installation or placement of stormwater control measures).

A. Select the applicable statement(s) below and follow the corresponding instructions:

There are no discharge-related activities that are planned to occur during my coverage under the MSGP. You can conclude that your discharge-related activities will have no likely adverse effects, and:

- If there are any aquatic or aquatic-dependent species and/or their critical habitat in your action area, you must skip to [Section V, Evaluation of Discharge Effects](#), below.
- If there are no aquatic or aquatic-dependent species you may skip to [Section VI](#) and verify that your activities will have no likely adverse effects. You must submit this form to EPA as specified in [Section VII](#) of this form. You may select criterion C on your NOI form and may submit your NOI for permit coverage 30 days after you have submitted this *Criterion C Eligibility Form*. You must also provide a description of the basis for the criterion you selected on your NOI form, **including the species and critical habitat list(s) in your action area**, as well as any other documentation supporting your eligibility. You must also include this completed *Criterion C Eligibility Form* in your SWPPP.

There are discharge-related activities planned as part of the proposal. Describe your discharge-related activities in the following box and continue to (b) below.

Describe discharge-related activities:

B. In order to ensure any discharge-related activities will have no likely adverse effects on listed species and/or their designated critical habitat, you must certify that all the following are true:

Discharge-related activities will occur:

- on previously cleared/developed areas of the site where maintenance and operation of the facility are currently occurring or where existing conditions of the area(s) in which the discharge-related activities will occur precludes its use by listed species (e.g., work on existing impervious surfaces, work occurring inside buildings, area is not used by species), and
- if discharge-related activities will include the establishment of structures (including, but not limited to, infiltration ponds and other controls) or any related disturbances, these structures and/or disturbances will be sited in areas that will not result in isolation or degradation of nesting, breeding, or foraging habitat or other habitat functions for listed animal species (or their designated critical habitat), and will avoid the destruction of native vegetation (including listed plant species).

If vegetation removal (e.g., brush clearing) or other similar activities will occur, no terrestrial listed species that use these areas for habitat would be expected to be present during vegetation removal.

If all the above are true, you can conclude that your discharge-related activities will have no likely adverse effects, and:

- If there are any aquatic or aquatic-dependent species and/or critical habitat in your action area, you must skip to [Section V](#), *Evaluation of Discharge Effects*, below.
- If there are no aquatic or aquatic-dependent species you may skip to [Section VI](#) and verify that your activities will have no likely adverse effects. You must submit this form to EPA as specified in [Section VII](#) of this form. You may select criterion C on your NOI and may submit your NOI for permit coverage 30 days after you have submitted this completed form. You must also provide a description of the basis for the criterion you selected on your NOI form, **including the species and critical habitat list(s)**, and any other documentation supporting your eligibility. You must also include this completed *Criterion C Eligibility Form* in your SWPPP.
- **If any of the above are not true**, you cannot conclude that your discharge-related activities will have no likely adverse effects. You must complete the rest of this form (if applicable), and must submit the form to EPA for assistance in determining your eligibility for coverage.

SECTION V. EVALUATION OF DISCHARGE EFFECTS

Note: You are only required to fill out this section if your facility's action area includes aquatic and/or aquatic-dependent species and/or their critical habitat.

In this section, you will evaluate the likelihood of adverse effects from your facility's discharges. The scope of effects to consider will vary with each facility and species/critical habitat characteristics. The following are examples of discharge effects you should consider:

- **Hydrological Effects.** Stormwater discharges may adversely affect receiving waters from pollutant parameters such as turbidity, temperature, salinity, or pH. These effects will vary with the amount of stormwater discharged and the volume and condition of the receiving water. Where a stormwater discharge constitutes a minute portion of the total volume of the receiving water, adverse hydrological effects are less likely.
- **Toxicity of Pollutants.** Pollutants in stormwater may have toxic effects on listed species and may adversely affect critical habitat. Exceedances of benchmarks, effluent limitation guidelines, or state or tribal water quality requirements may be indicative of potential adverse effects on listed species or critical habitat. However, some listed species may be adversely affected at pollutant concentrations below benchmarks, effluent limitation guidelines, and state or tribal water quality standards. In addition, stormwater pollutants identified in Part 5.2.3.2 of your SWPPP, but not monitored as benchmarks or effluent limitation guidelines, may also adversely affect listed species and critical habitat.

As these effects are difficult to analyze for listed species, their prey, habitat, and designated critical habitat, this form helps you to analyze your discharges and make a determination of whether your discharges will have likely adverse effects and whether there are any additional controls you can implement to ensure no likely adverse effects.

A. Evaluation of Pollutants and Controls to Avoid Adverse Effects. In this section, you must document all of your pollutant sources and pollutants expected to be discharged in stormwater. You must also document the controls you will implement to avoid adverse effects on listed aquatic and aquatic-dependent species. You must include specific details about the expected effectiveness of the controls in avoiding adverse effects to the listed aquatic-and aquatic-dependent species. Attach additional pages if needed.

Potential Pollutant Source	Potential Pollutants	Controls to Avoid Adverse Effects on Listed Aquatic and Aquatic-Dependent Species. Include information supporting why the control(s) will ensure no adverse effects, including any data you have about the effectiveness of the control(s) in reducing pollutant concentrations. You may also attach photos of your controls to this form.
<i>e.g., vehicle and equipment fueling</i>	<i>e.g.,</i> <ul style="list-style-type: none"> • Oil & grease • Diesel • Gasoline • TSS • Antifreeze 	<i>e.g.,</i> <ul style="list-style-type: none"> • Fueling operators (including the transfer of fuel from tank trucks) will be conducted on an impervious or contained pad or under cover • Drip pans will be used where leaks or spills of fuel can occur and where making and breaking hose connections • Spill kit will be kept on-site in close proximity to potential spill areas • Any spills will be cleaned-up immediately using dry clean up methods • Stormwater runoff will be diverted around fueling areas using diversion dikes and curbing

Potential Pollutant Source	Potential Pollutants	Controls to Avoid Adverse Effects on Listed Aquatic and Aquatic-Dependent Species.

Potential Pollutant Source	Potential Pollutants	Controls to Avoid Adverse Effects on Listed Aquatic and Aquatic-Dependent Species.

Check if you are not able to make a preliminary determination that any of your pollutants will be controlled to a level necessary to avoid adverse effects on aquatic and/or aquatic-dependent listed species and their designated critical habitat. You must check in [Section VI](#) that you are unable to make a determination of no likely adverse effects, and must complete the rest of the form. You must submit your completed form to EPA for assistance in determining your eligibility for coverage.

B. Analysis of Effects Based on Past Monitoring Data. Select which of the following applies to your facility:

I have no previous monitoring data for my facility because there are no applicable monitoring requirements for my facility's sector(s).

I have no previous monitoring data for my facility because I am a new discharger or a new source, but I am subject to monitoring under the 2015 MSGP. You must provide information to support a conclusion that your facility's discharges are not expected to result in benchmark or numeric effluent limit exceedances that will adversely affect listed species or their critical habitat:

My facility has not had any exceedances under the 2008 MSGP of any required benchmark(s) or numeric effluent limits.

My facility has had exceedances of one or more benchmark(s) or numeric effluent limits under the 2008 MSGP, but I have addressed them during my coverage under the 2008 MSGP, or in my evaluation of controls to avoid adverse effects in (A) above. Describe all actions (including specific controls) that you will implement to ensure that the pollutants in your discharge(s) will not result in likely adverse effects from future exceedances.

Check if your facility has had exceedances of one or more benchmarks or numeric effluent limits under the 2008 MSGP and you have not been able to address them to avoid adverse effects from future exceedances, or if you are a new discharger or a new source but you are not sure if you can avoid adverse effects from possible exceedances. You must check in [Section VI](#) that you are unable to make a determination of no likely adverse effects. You must submit your completed form to EPA for assistance in determining your eligibility for coverage. You may not file your NOI for permit coverage until you are able to make a determination that your discharges will avoid adverse effects on listed species and designated critical habitat.

SECTION VI VERIFICATION OF PRELIMINARY EFFECTS DETERMINATION

Based on Steps I – V of this form, you must verify your preliminary determination of effects on listed species and designated critical habitat from your discharges and/or discharge-related activities :

Following the applicable Steps in I – V above, I have made a preliminary determination that my discharges and/or discharge-related activities are not likely to adversely affect listed species and designated critical habitats.

Following the applicable Steps in I – V above, I am **not** able to make a preliminary determination that my discharges and/or discharge-related activities are not likely to adversely affect listed species and designated critical habitats.

Certification Information

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 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.

First Name, Middle Initial, Last Name:

Title:

Signature: _____ Date: / /

E-mail:

SECTION VII CRITERION C ELIGIBILITY FORM SUBMISSION INSTRUCTIONS

You must submit this completed form to EPA at msgpesa@epa.gov, including any attachments and any additional information that demonstrates how you will avoid or eliminate adverse effects to listed species or critical habitat (e.g., specific controls you will implement to avoid or eliminate adverse effects). **Any missing or incomplete information may result in a delay of your coverage under the permit.**

If you have made a preliminary determination that your discharges and/or discharge-related activities are not likely to adversely affect listed species and critical habitat, this form must be submitted a minimum of 30 days prior to submitting your NOI for permit coverage under criterion C. Please note that during either the 30-day *Criterion C Eligibility Form* review period prior to your NOI submission, or within 30 days after your NOI submission and before you have been authorized for permit coverage, EPA may advise you that additional information is needed, or that there are additional measures you must implement to avoid likely adverse effects.

If you are unable to make a preliminary determination that your discharges and/or discharge-related activities are not likely to adversely affect listed species and critical habitat, this worksheet must be submitted to EPA, but you may not file your NOI for permit coverage until you have received a determination from EPA that your discharges and/or discharge-related activities are not likely to adversely affect listed species and critical habitat.

Attachment 1

Include a map **and a written description** of the action area of your facility, as required in [Step 2](#). You may choose to include the map that is generated from the FWS' on-line mapping tool IPaC (the *Information, Planning, and Consultation System*) located at <http://ecos.fws.gov/ipac/>.

The written description of your action area that accompanies your action area map must explain your rationale for the extent of the action area drawn on your map. For example, your action area written description may look something like this:

The action area for the (name of your facility)'s stormwater discharges extends downstream from the outfall(s) in (name of receiving waterbody) (# of meters/feet/kilometers/miles). The downstream limit of the action area reflects the approximate distance at which the discharge waters and any pollutants would be expected to cause potential adverse effects to listed species and/or critical habitat because (insert rationale). The action area does/does not extend to the (name of receiving waterbody)'s confluence with (name of confluence waterbody) because (insert rationale).

Note that your action area written description will be highly site-specific, depending on the expected effects of your facility's discharges and discharge-related activities, receiving waterbody characteristics, etc.

Attachment 2

List or attach the listed species and critical habitat in your action area on this sheet, as required in [Step 3](#). You must include a list for applicable listed NMFS and FWS species and critical habitat. If there are listed species and/or critical habitat for only one Service, you must include a statement confirming there are no listed species and/or critical habitat for the other Service. For FWS species, include the full printout from your IPaC query. *Note: If your Official Species List from the USFWS indicated no species or critical habitat were present in your action area, include the full consultation tracking code at the top of your Official Species List in your NOI submittal in the question "Provide a brief summary of the basis for the criterion selected in Appendix E." If an Official Species List was not available on IPaC, list the contact date and name of the Service staff with whom you corresponded to identify the existence of any USFWS species or critical habitat present in your action area.*

Appendix F - Procedures Relating to Historic Properties Preservation

F.1 Background

Section 106 of the National Historic Preservation Act (NHPA) requires Federal agencies to take into account the effects of Federal “undertakings”, such as the issuance of this permit, on historic properties that are either listed or eligible for listing on the National Register of Historic Places. To address any issues relating to historic properties in connection with the issuance of this permit, EPA has developed the screening process in this appendix that enables facility operators to appropriately consider the potential impacts, if any, from the installation of stormwater controls that involve subsurface disturbance, on historic properties and to determine whether actions can be taken, if applicable, to mitigate any such impacts. Although the coverage of individual industrial facilities under this permit does not constitute separate Federal undertakings, the screening process in this appendix provides an appropriate site-specific means of addressing historic property issues in connection with EPA’s issuance of the permit.

Before an operator is eligible for coverage under the 2015 MSGP (unless otherwise noted, all references to “eligible” or “eligibility” refer only to coverage under the 2015 MSGP), the operator must meet one of the certification criteria related to historic properties included in the permit. In the event an operator cannot meet any of the certification criteria included in the permit relating to historic properties, the operator must apply for an individual permit.

You must meet one or more of the four criteria (A-D), which are also included in Part 1.1.4.6, to be eligible for coverage under this permit.

Activities with No Potential to Have an Effect on Historic Properties

A determination that a Federal undertaking has no potential to have an effect on historic properties fulfills an agency’s obligations under the NHPA. EPA has reason to believe that the vast majority of activities authorized under the MSGP have no potential to have effects on historic properties. The purpose of this permit is to control pollutants that may be transported in stormwater runoff from industrial facilities. EPA does not anticipate effects on historic properties from the pollutants in the stormwater and allowable non-stormwater discharges from these industrial facilities. Thus, to the extent EPA’s issuance of this general permit authorizes discharges of such constituents, confined to existing stormwater channels or natural drainage areas; the permitting action does not have the potential to cause effects on historic properties.

In addition, the overwhelming majority of sources covered under this permit will be facilities that are seeking renewal of previous permit coverage. These existing dischargers should have already addressed NHPA issues in the 2008 MSGP as they were required to certify that they

Key Terms

Historic Property – Prehistoric or historic districts, sites, buildings, structures, or objects that are included in or eligible for inclusion in the National Register of Historic Places, including artifacts, records, and remains that are related to and located within such properties.

ACHP – Advisory Council on Historic Preservation; an independent Federal agency.

SHPO – The State Historic Preservation Officer for a particular state.

THPO or Authorized Tribal Representative – The Tribal Historic Preservation Officer for a particular Tribe, or if there is no THPO, the representative designated by such Tribe for NHPA purposes. Historic properties could have significance to more than one Indian tribe; therefore, all Indian tribes that attach religious and cultural significance to a historic property must be identified and included in the historic properties screening process.

Area of Potential Effects (APE) – The geographic area or areas within which an undertaking may directly or indirectly cause changes in the character or use of historic properties, if any such properties exist. The area of potential effects is influenced by the scale and nature of an undertaking and may be different for different kinds of effects caused by the undertaking.

were either not affecting historic properties or they had obtained written agreement from the applicable State Historic Preservation Officer (SHPO) or Tribal Historic Preservation Officer (THPO) regarding methods of mitigating potential impacts. Both existing and new dischargers must follow the historic property screening procedures to determine their eligibility. EPA is not aware of any impacts on historic properties from activities covered under the 2008 MSGP, or, for that matter, any need for a written agreement. Therefore, to the extent this permit authorizes renewal of prior coverage without relevant changes in operations, it has no potential to have an effect on historic properties.

Activities with Potential to Have an Effect on Historic Properties

EPA believes this permit may have some potential to have an effect on historic properties where permittees construct and/or install stormwater control measures that involve subsurface disturbance and impact less than one (1) acre of land to comply with this permit. (Ground disturbances of one (1) acre or more require coverage under a different permit, the Construction General Permit.) Where you have to disturb the land through the construction and/or installation of control measures, there is a possibility that artifacts, records, or remains associated with historic properties could be impacted. Therefore, if you are establishing new or altering existing control measures to manage your stormwater that will involve subsurface ground disturbance of less than one (1) acre, you will need to ensure (1) that historic properties will not be impacted by your activities or (2) that you have consulted with the appropriate SHPO, THPO, or other tribal representative regarding measures that would mitigate or prevent any adverse effects on historic properties.

Examples of Control Measures Which Involve Subsurface Disturbance

EPA reviewed typical control measures currently employed to determine which practices involve some level of earth disturbance. The types of control measures that are presumptively expected to cause subsurface ground disturbance include:

- Dikes
- Berms
- Catch Basins
- Ponds
- Ditches
- Trenches
- Culverts
- Land manipulation: contouring, sloping, and grading
- Channels
- Perimeter Drains
- Swales

EPA cautions dischargers that this list is non-inclusive. Other control measures that involve earth disturbing activities that are not on this list must also be examined for the potential to affect historic properties.

Historic Property Screening Process

You should follow the following screening process in order to certify your compliance with historic property eligibility requirements under this permit (see Part 1.1.4.6). The following four steps describe how applicants can meet the permit eligibility criteria for protection of historic properties under this permit:

Step One: *Are you an existing facility that is reapplying for certification under the 2015 MSGP?*

If you are an existing facility you should have already addressed NHPA issues. To gain coverage under the 2008 MSGP you were required to certify that you were either not affecting historic properties or had obtained written agreement from the relevant SHPO or THPO regarding methods of mitigating potential impacts. As long as you are not constructing or installing any new stormwater control measures then you have met eligibility Criterion A of the MSGP. After you submit your NOI, there is a 30-day waiting period during which the SHPO, THPO, or other tribal representative may review your NOI. The SHPO, THPO, or other tribal representative may request that EPA hold up authorization based on concerns about potential adverse impacts to historic properties. EPA will evaluate any such request and notify you if any additional measures to address adverse impacts to historic properties are necessary.

If you are an existing facility and will construct or install stormwater control measures that require subsurface disturbance of less than one (1) acre then you should proceed to Step Three. (Note: Construction activities disturbing one (1) acre or more are not eligible for coverage under this permit.)

If you are a new facility then you should proceed to Step Two.

Step Two: *Are you constructing or installing any stormwater control measures that require subsurface disturbance of less than one (1) acre?*

If, as part of your coverage under this permit, you are not building or installing control measures on your site that cause less than one (1) acre of subsurface disturbance, then your discharge-related activities do not have the potential to have an effect on historic properties. You have no further obligations relating to historic properties. You have met eligibility Criterion A of the MSGP. After you submit your NOI, there is a 30-day waiting period during which the SHPO, THPO, or other tribal representative may review your NOI. The SHPO, THPO, or other tribal representative may request that EPA hold up authorization based on concerns about potential adverse impacts to historic properties. EPA will evaluate any such request and notify you if any additional measures to address adverse impacts to historic properties are necessary.

If the answer to the Step Two question is yes, then you should proceed to Step Three.

Step Three: *Have prior earth disturbances determined that historic properties do not exist, or have prior disturbances precluded the existence of historic properties?*

If previous construction either revealed the absence of historic properties or prior disturbances preclude the existence of historic properties, then you have no further obligations relating to historic properties. You have met eligibility Criterion B of the MSGP. After you submit your NOI, there is a 30-day waiting period during which the SHPO, THPO, or other tribal representative may review your NOI. The SHPO, THPO, or other tribal representative may request that EPA hold up authorization based on concerns about potential adverse impacts to historic properties. EPA will evaluate any such request and notify you if any additional measures to address adverse impacts to historic properties are necessary.

If the answer to the Step Three question is no, then you should proceed to Step Four.

Step Four: *Contact the appropriate historic preservation authorities*

Where you are building and/or installing control measures affecting less than one (1) acre of land to control stormwater or allowable non-stormwater discharges associated with this

permit, and the answer to Step Three is no, then you should contact the relevant SHPO, THPO, or other tribal representative to determine the likelihood that artifacts, records, or remains are potentially present on your site. This may involve examining local records to determine if historic artifacts have been found in nearby areas, as well as limited surface and subsurface examination carried out by qualified professionals.

If through this process it is determined that such historic properties potentially exist and may be impacted by your construction or installation of control measures, you should contact the relevant SHPO, THPO, or tribal representative in writing and request to discuss mitigation or prevention of any adverse effects. The letter should describe your facility, the nature and location of subsurface disturbance activities that are contemplated, any known or suspected historic properties in the area, and any anticipated effects on such properties. The letter should state that if the SHPO, THPO, or tribal representative does not respond within 30 days of receiving your letter, you may submit your NOI without further consultation. EPA encourages applicants to contact the appropriate authorities as soon as possible in the event of a potential adverse effect to an historic property.

If the SHPO, THPO, or tribal representative sent you a response within 30 days of receiving your letter and you enter into, and comply with, a written agreement with the SHPO, THPO, or other tribal representative regarding how to address any adverse impacts on historic properties, you have met eligibility Criterion C. In this case, you should retain a copy of the written agreement consistent with Part 5.1.6.2 of the MSGP. After you submit your NOI, there is a 30-day waiting period during which the SHPO, THPO, or other tribal representative may review your NOI. The SHPO, THPO, or other tribal representative may request that EPA delay authorization based on concerns about potential adverse impacts to historic properties. However, EPA would generally accept any written agreement as fully addressing such concerns unless new information was brought to the Agency's attention that was not considered in your previous discussions with the SHPO, THPO or other tribal representative.

If you receive a response within 30 days after the SHPO, THPO, or tribal representative received your letter and you consult with the SHPO, THPO or tribal representative regarding adverse impacts to historic properties and measures to mitigate them but an agreement cannot be reached between you and the SHPO, THPO, or other tribal representative, you have still met the eligibility for Criterion C. In this case you should include in your SWPPP a brief description of potential effects to historic properties, the consultation process, any measures you will adopt to address the potential adverse impacts, and any significant remaining disagreements between you and the SHPO, THPO or other tribal representative. After you submit your NOI, there is a 30-day waiting period during which the SHPO, THPO, or other tribal representative may review your NOI. The SHPO, THPO, or other tribal representative may request that EPA delay authorization based on concerns about potential adverse impacts to historic properties. EPA will evaluate any such request and notify you if any additional measures to address adverse impacts to historic properties are necessary.

If you have contacted the SHPO, THPO, or tribal representative in writing regarding your potential to have an effect on historic properties and the SHPO, THPO, or tribal representative did not respond within 30 days of receiving your letter, you have met eligibility Criterion D. You are advised to get a receipt from the post office or other carrier confirming the date on which your letter was received. In this case, you should submit a copy of your letter notifying the SHPO, THPO or tribal representative of potential impacts with your NOI. After you submit your NOI, there is a 30-day waiting period during which the SHPO, THPO, or other tribal representative may review your NOI. The SHPO, THPO, or other tribal representative may request that EPA hold up authorization based on concerns about potential adverse impacts to historic properties. EPA will

evaluate any such request and notify you if any additional measures to address adverse impacts to historic properties are necessary.

Addresses for State Historic Preservation Officers and Tribal Historic Preservation Officers may be found on the Advisory Council on Historic Preservation's website (www.achp.gov/programs.html). In instances where a Tribe does not have a Tribal Historic Preservation Officer, you should contact the appropriate Tribal government office when responding to this permit eligibility condition.

Appendix G - Notice of Intent (NOI) Form

Part 7.1 requires you to use the NPDES eReporting Tool, or “NeT”, to prepare and submit your NOI. However, if you are given a waiver by the EPA Regional Office to use a paper NOI form, and you elect to use it, you must complete and submit the following form.



Submission of this Notice of Intent (NOI) constitutes notice that the operator identified in Section C of this form requests authorization to discharge pursuant to the NPDES Stormwater Multi-Sector General Permit (MSGP) permit number identified in Section B of this form. Submission of this NOI also constitutes notice that the operator identified in Section C of this form meets the eligibility conditions of Part 1.1 of the MSGP for the facility identified in Section D of this form. To obtain authorization, you must submit a complete and accurate NOI form. Discharges are not authorized if your NOI is incomplete or inaccurate or if you were never eligible for permit coverage. Refer to the instructions at the end of this form to complete your NOI.

A. Approval to Use Paper NOI Form

1. Have you been granted a waiver from electronic reporting from the EPA Regional Office*? YES NO

If yes, check which waiver you have been granted, the name of the EPA Regional Office staff person who granted the waiver, and the date of approval:

- Waiver granted: The owner/operator's headquarters is physically located in a geographic area (i.e., ZIP code or census tract) that is identified as under-served for broadband Internet access in the most recent report from the Federal Communications Commission.
- The owner/operator has issues regarding available computer access or computer capability.

Name of EPA staff person that granted the waiver: _____

Date approval obtained: ____/____/____

* Note: You are required to obtain approval from the applicable EPA Regional Office prior to using this paper NOI form. If you have not obtained a waiver, you must file this form electronically using the NPDES eReporting Tool (NeT) at <http://water.epa.gov/polwaste/npdes/stormwater/Stormwater-eNOI-System-for-EPAs-MultiSector-General-Permit.cfm>

B. Permit Information

NPDES ID (EPA Use Only): _____

1. Master Permit Number: _____ (see Appendix C of the MSGP for the list of eligible master permit numbers)

2. Are you a new discharger or a new source as defined in Appendix A? YES NO (If yes, skip to Part C of this form).

3. If you are not a new discharger or a new source, have stormwater discharges from your facility been covered previously under an NPDES permit?
 YES NO

If yes, provide the NPDES ID if you had coverage under EPA's 2008 MSGP or the NPDES ID if you had coverage under an EPA individual permit: _____

C. Facility Operator Information

1. Operator Information:

Operator Name: _____

Mailing Address:

Street: _____

City: _____ State: ____ ZIP Code: _____ - _____

County or Similar Government Subdivision: _____

Phone: _____ - _____ - _____ Ext. _____

E-mail: _____

2. Operator Point of Contact Information:

First Name, Middle Initial, Last Name: _____

Title: _____

3. NOI Preparer Information (Complete if NOI was prepared by someone other than the certifier):

First Name, Middle Initial, Last Name: _____

Organization: _____

Phone: _____ - _____ - _____ Ext. _____

E-mail: _____

D. Facility Information

1. Facility Name:

2. Facility Address:
Street/Location:

City: State: ZIP Code: -

County or Similar Government Subdivision:

3. Latitude/Longitude for the facility:
Latitude: _____. ____ ° N (decimal degrees) Longitude: _____. ____ ° W (decimal degrees)
Latitude/Longitude Data Source: Map GPS Other
If you used a USGS topographic map, what was the scale? _____

Horizontal Reference Datum: NAD 27 NAD 83 WGS 84

4. Is your facility located on Indian Country lands? YES NO
If yes, provide the name of the Indian tribe associated with the area of Indian country (including name of Indian reservation, if applicable):

5. Are you requesting coverage under this NOI as a "federal operator" as defined in Appendix A? YES NO

6. What is the ownership type of the facility?
 Corporation District Federal Facility (U.S. Government) State Government Mixed Ownership (e.g. Public/Private) Privately Owned Facility Tribal Government Municipal or Water District Municipality School District County Government

7. Estimated area of industrial activity at your facility exposed to stormwater: _____ (to the nearest quarter acre)

8. Sector-Specific Information
Identify the 4-digit Standard Industrial Classification (SIC) code or 2-letter Activity Code that best represents the products produced or services rendered for which your facility is primarily engaged, as defined in the MSGP, and the applicable sector and subsector of your primary industrial activity (See Appendix D):

Primary SIC Code: OR Primary Activity Code:
Sector: Subsector:

Identify the applicable sector(s) and subsector(s) of any co-located industrial activity for which you are requesting permit coverage:
Sector: Subsector: Sector: Subsector:
Sector: Subsector: Sector: Subsector:

If you are a Sector S (Air Transportation) facility, do you anticipate using more than 100,000 gallons of pure glycol in glycol-based deicing fluids and/or 100 tons or more of urea on an average annual basis? YES NO

If you are a Sector G (Metal Mining) facility, do you have discharges from waste rock and overburden piles? YES NO

Check the type of ore you mine at your facility: Tungsten Ore Nickel Ore Aluminum Ore
 Mercury Ore Iron Ore Platinum Ore Titanium Ore Vanadium Ore Molybdenum Uranium, Radium, and/or Vanadium Ore

9. Is your facility presently inactive and unstaffed?* YES NO
* Note that if your facility becomes inactive and unstaffed during the permit term, you must submit an NOI modification to reflect the change.

E. Discharge Information

1. By indicating "Yes" below, I confirm that I understand that the MSGP only authorizes the allowable stormwater discharges in Part 1.1.2 and the allowable non-stormwater discharges listed in Part 1.1.3. Any discharges not expressly authorized in this permit cannot become authorized or shielded from liability under CWA section 402(k) by disclosure to EPA, state, or local authorities after issuance of this permit via any means, including the Notice of Intent (NOI) to be covered by the permit, the Stormwater Pollution Prevention Plan (SWPPP), during an inspection, etc. If any discharges requiring NPDES permit coverage other than the allowable stormwater and non-stormwater discharges listed in Parts 1.1.2 and 1.1.3 will be discharged, they must be covered under another NPDES permit. YES

2. Federal Effluent Limitation Guidelines
Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines? YES NO

If yes, which effluent limitation guidelines apply to your stormwater discharges?

40 CFR Part/Subpart	Eligible Discharges	Affected MSGP Sector	New Source Date	Check if Applicable
Part 411, Subpart C	Runoff from material storage piles at cement manufacturing facilities	E	2/20/1974	<input type="checkbox"/>
Part 418 Subpart A	Runoff from phosphate fertilizer manufacturing facilities that comes into contact with any raw materials, finished product, by-products or waste products (SIC 2874)	C	4/8/1974	<input type="checkbox"/>
Part 423	Coal pile runoff at steam electric generating facilities	O	11/19/1982 10/8/1974 ¹	<input type="checkbox"/>
Part 429, Subpart I	Discharges resulting from spray down or intentional wetting of logs at wet deck storage areas	A	1/26/1981	<input type="checkbox"/>
Part 436, Subpart B, C, or D	Mine dewatering discharges at crushed stone mines, construction sand and gravel mines, or industrial sand mines	J	N/A	<input type="checkbox"/>
Part 443, Subpart A	Runoff from asphalt emulsion facilities	D	7/28/1975	<input type="checkbox"/>
Part 445, Subparts A & B	Runoff from hazardous waste and non-hazardous waste landfills	K, L	2/2/2000	<input type="checkbox"/>
Part 449	Runoff containing urea from airfield pavement deicing at existing and new primary airports with 1,000 or more annual non-propeller aircraft departures	S	6/15/2012	<input type="checkbox"/>

¹NSPS promulgated in 1974 were not removed via the 1982 regulation; therefore wastewaters generated by Part 423-applicable sources that were New Sources under the 1974 regulations are subject to the 1974 NSPS.

3. Receiving Waters Information: (Attach a separate list if necessary)

List all of the stormwater outfalls from your facility. Each outfall must be identified by a unique 3-digit ID (e.g., 001, 002). Also provide the latitude and longitude in degrees decimal for each outfall.		For each outfall, provide the following receiving water information:		
		Provide the name of the first water of the U.S. that receives stormwater directly from the outfall and/or from the MS4 that the outfall discharges to:	If the receiving water is impaired (on the CWA 303(d) list), list the pollutants that are causing the impairment:	If a TMDL been completed for this receiving waterbody, providing the following information:
Outfall ID				TMDL Name and ID:
Latitude				Pollutant(s) for which there is a TMDL:
Longitude				
Outfall ID				TMDL Name and ID:
Latitude				Pollutant(s) for which there is a TMDL:
Longitude				
If substantially identical to other outfall, list identical outfall ID: _____				

Outfall ID				TMDL Name and ID:
Latitude				Pollutant(s) for which there is a TMDL:
Longitude				

If substantially identical to other outfall, list identical outfall ID: _____

Outfall ID				TMDL Name and ID:
Latitude				Pollutant(s) for which there is a TMDL:
Longitude				

If substantially identical to other outfall, list identical outfall ID: _____

Outfall ID				TMDL Name and ID:
Latitude				Pollutant(s) for which there is a TMDL:
Longitude				

If substantially identical to other outfall, list identical outfall ID: _____

Outfall ID				TMDL Name and ID:
Latitude				Pollutant(s) for which there is a TMDL:
Longitude				

If substantially identical to other outfall, list identical outfall ID: _____

4. Provide the following Information about your outfall latitude longitude:

Latitude/Longitude Data Source: Map GPS Other

If you used a USGS topographic map, what was the scale? _____

Horizontal Reference Datum: NAD 27 NAD 83 WGS 84

5. Does your facility discharge into a Municipal Separate Storm Sewer System (MS4)? YES NO

If yes, provide the name of the MS4 operator: _____

6. Check if you discharge to any of the waters of the U.S. that are designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water) or as a Tier 3 water (Outstanding National Resource Water)? (See Appendix L).

Tier 2/2.5. Provide the name(s) of receiving water(s): _____

Tier 3 (Outstanding National Resource Waters)*

* Note: You are ineligible for coverage if you are a new discharger or new source to waters designated as Tier 3 (outstanding national resource waters) for antidegradation purposes under 40 CFR 131.13(a)(3).

7. If you are subject to benchmark monitoring requirements for a hardness-dependent metal, what is the hardness of your receiving water(s) (see Appendix J)? _____ (mg/L)

8. If you are subject to benchmark monitoring requirements for a hardness-dependent metal, does your facility discharge into any saltwater receiving waters? YES NO

9. Does your facility discharge to a federal CERCLA site listed in Appendix P? YES NO

If yes, did you notify the EPA Regional Office in advance of filing your NOI, and did the EPA Regional Office determine that you are eligible for permit coverage pursuant to Part 1.1.4.10*? YES NO

* Note: If you discharge to a federal CERCLA site listed in Appendix P, you are ineligible for coverage under this permit unless you notify the EPA Regional Office in advance and the EPA Regional Office determines you are eligible coverage under this permit. In determining your eligibility for coverage under this Part, the EPA Regional Office may evaluate whether you have included adequate controls and/or procedures to ensure that your discharges will not lead to recontamination of aquatic media at the CERCLA Site such that it will to cause or contribute to an exceedance of a water quality standard.

F. Stormwater Pollution Prevention Plan (SWPPP) Information

1. Has the SWPPP been prepared in advance of filing this NOI, as required? YES NO

2. SWPPP Contact Information:

First Name, Middle Initial, Last Name: [grid]

Professional Title: [grid]

Phone: [grid] - [grid] - [grid] Ext. [grid]

E-mail: [grid]

3. SWPPP Availability:

Your current SWPPP or certain information from your SWPPP must be made available through one of the following two options. Select one of the options and provide the required information*:

* Note: You are not required to post any confidential business information (CBI) or restricted information (as defined in Appendix A) (such information may be redacted), but you must clearly identify those portions of the SWPPP that are being withheld from public access.

Option 1: Maintain a current copy of your SWPPP on an Internet page (Universal Resource Locator or URL).

Provide the web address URL: _____

Option 2: Provide the following information from your SWPPP:

A. Describe your onsite industrial activities exposed to stormwater (e.g., material storage; equipment fueling, maintenance, and cleaning; cutting steel beams), and potential spill and leak areas:

B. List the pollutant(s) or pollutant constituent(s) associated with each industrial activity exposed to stormwater that could be discharged in stormwater and any authorized non-stormwater discharges listed in Part 1.1.3:

C. Describe the control measures you will employ to comply with the non-numeric technology-based effluent limits required in Part 2.1.2 and Part 8, and any other measures taken to comply with the requirements in Part 2.2 Water Quality-Based Effluent Limitations (see Part 5.2.4):

D. Provide a schedule for good housekeeping and maintenance (see Part 5.2.5.1) and a schedule for all inspections required in Part 4 (see Part 5.2.5.2):

G. Endangered Species Protection

1. Using the instructions in Appendix E of the MSGP, under which endangered species criterion listed in Part 1.1.4.5 are you eligible for coverage under this permit (only check 1 box)?*

- A B C D E

* **Note: After you submit your NOI and before your NOI is authorized, EPA may notify you if any additional controls are necessary to ensure your discharges have no likely adverse affects on listed species and critical habitat.**

2. Provide a brief summary of the basis for the criterion selected in Appendix E (e.g., communication with U.S. Fish and Wildlife Service or National Marine Fisheries Service to determine no species in action area; implementation of controls approved by EPA and the Services):

3. If you select criterion B, provide the NPDES ID from the other operator's NOI authorized under this permit:

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4. If you select criterion C, you must answer the following questions:

a. What federally-listed species or designated critical habitat are located in your "action area":

b. Using the Appendix E worksheet, check which of the following is applicable to your facility and answer any corresponding questions:

I submitted my completed *Criterion C Eligibility Form* to EPA at least 30 days prior to submitting this NOI and agree to implement any additional measures that were determined by EPA to be necessary to ensure that my discharges and/or discharge-related activities will not have likely adverse affects on listed species and critical habitat.

Date your *Criterion C Eligibility Form* was sent to EPA:

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Describe any EPA-approved measures you will implement to ensure no likely adverse affects on listed species and critical habitat:

I submitted my completed *Criterion C Eligibility Form* to EPA at least 30 days prior to submitting this NOI and have not been notified of any additional measures necessary to ensure no likely adverse affects on listed species and critical habitat.

Date your *Criterion C Eligibility Form* was sent to EPA:

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5. If you select criterion D or E, you must attach copies of any letters or other communications with the U.S. Fish and Wildlife Service or National Marine Fisheries Service.

H. Historic Preservation

1. If your facility is not located on Indian country lands, is your facility located on a property of religious or cultural significance to an Indian tribe?

YES NO

If yes, provide the name of the Indian tribe associated with the property: _____

2. Using the instructions in Appendix F of the MSGP, under which historic properties preservation criterion listed in Part 1.1.4.6 are you eligible for coverage under this permit (only check 1 box)?

A B C D

I. Certification Information

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 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.

First Name, Middle Initial, Last Name:

Title:

Signature: _____

Date: / /

E-mail:

**Notice of Intent (NOI) for Stormwater Discharges
Associated with Industrial Activity Under the NPDES Multi-Sector General Permit**

NPDES Form Date (06/15) This Form Replaces From 3510-6 (09/08) Form Approved OMB No. 2040-0004

Who Must File an NOI Form

Under section 402(p) of the Clean Water Act (CWA) and regulations at 40 CFR Part 122, stormwater discharges associated with industrial activity are prohibited to waters of the United States unless authorized under a National Pollutant Discharge Elimination System (NPDES) permit. You can obtain coverage under the MSGP by submitting a completed Notice of Intent (NOI) if you are an operator a facility:

- that is located in a jurisdiction where EPA is the permitting authority, listed in Appendix C of the MSGP,
- that discharges stormwater associated with industrial activities, identified in Appendix D of the MSGP,
- that meets the eligibility requirements in Part 1.1 of the permit,
- that has developed a stormwater pollution prevention plan (SWPPP) in accordance with Part 5 of the MSGP; and
- that installs and implements control measures in accordance with Part 2 and Part 8 to meet numeric and non-numeric effluent limits.

Completing the Form

Obtain and read a copy of the 2015 MSGP, viewable at <http://water.epa.gov/polwaste/npdes/stormwater/EPA-Multi-Sector-General-Permit-MSGP.cfm>. To complete this form, type or print, using uppercase letters, in the appropriate areas only. Please place each character between the marks. Abbreviate if necessary to stay within the number of characters allowed for each item. Use only one space for breaks between words, but not for punctuation marks unless they are needed to clarify your response. **Please submit original document with signature in ink - do not send a photocopied signature.**

Section A. Approval to Use Paper NOI Form

You must indicate whether you have been granted a waiver from electronic reporting from the EPA Regional Office. Note that you are not authorized to use this paper NOI form unless the EPA Regional Office has approved its use. Where you have obtained approval to use this form, indicate the waiver that you have been granted, the name of the EPA staff person who granted the waiver, and the date that approval was provided.

See <http://water.epa.gov/polwaste/npdes/stormwater/Stormwater-Contacts.cfm> for a list of EPA Regional Office contacts.

Section B. Permit Information

Provide the master permit number of the permit under which you are applying for coverage (see Appendix C of the general permit for the list of eligible master permit numbers).

You must indicate whether you are a new discharger or a new source (see Appendix A for the definitions). If you are not a new discharger or a new source, you must indicate whether stormwater discharges from your facility have been previously covered under another NPDES permit. If yes, you must provide the unique NPDES ID (i.e., permit tracking number) for the previous permit your facility was covered under.

Section C. Facility Operator Information

Provide the legal name of the person, firm, public organization, or any other entity that operates the facility described in this NOI. An operator of a facility is the legal entity that controls the operation of the facility. Refer to Appendix A of the permit for the definition of "operator". Provide the operator's mailing address, phone number,

and e-mail. Correspondence for the NOI will be sent to this address. Also provide the name and title for the operator point of contact (note that the point of contact name may be the same as the operator name).

If the NOI was prepared by someone other than the certifier (for example, if the NOI was prepared by the facility SWPPP contact or a consultant for the certifier's signature), include the full name, organization, phone number, and email address of the NOI preparer.

Section D. Facility Information

Enter the official or legal name and complete address, including city, state, ZIP code, and county or similar government subdivision of the facility. If the facility lacks a street address, indicate the general location of the facility (e.g., Intersection of State Highways 61 and 34). Complete facility information must be provided for permit coverage to be granted.

Provide the latitude and longitude of your facility in decimal degrees format. The latitude and longitude of your facility can be determined in several different ways, including through the use of global positioning system (GPS) receivers, U.S. Geological Survey (U.S.G.S.) topographic or quadrangle maps. Refer to <http://transition.fcc.gov/mb/audio/bickel/DDDMSS-decimal.html/> for assistance in providing the proper latitude/longitude format. For consistency, EPA requests that measurements be taken from the approximate center of the facility. Specify which method you used to determine latitude and longitude. If a U.S.G.S. topographic map is used, specify the scale of the map used. Enter the horizontal reference datum for your latitude and longitude. The horizontal reference datum used on USGS topographic maps is shown on the bottom left corner of USGS topographic maps; it is also available for GPS receivers.

Indicate whether the facility is on Indian country lands, and if so, provide the name of the Indian tribe associated with the area of Indian country (including name of Indian reservation, if applicable).

Indicate whether you are seeking coverage under this permit as a "federal operator" as defined in Appendix A. Also check the ownership type for the facility (e.g., Federal Facility, Privately Owned Facility, Municipality, County Government, Corporation, State Government, Tribal Government, School District, District, Mixed Ownership [e.g., public/private], Municipal or Water District).

Enter the estimated area of industrial activity at your facility exposed to stormwater to the nearest quarter acre.

List the four-digit Standard Industrial Classification (SIC) code or two character activity code that best describes the primary industrial activities performed by your facility under which you are required to obtain permit coverage. Your primary industrial activity includes any activities performed on-site which are (1) identified by the facility's primary SIC code and included in the descriptions of 40 CFR 122.26(b)(14)(ii), (iii), (vi), or (viii); or (2) included in the narrative descriptions of 40 CFR 122.26(b)(14)(i), (iv), (v), (vii), or (ix). See Appendix D of the MSGP for a complete list of SIC codes and activities codes covered under the MSGP. Also provide the applicable sector and subsector associated with the SIC code or activity code for your primary industrial activities. For a complete list of sector and subsector codes, see Appendix D of the MSGP.

If your facility has co-located industrial activities that are not identified as your primary industrial activity, identify the sector and subsector codes that describe these other industrial activities.

**Notice of Intent (NOI) for Stormwater Discharges
Associated with Industrial Activity Under the NPDES Multi-Sector General Permit**

NPDES Form Date (06/15) This Form Replaces From 3510-6 (09/08) Form Approved OMB No. 2040-0004

For Sector S facilities (Air Transportation), indicate whether you anticipate that the entire airport facility will use more than 100,000 gallons of pure glycol in glycol-based deicing fluids and/or 100 tons or more of urea on an average annual basis. If so, additional effluent limits and monitoring conditions apply to your discharge (see Part 8.5 of the permit).

For Sector G facilities (Metal Mining), check the type of ore(s) mined at the facility.

Indicate whether your facility is currently inactive and unstaffed. Note that if your facility becomes inactive and unstaffed during the permit term, you must submit an NOI modification to reflect the change.

Section E. Discharge Information

You must confirm that you understand that the MSGP only authorizes the allowable stormwater discharges listed in Part 1.1.2 and the allowable non-stormwater discharges listed in Part 1.1.3. Any discharges not expressly authorized under the MSGP are not covered by the MSGP or the permit shield provision of the CWA Section 402(k) and they cannot become authorized or shielded by disclosure to EPA, state, or local authorities via the NOI to be covered by the permit or by any other means (e.g., in the SWPPP or during an inspection). If any discharges requiring NPDES permit coverage other than the allowable stormwater and non-stormwater discharges listed in Parts 1.1.2 and 1.1.3 will be discharged, they must either be eliminated or covered under another NPDES permit.

Depending on your industrial activities, your facility may be subject to federal effluent limitation guidelines which include additional effluent limits and monitoring requirements for your facility. Please review these requirements, described in Part 2.1.3 of the MSGP, and check any appropriate boxes on the NOI form.

You must identify all the outfalls from your facility that discharge stormwater. Each outfall must be assigned a unique 3-digit ID (e.g., 001, 002, 003). You must also provide the latitude and longitude for each outfall from your facility. Indicate whether any outfalls are substantially identical to an outfall already listed, and identify the outfall it is identical to. For each unique outfall you list, you must specify the name of the first water of the U.S. that receives stormwater directly from the outfall and/or from the MS4 that the outfall discharges to. You must specify whether any receiving waters that you discharge to are listed as "impaired" as defined in Appendix A, and the pollutants for which the water is impaired. You must also check identify any Total Maximum Daily Loads (TMDL) that have been completed for any of the waters of the U.S. that you discharge to. You must also provide information about the outfall latitude/longitude, including data source, the scale (if applicable), and the horizontal reference datum. See the instructions in Section D for more information about determining the latitude and longitude.

Identify whether your facility discharges into a Municipal Separate Storm Sewer System (MS4). If yes, provide the name of the MS4 operator. If you are uncertain of the MS4 operator, contact your local government for that information.

Indicate whether discharges from the facility will enter into a water of the U.S that is designated as a Tier 2, Tier 2.5, or Tier 3 water. A list of Tier 2, 2.5, and 3 waters is provided as Appendix L. If the answer is "yes", name all waters designated as Tier 2, Tier 2.5, or Tier 3 to which the facility will discharge. Note that you are ineligible for coverage if you are a new discharger or a new source to waters designated as Tier 3 (outstanding national resource waters) for antidegradation purposes under 40 CFR 131.13(a)(3).

If you are subject to any benchmark monitoring requirements for metals (see the requirements applicable to your Sector(s) in Part 8 of the permit), indicate the hardness for your receiving water(s). See Appendix J of the permit for information about determining waterbody hardness.

If you are subject to benchmark monitoring requirements for hardness-dependent metals you must also answer whether your facility discharges into any saltwater receiving waters.

Indicate whether your facility will discharge to a federal CERCLA site listed in Appendix P. Note that if your facility will discharge into a federal CERCLA site listed in Appendix P, you are not eligible for coverage under this permit unless you notify the EPA Regional Office in advance and the EPA Regional Office authorizes coverage under this permit after you have included adequate controls and/or procedures designed to ensure that discharges will not lead to recontamination of aquatic media at the CERCLA site such that your discharge will cause or contribute to an exceedance of a water quality standard.

Section F. Stormwater Pollution Prevention Plan (SWPPP) Information

All facilities eligible for coverage under this permit are required to prepare a SWPPP in advance of filing the NOI, in accordance with Part 5. Indicate whether the SWPPP has been prepared in advance of filing the NOI.

Indicate the contact information (name, phone, and email) for the person who developed the SWPPP for this facility.

You identify how your SWPPP information will be made available, consistent with Part 5.4 and 7.3 of the permit. If you are making your SWPPP publicly available on a web site, check Option 1 and provide the appropriate Internet URL address. If you are not providing a URL, check Option 2 and provide the selected SWPPP information on this NOI form. You may copy and paste this information directly from your SWPPP.

Section G. Endangered Species Protection

Using the instructions in Appendix E, indicate the Part 1.1.4.5 criterion (i.e., A, B, C, D, or E) you are eligible under with regard to the protection of federally listed endangered and threatened species and designated critical habitat. A description of the basis for the criterion selected must also be provided.

If criterion B is selected, provide the NPDES ID (i.e., permit tracking number) for the other operator who has certified their eligibility under this permit. The NPDES ID was assigned when the operator received coverage under this permit.

If criterion C is selected, you must specify the federally-listed species or designated critical habitat that are located in the "action area" of the facility. You must also indicate under which scenario you determined you were eligible to submit your NOI under criterion C using Appendix E, and answer any corresponding questions.

If criterion D or E is selected, attach copies of any communications between you and the U.S. Fish and Wildlife Service and National Marine Fisheries Service to this NOI.

Section H. Historic Preservation

If the project is not located in Indian country lands, indicate whether the project is located on a property of religious or cultural significance to an Indian tribe, and if so, provide the name of the Indian tribe associated with the property. Use the instructions in Appendix F to complete the questions on the NOI form regarding historic preservation.

**Notice of Intent (NOI) for Stormwater Discharges
Associated with Industrial Activity Under the NPDES Multi-Sector General Permit**

NPDES Form Date (06/15)

This Form Replaces From 3510-6 (09/08)

Form Approved OMB No. 2040-0004

Section H. Certification

Certification statement and signature (see Section B.11 of Appendix B of the MSGP for more information). Enter certifier's printed name, title and email address. Sign and date the form. (CAUTION: An unsigned or undated NOI form will prevent the granting of permit coverage.) Federal statutes provide for severe penalties for submitting false information on this application form. Federal regulations require this application to be signed as follows:

For a corporation: by a responsible corporate officer, which means: (i) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long-term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

For a partnership or sole proprietorship: By a general partner or the proprietor, respectively; or

For a municipality, state, federal, or other public agency: By either a principal executive officer or ranking elected official. For purposes of this Part, a principal executive officer of a federal agency includes (i) the chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrator of EPA). Include the name and title of the person signing the form and the date of signing.

An unsigned or undated NOI form will not be considered eligible for permit coverage.

Modifying Your NOI

If you have been granted a waiver from your Regional Office from electronic reporting, and if after submitting your NOI you need to correct or update any fields on this NOI form, you may do so by indicating changes on this same form.

Paperwork Reduction Act Notice

Public reporting burden for this NOI is estimated to average 3.7 hours, plus an additional 2 hours for certain respondents required to gather hardness data. This estimate includes time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. Send comments regarding the burden estimate, any other aspect of the collection of information, or suggestions for improving this form, including any suggestions which may increase or reduce this burden to: Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number on any correspondence. Do not send the completed form to this address.

Submitting Your Form

If you have been granted a waiver from your Regional Office to submit a paper NOI form, you must send your NOI by mail to one of the following addresses:

For Regular U.S. Mail Delivery:

Stormwater Notice Processing Center
Mail Code 4203M, ATTN: 2015 MSGP Reports
U.S. EPA
1200 Pennsylvania Avenue, NW
Washington, DC 20460

For Overnight/Express Mail Delivery:

Stormwater Notice Processing Center
William Jefferson Clinton East Building - Room 7420
ATTN: 2015 MSGP Reports
U.S. EPA
1201 Constitution Avenue, NW
Washington, DC 20004

Visit this website for instructions on how to submit electronically:
<http://water.epa.gov/polwaste/npdes/stormwater/Stormwater-eNOI-System-for-EPAs-MultiSector-General-Permit.cfm>

Appendix H - Notice of Termination (NOT) Form

Part 7.1 requires you to use the NPDES eReporting Tool, or “NeT”, to prepare and submit your Notice of Termination (NOT). However, if you are given a waiver by the EPA Regional Office to use a paper NOT form, and you elect to use it, you must complete and submit the following form.

Submission of this Notice of Termination constitutes notice that the operator identified in Section C of this form is no longer authorized to discharge pursuant to the NPDES Multi-Sector General Permit (MSGP) from the facility identified in Section D of this form. All necessary information must be included on this form. Refer to the instructions at the end of this form.

A. Approval to use Paper NOT Form

1. Have you been granted a waiver from electronic reporting from the Regional Office*? YES NO

If yes, check which waiver you have been granted, the name of the EPA Regional Office staff person who granted the waiver, and the date of approval:

Waiver granted: The owner/operator's headquarters is physically located in a geographic area (i.e., ZIP code or census tract) that is identified as under-served for broadband Internet access in the most recent report from the Federal Communications Commission.

The owner/operator has issues regarding available computer access or computer capability.

Name of EPA staff person that granted the waiver:

Date approval obtained:

* Note: You are required to obtain approval from the applicable Regional Office prior to using this paper NOT form. If you have not obtained a waiver, you must file this form electronically using the NPDES eReporting Tool (NeT) at <http://water.epa.gov/polwaste/npdes/stormwater/Stormwater-eNOI-System-for-EPAs-MultiSector-General-Permit.cfm>

B. Permit Information

1. NPDES ID:

2. Reason for Termination (check one only):

A new owner or operator has taken over responsibility for the facility.

You have ceased operations at the facility, there are not or no longer will be discharges of stormwater associated with industrial activity from the facility, and you have already implemented necessary sediment and erosion controls as required by Part 2.1.2.5.

You are a Sector G, H, or J facility and you have met the applicable termination requirements.

You obtained coverage under an individual or alternative general permit for all discharges required to be covered by an NPDES permit.

C. Facility Operator Information

1. Operator Name:

2. Mailing Address:

Street:

City: State: ZIP Code: -

3. Phone: - - Ext.

4. E-mail:

D. Facility Information

1. Facility Name:

2. Facility Address:

Street:

City: State: ZIP Code: -

County or similar government subdivision:

E. Certification Information

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 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.

First Name, Middle Initial, Last Name:

Title:

Signature: _____

Date: / /

E-mail:

**Notice of Termination for Stormwater Discharges
Associated with Industrial Activity Under the NPDES Multi-Sector General Permit**

NPDES Form Date (06/15) This Form Replaces Form 3510-7 (09/08) Form Approved OMB No. 2040-0004

Who May File Notice of Termination (NOT) Form

Permittees currently covered by EPA's NPDES Stormwater Multi-Sector General must submit a Notice of Termination (NOT) within 30 days after one or more of the following conditions have been met:

- A new owner or operator has assumed responsibility for the facility;
- You have ceased operations at the facility and there are not or no longer will be discharges of stormwater associated with industrial activity from the facility and you have already implemented necessary sediment and erosion controls per Part 2.1.2.5;
- You are a Sector G, H, or J facility and you have met the applicable termination requirements; or
- You obtained coverage under an individual or alternative general permit for all discharges required to be covered by an NPDES permit.

See the MSGP Part 1.3.3 for more information.

Completing the Form

To complete this form, type or print, using uppercase letters, in the appropriate areas only. Please place each character between the marks. Abbreviate if necessary to stay within the number of characters allowed for each item. Use only one space for breaks between words, but not for punctuation marks unless they are needed to clarify your response. Please submit original document with signature in ink - do not send a photocopied signature.

Section A. Approval to Use Paper NOT Form

You must indicate whether you have been granted a waiver from electronic reporting from the EPA Regional Office. Note that you are not authorized to use this paper NOT form unless the EPA Regional Office has approved its use. Where you have obtained approval to use this form, indicate the waiver that you have been granted, the name of the EPA Regional Office staff person who granted the waiver, and the date that approval was provided. See

<http://water.epa.gov/polwaste/npdes/stormwater/Stormwater-Contacts.cfm> for a list of EPA Regional Office contacts.

Section B. Permit Information

Enter the existing NPDES ID (i.e., NOI tracking number) assigned to your permit authorization.

Indicate your reason for submitting this Notice of Termination by checking the appropriate box. Check only one box (see MSGP Part 1.3.3 for more information).

Section C. Facility Operator Information

Provide the legal name of the person, firm, public organization, or any other entity that operates the facility described in this NOT. An operator of a facility is the legal entity that controls the operation of the facility. Refer to Appendix A of the permit for the definition of "operator". Provide the operator's mailing address, phone number, and e-mail.

Section D. Facility Information

Enter the official or legal name and complete street address, including city, state, ZIP code, and county or similar government subdivision of the facility. If the facility lacks a street address, indicate the general location of the facility (e.g., Intersection of State Highways 61 and 34). Complete facility information must be provided for termination of permit coverage to be valid.

Section E. Certification Information

All NOTs must be signed as follows:

For a corporation: By a responsible corporate officer. For the purpose of this Section, a responsible corporate officer means: (i) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long-term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

For a partnership or sole proprietorship: By a general partner or the proprietor, respectively; or

For a municipality, state, federal, or other public agency: By either a principal executive officer or ranking elected official. For purposes of this Part, a principal executive officer of a federal agency includes (i) the chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrator of EPA). Include the name and title of the person signing the form and the date of signing.

Include the name, title, and email address of the person signing the form and the date of signing. An unsigned or undated NOT form will not be considered valid termination of permit coverage.

Paperwork Reduction Act Notice

Public reporting burden for this Notice of Termination is estimated to average 0.5 hours, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate, any other aspect of the collection of information, or suggestions for improving this form, including any suggestions which may increase or reduce this burden to: Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number of this form on any correspondence. Do not send the completed NOT form to this address.

Instructions for Completing EPA Form 3510-7

**Notice of Termination for Stormwater Discharges
Associated with Industrial Activity Under the NPDES Multi-Sector General Permit**

NPDES Form Date (06/15)

This Form Replaces Form 3510-7 (09/08)

Form Approved OMB No. 2040-0004

Submitting Your Form

If you have been granted a waiver from your Regional Office to submit a paper NOT form, you must send your NOT by mail to one of the following addresses:

For Regular U.S. Mail Delivery:

Stormwater Notice Processing Center
Mail Code 4203M, ATTN: 2015 MSGP Reports
U.S. EPA
1200 Pennsylvania Avenue, NW
Washington, DC 20460

For Overnight/Express Mail Delivery:

Stormwater Notice Processing Center
William Jefferson Clinton East Building - Room 7420
ATTN: 2015 MSGP Reports
U.S. EPA
1201 Constitution Avenue, NW
Washington, DC 20004

Visit this website for instructions on how to submit electronically:
<http://water.epa.gov/polwaste/npdes/stormwater/Stormwater-eNOI-System-for-EPAs-MultiSector-General-Permit.cfm>

Appendix I - Annual Report Form

Part 7.1 requires you to use the NPDES eReporting Tool, or “NeT”, to prepare and submit your Annual Report. However, if you are given a waiver by the EPA Regional Office to use a paper annual report form, and you elect to use it, you must complete and submit the following form.



A. Approval to Use Paper Annual Report Form

1. Have you been granted a waiver from electronic reporting from the EPA Regional Office*? YES NO

If yes, check which waiver you have been granted, the name of the EPA Regional Office staff person who granted the waiver, and the date of approval:

- Waiver granted: The owner/operator's headquarters is physically located in a geographic area (i.e., ZIP code or census tract) that is identified as under-served for broadband Internet access in the most recent report from the Federal Communications Commission.
- The owner/operator has issues regarding available computer access or computer capability.

Name of EPA staff person that granted the waiver:

Date approval obtained: / /

* Note: You are required to obtain approval from the applicable EPA Regional Office prior to using this paper annual report form. If you have not obtained a waiver, you must file this form electronically using the NPDES eReporting Tool (NeT) at <http://water.epa.gov/polwaste/npdes/stormwater/Stormwater-eNOI-System-for-EPA's-MultiSector-General-Permit.cfm>

B. Permit Information

1. NPDES ID:

C. Facility Information

1. Facility Name:

2. Facility Phone: - - Ext.

3. Facility Mailing Address:

Street:

City: State: ZIP Code: -

County or Similar Government Subdivision:

4. Point of Contact:

First Name, Middle Initial, Last Name:

D. General Findings

1. Provide a summary of your past year's routine facility inspection documentation (see Part 3.1.2 of the permit). In addition, if you are an operator of an airport facility (Sector S) that is subject to the airport effluent limitations guidelines, and are complying with the MSGP Part 8.S.8.1 effluent limitation through the use of non-urea-containing deicers, provide a statement certifying that you do not use pavement deicers containing urea (e.g., "Urea was not used at [name of airport] for pavement deicing in the past year and will also not be used in 2015." (Note: Operators of airport facilities that are complying with Part 8.S.8.1 by meeting the numeric effluent limitation for ammonia do not need to include this statement.)

2. Provide a summary of your past year's quarterly visual assessment documentation (see Part 3.2.2 of the permit).

3. For any four-sample (minimum) average benchmark monitoring exceedance, if after reviewing the selection, design, installation, and implementation of your control measures and considering whether any modifications are necessary to meet the effluent limits in the permit, you determine that no further pollutant reductions are technologically available and economically practicable and achievable in light of best industry practice, provide your rationale for why you believe no further reductions are achievable (see Part 6.2.1.2 of the permit). Enter "NA" if not applicable.

4. Provide a summary of your past year's corrective action documentation (See Part 4.4 of the permit). (Note: If corrective action is not yet completed at the time of submission of this annual report, you must describe the status of any outstanding corrective action(s).) Also describe any incidents of noncompliance in the past year or currently ongoing, or if none, provide a statement that you are in compliance with the permit.

E. Certification Information

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 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.

First Name, Middle Initial, Last Name:

Title:

Signature: _____ Date: / /

E-mail:

**Annual Report for Stormwater Discharges
Associated with Industrial Activity Under an NPDES General Permit**

Who Must File an Annual Report

Operators must submit an Annual Report to EPA electronically, per Part 7.5, by January 30th for each year of permit coverage containing information generated from the past calendar year.

Completing the Form

To complete this form, type or print, using uppercase letters, in the appropriate areas only. Please place each character between the marks. Abbreviate if necessary to stay within the number of characters allowed for each item. Use only one space for breaks between words, but not for punctuation marks unless they are needed to clarify your response. Please submit original document with signature in ink - do not send a photocopied signature.

Section A. Approval to Use Paper Annual Report Form

You must indicate whether you have been granted a waiver from electronic reporting from the EPA Regional Office. Note that you are not authorized to use this paper form unless the EPA Regional Office has approved its use. Where you have obtained approval to use this form, indicate the waiver that you have been granted, the name of the EPA staff person who granted the waiver, and the date that approval was provided. See <http://water.epa.gov/polwaste/npdes/stormwater/Stormwater-Contacts.cfm> for a list of EPA Regional Office contacts.

Section B. Permit Information

Provide the NPDES ID (i.e., NOI tracking number) assigned to your facility.

Section C. Facility Information

Enter the official or legal name, phone number, and complete street address, including city, state, ZIP code, and county or similar government subdivision, for the facility that is covered by the NPDES ID identified in Section B. If the facility lacks a street address, indicate the general location of the facility (e.g., Intersection of State Highways 61 and 34). Also provide a point of contact name for the facility.

Section D. General Findings

To complete this section you must provide the following information in your annual report:

1. A summary of your past year's routine facility inspection documentation required by Part 3.1.2 of the permit.
2. A summary of your past year's quarterly visual assessment documentation required by Part 3.2.2 of the permit.
3. If, after finding the average of your four monitoring values for any pollutant exceeds the benchmark, you decide no further pollutant reductions are technologically available and economically practicable and achievable in light of best industry practice, your rationale for why you believe no further reductions are achievable.
4. Information copied or summarized from the corrective action documentation required per Part 4.4 (if applicable). If corrective action is not yet completed at the time of submission of this Annual Report, you must describe the status of any outstanding corrective action(s). You must also describe any incidents of noncompliance in the past year or currently ongoing, or if none, provide a statement that you are in compliance with the permit.

Section E. Certification Information

The Annual Report must be signed by a person described below, or by a duly authorized representative of that person.

For a corporation: By a responsible corporate officer. For the purpose of this Section, a responsible corporate officer means:

(i) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long-term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

For a partnership or sole proprietorship: By a general partner or the proprietor, respectively; or

For a municipality, state, federal, or other public agency: By either a principal executive officer or ranking elected official. For purposes of this Part, a principal executive officer of a federal agency includes (i) the chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrator of EPA). Include the name and title of the person signing the form and the date of signing.

A person is a duly authorized representative only if:

1. The authorization is made in writing by a person described above;
2. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.) and
3. The written authorization is submitted to the Director.

An unsigned or undated Annual Report form be considered incomplete.

Paperwork Reduction Act Notice

Public reporting burden for this form is estimated to average 2.5 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. Send comments regarding the burden estimate, any other aspect of the collection of information, or suggestions for improving this form, including any suggestions which may increase or reduce this burden to: Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number of this form on any correspondence. Do not send the completed Annual Report form to this address.

Instructions for Completing the Annual Report Form

**Annual Report for Stormwater Discharges
Associated with Industrial Activity Under an NPDES General Permit**

Submitting Your Form

If you have been granted a waiver from your Regional Office to submit a paper Annual Report form, you must send your Annual Report form by mail to one of the following addresses:

For Regular U.S. Mail Delivery:

Stormwater Notice Processing Center
Mail Code 4203M, ATTN: 2015 MSGP Reports
U.S. EPA
1200 Pennsylvania Avenue, NW
Washington, DC 20460

For Overnight/Express Mail Delivery:

Stormwater Notice Processing Center
William Jefferson Clinton East Building - Room 7420
ATTN: 2015 MSGP Reports
U.S. EPA
1201 Constitution Avenue, NW
Washington, DC 20004

Visit this website for instructions on how to submit electronically:
<http://water.epa.gov/polwaste/npdes/stormwater/Stormwater-eNOI-System-for-EPAs-MultiSector-General-Permit.cfm>

Appendix J - Calculating Hardness in Freshwater Receiving Waters for Hardness Dependent Metals

Overview

For any sectors required to conduct benchmark samples for a hardness-dependent metal, EPA includes 'hardness ranges' from which benchmark values are determined. To determine which hardness range to use, you must collect data on the hardness of your receiving water(s). Once the site-specific hardness data have been collected, the corresponding benchmark value for each metal is determined by comparing where the hardness data fall within hardness ranges, as shown in Table 1. You only need to determine hardness for your discharges into freshwater as the benchmark values for metals do not vary for discharges to saline waters.

Table 1. Hardness Ranges to Be Used to Determine Benchmark Values for Cadmium, Copper, Lead, Nickel, Silver, and Zinc.

All Units mg/L	Benchmark Values (mg/L, total)					
	Cadmium	Copper	Lead	Nickel	Silver	Zinc
0-24.99 mg/L	0.0005	0.0038	0.014	0.15	0.0007	0.04
25-49.99 mg/L	0.0008	0.0056	0.023	0.20	0.0007	0.05
50-74.99 mg/L	0.0013	0.0090	0.045	0.32	0.0017	0.08
75-99.99 mg/L	0.0018	0.0123	0.069	0.42	0.0030	0.11
100-124.99 mg/L	0.0023	0.0156	0.095	0.52	0.0046	0.13
125-149.99 mg/L	0.0029	0.0189	0.122	0.61	0.0065	0.16
150-174.99 mg/L	0.0034	0.0221	0.151	0.71	0.0087	0.18
175-199.99 mg/L	0.0039	0.0253	0.182	0.80	0.0112	0.20
200-224.99 mg/L	0.0045	0.0285	0.213	0.89	0.0138	0.23
225-249.99 mg/L	0.0050	0.0316	0.246	0.98	0.0168	0.25
250+ mg/L	0.0053	0.0332	0.262	1.02	0.0183	0.26

How to Determine Hardness for Hardness-Dependent Parameters in Freshwater.

You may select one of three methods to determine hardness, including: individual grab sampling, grab sampling by a group of operators which discharge to the same receiving water, or using third-party data. Regardless of the method used, you are responsible for documenting the procedures used for determining hardness values. The hardness value is required to be submitted to EPA with your Notice of Intent (NOI) so that your electronic Discharge Monitoring Report (DMR) which you will submit through NetDMR will include the appropriate limits. You must retain all report and monitoring data in accordance with Part 7.5 of the permit. The three method options for determining hardness are detailed in the following sections.

(1) Permittee Samples for Receiving Stream Hardness

This method involves collecting samples in the receiving water and submitting these to a laboratory for analysis. If you elect to sample your receiving water(s) and submit samples for analysis, hardness must be determined from the closest intermittent or perennial stream downstream of your point of discharge. The sample can be collected during either dry or wet weather. Collection of the sample during wet weather is more representative of conditions

during stormwater discharges; however, collection of in-stream samples during wet weather events may be impracticable or present safety issues.

Hardness must be sampled and analyzed using approved methods as described in 40 CFR Part 136 (Guidelines Establishing Test Procedures for the Analysis of Pollutants).

(2) Group Monitoring for Receiving Stream Hardness

You can be part of a group of permittees discharging to the same receiving waters and collect samples that are representative of the hardness values for all members of the group. In this scenario, hardness of the receiving water must be determined using 40 CFR Part 136 procedures and the results shared by group members. To use the same results, hardness measurements must be taken on a stream reach within a reasonable distance of the discharge points of each of the group members.

(3) Collection of Third-Party Hardness Data

You can submit receiving stream hardness data collected by a third party provided the results are collected consistent with the approved 40 CFR Part 136 methods. These data may come from a local water utility, previously conducted stream reports, TMDLs, peer reviewed literature, other government publications, or data previously collected by the permittee. Data should be less than 10 years old.

Water quality data for many of the nation's surface waters are available on-line or by contacting EPA or a state environmental agency. EPA's data system STORET, short for STORage and RETrieval, is a repository for receiving water quality, biological, and physical data and is used by state environmental agencies, EPA and other federal agencies, universities, private citizens, and many others. Similarly, state environmental agencies and the U.S. Geological Service (USGS) also have water quality data available that, in some instances, can be accessed online. "Legacy STORET" codes for hardness include: 259 hardness, carbonate; 260 hardness, noncarbonated; and 261 calcium + magnesium, while more recent, "Modern STORET" data codes include: 00900 hardness, 00901 carbonate hardness, and 00902 noncarbonate hardness; or the discrete measurements of calcium (00915) and magnesium (00925) can be used to calculate hardness. Hardness data historically has been reported as "carbonate," "noncarbonate," or "Ca + Mg." If these are unavailable, then individual results for calcium (Ca) and magnesium (Mg) may be used to calculate hardness using the following equation:

$$\text{mg/L CaCO}_3 = 2.497 (\text{Ca mg/L}) + 4.118 (\text{Mg mg/L})$$

When interpreting the data for carbonate and non-carbonate hardness, note that total hardness is equivalent to the sum of carbonate and noncarbonate hardness if both forms are reported. If only carbonate hardness is reported, it is more than likely that noncarbonate hardness is absent and the total hardness is equivalent to the available carbonate hardness.

Appendix K - No Exposure Certification Form

Part 7.1 requires you to use the NPDES eReporting Tool, or "NeT", to prepare and submit your No Exposure Certification (NOE) form. However, if you are given a waiver by the EPA Regional Office to use a paper NOE form, and you elect to use it, you must complete and submit the following form.

Submission of this No Exposure Certification constitutes notice that the operator identified in Section C does not require permit authorization under EPA's Stormwater Multi Sector General Permit for its stormwater discharges associated with industrial activity from the facility identified in Section D of this form due to the existence of a condition of no exposure.

A condition of no exposure exists at an industrial facility when all industrial materials and activities are protected by a storm resistant shelter to prevent exposure to rain, snow, snowmelt, and/or runoff. Industrial materials or activities include, but are not limited to, material handling equipment or activities, industrial machinery, raw materials, intermediate products, by-products, final products, or waste products. Material handling activities include the storage, loading and unloading, transportation, or conveyance of any raw material, intermediate product, final product or waste product. A storm resistant shelter is not required for the following industrial materials and activities:

- drums, barrels, tanks, and similar containers that are tightly sealed, provided those containers are not deteriorated and do not leak. "Sealed" means banded or otherwise secured and without operational taps or valves;
- adequately maintained vehicles used in material handling; and
- final products, other than products that would be mobilized in stormwater discharges (e.g., rock salt).

A No Exposure Certification must be provided for each facility qualifying for the no exposure exclusion. In addition, the exclusion from NPDES permitting is available on a facility-wide basis only, not for individual outfalls. If any industrial activities or materials are or will be exposed to precipitation, the facility is not eligible for the no exposure exclusion.

By signing and submitting this No Exposure Certification form, the operator in Section C is certifying that a condition of no exposure exists at its facility or site, and is obligated to comply with the terms and conditions of 40 CFR 122.26(g).

A. Approval to Use Paper NOE Form

1. Have you been granted a waiver from electronic reporting from the EPA Regional Office*? YES NO

If yes, check which waiver you have been granted, the name of the EPA Regional Office staff person who granted the waiver, and the date of approval:

- Waiver granted: The owner/operator's headquarters is physically located in a geographic area (i.e., ZIP code or census tract) that is identified as under-served for broadband Internet access in the most recent report from the Federal Communications Commission.
- The owner/operator has issues regarding available computer access or computer capability.

Name of EPA staff person that granted the waiver:

Date approval obtained: / /

* Note: You are required to obtain approval from the applicable EPA Regional Office prior to using this paper NOE form. If you have not obtained a waiver, you must file this form electronically using the NPDES eReporting Tool (NeT) at <http://water.epa.gov/polwaste/npdes/stormwater/Stormwater-eNOI-System-for-EPAs-MultiSector-General-Permit.cfm>

B. Reason for Submission

Select the purpose for filling out this form (check only 1).

- To obtain a new No Exposure Certification.** Fill in Sections C, D, E and F.
- To discontinue an existing No Exposure Certification.** Select this option if you would like to discontinue an existing No Exposure Certification because your facility is no longer subject to regulation under 40 CFR 122.26 (e.g., the facility has ceased the industrial activity that necessitated the No Exposure Certification)*. Provide the following information and fill out Section G.

Provide the existing NPDES ID for the No Exposure Certification that you would like to discontinue:

* Note that if your facility no longer qualifies for the No Exposure Certification because permit coverage is required for exposed industrial materials or activities, you should not check this box, and must instead file for coverage under the Multi-Sector General Permit or an individual permit. Your No Exposure Certification will be automatically discontinued after you obtain coverage under the MSGP or an individual permit.

C. Facility Operator Information

1. Operator Name:

2. Mailing Address

Street:

City: State: ZIP Code: -

3. Phone: - - Ext.

4. E-mail:

5. Operator Point of Contact Information:

First Name, Middle Initial, Last Name:

Title:

D. Facility Information

1. Facility Name:

2. Facility Address:

Street/Location:

City: State: ZIP Code: -

County or Similar Government Subdivision:

3. Latitude/Longitude for the facility:

Latitude: . ° N (decimal degrees) Longitude: . ° W (decimal degrees)

Latitude/Longitude Data Source: Map GPS Other:

If you used a USGS topographic map, what was the scale?

Horizontal Reference Datum: NAD 27 NAD 83 WGS 84

4. Is your project/site located on Indian country lands? YES NO

If yes, provide the name of the Indian tribe associated with the area of Indian country (including name of Indian reservation, if applicable):

5. Are you a "federal operator" as defined in Appendix A? YES NO

6. What is the ownership type of the facility? Federal Facility (U.S. Government) Privately Owned Facility Municipality

County Government Corporation State Government Tribal Government School District

District Mixed Ownership (e.g. Public/Private) Municipal or Water District

7. Have stormwater discharges from your facility been covered previously under an NPDES permit? YES NO

If yes, provide the NPDES ID if you had coverage under EPA's MSGP or the NPDES permit number if you had coverage under an EPA individual permit:

8. Has your facility previously been covered by a No Exposure exclusion? YES NO

If yes, provide the NPDES ID for your previous No Exposure exclusion:

9. Identify the 4-digit Standard Industrial Classification (SIC) code or 2-letter Activity Code that best represents the products produced or services rendered for which your facility is primarily engaged, as defined in MSGP:

Primary SIC Code: OR Primary Activity Code

10. Total size of site associated with industrial activity: (to the nearest quarter acre)

11. Have you paved or roofed over a formerly exposed, pervious area in order to qualify for the no exposure exclusion? YES NO

If yes, please indicate approximately how much area was paved or roofed over. Completing this question does not disqualify you for the no exposure exclusion. However, your permitting authority may use this information in considering whether stormwater discharges from your site are likely to have an adverse impact on water quality, in which case you could be required to obtain permit coverage.

Less than one (1) acre One (1) to five (5) acres More than five (5) acres

E. Exposure Checklist

Are any of the following materials or activities exposed to precipitation, now or in the foreseeable future?

(Please check either "Yes" or "No" in the appropriate box.) **If you answer "Yes" to any of these questions, you are not eligible for the no exposure exclusion.**

	Yes	No
Using, storing or cleaning industrial machinery or equipment, and areas where residuals from using, storing or cleaning industrial machinery or equipment remain and are exposed to stormwater	<input type="checkbox"/>	<input type="checkbox"/>
Materials or residuals on the ground or in stormwater inlets from spills/leaks	<input type="checkbox"/>	<input type="checkbox"/>
Materials or products from past industrial activity	<input type="checkbox"/>	<input type="checkbox"/>
Material handling equipment (except adequately maintained vehicles)	<input type="checkbox"/>	<input type="checkbox"/>
Materials or products during loading/unloading or transporting activities	<input type="checkbox"/>	<input type="checkbox"/>
Materials or products stored outdoors (except final products intended for outside use [e.g., new cars] where exposure to stormwater does not result in the discharge of pollutants)	<input type="checkbox"/>	<input type="checkbox"/>
Materials contained in open, deteriorated or leaking storage drums, barrels, tanks, and similar containers	<input type="checkbox"/>	<input type="checkbox"/>
Materials or products handled/stored on roads or railways owned or maintained by the discharger	<input type="checkbox"/>	<input type="checkbox"/>
Waste material (except waste in covered, non-leaking containers [e.g., dumpsters])	<input type="checkbox"/>	<input type="checkbox"/>
Application or disposal of process wastewater (unless otherwise permitted)	<input type="checkbox"/>	<input type="checkbox"/>
Particulate matter or visible deposits of residuals from roof stacks and/or vents not otherwise regulated (i.e., under an air quality control permit) and evident in the stormwater outflow	<input type="checkbox"/>	<input type="checkbox"/>

F. Certification Information

I certify under penalty of law that I have read and understand the eligibility requirements for claiming a condition of "no exposure" and obtaining an exclusion from NPDES stormwater permitting.

I certify under penalty of law that there are no discharges of stormwater contaminated by exposure to industrial activities or materials from the industrial facility or site identified in this document (except as allowed under 40 CFR 122.26(g)(2)).

I understand that I am obligated to submit a no exposure certification form once every five years to the NPDES permitting authority and, if requested, to the operator of the local municipal separate storm sewer system (MS4) into which the facility discharges (where applicable). I understand that I must allow the NPDES permitting authority, or MS4 operator where the discharge is into the local MS4, to perform inspections to confirm the condition of no exposure and to make such inspection reports publicly available upon request. I understand that I must obtain coverage under an NPDES permit prior to any point source discharge of stormwater from the facility.

Additionally, 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 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.

First Name, Middle Initial, Last Name:

Title:

Signature: _____

Date: / /

E-mail:

G. Discontinuation of No Exposure Certification Information

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 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.

First Name, Middle Initial, Last Name:

Title:

Signature: _____

Date: / /

E-mail:

**No Exposure Certification (NOE) for Exclusion from Stormwater Discharges
Associated with Industrial Activity Under an NPDES General Permit**

NPDES Form Date (06/15)

This Form Replaces Form 3510-11 (09/08)

Form Approved OMB No. 2040-0004

Who May File a No Exposure Certification

Federal law at 40 CFR Part 122.26 prohibits point source discharges of stormwater associated with industrial activity to waters of the U.S. without a National Pollutant Discharge Elimination System (NPDES) permit. However, NPDES permit coverage is not required for discharges of stormwater associated with industrial activities identified at 40 CFR 122.26(b)(14)(i)-(ix) and (xi) if the discharger can certify that a condition of "no exposure" exists at the industrial facility or site.

Stormwater discharges from construction activities identified in 40 CFR 122.26(b)(14)(x) and (b)(15) are not eligible for the no exposure exclusion.

Obtaining and Maintaining the No Exposure Exclusion

This form is used to certify that a condition of no exposure exists at the industrial facility or site described herein. This certification is only applicable in jurisdictions where EPA is the NPDES permitting authority and must be re-submitted at least once every five years.

The industrial facility operator must maintain a condition of no exposure at its facility or site in order for the no exposure exclusion to remain applicable. If conditions change resulting in the exposure of materials and activities to stormwater, the facility operator must obtain coverage under an NPDES stormwater permit immediately.

Completing the Form

You must type or print, using uppercase letters, in appropriate areas only. Enter only one character per space (i.e., between the marks). Abbreviate if necessary to stay within the number of characters allowed for each item. Use one space for breaks between words. One form must be completed for each facility or site for which you are seeking to certify a condition of no exposure. Please make sure you have addressed all applicable questions and have made a photocopy for your records before sending the completed form to the above address.

Section A. Approval to Use Paper NOE Form

You must indicate whether you have been granted a waiver from electronic reporting from the EPA Regional Office. Note that you are not authorized to use this paper No Exposure Certification (NOE) form unless the EPA Regional Office has approved its use. Where you have obtained approval to use this form, indicate the waiver that you have been granted, the name of the EPA Regional Office staff person who granted the waiver, and the date that approval was provided. See <http://water.epa.gov/polwaste/npdes/stormwater/Stormwater-Contacts.cfm> for a list of EPA Regional Office contacts.

Section B. Reason for Submission

You must check your reason for submitting this form. You may submit this form for obtaining a new No Exposure Certification, for renewing a previous No Exposure Certification, or for discontinuing an existing No Exposure Certification (for facilities that no longer need the exclusion from permit coverage for industrial stormwater discharges).

Section C. Facility Operator Information

Provide the legal name of the person, firm, public organization, or any other entity that operates the facility described in this certification form. An operator of a facility is the legal entity that controls the operation of the facility. Refer to Appendix A of the

MSGP for the definition of "operator". Provide the operator's mailing address, phone number, and e-mail. Correspondence for the NOE will be sent to this address. Also provide the name and title for the operator point of contact (note that the point of contact name may be the same as the operator name).

Section D. Facility Information

Enter the official or legal name and complete street address, including city, state, ZIP code, and county or similar government subdivision of the facility. If the facility lacks a street address, indicate the general location of the facility (e.g., Intersection of State Highways 61 and 34). Complete facility information must be provided for permit coverage to be granted.

Provide the latitude and longitude of your facility in decimal degrees format. The latitude and longitude of your facility can be determined in several different ways, including through the use of global positioning system (GPS) receivers and U.S. Geological Survey (U.S.G.S.) topographic or quadrangle maps. Refer to <http://transition.fcc.gov/mb/audio/bickel/DDDMSS-decimal.html/> for assistance in providing the proper latitude/longitude format. For consistency, EPA requests that measurements be taken from the approximate center of the facility. Specify which method you used to determine latitude and longitude. If a U.S.G.S. topographic map is used, specify the scale of the map used. Enter the horizontal reference datum for your latitude and longitude. The horizontal reference datum used on USGS topographic maps is shown on the bottom left corner of USGS topographic maps; it is also available for GPS receivers.

Indicate whether the facility is on Indian country lands, and if so, provide the name of the Indian tribe associated with the area of Indian country (including name of Indian reservation, if applicable).

Indicate whether you are a "federal operator" as defined in Appendix A of the MSGP. Also check the facility's ownership type.

Indicate whether the facility was previously covered under an NPDES stormwater permit. If so, include the NPDES ID (i.e., NOI tracking number).

List the four-digit Standard Industrial Classification (SIC) code or two character activity code that best describes the primary industrial activities performed by your facility.

Enter the total size of the site associated with industrial activity in acres.

Check "Yes" or "No" as appropriate to indicate whether you have paved or roofed over a formerly exposed, pervious area (i.e., lawn, meadow, dirt or gravel road/parking lot) in order to qualify for no exposure. If yes, also indicate approximately how much area was paved or roofed over and is now impervious area.

**No Exposure Certification (NOE) for Exclusion from Stormwater Discharges
Associated with Industrial Activity Under an NPDES General Permit**

NPDES Form Date (06/15)

This Form Replaces Form 3510-11 (09/08)

Form Approved OMB No. 2040-0004

Section E. Exposure Checklist

Check "Yes" or "No" as appropriate to describe the exposure condition at your facility. If you answer "Yes" to **ANY** of the questions in this section, a potential for exposure exists at your site and you cannot certify to a condition of no exposure. You must obtain (or already have) coverage under an NPDES stormwater permit. After obtaining permit coverage, you can institute modifications to eliminate the potential for a discharge of stormwater exposed to industrial activity, and then certify to a condition of no exposure.

Section F and G. Certification Information

The NOE form must be signed as follows:

For a corporation: By a responsible corporate officer. For the purpose of this Section, a responsible corporate officer means:

(i) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long-term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

For a partnership or sole proprietorship: By a general partner or the proprietor, respectively; or

For a municipality, state, federal, or other public agency: By either a principal executive officer or ranking elected official. For purposes of this Part, a principal executive officer of a federal agency includes (i) the chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrator of EPA). Include the name and title of the person signing the form and the date of signing.

Include the name, title, and email address of the person signing the form and the date of signing.

An unsigned or undated NOE certification will not be considered valid.

Paperwork Reduction Act Notice

Public reporting burden for this certification is estimated to average 1.0 hour per certification, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Burden means the total time, effort, or financial resources expended by persons to generate, maintain, retain, or disclose to provide information to or for a Federal agency. This includes the time needed to review instructions; develop, acquire, install, and utilize technology and systems for the purposes of collecting, validating, and verifying information, processing and maintaining information, and

disclosing and providing information; adjust the existing ways to comply with any previously applicable instructions and requirements; train personnel to be able to respond to a collection of information; search data sources; complete and review the collection of information; and transmit or otherwise disclose the information.

An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number.

Send comments regarding the burden estimate, any other aspect of the collection of information, or suggestions for improving this form, including any suggestions which may increase or reduce this burden to: Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number of this form on any correspondence. Do not send the completed No Exposure Certification form to this address.

Submitting Your Form

If you have been granted a waiver from your Regional Office to submit a paper No Exposure Certification form, you must send your No Exposure Certification form by mail to one of the following addresses:

For Regular U.S. Mail Delivery:

Stormwater Notice Processing Center
Mail Code 4203M, ATTN: MSGP No Exposure
U.S. EPA
1200 Pennsylvania Avenue, NW
Washington, DC 20460

For Overnight/Express Mail Delivery:

Stormwater Notice Processing Center
William Jefferson Clinton East Building - Room 7420
ATTN: MSGP No Exposure
U.S. EPA
1201 Constitution Avenue, NW
Washington, DC 20004

Visit this website for instructions on how to submit electronically:
<http://water.epa.gov/polwaste/npdes/stormwater/Stormwater-eNOI-System-for-EPAs-MultiSector-General-Permit.cfm>

Appendix L - List of Tier 3, Tier 2, and Tier 2.5 Waters

EPA's MSGP has special requirements for discharges to waters designated by a state or tribe as Tier 2/2.5 or Tier 3 for antidegradation purposes under 40 CFR 131.12(a). See Parts 1.1.4.8 and 1.1.4.10

The list below is provided as a resource for operators who must determine whether they discharge to a Tier 2/2.5 or Tier 3 water. Only Tier 2/2.5 or Tier 3 waters specifically identified by a water quality standard authority (e.g., a state, territory, or tribe) are identified in the table below. Many authorities evaluate the existing and protected quality of the receiving water on a pollutant-by-pollutant basis and determine whether water quality is better than the applicable criteria that would be affected by a new discharger or a new source or an increase in an existing discharge of the pollutant. In instances where water quality is better, the authority may choose to allow lower water quality, where lower water quality is determined to be necessary to support important social and economic development. Permittees are not required to identify those waters which are evaluated on an individual basis.

Permit Number	Areas of Coverage/Where EPA Is Permitting Authority	
MAR050000	Commonwealth of Massachusetts, except Indian Country lands	
	Tier 2, Tier 2.5, and 3 waters are identified and listed in the Massachusetts Water Quality Standards 314 CMR 4.00. Surface water qualifiers that correspond with Tier classifications are defined at 314 CMR 4.06(1)(d)m and listed in tables and figures at the end of 314 CMR 4.06. See MassDEP's web page at http://www.mass.gov/eea/agencies/massdep/water/regulations/314-cmr-4-00-mass-surface-water-quality-standards.html .	
	Tier 2	Listed as "High Quality Waters", and all wetlands that are not designated as an Outstanding Resource Water
	Tier 2.5	Listed as "Outstanding Resource Water", "Public Water Supply", "Tributary to Public Water Supply", all wetlands bordering Outstanding Resource Waters, and vernal pools
	Tier 3	Defined as "Special Resource Water". Note: No waters have been defined as a Special Resource Water as of the issuance of this permit.
NHR050000	State of New Hampshire	
	Tier 2/2.5	There is no list of Tier 2/Tier 2.5 waters. New dischargers and new sources should contact Thelma Murphy (EPA Region 1's stormwater coordinator) at murphy.thelma@epa.gov .
	Tier 3	Env-Ws 1708.05(a) Surface waters of national forests and surface waters designated as "natural" under RSA 483:7-a, I shall be considered outstanding resource waters (ORW). "Natural waters" are listed at http://www.gencourt.state.nh.us/rsa/html/L/483/483-15.htm . Surface waters of national forests are not included in an official list. For further questions, new dischargers and new sources should contact Thelma Murphy (EPA Region 1's stormwater coordinator) at murphy.thelma@epa.gov .

Permit Number	Areas of Coverage/Where EPA Is Permitting Authority	
PRR050000	Commonwealth of Puerto Rico	
	Tier 3	Tier III waters are those which are classified as either Class SA or Class SE. Class SA waters are defined as "Coastal waters and estuarine waters of high quality and/or exceptional ecological or recreational value whose existing characteristics shall not be altered, except by natural causes, in order to preserve the existing natural phenomena." Class SA waters include bioluminescent lagoons and bays such as La Parguera and Monsio José on the Southern Coast, Bahía de Mosquito in Vieques, and any other coastal or estuarine waters of exceptional quality of high ecological value or recreational which may be designated by Puerto Rico, through Resolution, as requiring this classification for protection of the waters. Class SE waters are defined as "Surface waters and wetlands of exceptional ecological value, whose existing characteristics should not be altered in order to preserve the existing natural phenomena." Class SE waters include Laguna Tortuguero, Laguna Cartagena and any other surface water bodies of exceptional ecological value as may be designated by Puerto Rico through Resolution.
DCR050000	District of Columbia	
	Tier 2/2.5	Rule 1102.4 SPECIAL WATERS OF THE DISTRICT OF COLUMBIA (SWDC): Any segment or segments of the surface waters of the District that are of water quality better than needed for the current use or have scenic or aesthetic importance shall be designated as Special Waters of the District of Columbia (SWDC). Rock Creek and its tributaries and Battery Kemble Creek and its tributaries are considered Special Waters of the District of Columbia (SWDC) under its antidegradation program.
MNR050001	Fond du Lac Band of MN Chippewa	
	Tier 3	Six lakes are presently identified as Tier 3: (1) Dead Fish, (2) Jaskari, (3) Miller (Mud), (4) Perch, (5) Rice Portage, (6) Wild Rice.
	Grand Portage Band of MN Chippewa	
	Tier 2/2.5	All waters, not already classified as Tier 3, are high quality Tier 2 waters. (see Grand Portage Reservation Water Quality Standards, Section VI & VII, Pages 14-16).
	Tier 3	"The portion of Lake Superior north of latitude 47 degrees, 57 minutes, 13 seconds, east of Hat Point, south of the Minnesota-Ontario boundary, and west of the Minnesota-Michigan boundary." (see Section VII, Page 16).
WIR050001	Lac du Flambeau Band of the Lake Superior Chippewa	
	Tier 2	All named waters, including wetlands, not specified under an antidegradation classification.
	Tier 2.5	Bills Lake, Birch Lake, Bobidosh Lake, Bog Lake (SE SE Sec. 31, T40NR6E), Bolton Lake, Broken Bow Lake, Chewalah Lake, Clear Lake (Sec. 2, T39NR4E), Corn Great, Great, Corn Lake, Little "Least/Lesser", Crawling Stone Lake, Big, Crawling Stone Lake, Little, Crescent Lake, Crooked Lake, Big, David Lake, Ellerson Lake, Middle, Ellerson Lake, West, Elsie Lake "Boundary Lake", Fat Lake, Fence Lake, Gresham

Permit Number	Areas of Coverage/Where EPA Is Permitting Authority	
		Creek, Green Lake (NW NW Sec. 19, T41R6E), Grey Lake, Gunlock Lake, Haskell Lake, Headflyer Lake (Sec. 19, T41NR5E), Highway Lake (NW NW Sec. 19, T41NR5E), Horsehead Lake (SE SW Sec. 9, T40NR5E), Hutton's Creek, Ike Walton Lake, Lily Lake (SE SW Sec. 35, T40NR5E), Little Ten Lake, Lodge Lake "L. Rice" (NW NW Sec. 8, T41NR6E), Lucy Lake, Mindys Lake (Sec. 8, T40NR5E), Minette Lake, Mitten Lake, Monk's Lake (Sec. 13, T40NR5E), Moving Cloud Lake, Mud Creek, Muskesin Lake, Patterson Lake, Placid Twin Lake (North), Placid Twin Lake (South), Plummer Lake, Poupart Lake, Prairie Lake (NE SW Sec. 13, T40NR4E), Raven Lake, Ross Allen Lake, Sand Lake, Little, Scott Lake (Sec. 22, T40N, R4E), Shishebogama Lake, Signal Lake, Snort Lake (Sec. 5, T41N, R6E), Spring Lake "Jerms", Squirrel Lake, Statenaker Lake "Hollow", Stearns Lake "Hourglass", Sugarbush "Hidden Lake" (NW NW Sec. 17, T41NR5E), Sugarbush Creek, Sugarbush Lake, Little, Sugarbush Lake, Lower, Sugarbush Lake, Middle, Sugarbush Lake, Upper, Sunfish Lake, Tippecanoe Lake, Tomahawk River, To-To Tom Lake, Toulish Lake, Trout River, Warrior Lake, White Sand Lake, Whitefish Lake "Cattail Lake" (Sec. 34, T40N5R), Wishow Lake, Wyandock Lake
	Tier 3	Bear River (1st bridge to Reservation boundary), Big Springs (Sec. 25, T40NR4E), Black Lake, Cranberry Lake, Doud Lake, Eagle Lake, Gene Lake, Johnson Springs, Little Trout Lake, Lost Lake (Sect. 1, T41NR4E), Mishonagon Creek, Munnomin (Jesse, Duck) Lake, Negani (Hegani) Lake, Reservation Line Lake, Spring Creek, Tank Lake, Thomas Lake, Wild Rice Lake, Zee Lake
	Mole Lake Band of the Lake Superior Tribe of the Chippewa Indians, Sokaogon Chippewa Community	
	Tier 2.9	One Tribal Water, Wetland 22, is classified as Exceptional High Quality Water (EHQW). It is a high-quality water body of significant cultural, religious, social, ecological and recreational attributes.
	Tier 3	All waters in the Sokaogon Chippewa Community (WI) as classified as Tier 3, with one exception (Wetland 22).
COR05001	State of Colorado	
	Ute Mountain Ute Tribe	
	Tier 3	(2010 Proposed) Designations: 1. Ute Spring and unnamed creek from Ute Spring downstream within Section 12, TWP35N R18W (Colorado). 2. Allen Canyon Creek, Sections 17, 20, 29, 30, 31, TWP 35S, R21E (Utah) 3. "Lopez" Spring and unnamed creek tributary to and downstream from the spring, within Section 35, TWP 34N, R18W
NMR050000	State of New Mexico	
	Tier 3	(1) Rio Santa Barbara, including the west, middle and east forks from their headwaters downstream to the boundary of the Pecos Wilderness; and (2) the waters within the United States forest service Valle Vidal special management unit including:

Permit Number	Areas of Coverage/Where EPA Is Permitting Authority
	<p>(a) Rio Costilla, including Comanche, La Cueva, Fernandez, Chuckwagon, Little Costilla, Holman, Gold, Grassy, LaBelle and Vidal creeks, from their headwaters downstream to the boundary of the United States forest service Valle Vidal special management unit;</p> <p>(b) Middle Ponil creek, including the waters of Greenwood Canyon, from their headwaters downstream to the boundary of the Elliott S. Barker wildlife management area;</p> <p>(c) Shuree lakes;</p> <p>(d) North Ponil creek, including McCrystal and Seally Canyon creeks, from their headwaters downstream to the boundary of the United States forest service Valle Vidal special management unit; and</p> <p>(e) Leandro creek from its headwaters downstream to the boundary of the United States forest service Valle Vidal special management unit.</p> <p>(3) the named perennial surface waters of the state, identified in Subparagraph (a) below, located within United States department of agriculture forest service wilderness. Wilderness are those lands designated by the United States congress as wilderness pursuant to the Wilderness Act. Wilderness areas included in this designation are the Aldo Leopold wilderness, Apache Kid wilderness, Blue Range wilderness, Chama River Canyon wilderness, Cruces Basin wilderness, Dome wilderness, Gila wilderness, Latir Peak wilderness, Pecos wilderness, San Pedro Parks wilderness, Wheeler Peak wilderness, and White Mountain wilderness.</p> <p>(a) The following waters are designated in the Rio Grande basin:</p> <p>(i) in the Aldo Leopold wilderness: Byers Run, Circle Seven creek, Flower canyon, Holden Prong, Indian canyon, Las Animas creek, Mud Spring canyon, North Fork Palomas creek, North Seco creek, Pretty canyon, Sids Prong, South Animas canyon, Victorio Park canyon, Water canyon;</p> <p>(ii) in the Apache Kid wilderness Indian creek and Smith canyon;</p> <p>(iii) in the Chama River Canyon wilderness: Chavez canyon, Ojitos canyon, Rio Chama;</p> <p>(iv) in the Cruces Basin wilderness: Beaver creek, Cruces creek, Diablo creek, Escondido creek, Lobo creek, Osha creek;</p> <p>(v) in the Dome wilderness: Capulin creek, Medio creek, Sanchez canyon/creek;</p> <p>(vi) in the Latir Peak wilderness: Bull creek, Bull Creek lake, Heart lake, Lagunitas Fork, Lake Fork creek, Rito del Medio, Rito Primero, West Latir creek;</p> <p>(vii) in the Pecos wilderness: Agua Sarca, Hidden lake, Horseshoe lake (Alamitos), Jose Vigil lake, Nambe lake, Nat lake IV, No Fish lake, North Fork Rio Quemado, Rinconada, Rio Capulin, Rio de las Trampas (Trampas creek), Rio de Truchas, Rio Frijoles, Rio Medio, Rio Molino, Rio Nambe, Rio San Leonardo, Rito con Agua, Rito Gallina, Rito Jaroso, Rito Quemado, San Leonardo lake, Santa Fe lake, Santa Fe river, Serpent lake, South Fork Rio Quemado, Trampas lake (East), Trampas lake (West);</p> <p>(viii) in the San Pedro Parks wilderness: Agua Sarca, Cañon Madera, Cave creek, Cecilia Canyon creek, Clear creek (North SPP), Clear creek (South SPP), Corralitos creek, Dove creek, Jose Miguel creek, La</p>

Permit Number	Areas of Coverage/Where EPA Is Permitting Authority
	<p>Jara creek, Oso creek, Rio Capulin, Rio de las Vacas, Rio Gallina, Rio Puerco de Chama, Rito Anastacio East, Rito Anastacio West, Rito de las Palomas, Rito de las Perchas, Rito de los Pinos, Rito de los Utes, Rito Leche, Rito Redondo, Rito Resumidero, San Gregorio lake;</p> <p>(ix) in the Wheeler Peak wilderness: Black Copper canyon, East Fork Red river, Elk lake, Horseshoe lake, Lost lake, Sawmill creek, South Fork lake, South Fork Rio Hondo, Williams lake.</p> <p>(b) The following waters are designated in the Pecos River basin:</p> <p>(i) in the Pecos wilderness: Albright creek, Bear creek, Beatty creek, Beaver creek, Carpenter creek, Cascade canyon, Cave creek, El Porvenir creek, Hollinger creek, Holy Ghost creek, Horsethief creek, Jack's creek, Jarosa canyon/creek, Johnson lake, Lake Katherine, Lost Bear lake, Noisy brook, Panchuela creek, Pecos Baldy lake, Pecos river, Rio Mora, Rio Valdez, Rito Azul, Rito de los Chimayosos, Rito de los Esteros, Rito del Oso, Rito del Padre, Rito las Trampas, Rito Maestas, Rito Oscuro, Rito Perro, Rito Sebadillosoes, South Fork Bear creek, South Fork Rito Azul, Spirit lake, Stewart lake, Truchas lake (North), Truchas lake (South), Winsor creek;</p> <p>(ii) in the White Mountain wilderness: Argentina creek, Aspen creek, Bonito creek, Little Bonito creek, Mills canyon/creek, Rodamaker creek, South Fork Rio Bonito, Turkey canyon/creek.</p> <p>(c) The following waters are designated in the Gila River basin:</p> <p>(i) in the Aldo Leopold wilderness: Aspen canyon, Black Canyon creek, Bonner canyon, Burnt canyon, Diamond creek, Falls canyon, Fisherman canyon, Running Water canyon, South Diamond creek;</p> <p>(ii) in the Gila wilderness: Apache creek, Black Canyon creek, Brush canyon, Canyon creek, Chicken Coop canyon, Clear creek, Cooper canyon, Cow creek, Cub creek, Diamond creek, East Fork Gila river, Gila river, Gilita creek, Indian creek, Iron creek, Langstroth canyon, Lilley canyon, Little creek, Little Turkey creek, Lookout canyon, McKenna creek, Middle Fork Gila river, Miller Spring canyon, Mogollon creek, Panther canyon, Prior creek, Rain creek, Raw Meat creek, Rocky canyon, Sacaton creek, Sapillo creek, Sheep Corral canyon, Skeleton canyon, Squaw creek, Sycamore canyon, Trail canyon, Trail creek, Trout creek, Turkey creek, Turkey Feather creek, Turnbo canyon, West Fork Gila river, West Fork Mogollon creek, White creek, Willow creek, Woodrow canyon.</p> <p>(d) The following waters are designated in the Canadian River basin: in the Pecos wilderness Daily creek, Johns canyon, Middle Fork Lake of Rio de la Casa, Middle Fork Rio de la Casa, North Fork Lake of Rio de la Casa, Rito de Gascon, Rito San Jose, Sapello river, South Fork Rio de la Casa, Sparks creek (Manuelitas creek).</p> <p>(e) The following waters are designated in the San Francisco River basin:</p> <p>(i) in the Blue Range wilderness: Pueblo creek;</p> <p>(ii) in the Gila wilderness: Big Dry creek, Lipsey canyon, Little Dry creek, Little Whitewater creek, South Fork Whitewater creek, Spider creek, Spruce creek, Whitewater creek.</p>

Permit Number	Areas of Coverage/Where EPA Is Permitting Authority	
		<p>(f) The following waters are designated in the Mimbres Closed basin: in the Aldo Leopold wilderness Corral canyon, Mimbres river, North Fork Mimbres river, South Fork Mimbres river.</p> <p>(g) The following waters are designated in the Tularosa Closed basin: in the White Mountain wilderness Indian creek, Nogal Arroyo, Three Rivers.</p> <p>(h) The wetlands designated are identified on the maps and list of wetlands within United States forest service wilderness areas designated as outstanding national resource waters published at the New Mexico state library and available on the department's website.</p>
CAR050001	Hualapai Tribe	
	Tier 3	Spencer, Meriwhitica, Willow Spring, Upper Milkweed Spring, Bridge Canyon, Travertine Spring, Travertine Falls, Diamond Creek, Diamond Creek Spring, Blue Mountain, Metuck, Peach Springs Spring, Westwater, Clay Tank, Hockey Puck, Pocamote Spring, Mohawk Spring, Granite Spring, Three Spring, Warm Spring, Honga Spring, National Canyon Spring, National Canyon, Moss Spring
	White Mountain Apache Tribe of the Fort Apache Indian Reservation	
	Tier 2/2.5	East Fork White River, above R52 Road, East Fork White River below R52 Road, above Rock Cr., Paradise Creek, above Wohlenberg, Ord Creek, Smith Cienega, Bull Cienega, Smith Creek, Big Bonito , Tonto Creek, below Y47 Crossing, Crooked Creek, Boggy Creek, Lofer Cienego Creek, Little Bonito Creek, above Y55 Crossing, Flash Creek, Squaw Creek, Hurricane Lake, Hurricane Creek, Hughey Creek, Bonito Cienega, West Fork Black River, Hall Cienega, Purcell Cienega, Thompson Creek, Carrizo Creek below Corduroy, Carrizo Creek above Corduroy, Cedar Creek, Big Canyon (E. Cedar Creek), Middle Cedar Creek, West Cedar Creek, Cibecue Creek in Box Canyon to Salt river, Cibecue Creek, Box CallYon up to confluence with Salt Creek, Spring Creek, Salt Creek, Cibecue Creek, from confluence w/Salt Cr, to Big Springs, Cibecue Creek, above Big Springs, Rock Springs Creek, Salt Draw, Canyon Creek S. of Chediski Farms, Willow Creek (Lower Canyon Cr), Oak Creek, Canyon Creek. N. of Chedlski Fanns,
	Tier 3	East Fork While River, in Wilderness Area, Pumpkin Lake
IDR050000	State of Idaho	
	For Tier 2 and Tier 3 waters, please consult the Idaho Integrated Report, available at: http://www.deq.idaho.gov/water-quality/surface-water/monitoring-assessment/integrated-report.aspx and the closest regional office of the Idaho Department of Environmental Quality: http://www.deq.idaho.gov/regional-offices-issues.aspx	

Appendix M - Discharge Monitoring Report (DMR) Form

Part 7.1 requires you to use the electronic NetDMR system to prepare and submit your Discharge Monitoring Report (DMR) form. However, if you are given approval by the EPA Regional Office to use a paper DMR form, and you elect to use it, you must complete and submit the following form.



A. Approval to Use Paper DMR Form

1. Have you been granted a waiver from electronic reporting from the EPA Regional Office*? YES NO

If yes, check which waiver you have been granted, the name of the EPA Regional Office staff person who granted the waiver, and the date of approval:

- Waiver granted: The owner/operator's headquarters is physically located in a geographic area (i.e., ZIP code or census tract) that is identified as under-served for broadband Internet access in the most recent report from the Federal Communications Commission.
- The owner/operator has issues regarding available computer access or computer capability.

Name of EPA staff person that granted the waiver:

Date approval obtained: / /

* Note: You are required to obtain approval from the applicable EPA Regional Office prior to using this paper DMR form. If you have not obtained a waiver, you must file this form electronically using the NetDMR at <http://www.epa.gov/netdmr/>

B. Permit Information

1. NPDES ID:

2. 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 A, B, C, D, E.1, and G).
- Reporting that your site status has changed to inactive and unstaffed (Fill in Sections A, B, C, D, and F and include date of status change in comment field in Section F.4).
- Reporting that your site status has changed to active (Fill in all Sections and include date of status change in comment field in Section F.4).
- Reporting that no further pollutant reductions are achievable for all outfalls and for all pollutants via Part 6.2.1.2 of the MSGP (Fill in Sections A, B, C, D, and G).

C. Facility Operator Information

1. Operator Information

Operator Name:

Mailing Address:

Street:

City: State: ZIP Code: -

Phone: - - Ext.

E-mail:

2. DMR Preparer (Complete if DMR was prepared by someone other than the certifier):

First Name, Middle Initial, Last Name:

Organization:

Phone: - - Ext.

E-mail:



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 WASHINGTON, DC 20460
 MSGP INDUSTRIAL DISCHARGE MONITORING REPORT (DMR)

Form Approved. OMB No. 2040-0004

F. Monitoring Information

Note: Make additional copies of this form as necessary.

1. Nature of Discharge: Rainfall (Complete line items 2.a., 2.b., & 2.c.) Snowmelt

2.a. Duration of the rainfall event (hours): 2.b. Rainfall amount (inches): . 2.c. Time since previous measurable storm event (days):

3.a. Outfall ID (list the same 3-digit outfalls identified on the NOI form)	3.b. Check if Any Outfalls are Substantially Identical to Other Outfalls Listed	3.c. Check if No Discharge	3.d. Monitoring Type QBM, ELG, S/T, I, O*	3.e. Parameter	3.f. Quality or Concentration	3.g. Units	3.h. Results Description	3.i. Collection Date	3.j. Exceedance due to natural background pollutant levels	3.k. No further pollutant reductions achievable?
		<input type="checkbox"/>							<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> Substantially identical to outfall: _____	<input type="checkbox"/>							<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> Substantially identical to outfall: _____	<input type="checkbox"/>							<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> Substantially identical to outfall: _____	<input type="checkbox"/>							<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> Substantially identical to outfall: _____	<input type="checkbox"/>							<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> Substantially identical to outfall: _____	<input type="checkbox"/>							<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> Substantially identical to outfall: _____	<input type="checkbox"/>							<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> Substantially identical to outfall: _____	<input type="checkbox"/>							<input type="checkbox"/>	<input type="checkbox"/>

* (QBM) - Quarterly benchmark monitoring; (ELG) - Annual effluent limitations guidelines monitoring; (S/T) - State- or tribal-specific monitoring; (I) - Impaired waters monitoring; (O) - Other monitoring as required by EPA

4. Comment and/or Explanation of Any Violations (Reference all attachments here)

G. Certification

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 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.

First Name, Middle Initial, Last Name:

Title:

Signature: _____

Date: / /

E-mail:

**Discharge Monitoring Report (DMR) for Stormwater Discharges
Associated with Industrial Activity Under the NPDES Multi-Sector General Permit**

NPDES Form Date (06/15)

Form Approved OMB No. 2040-0004

Who Must Submit A Discharge Monitoring Report to EPA?

Facilities covered under the Multi-Sector General Permit (MSGP or permit) that are required to monitor pursuant to Parts 6.2 and 8 of the permit must submit Discharge Monitoring Reports (DMRs) consistent with the reporting requirements specified in Part 7.1 of the permit.

Completing the Form

Obtain and read a copy of the 2015 MSGP, viewable at <http://water.epa.gov/polwaste/npdes/stormwater/EPA-Multi-Sector-General-Permit-MSGP.cfm>. To complete this form, type or print, using uppercase letters, in the appropriate areas only. Please place each character between the marks. Abbreviate if necessary to stay within the number of characters allowed for each item. Use only one space for breaks between words, but not for punctuation marks unless they are needed to clarify your response. Please submit original document with signature in ink - do not send a photocopied signature. **Photocopy your DMR form for your records before you send the completed original form to the appropriate address.**

Section A. Approval to Use Paper DMR Form

You must indicate whether you have been granted a waiver from electronic reporting from the EPA Regional Office. Note that you are not authorized to use this paper DMR form unless the EPA Regional Office has approved its use. Where you have obtained approval to use this form, indicate the waiver that you have been granted, the name of the EPA staff person who granted the waiver, and the date that approval was provided. See <http://water.epa.gov/polwaste/npdes/stormwater/EPA-Multi-Sector-General-Permit-MSGP.cfm> for a list of EPA Regional Office contacts.

Section B. Permit Information

Provide the NPDES ID (i.e., NOI tracking number) assigned to the facility for which this DMR is being submitted.

Indicate your reason(s) for submitting this DMR by checking all boxes that apply. The reasons for submission are defined as follows:

- *Submitting monitoring data:* For each storm sampled, submit one DMR form with data for all outfalls sampled. Select this reason even if you only have monitoring data for some of your outfalls (i.e., some outfalls did not discharge). If you select this reason you are required to complete all Sections of the form.
- *Reporting no discharge for all outfalls for this monitoring period:* Indicates that there were no discharges from all outfalls during this monitoring period. If you select this reason you are only required to complete Sections A, B, C, D, E.1, and G.
- *Reporting that your site status has changed to inactive and unstaffed:* Indicates that your facility is currently inactive and unstaffed (See Part 6.2.1.3 of the permit for more information). If you select this reason you are only required to complete Sections A, B, C, D, and F and include date of status change in comment field in Section F.4
- *Reporting that your site status has changed from inactive to active:* Indicates that your facility is currently active (See Part 6.2.1.3 of the permit for more information). If you select this reason you are required to complete all Sections of the form and include date of status change in the comment field in Section F.4.

- *Reporting that no further reductions are achievable for all outfalls and for all pollutants via Part 6.2.1.2 of the permit:* Indicates that you have determined that no further pollutant reductions are technologically and economically practicable in light of best industry practice to meet the technology-based effluent limits or are necessary to meet the water-quality-based effluent limitations in Parts 2 of the permit (See Part 6.2.1.2 of the permit for more information). If you select this reason you are required to complete Sections A, B, C, D and G. However, if you can make this finding for some outfalls and pollutants, but not for others, you cannot select this reason; you will instead be able to identify which outfalls and which pollutants you can make this finding for in Section F.

Section C. Facility Operator Information.

Provide the legal name of the person, firm, public organization, or any other entity that operates the facility for which this DMR is being submitted. An operator of a facility is the legal entity that controls the operation of the facility. Refer to Appendix A of the permit for the definition of "operator". Provide the operator's mailing address, phone number, and e-mail. The operator information in this Section should match the operator information provided on your NOI form.

Provide the name, organization, phone number, an email address for the person who prepared this DMR form.

Section D. Facility Information

Enter the official or legal name and complete street address, including city, state, ZIP code, and county or similar government subdivision of the facility. If the facility lacks a street address, indicate the general location of the facility (e.g., Intersection of State Highways 61 and 34). Complete facility information must be provided for permit coverage to be granted. The facility information in this Section should match the facility information provided on your NOI form.

Section E. Discharge Information.

Indicate the appropriate monitoring period (Quarter 1, 2, 3, or 4) covered by the DMR. "Alternative" monitoring periods can apply to facilities located in arid and semi-arid climates, or in areas subject to snow or prolonged freezing. To use alternative monitoring periods, you must provide a revised monitoring schedule here. If using alternative monitoring periods, identify the first day of the monitoring period through the last day of the monitoring period for each of the four periods. The dates should be displayed as month (Mo) / day (Day). See Parts 6.1.6 and 6.1.7 of the permit for more information.

If you are submitting benchmark monitoring data, identify if your facility is required to collect benchmark samples for one or more hardness-dependent metals (i.e., cadmium, copper, lead, nickel, silver, and zinc). If you select "yes" to this question provide the hardness level of the receiving water (in mg/L). If you select "no" to this question, you must identify if your facility discharges into any saltwater receiving waters.

**Discharge Monitoring Report (DMR) for Stormwater Discharges
Associated with Industrial Activity Under the NPDES Multi-Sector General Permit**

NPDES Form Date (06/15)

Form Approved OMB No. 2040-0004

F. Monitoring Information

For the reported monitoring event indicate whether the discharge was from a rainfall or snowmelt event. If you select "rainfall" then indicate the duration (in hours) of the rainfall event, rainfall total (in inches) for that rainfall event, and time (in days) since the previous measurable storm event in line items 2.a-c. For both rainfall and snowmelt monitoring, you must identify the date of collection for the monitoring event in column 3.i. of the table. If the discharge occurs during a period of both rainfall and snowmelt, check both the rainfall and snowmelt boxes and report the appropriate rainfall information in item 2.a-c. To report multiple monitoring events in the same reporting period, copy this form and enter each monitoring event separately with data for all outfalls sampled.

Identify all the outfalls from your facility that discharge stormwater. Each outfall must be assigned a unique 3-digit number (e.g., 001, 002, 003), and should match the outfalls identified on your NOI form.

If any outfalls are substantially identical, check the box in 3.b and identify the outfall that the outfall in 3.a is substantially identical to. In 3.d – k, you only need to provide benchmark monitoring data for one of the outfalls.

For any outfall for which there was no discharge during the monitoring period, check the box in 3.

In 3.d, identify the type of monitoring using the specified codes, in parentheses, below:

- (QBM) – Quarterly benchmark monitoring
- (ELG) – Annual effluent limitations guidelines monitoring;
- (S/T) – State- or Tribal-specific monitoring;
- (I) – Impaired waters monitoring; or
- (O) – Other monitoring as required by EPA.

In 3.e, enter each "parameter" (or "pollutant") monitored. For QBM and ELG monitoring, use the same parameter name as in Part 8 of the permit.

In 3.f., enter a sample measurement value for each parameter analyzed and required to be reported. Enter "ND" (i.e., not detected) for any sample results below the method detection limit or "BQL" (i.e., below quantitation limit) for sample results above the detection limit but below the quantitation limit.

In 3.g., enter the units for sample measurement values (i.e., "mg/L" for milligrams per liter) for each parameter analyzed and required to be reported. For monitoring results reported as ND or BQL this space will be left blank and the units will be reported in Column 3.f.

3.h. must be completed for any monitoring results reported as ND or BQL in the "Quality or Concentration" column. For ND, report the laboratory detection level and units in this column. For BQL, report the laboratory quantitation limit and units in this column.

In 3.i. identify the sampling date for each parameter monitoring result reported on this form.

3.h. *Exceedance due to natural background pollutant levels:* Check box if following the first 4 quarters of benchmark monitoring (or sooner if the exceedance is triggered by less than 4 quarters of data) you have determined that the exceedance of the

benchmark is attributable solely to the presence of that pollutant in the natural background for that outfall and any substantially identical outfalls, or for impaired waters monitoring, the presence of the pollutant is caused solely by natural background. See Part 6.2.1.2 and 6.2.4.1 of the permit for more information.

In 3.j. check the box if after collection of 4 quarterly samples (or sooner if the exceedance is triggered by less than 4 quarters of data), the average of the 4 monitoring values for any parameter exceeds the benchmark and you have made the determination that no further pollutant reductions are technologically available and economically practicable and achievable in light of best industry practice to meet the technology-based effluent limits or are necessary to meet the water-quality-based effluent

Where violations of the permit requirements are reported, include a brief explanation to describe the cause and corrective actions taken, and reference each violation by date. Also, this section should include any additional comments such as are required when changing site status from inactive and unstaffed to active or vice versa. Attach additional pages if you need more space.

Attach additional copies of Section F as necessary to address all outfalls and parameters.

Section G. Certification Information

DMRs must be signed by a person described below, or by a duly authorized representative of that person.

For a corporation: By a responsible corporate officer. For the purpose of this Section, a responsible corporate officer means:

(i) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long-term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

For a partnership or sole proprietorship: By a general partner or the proprietor, respectively; or

For a municipality, state, federal, or other public agency: By either a principal executive officer or ranking elected official. For purposes of this Part, a principal executive officer of a federal agency includes (i) the chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrator of EPA). Include the name and title of the person signing the form and the date of signing.

**Discharge Monitoring Report (DMR) for Stormwater Discharges
Associated with Industrial Activity Under the NPDES Multi-Sector General Permit**

NPDES Form Date (06/15)

Form Approved OMB No. 2040-0004

A person is a duly authorized representative only if:

1. The authorization is made in writing by a person described above;
2. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company, (A duly authorized representative may thus be either a named individual or any individual occupying a named position.) and
3. The written authorization is submitted to the Director.

An unsigned or undated DMR form be considered incomplete.

Paperwork Reduction Act Notice

Public reporting burden for this form is estimated to average 7.25 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. Send comments regarding the burden estimate, any other aspect of the collection of information, or suggestions for improving this form, including any suggestions which may increase or reduce this burden to: Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number of this form on any correspondence. Do not send the completed DMR form to this address.

Submitting Your Form

If you have been granted a waiver from your Regional Office to submit a paper DMR form, you must send your DMR form by mail to one of the following addresses:

Region 1

MSGP Discharge Monitoring Reports (OES4-SMR)
EPA New England, Region 1
5 Post Office Square - Suite 100
Boston, MA 02109-3912

Region 2

MSGP Discharge Monitoring Reports
290 Broadway
DECA/CAPBS/DMT
21st Floor
New York, NY, 10007-1866

Region 3

Nancy Ford
U.S. EPA Region 3
1650 Arch Street
Mail Code #3WP60
Philadelphia, PA 19103

Region 5

U.S. Environmental Protection Agency Region 5
77 West Jackson Boulevard (WN-16J)
Chicago, Illinois 60604
Attn: Brian Bell - Storm Water Coordinator

Region 6

U.S. EPA, Region 6 MSGP DMRs
Water Enforcement Branch (6EN-WC)
1445 Ross Avenue
Dallas, TX 75202

Region 7

Neal Gilbert
U.S. Environmental Protection Agency, Region 7
Enforcement Coordination Office
11201 Renner Blvd
Lenexa, KS 66219

Region 8

U.S. EPA, Region 8 (ENF-PJ)
Attention: DMR Coordinator
1595 Wynkoop Street
Denver, CO 80202-1129

Region 9

Sandra Chew
U.S. EPA Region 9
Information Management Section, ENF-4-1
75 Hawthorne Street
San Francisco, CA 94105

Region 10

U.S. EPA Region 10
Attn: NPDES Data Manager, OCE-101
1200 Sixth Avenue, Suite 900
Seattle, WA 98101

Visit this website for instructions on how to submit electronically:
<http://water.epa.gov/polwaste/npdes/stormwater/Stormwater-eNOI-System-for-EPAs-MultiSector-General-Permit.cfm>

Appendix N - List of SIC and NAICS Codes

Sector A. Timber Products					
Sub-sector	SIC Codes		NAICS Codes		Notes
A3	2411	Logging (log storage and handling activities only; wet deck storage areas only authorized if no chemical additives are used in the spray water or applied to the logs.)	113310	Logging	
A1	2421	General Sawmills and Planing Mills (sawmills)	321113	Sawmills	
		(lumber manufacturing from purchased lumber, softwood cut stock, wood lath, fence pickets, and planing mill products)	321912	Cut Stock, Resawing Lumber, and Planing	
		(softwood flooring)	321918	Other Millwork (including Flooring)	
		(box lumber made from purchased lumber)	321920	Wood Container and Pallet Manufacturing	
		(kiln drying)	321999	All Other Miscellaneous Wood Product Manufacturing	
A4	2426	Hardwood Dimension and Flooring Mills (hardwood dimension lumber made from logs or bolts)	321113	Sawmills	
		(hardwood cut stock, resawing hardwood lumber, and planing purchased hardwood lumber except flooring)	321912	Cut Stock, Resawing Lumber, and Planing	
		(hardwood flooring)	321918	Other Millwork (including Flooring)	
		(wood furniture frames and finished furniture parts)	337215	Showcase, Partition, Shelving, and Locker Manufacturing	
	2429	Special Product Sawmills, Not Elsewhere Classified (shingle mills, shakes)	321113	Sawmills	
		(stave manufacturing from purchased lumber)	321912	Cut Stock, Resawing Lumber, and Planing	
		(cooperage stock)	321920	Wood Container and Pallet Manufacturing	
		(excelsior)	321999	All Other Miscellaneous Wood Product Manufacturing	

	2431	Millwork (wood windows and doors) (except wood windows and doors)	321911	Wood Window and Door Manufacturing	
			321918	Other Millwork (including Flooring)	
	2435	Hardwood Veneer and Plywood	321211	Hardwood Veneer and Plywood Manufacturing	
	2436	Softwood Veneer and Plywood	321212	Softwood Veneer and Plywood Manufacturing	
	2439	Structural Wood Members, Not Elsewhere Classified (except trusses) (trusses)	321213	Engineered Wood Member (except Truss) Manufacturing	
		321214	Truss Manufacturing		
A5	2441	Nailed and Lock Corner Wood Boxes and Shook	321920	Wood Container and Pallet Manufacturing	
A4	2448	Wood Pallets and Skids	321920	Wood Container and Pallet Manufacturing	
	2449	Wood Containers, Not Elsewhere Classified	321920	Wood Container and Pallet Manufacturing	
	2451	Mobil Homes	321991	Manufactured Home (Mobil Home) Manufacturing	
	2452	Prefabricated Wood Buildings and Components	321992	Prefabricated Wood Building Manufacturing	
A2	2491	Wood Preserving	321114	Wood Preservation	
A4	2493	Reconstituted Wood Products	321219	Reconstituted Wood Product Manufacturing	
	2499	Wood Products, Not Elsewhere Classified (wood containers, such as noncoopered vats and reed or straw baskets)	321920	Wood Container and Pallet Manufacturing	
		(except wood containers, wood cooling towers, cork life preservers, mirror or picture frames, and laundry hampers of reed, rattan, and willow)	321999	All Other Miscellaneous Wood Product Manufacturing	
		(wood cooling towers)	333415	Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment Manufacturing	
		(laundry hampers of reed, rattan, and willow)	337125	Household Furniture (except Wood and Metal) Manufacturing	
		(cork life preservers)	339113	Surgical Appliance and Supplies Manufacturing	
		(mirror and picture frames)	339999	All Other Miscellaneous Manufacturing	

Sector B. Paper and Allied Products Manufacturing						
Sub-sector	SIC Codes		NAICS Codes		Notes	
B2	2611	Pulp Mills	322110	Pulp Mills		
		(pulp producing mills only)		322121		Paper (except Newsprint) Mills
		(producing paper except newsprint)		322122		Newsprint Mills
		(producing newsprint)		322130		Paperboard Mills
	2621	Paper Mills	322121	Paper (except Newsprint) Mills		
		(except newsprint mills)		322122		Newsprint Mills
B1	2631	Paperboard Mills	322130	Paperboard Mills		
B2	2652	Setup Paperboard Boxes	322213	Setup Paperboard Box Manufacturing		
	2653	Corrugated and Solid Fiber Boxes	322211	Corrugated and Solid Fiber Boxes Manufacturing		
	2655	Fiber Cans, Tubes, Drums, and Similar Products	322214	Fiber Can, Tube, Drum, and Similar Products Manufacturing		
	2656	Sanitary Food Containers, Except Folding	322215	Nonfolding Sanitary Food Container Manufacturing		
	2657	Folding Paperwork Boxes	322212	Folding Paperboard Box Manufacturing		
	2671	Packaging Paper and Plastics Film, Coated and Laminated	322221	Coated and Laminated Packaging Paper and Plastics Film Manufacturing		
		(except single-web and multi-web plastics packaging film and sheets)				
		(single-web and multi-web plastics packaging film and sheets)	326112	Plastics Packaging Film and Sheet (including Laminated) Manufacturing	Any facility whose primary activity is manufacturing single-web and multi-web plastics packaging film and sheets (SIC 2671 / NAICS 326112) should be regulated under Sector Y, but may continue to be regulated under Sector B, or alternatively, under Sector AD. Sectors Y, B, and AD do not have specific requirements for facilities manufacturing single-web and multi-web plastics packaging film and sheets. However, under Sector AD EPA could establish additional facility-specific monitoring and reporting requirements.	
	Coated and Laminated Paper, NEC	322222	Coated and Laminated Paper Manufacturing	Regulatory burden would not differ between Sectors B and Y.		

2673	Plastics, Foil, and Coated Paper Bags (except single-web or multi-web plastics bags)	322223	Plastics, Foil, and Coated Paper Bags Manufacturing	
	(single-web and multi-web plastics bags)	326111	Plastics Bag Manufacturing	Any facility whose primary activity is manufacturing single-web and multi- web plastics bags (SIC 2673 / NAICS 326111) should be regulated under Sector Y, but may continue to be regulated under Sector B, or alternatively, under Sector AD. Sectors Y, B, and AD do not have specific requirements for facilities manufacturing single-web and multi- web plastics bags. However, under Sector AD EPA could establish additional facility-specific monitoring and reporting requirements. Regulatory burden would not differ between Sectors B and Y.
2674	Uncoated Paper and Multiwall Bags	322224	Uncoated Paper and Multiwall Bags Manufacturing	
2675	Die Cut Paper and Paperboard and Cardboard (pasted, lined, laminated, or surface- coated paperboard)	322226	Surface-Coated Paperboard Manufacturing	
	(die cut paper and paperboard office supplies, such as file folders, tabulating cards, and report covers)	322231	Die Cut Paper and Paperboard Office Supplies Manufacturing	
	(except pasted, lined, laminated, or surface-coated paperboard and die- cut paper and paperboard office supplies)	322299	All Other Converted Paper Product Manufacturing	
2676	Sanitary Paper Products	322291	Sanitary Paper Product Manufacturing	
2677	Envelopes	322232	Envelope Manufacturing	
2678	Stationery, Tablets, and Related Products	322233	Stationery, Tablets, and Related Product Manufacturing	
2679	Converted Paper and Paperboard Products, NEC (corrugated paper)	322211	Corrugated and Solid Fiber Box Manufacturing	
	(wallpaper and gift wrap paper)	322222	Coated and Laminated Paper Manufacturing	
	(paper supplies for business machines, such as adding machine tape, and other paper office supplies)	322231	Die Cut Paper and Paperboard Office Supplies Manufacturing	

		(except corrugated paper, wall paper, gift wrap paper, paper supplies for business machines, and other paper office supplies)	322299	All Other Converted Paper Product Manufacturing	
Sector C. Chemical and Allied Products Manufacturing					
Sub-sector	SIC Codes		NAICS Codes		Notes
C2	2812	Alkalies and Chlorine	325181	Alkalies and Chlorine Manufacturing	
	2813	Industrial Gases	325120	Industrial Gas Manufacturing	
	2816	Inorganic Pigments (except bone and lamp black)	325131	Inorganic Dye and Pigment Manufacturing	
		(bone and lamp black)	325182	Carbon Black Manufacturing	
	2819	Industrial Inorganic Chemicals, Not Elsewhere Classified (recovering sulfur from natural gas)	211112	Natural Gas Liquid Extraction	
		(inorganic dyes)	325131	Inorganic Dye and Pigment Manufacturing	
		(other)	325131	All Other Basic Inorganic Chemical Manufacturing	
		(activated carbon and charcoal)	325998	All Other Miscellaneous Chemical Product and Preparation Manufacturing	
		(alumina)	331311	Alumina Refining	Any facility whose primary activity is alumina refining (NAICS 331311) should be regulated under Sector F, but may continue to be regulated under Sector C. Sector C requires sector/subsector specific benchmark monitoring for total aluminum, total iron, and nitrate plus nitrite nitrogen. Sector F applies additional technology-based effluent limits comprised of good housekeeping measures; additional SWPPP requirements; and additional inspection requirements. Regulatory burdens differ between Sectors C and F but determining which sector would be more burdensome would depend on the regulated facility.
	C4	2821	Plastics Materials, Synthetic Resins, and Nonvulcanizable Elastomers	325211	Plastics Material and Resin Manufacturing
2822		Synthetic Rubber	325212	Synthetic Rubber Manufacturing	

	2823	Cellulosic Manmade Fibers	325221	Cellulosic Organic Fiber Manufacturing	
	2824	Manmade Organic Fibers, Except Cellulosic	325222	Noncellulosic Organic Fiber Manufacturing	
C5	2833	Medicinal Chemicals and Botanical Products	325411	Medicinal and Botanical Manufacturing	
	2834	Pharmaceutical Preparations	325412	Pharmaceutical Preparation Manufacturing	
	2835	In Vitro and In Vivo Diagnostic Substances (except in vitro diagnostic)	325412	Pharmaceutical Preparation Manufacturing	
		(In vitro diagnostic substances)	325413	In Vitro Diagnostic Substance Manufacturing	
	2836	Biological Products, Except Diagnostic Substances	325414	Biological Product (except Diagnostic) Manufacturing	
C3	2841	Soaps and Other Detergents, Except Specialty Cleaners	325611	Soap and Other Detergent Manufacturing	
	2842	Specialty Cleaning, Polishing, and Sanitation Preparations	325612	Polish and Other Sanitation Good Manufacturing	
	2843	Surface Active Agents, Finishing Agents, Sulfonated Oils, and Assistants	325613	Surface Active Agent Manufacturing	
	2844	Perfumes, Cosmetics, and Other Toilet Preparations (toothpaste, gel and dentifrice powders)	325611	Soap and Other Detergent Manufacturing	
		(except toothpaste, gel and dentifrice powders)	325620	Toilet Preparation Manufacturing	
C5	2851	Paints, Varnishes, Lacquers, Enamels, and Allied Products	325510	Paint and Coating Manufacturing	
	2861	Gum and Wood Chemicals	325191	Gum and Wood Chemical Manufacturing	
	2865	Cyclic Organic Crudes and Intermediates, and Organic Dyes and Pigments (aromatics)	325110	Petrochemical Manufacturing	
		(organic dyes and pigments)	325132	Synthetic Organic Dye and Pigment Manufacturing	
		(except aromatics and organic dyes and pigments)	325192	Cyclic Crude and Intermediate Manufacturing	
	2869	Industrial Organic Chemicals, Not Elsewhere Classified (aliphatics)	325110	Petrochemical Manufacturing	
		(fluorocarbon gases)	325120	Industrial Gas Manufacturing	
		(carbon bisulfide)	325188	All Other Basic Inorganic Chemical Manufacturing	

		(cyclopropane, diethylcyclohexane, naphthalene sulfonic acid)	325192	Cyclic Crude and Intermediate Manufacturing		
		(ethyl alcohol)	325193	Ethyl Alcohol Manufacturing		
		(except aliphatics, carbon bisulfide, ethyl alcohol, cyclopropane, diethylcyclohexane, naphthalene sulfonic acid, synthetic hydraulic fluids, and fluorocarbon gases)	325199	All Other Basic Organic Chemical Manufacturing		
		(synthetic hydraulic fluids)	325998	All Other Miscellaneous Chemical Product and Preparation Manufacturing		
C1	2873	Nitrogenous Fertilizers	325311	Nitrogenous Fertilizer Manufacturing		
	2874	Phosphatic Fertilizers	325312	Phosphatic Fertilizer Manufacturing		
	2875	Fertilizers, Mixing Only	325314	Fertilizers (Mixing Only) Manufacturing		
	2879	Pesticides and Agricultural Chemicals, NEC	325320	Pesticides and Other Agricultural Chemical Manufacturing		
C5	2891	Adhesives and Sealants	325520	Adhesive Manufacturing		
	2892	Explosives	325920	Explosives Manufacturing		
	2893	Printing Ink	325910	Printing Ink Manufacturing		
	2895	Carbon Black	325182	Carbon Black Manufacturing		
	2899	Chemicals and Chemical Preparations, NEC	(table salt)	311942	Spice and Extract Manufacturing (table salt only)	
			(fatty acids)	325199	All Other Basic Organic Chemical Manufacturing	
			(frit and plastic wood fillers)	325510	Paint and Coating Manufacturing	
			(except frit, plastic wood fillers, fatty acids, and table salt)	325998	All Other Miscellaneous Chemical Product and Preparation Manufacturing	
	2911	Petroleum Refining	324110	Petroleum Refineries		
	3952	Lead Pencils, Crayons, and Artists' Materials (limited to inks and paints, including china painting enamels)	(drawing inks and india ink)	325998	All Other Miscellaneous Chemical Product and Preparation Manufacturing	
			(china painting enamels, platinum paint for burnt wood or leather work, paints for china painting, artist's paints, and artist's watercolors)	339942	Lead Pencil and Art Good Manufacturing	

Sector D. Asphalt Paving and Roofing Materials Manufacturers and Lubricant Manufacturers					
Sub-sector	SIC Codes		NAICS Codes		Notes
D1	2951	Asphalt Paving Mixtures and Blocks	324121	Asphalt Paving Mixture and Block Manufacturing	
	2952	Asphalt Felt and Coatings	324122	Asphalt Shingle and Coating Materials Manufacturing	
D2	2992	Lubricating Oils and Greases	324191	Petroleum Lubricating Oil and Grease Manufacturing	
	2999	Products of Petroleum and Coal, Not Elsewhere Classified	324199	All Other Petroleum and Coal Products Manufacturing	
Sector E. Glass, Clay, Cement, Concrete, and Gypsum Product Manufacturing					
Sub-sector	SIC Codes		NAICS Codes		Notes
E3	3211	Flat Glass	327211	Flat Glass Manufacturing	
	3221	Glass Containers	327213	Glass Container Manufacturing	
	3229	Pressed and Blown Glass and Glassware, Not Elsewhere Classified	327212	Other Pressed and Blown Glass and Glassware Manufacturing	
	3231	Glass Product Manufacturing Made of Purchased Glass	327215	Glass Product Manufacturing Made of Purchased Glass	
	3241	Hydraulic Cement	327310	Cement Manufacturing	
E1	3251	Brick and Structural Clay Tile (except slumped brick)	327121	Brick and Structural Clay Tile Manufacturing	
		(slumped brick)	327331	Concrete Block and Brick Manufacturing	
	3253	Ceramic Wall and Floor Tile	327122	Ceramic Wall and Floor Tile Manufacturing	
	3255	Clay Refractories	327124	Clay Refractory Manufacturing	
	3259	Structural Clay Products, Not Elsewhere Classified	327123	Other Structural Clay Product Manufacturing	
	3261	Vitreous China Plumbing Fixtures and China and Earthenware Fittings and Bathroom Accessories	327111	Vitreous China Plumbing Fixture and China and Earthenware Bathroom Accessories Manufacturing	
	3262	Vitreous China Table and Kitchen Articles	327112	Vitreous China, Fine Earthenware, and Other Pottery Product Manufacturing	
	3263	Fine Earthenware (Whiteware) Table and Kitchen Articles	327112	Vitreous China, Fine Earthenware, and Other Pottery Product Manufacturing	
	3264	Porcelain Electrical Supplies	327113	Porcelain Electrical Supply Manufacturing	
3269	Pottery Products, Not Elsewhere Classified	327112	Vitreous China, Fine Earthenware, and Other Pottery Product Manufacturing		

E2	3271	Concrete Block and Brick	327331	Concrete Block and Brick Manufacturing	
	3272	Concrete Products, Except Block and Brick			
		(concrete pipe)	327332	Concrete Pipe Manufacturing	
		(concrete products, except dry mix concrete and pipe)	327390	Other Concrete Product Manufacturing	
		(dry mixture concrete)	327999	All Other Miscellaneous Nonmetallic Mineral Product Manufacturing	
	3273	Ready-Mixed Concrete	327320	Ready-Mix Concrete Manufacturing	
	3274	Lime Manufacturing			
		Calcium hydroxide (i.e., hydrated lime) manufacturing	327410	Lime Manufacturing	
		Calcium oxide (i.e., quicklime) manufacturing	327410	Lime Manufacturing	
		Dolomite, dead-burned, manufacturing	327410	Lime Manufacturing	
		Hydrated lime (i.e., calcium hydroxide) manufacturing	327410	Lime Manufacturing	
		Quicklime (i.e., calcium oxide) manufacturing	327410	Lime Manufacturing	
		Agricultural lime manufacturing	327410	Lime Manufacturing	
	Dolomitic lime manufacturing	327410	Lime Manufacturing		
3275	Gypsum Products	327420	Gypsum Product Manufacturing		
E3	3281	Cut Stone and Stone Products	327991	Cut Stone and Stone Product Manufacturing	
	3291	Abrasive Products (except steel wool manufacturing)	327910	Abrasive Product Manufacturing	
		(steel wool manufacturing)	332999	All Other Miscellaneous Fabricated Metal Product Manufacturing	Any facility whose primary activity is steel wool manufacturing (NAICS 332999) should be regulated under Sector AA, but may continue to be regulated under Sector E. Sector AA applies additional technology-based effluent limits comprised of good housekeeping measures, spill prevention and response procedures, and spills and leaks; additional SWPPP requirements; and additional inspection requirements. Sector E applies additional technology-based effluent limits comprised of good housekeeping measures, and additional SWPPP requirements.

				Regulatory burden would likely be greater under Sector AA.	
	3292	Asbestos Products (except brake pads and linings)	327999	All Other Miscellaneous Nonmetallic Mineral Product Manufacturing	
		(asbestos brake linings and pads)	336340	Motor Vehicle Brake System Manufacturing	
		(asbestos clutch facings, motor vehicle)	336350	Motor Vehicle Transmission and Power Train Parts Manufacturing	
	3295	Minerals and Earths, Ground or Otherwise Treated (grinding, washing, separating, etc. of kaolin and ball clay)	212324	Kaolin and Ball Clay Mining	
		(grinding, washing, separating, etc. of clay, ceramic, and refractory minerals not elsewhere classified)	212325	Clay and Ceramic and Refractory Minerals Mining	
		(grinding, washing, separating, etc. of chemical and fertilizer minerals, not elsewhere classified)	212393	Other Chemical and Fertilizer Mineral Mining	
		(grinding, washing, separating, etc. of nonmetallic minerals, not elsewhere classified)	212399	All Other Nonmetallic Mineral Mining	
		(except grinding, washing, separating, etc. of nonmetallic minerals)	327992	Ground or Treated Mineral and Earth Manufacturing	
	3296	Mineral Wool	327993	Mineral Wool Manufacturing	
	3297	Nonclay Refractories	327125	Nonclay Refractory Manufacturing	
	3299	Nonmetallic Mineral Products, Not Elsewhere Classified			
		(clay statuary)	327112	Vitreous China, Fine Earthenware, and Other Pottery Product Manufacturing	
		(moldings, ornamental and architectural plaster work, and gypsum statuary)	327420	Gypsum Product Manufacturing	
		(except moldings, ornamental and architectural plaster work, clay statuary, and gypsum statuary)	327999	All Other Miscellaneous Nonmetallic Mineral Product Manufacturing	
Sector F. Primary Metals					
Sub-sector	SIC Codes		NAICS Codes		Notes
F1	3312	Steel Works, Blast Furnaces (Including Coke Ovens), and Rolling Mills			

		(coke oven products [e.g., coke, gases, tars] made in coke oven establishments)	324199	All Other Petroleum and Coal Products Manufacturing	Any facility whose primary activity is manufacturing coke oven products (e.g., coke, gases, tars) made in coke oven establishments should be regulated under Sector D, but may continue to be regulated under Sector F. Sector F requires sector-specific benchmark monitoring requirements for total aluminum and total zinc, Sector D does not require benchmark monitoring from these facilities. Regulatory burden would be greater under Sector F.
		(except coke ovens not integrated with steel mills and hot-rolling purchased steel)	331111	Iron and Steel Mills	
		(hot-rolling purchased steel)	331221	Rolled Steel Shape Manufacturing	
	3313	Electrometallurgical Products, Except Steel	331112	Electrometallurgical Ferroalloy Product Manufacturing	
	3315	Steel Wire Drawing and Steel Nails and Spikes (steel wire drawing)	331222	Steel Wire Drawing	
	3316	Cold-Rolled Steel Sheet, Strip, and Bars	331221	Rolled Steel Shape Manufacturing	
	3317	Steel Pipe and Tubes	331210	Iron and Steel Pipe and Tube Manufacturing from Purchased Steel	
F2	3321	Gray and Ductile Iron Foundries	331511	Iron Foundries	
	3322	Malleable Iron Foundries	331511	Iron Foundries	
	3324	Steel Investment Foundries	331512	Steel Investment Foundries	
	3325	Steel Foundries, NEC	331513	Steel Foundries (except Investment)	
F5	3331	Primary Smelting and Refining of Copper	331411	Primary Smelting and Refining of Copper	
	3334	Primary Production of Aluminum	331312	Primary Aluminum Production	
	3339	Primary Smelting and Refining of Nonferrous Metals, Except Copper and Aluminum	331419	Primary Smelting and Refining of Nonferrous Metal (except Copper and Aluminum)	
	3341	Secondary Smelting and Refining of Nonferrous Metals (aluminum)	331314	Secondary Smelting and Alloying of Aluminum	
		(copper)	331423	Secondary Smelting, Refining and Alloying of Copper	

		(except copper and aluminum)	331492	Secondary Smelting, Refining and Alloying of Nonferrous Metal (except Copper and Aluminum)		
F3	3351	Rolling, Drawing, and Extruding of Copper	331421	Copper Rolling, Drawing, and Extruding		
	3353	Aluminum Sheet, Plate, and Foil	331315	Aluminum Sheet, Plate, and Foil Manufacturing		
	3354	Aluminum Extruded Products	331316	Aluminum Extruded Product Manufacturing		
	3355	Aluminum Rolling and Drawing, Not Elsewhere Classified	331319	Other Aluminum Rolling and Drawing		
	3356	Rolling, Drawing, and Extruding of Nonferrous Metals, Except Copper and Aluminum	331491	Nonferrous Metal (Except Copper and Aluminum) Rolling, Drawing, and Extruding		
	3357	Drawing and Insulating of Nonferrous Wire	(aluminum wire drawing)	331319	Other Aluminum Rolling and Drawing	
			(copper wire drawing)	331422	Copper Wire (except Mechanical) Drawing	
			(wire drawing except copper or aluminum)	331491	Nonferrous Metal (except Copper and Aluminum) Rolling, Drawing, and Extruding	
			(fiber optic cable-insulating only)	335921	Fiber Optic Cable Manufacturing	
			(communication and energy wire, except fiber optic-insulating only)	335929	Other Communication and Energy Wire Manufacturing	
F4	3363	Aluminum Die Castings	331521	Aluminum Die Casting Foundries		
	3364	Nonferrous Die Castings, Except Aluminum	331522	Nonferrous (Except Aluminum) Die Casting Foundries		
	3365	Aluminum Foundries	331524	Aluminum Foundries (Except Die-Casting)		
	3366	Copper Foundries	331525	Copper Foundries (Except Die-Casting)		
	3369	Nonferrous Foundries, Except Copper and Aluminum	331528	Other Nonferrous Foundries (Except Die-Casting)		
F5	3398	Metal Heat Treating	332811	Metal Heat Treating		
	3399	Primary Metal Products, Not Elsewhere Classified (iron ore recovery from open hearth slag)		331111	Iron and Steel Mills	
			(ferrous powder, paste, flakes, etc.)	331221	Rolled Steel Shape Manufacturing	
			(aluminum powder, paste, flakes, etc.)	331314	Secondary Smelting and Alloying of Aluminum	
			(copper powder, paste, flakes, etc.)	331423	Secondary Smelting, Refining, and Alloying of Copper	
			(nonferrous powder, paste, flakes, etc. except copper and aluminum)	331492	Secondary Smelting, Refining, and Alloying of Nonferrous Metal (except Copper and Aluminum)	
			(nonferrous nails, brads, staples, tacks, etc. made from purchased nonferrous wire)	332618	Other Fabricated Wire Product Manufacturing	

Sector G. Metal Mining (Ore Mining and Dressing)					
Sub-sector	SIC Codes		NAICS Codes		Notes
G1	1021	Copper Ores	212234	Copper Ore and Nickel Ore Mining	
G2	1011	Iron Ores	212210	Iron Ore Mining	
	1021	Copper Ores	212234	Copper Ore and Nickel Ore Mining	
	1031	Lead and Zinc Ores	212231	Lead Ore and Zinc Ore Mining	
	1041	Gold Ores	212221	Gold Ore Mining	
	1044	Silver Ores	212222	Silver Ore Mining	
	1061	Ferroalloy Ores, Except Vanadium (nickel) (other ferroalloys except nickel)	212234	Copper Ore and Nickel Ore Mining	
			212299	All Other Metal Ore Mining	
	1081	Metal Mining Services (except site preparation and related activities performed on a contract or fee basis and geophysical surveying and mapping) (site preparation and related construction activities on a contract basis)	213114	Support Activities for Metal Mining	
			238910	Site Preparation Contractors	
1094	Uranium-Radium-Vanadium Ores	212291	Uranium-Radium-Vanadium Ore Mining		
1099	Miscellaneous Metal Ores, Not Elsewhere Classified	212299	All Other Metal Ore Mining		
Sector H. Coal Mines and Coal Mining-Related Facilities					
Sub-sector	SIC Codes		NAICS Codes		Notes
H1	1221	Bituminous Coal and Lignite Surface Mining	212111	Bituminous Coal and Lignite Surface Mining	
	1222	Bituminous Coal Underground Mining	212112	Bituminous Coal Underground Mining	
	1231	Anthracite Mining	212113	Anthracite Mining	
	1241	Coal Mining Services (except site preparation and related construction activities on a contract basis) (site preparation and related construction activities on a contract basis)	213113	Support Activities for Coal Mining	
			238910	Site Preparation Contractors	

Sector I. Oil and Gas Extraction					
Sub-sector	SIC Codes		NAICS Codes		Notes
I1	1311	Crude Petroleum and Natural Gas	211111	Crude Petroleum and Natural Gas Extraction	
	1321	Natural Gas Liquids	211112	Natural Gas Liquid Extraction	
	1381	Drilling Oil and Gas Wells	213111	Drilling Oil and Gas Wells	
	1382	Oil and Gas Field Exploration Services	213112	Support Activities for Oil and Gas Operations	
	1389	Oil and Gas Field Services, Not Elsewhere Classified (except construction of field gathering lines, site preparation and related construction activities performed on a contract or fee basis)	213112	Support Activities for Oil and Gas Operations	
		(construction of field gathering lines on a contract or fee basis)	237120	Oil and Gas Pipeline and Related Structures Construction	
(site preparation and related construction activities on a contract basis)		238910	Site Preparation Contractors		
Sector J. Mineral Mining and Dressing					
Sub-sector	SIC Codes		NAICS Codes		Notes
J2	1411	Dimension Stone	212311	Dimension Stone Mining and Quarrying	
	1422	Crushed and Broken Limestone	212312	Crushed and Broken Limestone Mining and Quarrying	
	1423	Crushed and Broken Granite	212313	Crushed and Broken Granite Mining and Quarrying	
	1429	Crushed and Broken Stone, Not Elsewhere Classified	212319	Other Crushed and Broken Stone Mining and Quarrying	
J1	1442	Construction Sand and Gravel	212321	Construction Sand and Gravel Mining	
	1446	Industrial Sand	212322	Industrial Sand Mining	
J3	1455	Kaolin and Ball Clay	212324	Kaolin and Ball Clay Mining	
	1459	Clay, Ceramic, and Refractory Minerals, Not Elsewhere Classified	212325	Clay, Ceramic, and Refractory Minerals Mining	
	1474	Potash, Soda, and Borate Minerals	212391	Potash, Soda, and Borate Mineral Mining	
	1475	Phosphate Rock	212392	Phosphate Rock Mining	
	1479	Chemical and Fertilizer Mineral Mining, Not Elsewhere Classified	212393	Other Chemical and Fertilizer Mineral Mining	
J2	1481	Nonmetallic Minerals Services, Except Fuels			

		(except geophysical surveying and mapping and site preparation and related construction activities performed on a contract or fee basis)	213115	Support Activities for Nonmetallic Minerals (except Fuels)	
		(site preparation and related construction activities on a contract basis)	238910	Site Preparation Contractors	
	1499	Miscellaneous Nonmetallic Minerals, Except Fuels			
		(except bituminous limestone and bituminous sandstone)	212399	All Other Nonmetallic Mineral Mining	
Sector K. Hazardous Waste Treatment, Storage or Disposal Facilities					
Sub-Sector	Activity Code	Narrative Description		Notes	
K1	HZ	<ul style="list-style-type: none"> Hazardous waste treatment Hazardous waste storage Hazardous waste disposal Hazardous waste facilities operating under interim status Hazardous waste facilities operating under a permit under Subtitle C of RCRA 		HZ is the Activity Code (i.e., non-SIC / non-NAICS designation) for this Sector. It potentially applies to any facility regardless of SIC / NAICS Code, in addition to these specifically related to hazardous waste: <ul style="list-style-type: none"> SIC 4953 Refuse Systems (hazardous waste treatment and disposal); NAICS 562211 Hazardous Waste Treatment and Disposal; NAICS 562112 Hazardous Waste Collection (hazardous waste transfer stations). 	
Sector L. Landfills and Land Application Sites					
Sub-Sector	Activity Code	Narrative Description		Notes	
L1	LF	<ul style="list-style-type: none"> All Landfill, Land Application Sites and Open Dumps 		LF is the Activity Code (i.e., non-SIC and non-NAICS designation) for this Sector. It may apply to any facility / SIC Code / NAICS Code, in addition to these specifically related to landfills and landfill application sites: <ul style="list-style-type: none"> SIC 4953 Refuse Systems (solid waste landfills); NAICS 562212 Solid Waste Landfill. Industrial waste is waste from any of the facilities covered by the MSGP (also described in 40 CFR 122.26(b)(14)).	
L2	LF	All Landfill, Land Application Sites and Open Dumps, except Municipal Solid Waste Landfill (MSWLF) Areas Closed in Accordance with 40 CFR 258.			
Sector M. Automobile Salvage Yards					
Sub-sector	SIC Codes		NAICS Codes		Notes
M1	5015	Motor Vehicle Parts, Used (merchant wholesalers except those selling via retail method)	423140	Motor Vehicle Parts (Used) Merchant Wholesalers	

Sector N. Scrap Recycling Facilities						
Sub-sector	SIC Codes		NAICS Codes		Notes	
N1	5093	Scrap and Waste Materials (merchant wholesalers except Source-Separated Recycling)	423930	Recyclable Material Merchant Wholesalers		
N2	5093	Scrap and Waste Materials (Source-Separated Recycling)	423930	Recyclable Material Merchant Wholesalers		
Sector O. Steam Electric Generating Facilities						
Sub-Sector	Activity Code	Narrative Description		Notes		
O1	SE	<ul style="list-style-type: none"> steam electric power generation using coal, including coal handling areas steam electric power generation using natural gas steam electric power generation using oil steam electric power generation using nuclear energy steam electric power generation using any other fuel to produce a steam source coal pile runoff (includes effluent limitations established by 40 CFR 423) dual fuel co-generation (i.e., steam generation using fossil fuel to augment a heat-capture generation system) 		SE is the Activity Code (i.e., non-SIC and non-NAICS designation) for this Sector. It may apply to any facility / SIC Code / NAICS Code, in addition to these specifically related to steam electric generation: <ul style="list-style-type: none"> SIC 4911 Electric Services (fossil fuel power generation, nuclear electric power generation & other electric power generation) NAICS 221112 Fossil Fuel Electric Power Generation NAICS 221113 Nuclear Electric Power Generation 		
Sector P. Land Transportation						
Sub-sector	SIC Codes		NAICS Codes		Notes	
P1	4011	Railroads, Line-Haul Operating	482111	Line-Haul Railroads		
	4013	Railroad Switching and Terminal Establishments				
		(short line railroads)	482112	Short Line Railroads		
		(except short line railroads)	488210	Support Activities for Rail Transportation		
	4111	Local and Suburban Transit				
		(mixed mode)	485111	Mixed Mode Transit Systems		
		(commuter rail)	485112	Commuter Rail Systems		
(bus and motor vehicle)		485113	Bus and Other Motor Vehicle Transit Systems			
(except mixed mode, commuter rail, airport transportation service, and bus and motor vehicle)		485119	Other Urban Transit Systems			
(airport transportation service)	485999	All Other Transit and Ground Passenger Transportation				
4119	Local Passenger Transportation, Not Elsewhere Classified					

	(limousine rental with driver and automobile rental with driver)	485320	Limousine Service	
	(employee transportation)	485410	School and Employee Bus Transportation	
	(special needs transportation)	485991	Special Needs Transportation	
	(hearse rental with driver and carpool and vanpool operation)	485999	All Other Transit and Ground Passenger Transportation	
	(sightseeing buses and cable and cog railways, except scenic)	487110	Scenic and Sightseeing Transportation, Land	
	(land ambulance)	621910	Ambulance Services	
4121	Taxicabs	485310	Taxi Service	
4131	Intercity and Rural Bus Transportation	485210	Interurban and Rural Bus Transportation	
4141	Local Bus Charter Service	485510	Charter Bus Industry	
4142	Bus Charter Service, Except Local	485510	Charter Bus Industry	
4151	School Buses	485410	School and Employee Bus Transportation	
4173	Terminal and Service Facilities for Motor Vehicle Passenger Transportation	488490	Other Support Activities for Road Transportation	
4212	Local Trucking Without Storage			
	(general freight)	484110	General Freight Trucking, Local	
	(household goods moving)	484210	Used Household and Office Goods Moving	
	(specialized freight)	484220	Specialized Freight (except Used Goods) Trucking, Local	
	(solid waste collection without disposal)	562111	Solid Waste Collection	
	(hazardous waste collection without disposal)	562112	Hazardous Waste Collection	
	(other waste collection without disposal)	562119	Other Waste Collection	
4213	Trucking, Except Local			
	(general freight, truckload)	484121	General Freight Trucking, Long-Distance, Truckload	
	(general freight, less than truckload)	484122	General Freight Trucking, Long-Distance, Less Than Truckload	
	(household goods moving)	484210	Used Household and Office Goods Moving	
	(specialized freight)	484230	Specialized Freight (except Used Goods) Trucking, Long-Distance	
4214	Local Trucking With Storage			
	(general freight)	484110	General Freight Trucking, Local	
	(household goods moving)	484210	Used Household and Office Goods Moving	
	(specialized freight)	484220	Specialized Freight (except Used Goods) Trucking, Local	

4215	Courier Services, Except by Air (hub and spoke intercity delivery)	492110	Couriers		
	(local delivery)	492210	Local Messengers and local Delivery		
4226	Special Warehousing and Storage, Not Elsewhere Classified (warehousing in foreign trade zones)	493110	General Warehousing and Storage		
	(fur storage)	493120	Refrigerated Warehousing and Storage		
	(except fur storage and warehousing in foreign trade zones)	493190	Other Warehousing and Storage		
4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	488490	Other Support Activities for Road Transportation		
4311	United States Postal Service	491110	Postal Service		
5171	Petroleum Bulk Stations and Terminals (except petroleum sold via retail method)	424710	Petroleum Bulk Stations and Terminals		
	(heating oil sold to final consumer)	454311	Heating Oil Dealers		
	(LP gas sold to final consumer)	454312	Liquefied Petroleum Gas (Bottled Gas) Dealers		
Sector Q. Water Transportation					
Sub-sector	SIC Codes	NAICS Codes		Notes	
Q1	4412	Deep Sea Foreign Transportation of Freight	483111	Deep Sea Freight Transportation	
	4424	Deep Sea Domestic Transportation of Freight	483113	Coastal and Great Lakes Freight Transportation	
	4432	Freight Transportation on the Great Lakes - St. Lawrence Seaway	483113	Coastal and Great Lakes Freight Transportation	
	4449	Water Transportation of Freight, Not Elsewhere Classified	483211	Inland Water Freight Transportation	
	4481	Deep Sea Transportation of Passengers, Except by Ferry (deep sea activities)	483112	Deep Sea Passenger Transportation	
		(coastal activities)	483114	Coastal and Great Lakes Passenger Transportation	
	4482	Ferries (coastal and Great Lakes)	483114	Coastal and Great Lakes Passenger Transportation	
		(inland)	483212	Inland Water Passenger Transportation	

4489	Water Transportation of Passengers, Not Elsewhere Classified (water taxis)	483212	Inland Water Passenger Transportation	
	(airboats, excursion boats, and sightseeing boats)	487210	Scenic and Sightseeing Transportation, Water	
4491	Marine Cargo Handling (dock and pier operations)	488310	Port and Harbor Operations	
	(all but dock and pier operations)	488320	Marine Cargo Handling	
4492	Towing and Tugboat Services	488330	Navigational Services to Shipping	
4493	Marinas	713930	Marinas	
4499	Water Transportation Services, Not Elsewhere Classified (lighterage)	483211	Inland Water Freight Transportation	
	(lighthouse and canal operations)	488310	Port and Harbor Operations	
	(piloting vessels in and out of harbors and marine salvage)	488330	Navigational Services to Shipping	
	(all but lighthouse operations, piloting vessels in and out of harbors, boat and ship rental, marine salvage, lighterage, marine surveyor services, and canal operations)	488390	Other Support Activities for Water Transportation	
	(boat and ship rental, commercial)	532411	Commercial Air, Rail, and Water Transportation Equipment Rental and Leasing	
Sector R. Ship and Boat Building and Repair Yards				
Sub-sector	SIC Codes	NAICS Codes		Notes
R1	3731 Ship Building and Repairing (except repairs in floating drydocks) (repair services provided by floating drydocks)	336611	Ship Building and Repairing	
		488390	Other Support Activities for Water Transportation (includes ship scaling facilities)	
	3732 Boat Building and Repairing (boat building) (pleasure boat repair and maintenance services without retailing new boats)	336612	Boat Building	
		811490	Other Personal and Household Goods Repair and Maintenance	
	(ship scaling)	488390	Other Support Activities for Water Transportation (drydocks, floating [i.e., routine repair and maintenance of ships]; other support activities for water transportation; ship dismantling at floating drydock; ship scaling services not done at a shipyard)	
(motorboat [i.e., inboard and outboard] repair and maintenance)	811490	Other Personal and Household Goods Repair and Maintenance		

services; outboard motor repair shops)

Sector S. Air Transportation Facilities

Sub-sector	SIC Codes	NAICS Codes	Notes	
S1	4512 Air Transportation, Scheduled (passenger)	481111	Scheduled Passenger Air Transportation	
		481112	Scheduled Freight Air Transportation	
	4513	Air Courier Services	492110	Couriers
	4522 Air Transportation, Nonscheduled (passenger)	481211	Nonscheduled Chartered Passenger Air Transportation	
		481212	Nonscheduled Chartered Freight Air Transportation	
		481219	Other Nonscheduled Air Transportation (using general purpose aircraft for a variety of passenger, freight, courier, and other uses)	
		487990	Scenic and Sightseeing Transportation, Other (sightseeing planes)	
		621910	Ambulance Services (air ambulance)	
	4581	Airports, Flying Fields, and Airport Terminal Services (air freight handling at airports, hangar operations, airport terminal services, aircraft storage, airports, and flying fields)	488119	Other Airport Operations
		(aircraft servicing and repairing)	488190	Other Support Activities for Air Transportation

Sector T. Treatment Works					
Sub-sector	Activity Code	Narrative Description			Notes
T1	TW	<ul style="list-style-type: none"> treatment works with a design flow of 1.0 MGD or more treating domestic sewage or any other sewage sludge; wastewater treatment devices or system used by the treatment works for the storage, treatment, recycling and reclamation of municipal or domestic sewage; land located within the confines of the treatment works that is dedicated to the disposal of sewage sludge; treatment works required to have an approved pretreatment program under 40 CFR Part 403 			TW is the Activity Code (i.e., non-SIC and non-NAICS designation) for this Sector. It may apply to any facility / SIC Code / NAICS Code, in addition to these specifically related to treatment works: <ul style="list-style-type: none"> SIC 4952 Sewerage Systems NAICS 221320 Sewage Treatment Facilities
Sector U. Food and Kindred Products					
Sub-sector	SIC Codes		NAICS Codes		Notes
U3	2011	Meat Packing Plants	311611	Animal (except Poultry) Slaughtering	
	2013	Sausages and Other Prepared Meat Products	311612	Meat Processed from Carcasses	
		(except lard made from purchased materials)			
		(lard made from purchased materials)	311613	Rendering and Meat Byproduct Processing	
	2015	Poultry Slaughtering and Processing (poultry slaughtering and processing)	311615	Poultry Processing	
		(egg processing)	311999	All Other Miscellaneous Food Manufacturing	
	2021	Creamery Butter	311512	Creamery Butter Manufacturing	
	2022	Natural, Processed, and Imitation Cheese	311513	Cheese Manufacturing	
	2023	Dry, Condensed and Evaporated Dairy Products (liquid non-dairy creamer)	311511	Fluid Milk Manufacturing	
		(except liquid non-dairy creamer)	311514	Dry, Condensed, and Evaporated Dairy Product Manufacturing	
	2024	Ice Cream and Frozen Deserts	311520	Ice Cream and Frozen Desert Manufacturing	
	2026	Fluid Milk (except ultra-high temperature)	311511	Fluid Milk Manufacturing	
		(ultra-high temperature)	311514	Dry, Condensed, and Evaporated Dairy Product Manufacturing	
	2032	Canned Specialties (except canned puddings)	311422	Specialty Canning	
(canned puddings)		311999	All Other Miscellaneous Food Manufacturing		
2033	Canned Fruits, Vegetables, Preserves, Jams, and Jellies	311421	Fruit and Vegetable Canning		

	2034	Dried and Dehydrated Fruits, Vegetables and Soup Mixes (vegetable flour)	311211	Flour Milling	
		(except vegetable flour and soup mixes made from purchased dried and dehydrated ingredients)	311423	Dried and Dehydrated Food Manufacturing	
		(soup mixes made from purchased dehydrated ingredients)	311999	All Other Miscellaneous Food Manufacturing	
	2035	Pickled Fruits and Vegetables, Vegetable Sauces and Seasonings, and Salad Dressings (pickled fruits and vegetables)	311421	Fruit and Vegetable Canning	
		(sauces and salad dressings)	311941	Mayonnaise, Dressing, and Other Prepared Sauce Manufacturing	
	2037	Frozen Fruits, Fruit Juices, and Vegetables	311411	Frozen Fruit, Juice, and Vegetable Manufacturing	
	2038	Frozen Specialties, Not Elsewhere Classified	311412	Frozen Specialty Food Manufacturing	
	U1	2041	Flour and Other Grain Mill Products	311211	Flour Milling
2043		Cereal Breakfast Foods (cereal breakfast foods and related preparations except grain based coffee substitutes)	311230	Breakfast Cereal Manufacturing	
		(grain based coffee substitutes)	311920	Coffee and Tea Manufacturing	
2044		Rice Milling	311212	Rice Milling	
2045		Prepared Flour Mixes and Doughs	311822	Flour Mixes and Dough Manufacturing from Purchased Flour	
2046		Wet Corn Milling (except refining purchased corn oil)	311221	Wet Corn Milling	
		(refining purchased corn oil)	311225	Fats and Oils Refining and Blending	
2047		Dog and Cat Food	311111	Dog and Cat Food Manufacturing	
2048	Prepared Feeds and Feed Ingredients for Animals and Fowls, Except Dogs and Cats (except slaughtering animals for pet food)	311119	Other Animal Food Manufacturing		
	(slaughtering animals for pet food)	311611	Animal (except Poultry) Slaughtering		
U3	2051	Bread and Other Bakery Products, Except Cookies and Crackers	311812	Commercial Bakeries	
	2052	Cookies and Crackers (unleavened bread and soft pretzels)	311812	Commercial Bakeries	
		(except unleavened bread and pretzels)	311821	Cookie and Cracker Manufacturing	

		(hard pretzels and snack pretzels, except soft)	311919	Other Snack Food Manufacturing (pretzels, except soft)	
2053		Frozen Bakery Products, Except Bread	311813	Frozen Cakes, Pies, and Other Pastries Manufacturing	
2061		Cane Sugar, Except Refining	311311	Sugarcane Mills	
2062		Cane Sugar Refining	311312	Cane Sugar Refining	
2063		Beet Sugar	311313	Beet Sugar Manufacturing	
2064		Candy and Other Confectionery Products			
		(chocolate confectionery)	311330	Confectionery Manufacturing from Purchased Chocolate	
		(nonchocolate confectionery)	311340	Nonchocolate Confectionery Manufacturing	
2066		Chocolate and Cocoa Products (except chocolate products, made from purchased chocolate)	311320	Chocolate and Confectionery Manufacturing from Cacao Beans	
		(chocolate products made from purchased chocolate)	311330	Confectionery Manufacturing from Purchased Chocolate	
2067		Chewing Gum	311340	Nonchocolate Confectionery Manufacturing	
2068		Salted and Roasted Nuts and Seeds	311911	Roasted Nuts and Peanut Butter Manufacturing	
U2	2074	Cottonseed Oil Mills (cottonseed processing)	311223	Other Oilseed Processing	
		(processing purchased cottonseed oil)	311225	Fats and Oils Refining and Blending	
	2075	Soybean Oil Mills (soybean processing, except edible soybean oil)	311222	Soybean Processing	
		(processing purchased soybean oil)	311225	Fats and Oils Refining and Blending	
	2076	Vegetable Oil Mills, Except Corn, Cottonseed, and Soybean (oilseed processing)	311223	Other Oilseed Processing	
		(processing purchased vegetable and oilseed oils)	311225	Fats and Oils Refining and Blending	
	2077	Animal and Marine Fats and Oils (animal fats and oils)	311613	Rendering and Meat Byproduct Processing	
		(canned marine fats and oils)	311711	Seafood Canning	
		(fresh and frozen marine fats and oils)	311712	Fresh and Frozen Seafood Processing	
	2079	Shortening, Table Oils, Margarine, and Other Edible Fats and Oils, Not Elsewhere Classified (processing soybean oil into edible cooking oils from soybeans crushed in the same establishment)	311222	Soybean Processing	

		(processing vegetable oils, except soybean, into edible cooking oils from oilseeds and vegetables crushed in the same establishment)	311223	Other Oilseed Processing	
		(except processing vegetable and soybean oils into edible oils from oilseeds and vegetables crushed in the same establishment)	311225	Fats and Oils Refining and Blending	
U3	2082	Malt Beverages			
		(malt extract)	311942	Spice and Extract Manufacturing	
		(except malt extract)	312120	Breweries	
	2083	Malt	311213	Malt Manufacturing	
	2084	Wines, Brandy and Brandy Spirits	312130	Wineries	
	2085	Distilled and Blended Liquors			
		(apple jack)	312130	Wineries	
		(except apple jack)	312140	Distilleries	
	2086	Bottled and Canned Soft Drinks and Carbonated Water			
		(except bottled water)	312111	Soft Drink Manufacturing	
		(bottled water)	312112	Bottled Water Manufacturing	
	2087	Flavoring Extracts and Flavoring Syrups, Not Elsewhere Classified			
		(coffee flavoring and syrups)	311920	Coffee and Tea Manufacturing	
		(flavoring syrups and concentrates except coffee)	311930	Flavoring Syrup and Concentrate Manufacturing	
		(flavoring extracts and natural food colorings)	311942	Spice and Extract Manufacturing	
		(powered drink mix)	311999	All Other Miscellaneous Food Manufacturing	
	2091	Canned and Cured Fish and Seafoods	311711	Seafood Canning	
2092	Prepared Fresh or Frozen Fish and Seafoods	311712	Fresh and Frozen Seafood Processing		
2095	Roasted Coffee	311920	Coffee and Tea Manufacturing		
2096	Potato Chips, Corn Chips, and Similar Snacks	311919	Other Snack Food Manufacturing		
2097	Manufactured Ice	312113	Ice manufacturing		
2098	Macaroni, Spaghetti, Vermicelli, and Noodles	311823	Dry Pasta Manufacturing		
2099	Food Preparations, Not Elsewhere Classified				
	(rice, uncooked and packaged with other ingredients made in rice mills)	311212	Rice Milling		
	(marshmallow creme)	311340	Nonchocolate Confectionery Manufacturing		

		(bouillon and potatoes dried and packaged with other ingredients produced in dehydrating plants)	311423	Dried and Dehydrated Food Manufacturing	
		(dry pasta packaged with other ingredients made in dry pasta plants)	311823	Dry Pasta Manufacturing	
		(tortillas)	311830	Tortilla Manufacturing	
		(peanut butter)	311911	Roasted Nuts and Peanut Butter Manufacturing	
		(tea)	311920	Coffee and Tea Manufacturing	
		(vinegar, prepared dip)	311941	Mayonnaise, Dressing, and Other Prepared Sauce Manufacturing	
		(spices, dry dip mix, dry salad dressing mix, and seasoning mix)	311942	Spice and Extract Manufacturing	
		(perishable prepared food)	311991	Perishable Prepared Food Manufacturing	
		(except bouillon, marshmallow creme, spices, peanut butter, perishable prepared foods, tortillas, tea and tea extracts, dry dip mix, prepared dips, dry salad dressing mix, seasoning mix, dried potatoes, pasta, and rice mixed with other ingredients in mills or dehydrating plants, reducing maple sap to maple syrup, wool grease, and vinegar)	311999	All Other Miscellaneous Food Manufacturing	
	2111	Cigarettes	312221	Cigarette Manufacturing	
	2121	Cigars	312229	Other Tobacco Product Manufacturing	
	2131	Chewing and Smoking Tobacco and Snuff	312229	Other Tobacco Product Manufacturing	
	2141	Tobacco Stemming and Redrying (stemming and redrying tobacco)	312210	Tobacco Stemming and Redrying	
		(reconstituted tobacco)	312229	Other Tobacco Product Manufacturing	
Sector V. Textile Mills, Apparel, and Other Fabric Product Manufacturing					
Sub-sector	SIC Codes		NAICS Codes		Notes
V1	2211	Broadwoven Fabric Mills, Cotton	313210	Broadwoven Fabric Mills	
	2221	Broadwoven Fabric Mills, Manmade Fiber and Silk	313210	Broadwoven Fabric Mills	
	2231	Broadwoven Fabric Mills, Wool (Including Dyeing and Finishing) (except finishing wool fabric without weaving wool fabric)	313210	Broadwoven Fabric Mills 2231	
		(wool broadwoven fabric finishing without weaving fabric)	313311	Broadwoven Fabric Finishing Mills	

	(wool fabric, except broadwoven, finishing without weaving fabric)	313312	Textile and Fabric Finishing (except Broadwoven Fabric) Mills	
2241	Narrow Fabric and Other Smallwares Mills: Cotton, Wool, Silk and Manmade Fiber	313221	Narrow Fabric Mills	
2251	Women's Full-Length and Knee-Length Hosiery, Except Socks (dyeing and finishing sheer hosiery without knitting sheer hosiery)	313312	Textile and Fabric Finishing (except Broadwoven Fabric) Mills	
	(except dyeing and finishing sheer hosiery without knitting sheer hosiery)	315111	Sheer Hosiery Mills	
2252	Hosiery, Not Elsewhere Classified (dyeing and finishing hosiery, except sheer, without knitting hosiery)	313312	Textile and Fabric Finishing (except Broadwoven Fabric) Mills	
	(girls' full length and knee length sheer hosiery)	315111	Sheer Hosiery Mills	
	(except girls' full-length and knee-length sheer hosiery and dyeing and finishing hosiery without knitting hosiery)	315119	Other Hosiery and Sock Mills	
2253	Knit Outerwear Mills (dyeing and finishing knit outerwear without knitting outerwear)	313312	Textile and Fabric Finishing (except Broadwoven Fabric) Mills	
	(except bath and lounging robes and dyeing and finish without knitting garments)	315191	Outerwear Knitting Mills	
	(knitting bath or lounging robes)	315192	Underwear and Nightwear Knitting Mills	
2254	Knit Underwear and Nightwear Mills (dyeing and finishing underwear and nightwear without knitting garments)	313312	Textile and Fabric Finishing (except Broadwoven Fabric) Mills	
	(except dyeing and finishing underwear and nightwear without knitting garments)	315192	Underwear and Nightwear Knitting Mills	
2257	Weft Knit Fabric Mills (except finishing without knitting weft fabric)	313241	Weft Knit Fabric Mills	
	(finishing weft fabric without knitting weft fabric)	313312	Textile and Fabric Finishing (except Broadwoven Fabric) Mills	
2258	Weft Knit Fabric Mills (except finishing without knitting weft fabric)	313241	Weft Knit Fabric Mills	
	(finishing weft fabric without knitting weft fabric)	313312	Textile and Fabric Finishing (except Broadwoven Fabric) Mills	

2259	Knitting Mills, Not Elsewhere Classified (knitting weft fabric and fabricating textile products, such as bedspreads, curtains, or towels)	313241	Weft Knit Fabric Mills	
	(knitting lace or warp fabric and fabricating textile products, such as bedspreads, curtains, or towels)	313249	Other Knit Fabric and Lace Mills	
	(dyeing and finishing knit gloves and mittens without knitting gloves or mittens)	313312	Textile and Fabric Finishing (except Broadwoven Fabric) Mills	
	(knitting gloves and mittens)	315191	Outerwear Knitting Mills	
	(knitting girdles and allied foundation garments)	315192	Underwear and Nightwear Knitting Mills	
2261	Finishers of Broadwoven Fabrics of Cotton	313311	Broadwoven Fabric Finishing Mills	
2262	Finishers of Broadwoven Fabrics of Manmade Fibers and Silk	313311	Broadwoven Fabric Finishing Mills	
2269	Finishers of Textiles, Not Elsewhere Classified (linen fabric finishing)	313311	Broadwoven Fabric Finishing Mills	
	(except linen fabric finishing)	313312	Textile and Fabric Finishing (except Broadwoven Fabric) Mills	
2273	Carpets and Rugs	314110	Carpet and Rug Mills	
2281	Yarn Spinning Mills	313111	Yarn Spinning Mills	
2282	Yarn Texturizing, Throwing, Twisting and Spinning Mills	313112	Yarn Texturizing, Throwing, Twisting Mills	
2284	Thread Mills (except finishing thread without manufacturing thread)	313113	Thread Mills	
	(finishing thread without manufacturing thread)	313312	Textile and Fabric Finishing (except Broadwoven Fabric) Mills	
2295	Coated Fabrics, Not Rubberized	313320	Fabric Coating Mills	
2296	Tire Cord and Fabrics	314992	Tire Cord and Tire fabric Mills	
2297	Nonwoven Fabrics	313230	Nonwoven Fabric Mills	
2298	Cordage and Twine (hemp rope made in spinning mills)	313111	Yarn Spinning Mills	
	(except hemp rope made in spinning mills)	314991	Rope, Cordage, and Twine Mills	
2299	Textile Goods, Not Elsewhere Classified			

	(hemp bags made in spinning mills, & spinning yarn of flax, hemp, jute, and ramie)	313111	Yarn Spinning Mills	
	(manufacturing thread of hemp, linen, and ramie)	313113	Thread Mills	
	(broadwoven fabrics of jute, linen, hemp, and ramie and hand woven fabrics)	313210	Broadwoven Fabric Mills	
	(narrow woven fabric of jute, linen, hemp, and ramie)	313221	Narrow Fabric Mills	
	(nonwoven felt)	313230	Nonwoven Fabric Mills	
	(finishing hard fiber thread and yarn without manufacturing thread or yarn)	313312	Textile and Fabric Finishing (except Broadwoven Fabric) Mills	
	(manufacturing other textile products)	314999	All Other Miscellaneous Textile Product Mills	
2311	Men's and Boys' Suits, Coats, and Overcoats			
	(contractors)	315211	Men's and Boys' Cut and Sew Apparel Contractors	
	(except contractors)	315222	Men's and Boys' Cut and Sew Suit, Coat and Overcoat Manufacturing	
2321	Men's and Boys' Shirts, Except Work Shirts			
	(contractors)	315211	Men's and Boys' Cut and Sew Apparel Contractors	
	(except contractors)	315223	Men's and Boys' Cut and Sew Shirt (except Work Shirt) Manufacturing	
2322	Men's and Boys' Underwear and Nightwear			
	(contractors)	315211	Men's and Boys' Cut and Sew Apparel Contractors	
	(except contractors)	315221	Men's and Boys' Cut and Sew Underwear and Nightwear Manufacturing	
2323	Men's and Boys' Neckwear			
	(contractors)	315211	Men's and Boys' Cut and Sew Apparel Contractors	
	(except contractors)	315993	Men's and Boys' Neckwear Manufacturing	
2325	Men's and Boys' Separate Trousers and Slacks			
	(contractors)	315211	Men's and Boys' Cut and Sew Apparel Contractors	
	(except contractors)	315224	Men's and Boys' Cut and Sew Trouser, Slack and Jean Manufacturing	

2326	Men's and Boys' Work Clothing (contractors)	315211	Men's and Boys' Cut and Sew Apparel Contractors	
	(except contractors)	315225	Men's and Boys' Cut and Sew Work Clothing Manufacturing	
2329	Men's and Boys' Clothing, Not Elsewhere Classified (contractors)	315211	Men's and Boys' Cut and Sew Apparel Contractors	
	(except team athletic uniforms and contractors)	315228	Men's and Boys' Cut and Sew Other Outerwear Manufacturing	
	(team athletic uniforms except contractors)	315299	All Other Cut and Sew Apparel Manufacturing	
2331	Women's, Misses', and Juniors' Blouses and Shirts (contractors)	315212	Women's, Girls', and Infants' Cut and Sew Apparel Contractors	
	(except contractors)	315232	Women's and Girls' Cut and Sew Blouse and Shirt Manufacturing	
2335	Women's, Misses', and Juniors' Dresses (contractors)	315212	Women's, Girls', and Infants' Cut and Sew Apparel Contractors	
	(except contractors)	315233	Women's and Girls' Cut and Sew Dress Manufacturing	
2337	Women's, Misses', and Juniors' Suits, Skirts, and Coats (contractors)	315212	Women's, Girls', and Infants' Cut and Sew Apparel Contractors	
	(except contractors)	315234	Women's and Girls' Cut and Sew Suit, Coat, Tailored Jacket, and Skirt Manufacturing	
2339	Women's, Misses', and Juniors' Outerwear, Not Elsewhere Classified (contractors)	315212	Women's, Girls', and Infants' Cut and Sew Apparel Contractors	
	(except team athletic uniforms, scarves, and contractors)	315239	Women's and Girls' Cut and Sew Other Outerwear Manufacturing	
	(team athletic uniforms except contractors)	315299	All Other Cut and Sew Apparel Manufacturing	
	(scarves except contractors)	315999	Other Apparel Accessories and Other Apparel Manufacturing	

2341	Women's, Misses', Children's, and Infants' Underwear and Nightwear (boys' contractors)	315211	Men's and Boys' Cut and Sew Apparel Contractors	
	(women's, girls', and infants' contractors)	315212	Women's, Girls', and Infants' Cut and Sew Apparel Contractors	
	(boys' except contractors)	315221	Men's and Boys' Cut and Sew Underwear and Nightwear Manufacturing	
	(women and girls' except contractors)	315231	Women's and Girls' Cut and Sew Lingerie, Loungewear, and Nightwear Manufacturing	
	(infants' except contractors)	315291	Infants' Cut and Sew Apparel Manufacturing	
2342	Brassieres, Girdles, and Allied Garments (contractors)	315212	Women's, Girls', and Infants' Cut and Sew Apparel Contractors	
	(except contractors)	315231	Women's and Girls' Cut and Sew Lingerie, Loungewear, and Nightwear Manufacturing	
2353	Hats, Caps, and Millinery (men's and boys' contractors)	315211	Men's and Boys' Cut and Sew Apparel Contractors	
	(women's, girls', and infants' contractors)	315212	Women's, Girls', and Infants' Cut and Sew Apparel Contractors	
	(except contractors)	315991	Hat, Cap, and Millinery Manufacturing	
2361	Girls', Children's, and Infants' Dresses, Blouses, and Shirts (boys' contractors)	315211	Men's and Boys' Cut and Sew Apparel Contractors	
	(girls' and infants' contractors)	315212	Women's, Girls', and Infants' Cut and Sew Apparel Contractors	
	(boys' shirts except contractors)	315223	Men's and Boys' Cut and Sew Shirt (except Work Shirt) Manufacturing	
	(girls' blouses and shirts except contractors)	315232	Women's and Girls' Cut and Sew Blouse and Shirt Manufacturing	
	(girls' dresses except contractors)	315233	Women's and Girls' Cut and Sew Dress Manufacturing	
	(infants' except contractors)	315291	Infants' Cut and Sew Apparel Manufacturing	
2369	Girls', Children's, and Infants' Outerwear, Not Elsewhere Classified (boys' contractors)	315211	Men's and Boys' Cut and Sew Apparel Contractors	
	(girls' and infants' contractors)	315212	Women's, Girls', and Infants' Cut and Sew Apparel Contractors	
	(boys' robes except contractors)	315221	Men's and Boys' Cut and Sew Underwear and Nightwear Manufacturing	

	(boys' suits and coats except contractors)	315222	Men's and Boys' Cut and Sew Suit, Coat, and Overcoat Manufacturing	
	(boys' trousers, slacks, and jeans except contractors)	315224	Men's and Boys' Cut and Sew Trouser, Slack and Jean Manufacturing	
	(boys' other outerwear except contractors)	315228	Men's and Boys' Cut and Sew Other Outerwear Manufacturing	
	(girls' robes except contractors)	315231	Women's and Girls' Cut and Sew Lingerie, Loungewear, and Nightwear Manufacturing	
	(girls' suits, coats, jackets, and skirts except contractors)	315234	Women's and Girls' Cut and Sew Suit, Coat, Tailored Jacket, and Skirt Manufacturing	
	(girls' other outerwear except contractors)	315239	Women's and Girls' Cut and Sew Other Outerwear Manufacturing	
	(infants' except contractors)	315291	Infants' Cut and Sew Apparel Manufacturing	
2371	Fur Goods			
	(men's and boys' contractors)	315211	Men's and Boys' Cut and Sew Apparel Contractors	
	(women's, girls', and infants' contractors)	315212	Women's, Girls', and Infants' Cut and Sew Apparel Contractors	
	(except contractors)	315292	Fur and Leather Apparel Manufacturing	
2381	Dress and Work Gloves, Except Knit and All-Leather			
	(men's and boys' contractors)	315211	Men's and Boys' Cut and Sew Apparel Contractors	
	(women's, girls', and infants' contractors)	315212	Women's, Girls', and Infants' Cut and Sew Apparel Contractors	
	(except contractors)	315992	Glove and Mitten Manufacturing	
2384	Robes and Dressing Gowns			
	(men's and boys' contractors)	315211	Men's and Boys' Cut and Sew Apparel Contractors	
	(women's, girls', and infants' contractors)	315212	Women's, Girls', and Infants' Cut and Sew Apparel Contractors	
	(men's except contractors)	315221	Men's and Boys' Cut and Sew Underwear and Nightwear Manufacturing	
	(women's except contractors)	315231	Women's and Girls' Cut and Sew Lingerie, Loungewear, and Nightwear Manufacturing	
2385	Waterproof Outerwear			
	(men's and boys' contractors)	315211	Men's and Boys' Cut and Sew Apparel Contractors	
	(women's, girls', and infants' contractors)	315212	Women's, Girls', and Infants' Cut and Sew Apparel Contractors	
	(men's and boys' water resistant or water repellent tailored overcoats, except made from rubberized fabric, plastics, etc. and contractors)	315222	Men's and Boys' Cut and Sew Suit, Coat, and Overcoat Manufacturing	

	(men's and boys' water resistant or water repellent nontailored outerwear, except made from rubberized fabric, plastics, etc. and contractors)	315228	Men's and Boys' Cut and Sew Other Outerwear Manufacturing	
	(women's and girls' water resistant or water repellent tailored coats, except made from rubberized fabric, plastics, etc. and contractors)	315234	Women's and Girls' Cut and Sew Suit, Coat, Tailored Jacket, and Skirt Manufacturing"	
	(other women's and girls' water resistant or water repellent nontailored outerwear, except made from rubberized fabric, plastics, etc. and contractors)	315239	Women's and Girls' Cut and Sew Other Outerwear Manufacturing	
	(infants' waterproof outerwear made from rubberized fabric, plastics, etc. except contractors)	315291	Infants' Cut and Sew Apparel Manufacturing	
	(men's, boys', women's, and girls' waterproof outerwear made from rubberized fabric, plastics, etc. except contractors)	315299	All Other Cut and Sew Apparel Manufacturing	
	(accessories, such as aprons, bibs, and other miscellaneous waterproof items, made from rubberized fabric, plastics, etc. except contractors)	315999	Other Apparel Accessories and Other Apparel Manufacturing	
2386	Leather and Sheep-Lined Clothing			
	(men's and boys' contractors)	315211	Men's and Boys' Cut and Sew Apparel Contractors	
	(women's, girls', and infants' contractors)	315212	Women's, Girls', and Infants' Cut and Sew Apparel Contractors	
	(except contractors)	315292	Fur and Leather Apparel Manufacturing	
2387	Apparel Belts			
	(men's and boys' contractors)	315211	Men's and Boys' Cut and Sew Apparel Contractors	
	(women's, girls', and infants' contractors)	315212	Women's, Girls', and Infants' Cut and Sew Apparel Contractors	
	(except contractors)	315999	Other Apparel Accessories and Other Apparel Manufacturing	
2389	Apparel and Accessories, Not Elsewhere Classified			
	(men's and boys' contractors)	315211	Men's and Boys' Cut and Sew Apparel Contractors	
	(women's, girls', and infants' contractors)	315212	Women's, Girls', and Infants' Cut and Sew Apparel Contractors	

	(garters and garter belts except contractors)	315231	Women's and Girls' Cut and Sew Lingerie, Loungewear, and Nightwear Manufacturing	
	(apparel, such as academic gowns, clerical outerwear, and band uniforms, except contractors)	315299	All Other Cut and Sew Apparel Manufacturing	
	(accessories such as, handkerchiefs, arm bands, cummerbunds, suspenders, etc., except contractors)	315999	Other Apparel Accessories and Other Apparel Manufacturing	
2391	Curtains and Draperies	314121	Curtain and Drapery Mills	
2392	Housefurnishings, Except Curtains and Draperies (except mops, dust rags, and bags)	314129	Other Household Textile Product Mills	
	(blanket, laundry, and wardrobe bags)	314911	Textile Bag Mills	
	(dust rags)	314999	All Other Miscellaneous Textile Product Mills	
	(floor and dust mops)	339994	Broom, Brush, and Mop Manufacturing	
2393	Textile Bags	314911	Textile Bag Mills	
2394	Canvas and Related Products	314912	Canvas and Related Product Mills	
2395	Pleating, Decorative and Novelty Stitching, and Tucking for the Trade (except apparel contractors)	314999	All Other Miscellaneous Textile Product Mills	
	(men's and boy's apparel contractors)	315211	Men's and Boys' Cut and Sew Apparel Contractors	
	(women's, girls', and infants' apparel contractors)	315212	Women's, Girls', and Infants' Cut and Sew Apparel Contractors	
2396	Automotive Trimmings, Apparel Findings, and Related Products (textile products except automotive and apparel trimmings and findings, printing or embossing on apparel, and contractors)	314999	All Other Miscellaneous Textile Product Mills	
	(men's and boys' contractors)	315211	Men's and Boys' Cut and Sew Apparel Contractors	
	(women's, girls', and infants' contractors)	315212	Women's, Girls', and Infants' Cut and Sew Apparel Contractors	
	(apparel findings and trimmings, except contractors)	315999	Other Apparel Accessories and Other Apparel Manufacturing	
	(printing and embossing on fabric articles)	323113	Commercial Screen Printing	
	(textile motor vehicle trimming except contractors)	336360	Motor Vehicle Seating and Interior Trim Manufacturing	
2397	Schiffli Machine Embroideries	313222	Schiffli Machine Embroidery	

	2399	Fabricated Textile Products, Not Elsewhere Classified (except apparel and accessories, automotive seat belts, seat and tire covers, and contractors)			
		(men's and boys' contractors)	314999	All Other Miscellaneous Textile Product Mills	
		(women's, girls', and infants' contractors)	315211	Men's and Boys' Cut and Sew Apparel Contractors	
		(apparel and apparel accessories, except contractors)	315212	Women's, Girls', and Infants' Cut and Sew Apparel Contractors	
		(seat belts, and seat and tire covers)	315999	Other Apparel Accessories and Other Apparel Manufacturing	
			336360	Motor Vehicle Seating and Interior Trim Manufacturing	
	3131	Boot and Shoe Cut Stock and Findings (except wood heels and metal buckles)			
		(heels, boot and shoe, finished wood, manufacturing)	316999	All Other Leather Good Manufacturing	
			321999	All Other Miscellaneous Wood Product Manufacturing	A facility with the primary activity of NAICS 321999 "heels, boot and shoe, finished wood, manufacturing" can be regulated under Sector A or Sector V. Sector A requires additional technology-based effluent limits comprising good housekeeping; additional SWPPP requirements; additional inspection requirements; and benchmark monitoring for COD and TSS. Sector V requires additional technology-based effluent limits comprised of good housekeeping measures and employee training; additional SWPPP requirements; and additional inspection requirements.
		(metal buckles)	339993	Fastener, Button, Needle, and Pin Manufacturing	Regulatory burden would likely be greater under Sector A. Any facility whose primary activity is manufacturing metal buckles (SIC 3131 / NAICS 339993) should be regulated under Sector Y, but may continue to be regulated under Sector V, or alternatively, under Sector AD. Sector Y does not apply additional sector-specific requirements to metal

				<p>buckle manufacturers. Sector V applies additional technology-based limitations comprised of good housekeeping measures for material storage areas and employee training. Under Sector AD EPA could establish additional facility-specific monitoring and reporting requirements.</p> <p>Regulatory burden would likely be greater under Sector V.</p>
3142	House Slippers	316212	House Slipper Manufacturing	
3143	Men's Footwear, Except Athletic	316213	Men's Footwear (except Athletic) Manufacturing	
3144	Women's Footwear, Except Athletic	316214	Women's Footwear (except Athletic) Manufacturing	
3149	Footwear, Except Rubber, Not Elsewhere Classified	316219	Other Footwear Manufacturing	
3151	Leather Gloves and Mittens (men's and boys' contractors)	315211	Men's and Boys' Cut and Sew Apparel Contractors	
	(women's, girls', and infants' contractors)	315212	Women's, Girls', and Infants' Cut and Sew Apparel Contractors	
	(except contractors)	315992	Glove and Mitten Manufacturing	
3161	Luggage	316991	Luggage Manufacturing	
3171	Women's Handbags and Purses	316992	Women's Handbag and Purse Manufacturing	
3172	Personal Leather Goods, Except Women's Handbags and Purses (except nonprecious metal personal goods, such as card cases, cigar cases, and comb cases)	316993	Personal Leather Good (except Women's Handbag and Purse) Manufacturing	
	(nonprecious metal personal goods, such as card cases, cigar cases, and comb cases)	339914	Costume Jewelry and Novelty Manufacturing	<p>Any facility whose primary activity is manufacturing nonprecious metal personal goods, such as card cases, cigar cases, and comb cases (SIC 3172 / NAICS 339914) should be regulated under Sector Y, but may continue to be regulated under Sector V, or alternatively, under Sector AD. Sector Y does not apply additional sector-specific requirements to metal buckle manufacturers. Sector V applies additional technology-based limitations comprised of good</p>

				housekeeping measures for material storage areas and employee training. Under Sector AD EPA could establish additional facility-specific monitoring and reporting requirements. Regulatory burden would likely be greater under Sector V.	
	3199	Leather Goods, Not Elsewhere Classified	316999	All Other Leather Good Manufacturing	
Sector W. Furniture and Fixtures					
Sub-sector	SIC Codes		NAICS Codes		Notes
W1	2434	Wood Kitchen Cabinets	337110	Wood Kitchen Cabinet and Countertop Manufacturing	
	2511	Wood Household Furniture, Except Upholstered (except wood box spring frames)	337122	Nonupholstered Wood Household Furniture Manufacturing	
		(wood box spring frames (parts))	337215	Showcase, Partition, Shelving, and Locker Manufacturing	
	2512	Wood Household Furniture, Upholstered	337121	Upholstered Household Furniture Manufacturing	
	2514	Metal Household Furniture (upholstered)	337121	Upholstered Household Furniture Manufacturing	
		(except upholstered metal furniture and metal box spring frames)	337124	Metal Household Furniture Manufacturing	
		(metal box spring frames)	337215	Showcase, Partition, Shelving, and Locker Manufacturing	
	2515	Mattresses, Foundations, and Convertible Beds (convertible beds)	337121	Upholstered Household Furniture Manufacturing	
		(mattresses and foundations)	337910	Mattress Manufacturing	
	2517	Wood, Television, Radio, Phonograph, and Sewing Machine Cabinets	337129	Wood, Television, Radio, Phonograph, and Sewing Machine Cabinet Manufacturing	
	2519	Household Furniture, Not Elsewhere Classified	337125	Household Furniture (except Wood and Metal) Manufacturing	
	2521	Wood Office Furniture	337211	Wood Office Furniture Manufacturing	
2522	Office Furniture, Except Wood	337214	Office Furniture (Except Wood) Manufacturing		

2531	Public Building and Related Furniture (seats for motor vehicles)	336360	Motor Vehicle Seating and Interior Trim Manufacturing		
	(except motor vehicle seats and blackboards) (blackboards)	337127 339942	Institutional Furniture Manufacturing Lead Pencil and Art Good Manufacturing		
2541	Wood Office and Store Fixtures, Partitions, Shelving, and Lockers (counter tops)	337110	Wood Kitchen Cabinet and Countertop Manufacturing		
	(wood lunchroom tables and chairs)	337127	Institutional Furniture Manufacturing		
	(custom architectural millwork)	337212	Custom Architectural Woodwork and Millwork Manufacturing		
	(except custom architectural millwork, counter tops, and lunchroom tables and chairs)	337215	Showcase, Partition, Shelving, and Locker Manufacturing		
2542	Office and Store Fixtures, Partitions, Shelving, and Lockers, Except Wood (lunchroom tables and chairs)	337127	Institutional Furniture Manufacturing		
	(except lunchroom tables and chairs)	337215	Showcase, Partition, Shelving, and Locker Manufacturing		
2591	Drapery Hardware and Window Blinds and Shades	337920	Blind and Shade Manufacturing		
2599	Furniture and Fixtures, Not Elsewhere Classified				
	(except hospital beds) (hospital beds)	337127 339111	Institutional Furniture Manufacturing Laboratory Apparatus and Furniture Manufacturing		
Sector X. Printing and Publishing					
Sub-sector	SIC Codes	NAICS Codes		Notes	
X1	2711	Newspapers: Publishing, or Publishing and Printing (except Internet newspaper publishing)	511110	Newspaper Publishers	
	2721	Periodicals: Publishing, or Publishing and Printing (except Internet periodical publishing)	511120	Periodical Publishers	
	2731	Books: Publishing, or Publishing and Printing (except Internet book publishing)			
		(except music books) (music books)	511130 512230	Book Publishers Music Publishers	

2732	Book Printing	323117	Book Printing	
2741	Miscellaneous Publishing (except Internet publishers) (shopping news and advertising periodical publishing or publishing and printing except Internet)	511120	Periodical Publishers	
	(technical manuals and books publishing or publishing and printing, except Internet)	511130	Book Publishers	
	(directory publishers, except Internet publishers)	511140	Directory and Mailing List Publishers	
	(except database, advertising periodicals, shopping news, technical manuals and books, and sheet music publishing or publishing and printing)	511199	All Other Publishers	
	(sheet music publishing or publishing and printing)	512230	Music Publishers	
2752	Commercial Printing, Lithographic (except quick printing)	323110	Commercial Lithographic Printing	
	(quick printing)	323114	Quick Printing	
2754	Commercial Printing, Gravure	323111	Commercial Gravure Printing	
2759	Commercial Printing, NEC (flexographic printing)	323112	Commercial Flexographic Printing	
	(screen printing)	323113	Commercial Screen Printing	
	(digital printing, except quick printing)	323115	Digital Printing	
	(other commercial printing except flexographic, screen, digital, and quick printing)	323119	Other Commercial Printing	
2771	Greeting Cards (except Internet greeting card publishers) (lithographic printing of greeting cards)	323110	Commercial Lithographic Printing	
	(gravure printing of greeting cards)	323111	Commercial Gravure Printing	
	(flexographic printing of greeting cards)	323112	Commercial Flexographic Printing	
	(screen printing of greeting cards)	323113	Commercial Screen Printing	
	(other printing of greeting cards)	323119	Other Commercial Printing	
	(publishing greeting cards)	511191	Greeting Card Publishers	
2782	Blankbooks, Looseleaf Binders and Devices (checkbooks)	323116	Manifold Business Form Printing	
	(except checkbooks)	323118	Blankbook, Loose-leaf Binder, and Device Manufacturing	

	2789	Bookbinding and Related Work	323121	Tradebinding and Related Work		
	2791	Typesetting	323122	Prepress Services		
	2796	Platemaking and Related Services	323122	Prepress Services		
Sector Y. Rubber, Miscellaneous Plastic Products, and Miscellaneous Manufacturing Industries						
Sub-sector	SIC Codes		NAICS Codes		Notes	
Y1	3011	Tires and Inner Tubes	326211	Tire Manufacturing (except Retreading)		
	3021	Rubber and Plastics Footwear	316211	Rubber and Plastics Footwear Manufacturing		
	3052	Rubber and Plastics Hose and Belting	326220	Rubber and Plastics Hoses and Belting Manufacturing		
	3053	Gaskets, Packing, and Sealing Devices	339991	Gaskets, Packing, and Sealing Device Manufacturing		
	3061	Molded, Extruded, and Lathe-Cut Mechanical Rubber Goods	326291	Rubber Product Manufacturing for Mechanical Use		
	3069	Fabricated Rubber Products, Not Elsewhere Classified (rubberizing fabric or purchased textile products)		313320	Fabric Coating Mills	
		(bags made from rubberized fabric)		314911	Textile Bag Mills	
		(rubber cut and sew outerwear)		315299	All Other Cut and Sew Apparel Manufacturing	
		(bibs, bathing caps, related rubber accessories)		315999	Other Apparel Accessories and Other Apparel Manufacturing	
		(rubber resilient floor coverings)		326192	Resilient Floor Covering Manufacturing	
(except rubberized fabric and garments, gloves, life vests, wet suits, accessories, such as bibs and bathing caps, rubber toys, bags made from rubberized fabric, rubber diaper covers, and rubber resilient floor coverings)		326299	All Other Rubber Product Manufacturing			
(rubber gloves, inflatable rubber life jackets)		339113	Surgical and Appliance and Supplies Manufacturing			
(wet suits)		339920	Sporting and Athletic Goods Manufacturing			
		(rubber toys, except dolls)	339932	Game, Toy, and Children's Vehicle Manufacturing		
Y2	3081	Unsupported Plastics Film and Sheet	326113	Unlaminated Plastics Film and Sheet (except Packaging) Manufacturing		
	3082	Unsupported Plastics Profile Shapes	326121	Unlaminated Plastics Profile Shape Manufacturing		

3083	Laminated Plastics Plate, Sheet, and Profile Shapes	326130	Laminated Plastics Plate, Sheet (except Packaging), and Shape Manufacturing	
3084	Plastics Pipe	326122	Plastics Pipe and Pipe Fitting Manufacturing	
3085	Plastics Bottles	326160	Plastics Bottle Manufacturing	
3086	Plastics Foam Products (polystyrene foam products)	326140	Polystyrene Foam Product Manufacturing	
	(except polystyrene foam products)	326150	Urethane and Other Foam Product (except Polystyrene) Manufacturing	
3087	Custom Compounding of Purchased Plastics Resins	325991	Custom Compounding of Purchased Resins	
3088	Plastics Plumbing Fixtures	326191	Plastics Plumbing Fixture Manufacturing	
3089	Plastics Products, Not Elsewhere Classified (plastics sausage casings)	326121	Unlaminated Plastics Profile Shape Manufacturing	
	(pipe fittings)	326122	Plastics Pipe and Pipe Fitting Manufacturing	
	(except plastics pipe fittings, inflatable plastics life jackets, plastics furniture parts, and plastics sausage casings)	326199	All Other Plastics Product Manufacturing	
	(finished plastic furniture parts)	337215	Showcase, Partition, Shelving, and Locker Manufacturing	
	(inflatable plastic life jackets)	339113	Surgical Appliance and Supplies Manufacturing	
3931	Musical Instruments	339992	Musical Instrument Manufacturing	
3942	Dolls and Stuffed Toys	339931	Doll and Stuffed Toy Manufacturing	
3944	Games, Toys, and Children's Vehicles, Except Dolls and Bicycles			<p>Any facility whose primary activity is manufacturing metal tricycles (SIC 3944 / NAICS 336991) should be regulated under Sector AB, but may continue to be regulated under Sector Y, or alternatively, under Sector AD. Sector AB applies additional SWPPP requirements. Sector Y does not apply additional sector-specific requirements to metal tricycle manufacturers and under Sector AD EPA could establish additional facility-specific monitoring and reporting requirements.</p> <p>Regulatory burden would be greater under Sector AB.</p>
	(metal tricycles)	336991	Motorcycle, Bicycle, and Parts Manufacturing	

	(except metal tricycles)	339932	Game, Toy, and Children's Vehicle Manufacturing	
3949	Sporting and Athletic Goods, Not Elsewhere Classified	339920	Sporting and Athletic Goods Manufacturing	
3951	Pens, Mechanical Pencils, and Parts	339941	Pens, Mechanical Pencil Manufacturing	
3953	Marking Devices	339943	Marking Device Manufacturing	
3955	Carbon Paper and Inked Ribbons	339944	Carbon Paper and Inked Ribbon Manufacturing	
3961	Costume Jewelry and Costume Novelties, Except Precious Metal (except cuff links)	339914	Costume Jewelry and Novelty Manufacturing	
	(nonprecious cuff links)	339993	Fastener, Button, Needle, and Pin Manufacturing	
3965	Fasteners, Buttons, Needles, and Pins	339993	Fastener, Button, Needle, and Pin Manufacturing	
3991	Brooms and Brushes	339994	Broom, Brush, and Mop Manufacturing	
3993	Signs and Advertising Specialties			Any facility whose primary activity is screen printing purchased advertising specialties (SIC 3993 / NAICS 323113) should be regulated under Sector X, but may continue to be regulated under Sector Y, or alternatively, under Sector AD. Sector X applies additional technology-based effluent limits comprised of good housekeeping measures for material storage areas, and additional SWPPP requirements. Sector Y does not apply additional requirements to these facilities and under Sector AD EPA could establish additional facility-specific monitoring and reporting requirements. Regulatory burden would be greater under Sector X.
	(screen printing purchased advertising specialties ³⁴)	323113	Commercial Screen Printing	
	(signs)	339950	Sign Manufacturing	
3995	Burial Caskets	339995	Burial Casket Manufacturing	
3996	Linoleum, Asphalted-Felt-Base, and Other Hard Surface Floor Coverings, Not Elsewhere Classified	326192	Resilient Floor Covering Manufacturing	

	3999	Manufacturing Industries, Not Elsewhere Classified			
		(fur dressing and finishing)	316110	Leather and Hide Tanning and Finishing	<p>Any facility whose primary activity is fur dressing and finishing (SIC 3999 / NAICS 316110) should be regulated under Sector Z, but may continue to be regulated under Sector Y, or alternatively, under Sector AD. Sector Z applies additional technology-based effluent limits comprised of good housekeeping measures for material storage areas and handling areas, and additional SWPPP requirements. Sector Y does not apply additional requirements to these facilities and under Sector AD EPA could establish additional facility-specific monitoring and reporting requirements.</p> <p>Regulatory burden would be greater under Sector Z.</p>
		(burnt wood articles)	321999	All Other Miscellaneous Wood Product Manufacturing	<p>Any facility whose primary activity is burnt wood articles (SIC 3999 / NAICS 321999) should be regulated under Sector A, but may continue to be regulated under Sector Y, or alternatively, under Sector AD. Sector A applies additional technology-based effluent limits comprised of good housekeeping measures, additional SWPPP requirements, and benchmark monitoring for COD and TSS. Sector Y does not apply additional requirements to these facilities and under Sector AD EPA could establish additional facility-specific monitoring and reporting requirements.</p> <p>Regulatory burden would be greater under Sector A.</p>
		(matches and match books manufacturing)	325998	All Other Miscellaneous Chemical Product and Preparation Manufacturing	<p>Any facility whose primary activity is matches and match books manufacturing (SIC 3999 / NAICS</p>

				<p>325998) should be regulated under Sector C, but may continue to be regulated under Sector Y, or alternatively, under Sector AD. Sectors C and Y do not require additional sector-specific requirements. EPA could establish additional facility-specific monitoring and reporting requirements under Sector AD.</p> <p>Regulatory burden is not expected to differ between Sectors C and Y.</p>
	(plastics products such as combs, hair curlers, etc.)	326199	All Other Plastics Product Manufacturing	
	(hand operated hair clippers for humans)	332211	Cutlery and Flatware (except Precious) Manufacturing	<p>Any facility whose primary activity is manufacturing hand operated hair clippers for humans (SIC 3999 / NAICS 332211) should be regulated under Sector AA, but may continue to be regulated under Sector Y, or alternatively, under Sector AD. Sector AA applies additional technology-based effluent limits comprised of good housekeeping measures, spill prevention and response procedures, and spills and leaks; additional SWPPP requirements; and additional inspection requirements. Sector Y does not require additional sector-specific requirements. EPA could establish additional facility-specific monitoring and reporting requirements under Sector AD.</p> <p>Regulatory burden would be greater under Sector AA.</p>
	(tape measures)	332212	Hand and Edge Tool Manufacturing	<p>Any facility whose primary activity is manufacturing tape measures (SIC 3999 / NAICS 332212) should be regulated under Sector AA, but may continue to be regulated under Sector Y, or alternatively, under Sector AD. Sector AA applies additional</p>

				<p>technology-based effluent limits comprised of good housekeeping measures, spill prevention and response procedures, and spills and leaks; additional SWPPP requirements; and additional inspection requirements. Sector Y does not require additional sector-specific requirements. EPA could establish additional facility-specific monitoring and reporting requirements under Sector AD.</p> <p>Regulatory burden would be greater under Sector AA.</p>
	(flocking metal products for the trade)	332812	Metal Coating, Engraving (except Jewelry and Silverware), and Allied Services to Manufacturers	<p>Any facility whose primary activity is manufacturing flocking metal products for the trade (SIC 3999 / NAICS 332812) should be regulated under Sector AA, but may continue to be regulated under Sector Y, or alternatively, under Sector AD. Sector AA applies additional technology-based effluent limits comprised of good housekeeping measures, spill prevention and response procedures, and spills and leaks; additional SWPPP requirements; and additional inspection requirements. Sector Y does not require additional sector-specific requirements. EPA could establish additional facility-specific monitoring and reporting requirements under Sector AD.</p> <p>Regulatory burden would be greater under Sector AA.</p>
	(other miscellaneous metal products, such as combs, hair curlers, etc.)	332999	All Other Miscellaneous Fabricated Metal Product Manufacturing	<p>Any facility whose primary activity is manufacturing other miscellaneous metal products, such as combs, hair curlers, etc. (SIC 3999 / NAICS 332999) should be regulated under Sector AA, but may continue to be regulated under Sector Y, or alternatively, under Sector AD. Sector</p>

				AA applies additional technology-based effluent limits comprised of good housekeeping measures, spill prevention and response procedures, and spills and leaks; additional SWPPP requirements; and additional inspection requirements. Sector Y does not require additional sector-specific requirements. EPA could establish additional facility-specific monitoring and reporting requirements under Sector AD. Regulatory burden would be greater under Sector AA.
	(beauty and barber shop equipment, except chairs)	333319	Other Commercial and Service Industry Machinery Manufacturing	
	(lamp shades of paper or textile)	335121	Residential Electric Lighting Fixture Manufacturing	
	(electric hair clippers for humans)	335211	Electric Housewares and Household Fan Manufacturing	Any facility whose primary activity is manufacturing electric hair clippers for humans (SIC 3999 / NAICS 335211) should be regulated under Sector AC, but may continue to be regulated under Sector Y, or alternatively, under Sector AD. Sectors Y and AC do not apply sector-specific requirements to facilities manufacturing electric hair clippers for humans. EPA may establish facility-specific monitoring and reporting requirements under Sector AD. Regulatory burden is not expected to differ between Sectors Y and AC.
	(beauty and barber chairs)	337127	Institutional Furniture Manufacturing	Any facility whose primary activity is manufacturing beauty and barber chairs (SIC 3999 / NAICS 337127) should be regulated under Sector W, but may continue to be regulated under Sector Y, or alternatively, under Sector AD. Sector W applies additional SWPPP requirements to facilities manufacturing beauty and

					barber chairs. Sector Y applies no additional requirements and under Sector AD EPA could establish additional facility-specific monitoring and reporting requirements.
		(embroidery kits)	339932	Game, Toy, and Children's Vehicle Manufacturing	Regulatory burden would be greater under Sector W.
		(other miscellaneous products not specially provided for previously)	339999	All Other Miscellaneous Manufacturing	
Sector Z. Leather Tanning and Finishing					
Sub-sector	SIC Codes		NAICS Codes		Notes
Z1	3111	Leather Tanning and Finishing	316110	Leather and Hide Tanning and Finishing	
Sector AA. Fabricated Metal Products					
Sub-sector	SIC Codes		NAICS Codes		Notes
AA1	3411	Metal Cans	332431	Metal Can Manufacturing	
	3412	Metal Shipping Barrels, Drums, Kegs, and Pails	332439	Other Metal Container Manufacturing	
	3421	Cutlery (except hedge shears and trimmers, tinnerns' snips, and similar nonelectric hand tools)	332211	Cutlery and Flatware (except Precious) Manufacturing	
		(hedge shears and trimmers, tinnerns' snips, and similar nonelectric hand tools)	332212	Hand and Edge Tool Manufacturing	
	3423	Hand and Edge Tools, Except Machine Tools and Handsaws	332212	Hand and Edge Tool Manufacturing	
	3425	Saw Blades and Handsaws	332213	Saw Blade and Handsaw Manufacturing	
	3429	Hardware, Not Elsewhere Classified (vacuum and insulated bottles, jugs, and chests)	332439	Other Metal Container Manufacturing	
		(except fire hose nozzles, hose couplings, vacuum and insulated bottles, jugs and chests, fireplace fixtures, time locks, turnbuckles, pulleys, tackle blocks, luggage and utility racks, sleep sofa mechanisms and chair glides, traps, handcuffs and	332510	Hardware Manufacturing	

	leg irons, ladder jacks, and other like metal products)			
	(turnbuckles and hose clamps)	332722	Bolt, Nut, Screw, Rivet, and Washer Manufacturing	
	(fire hose nozzles and hose couplings)	332919	Other Metal Valve and Pipe Fitting Manufacturing	
	(fireplace fixtures, traps, handcuffs and leg irons, ladder jacks, and other like metal products)	332999	All Other Miscellaneous Fabricated Metal Product Manufacturing	
	(pulleys, tackle blocks, block and tackle assemblies)	333923	Overhead Traveling Crane, Hoist, and Monorail System Manufacturing	
	(time locks)	334518	Watch, Clock, and Part Manufacturing	
	(luggage and utility racks)	336399	All Other Motor Vehicle Parts Manufacturing	
	(sleep sofa mechanisms and chair glides)	337215	Showcase, Partition, Shelving, and Locker Manufacturing	
3431	Enameled Iron and Metal Sanitary Ware	332998	Enameled Iron and Metal Sanitary Ware Manufacturing	
3432	Plumbing Fixture Fittings and Trim (except shower rods, lawn hose nozzles, and lawn sprinklers)	332913	Plumbing Fixture Fitting and Trim Manufacturing	
	(lawn hose nozzles and lawn sprinklers)	332919	Other Metal Valve and Pipe Fitting Manufacturing	
	(metal shower rods)	332999	All Other Miscellaneous Fabricated Metal Product Manufacturing	
3443	Fabricated Plate Work (Boiler Shops) (fabricated plate work and metal weldments)	332313	Plate Work Manufacturing	
	(power boilers and heat exchangers)	332410	Power Boiler and Heat Exchanger Manufacturing	
	(heavy gauge tanks)	332420	Metal Tank (Heavy Gauge) Manufacturing	
	(metal cooling towers)	333415	Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment Manufacturing (metal cooling towers)	
3444	Sheet Metal Work (stamped metal skylights)	332321	Metal Window and Door Manufacturing	
	(except sheet metal bins and vats, skylights, and sheet metal cooling towers)	332322	Sheet Metal Work Manufacturing	
	(metal bins and vats)	332439	Other Metal Container Manufacturing	
	(cooling towers, sheet metal)	333415	Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment Manufacturing	

	3446	Architectural and Ornamental Ironwork	332323	Ornamental and Architectural Metal Work Manufacturing	
	3448	Prefabricated Metal Buildings and Components	332311	Prefabricated Metal Building and Component Manufacturing	
	3449	Miscellaneous Structural Metal Work (custom roll forming)	332114	Custom Roll Forming	
		(fabricated bar joists and concrete reinforcing bars)	332312	Fabricated Structural Metal Manufacturing	
		(curtain wall and metal plaster bases and lath)	332323	Ornamental and Architectural Metal Work Manufacturing	
	3451	Screw Machine Products	332721	Precision Turned Product Manufacturing	
	3452	Bolts, Nuts, Screws, Rivets, and Washers	332722	Bolt, Nut, Screw, Rivet, and Washer Manufacturing	
	3462	Iron and Steel Forgings	332111	Iron and Steel Forging	
	3463	Nonferrous Forgings	332112	Nonferrous Forging	
	3465	Automotive Stampings	336370	Motor Vehicle Metal Stamping	
	3466	Crowns and Closures	332115	Crown and Closure Manufacturing	
	3469	Metal Stampings, Not Elsewhere Classified (except kitchen utensils, pots and pans for cooking, coins, and stamped metal boxes)	332116	Metal Stamping	
		(kitchen utensils, pots, and pans for cooking)	332214	Kitchen Utensil, Pot, and Pan Manufacturing	
		(stamped metal tool, cash, mail, and lunch boxes)	332439	Other Metal Container Manufacturing	
	3471	Electroplating, Plating, Polishing, Anodizing, and Coloring	332813	Electroplating, Plating, Polishing, Anodizing, and Coloring	
AA2	3479	Coating, Engraving, and Allied Services, Not Elsewhere Classified (except jewelry, silverware, and flatware engraving and etching)	332812	Metal Coating, Engraving (except Jewelry and Silverware), and Allied Services to Manufacturers	
		(precious metal jewelry engraving and etching)	339911	Jewelry (except Costume) Manufacturing	
		(silver and plated ware engraving and etching)	339912	Silverware and Holloware Manufacturing	
		(costume jewelry engraving and etching)	339914	Costume Jewelry and Novelty Manufacturing	
AA1	3482	Small Arms Ammunition	332992	Small Arms Ammunition Manufacturing	
	3483	Ammunition, Except for Small Arms	332993	Ammunition (except for Small Arms) Manufacturing	
	3484	Small Arms	332994	Small Arms Manufacturing	

3489	Ordinance and Accessories, Not Elsewhere Classified	332995	Other Ordinance and Accessories Manufacturing	
3491	Industrial Valves	332911	Industrial Valve Manufacturing	
3492	Fluid Power Valves and Hose Fittings	332912	Fluid Power Valve and Hose Fitting Manufacturing	
3493	Steel Springs, Except Wire	332611	Spring (Heavy Gauge) Manufacturing	
3494	Valves and Pipe Fittings, Not Elsewhere Classified (except metal pipe hangers and supports)	332919	Other Metal Valve and Pipe Fitting Manufacturing	
	(metal pipe hangers and supports)	332999	All Other Miscellaneous Fabricated Metal Product Manufacturing	
3495	Wire Springs (except watch and clock springs)	332612	Spring (Light Gauge) Manufacturing	
	(clock and watch springs)	334518	Watch, Clock, and Part Manufacturing	
3496	Miscellaneous Fabricated Wire Products (potato mashers)	332214	Kitchen Utensil, Pot, and Pan Manufacturing	
	(except shopping carts and potato mashers)	332618	Other Fabricated Wire Product Manufacturing	
	(shopping carts made from purchased wire)	333924	Industrial Truck, Tractor, Trailer, and Stacker Machinery Manufacturing	
3497	Metal Foil and Leaf (laminated aluminum foil rolls and sheets for flexible packaging uses)	322225	Laminated Aluminum Foil Manufacturing for Flexible Packaging Uses	
	(foil and foil containers)	332999	All Other Miscellaneous Fabricated Metal Product Manufacturing	
3498	Fabricated Pipe and Pipe Fittings	332996	Fabricated Pipe and Pipe Fitting Manufacturing	
3499	Fabricated Metal Products, Not Elsewhere Classified (powder metallurgy)	332117	Powder Metallurgy Part Manufacturing	
	(metal boxes)	332439	Other Metal Container Manufacturing	
	(safe and vault locks)	332510	Hardware Manufacturing	
	(metal aerosol valves)	332919	Other Metal Valve and Pipe Fitting Manufacturing	
	(other metal products)	332999	All Other Miscellaneous Fabricated Metal Product Manufacturing	
	(metal automobile seat frames)	336360	Motor Vehicle Seating and Interior Trim Manufacturing	
	(metal furniture frames)	337215	Showcase, Partition, Shelving, and Locker Manufacturing	
3911	Jewelry, Precious Metal	339911	Jewelry (except Costume) Manufacturing	

	3914	Silverware, Plated Ware, and Stainless Steel Ware (cutlery and flatware, nonprecious and precious plated)	332211	Cutlery and Flatware (except Precious) Manufacturing	
		(precious metal plated hollowware)	332999	All Other Miscellaneous Fabricated Metal Product Manufacturing	
		(except nonprecious and precious plated metal cutlery, flatware, and hollowware)	339912	Silverware and Holloware Manufacturing	
	3915	Jewelers Findings and Materials and Lapidary Work			Any facility whose primary activity is manufacturing watch jewels (SIC 3915 / NAICS 334518) should be regulated under Sector AC, but may continue to be regulated under Sector AA, or alternatively, under Sector AD. Sector AA applies additional technology-based effluent limits comprising good housekeeping measures, spill prevention and response, and spills and leaks; additional SWPPP requirements; and additional inspection requirements. Sector AC does not apply additional sector-specific requirements and EPA may establish facility-specific monitoring and reporting requirements under Sector AD. Regulatory burden would be greater under Sector AA.
		(watch jewels)	334518	Watch, Clock, and Part Manufacturing	
		(except watch jewels)	339913	Jewelers' Material and Lapidary Work Manufacturing	
Sector AB. Transportation Equipment, Industrial or Commercial Machinery					
Sub-sector	SIC Codes		NAICS Codes		Notes
AB1	3511	Steam, Gas, and Hydraulic Turbines, and Turbine Generator Set Units	333611	Turbine and Turbine Generator Set Units Manufacturing	
	3519	Internal Combustion Engines, Not Elsewhere Classified			
		(except stationary engine radiators)	333618	Other Engine Equipment Manufacturing	
	(stationary engine radiators)	336399	All Other Motor Vehicle Parts Manufacturing		

3523	Farm Machinery and Equipment (hand hair clippers for animals)	332212	Hand and Edge Tool Manufacturing	
	(corrals, stalls, and holding gates)	332323	Ornamental and Architectural Metal Work Manufacturing	
	(except corrals, stalls, holding gates, hand clippers for animals, and farm conveyors/elevators)	333111	Farm Machinery and Equipment Manufacturing	
	(farm conveyors and elevators)	333922	Conveyor and Conveying Equipment Manufacturing	
3524	Lawn and Garden Tractors and Home Lawn and Garden Equipment (nonpowered lawnmowers)	332212	Hand and Edge Tool Manufacturing	
	(except nonpowered lawnmowers)	333112	Lawn and Garden Tractor and Home Lawn and Garden Equipment Manufacturing	
3531	Construction Machinery and Equipment (except railway track maintenance equipment; winches, aerial work platforms; and automotive wrecker hoists)	333120	Construction Machinery Manufacturing	
	(winches, aerial work platforms, automobile wrecker hoists, locomotive cranes, and ship cranes)	333923	Overhead Traveling Crane, Hoist, and Monorail System Manufacturing	
	(railway track maintenance equipment)	336510	Railroad Rolling Stock Manufacturing	
3532	Mining Machinery and Equipment, Except Oil and Gas Field Machinery and Equipment	333131	Mining Machinery and Equipment Manufacturing	
3533	Oil and Gas Field Machinery and Equipment	333132	Oil and Gas Field Machinery and Equipment Manufacturing	
3534	Elevators and Moving Stairways	333921	Elevators and Moving Stairway Manufacturing	
3535	Conveyors and Conveying Equipment	333922	Conveyors and Conveying Equipment Manufacturing	
3536	Overhead Traveling Cranes, Hoists, and Monorail Systems	333923	Overhead Traveling Cranes, Hoists, and Monorail System Manufacturing	
3537	Industrial Trucks, Tractors, Trailers, and Stackers (metal air cargo containers)	332439	Other Metal Container Manufacturing	
	(metal pallets)	332999	All Other Miscellaneous Fabricated Metal Product Manufacturing	

	(except metal pallets and metal air cargo containers)	333924	Industrial Truck, Tractor, Trailer, and Stacker Machinery Manufacturing	
3541	Machine Tools, Metal Cutting Types	333512	Machine Tool (Metal Cutting Types) Manufacturing	
3542	Machine Tools, Metal Forming Types	333513	Machine Tool (Metal Forming Types) Manufacturing	
3543	Industrial Patterns	332997	Industrial Pattern Manufacturing	
3544	Special Dies and Tools, Die Sets, Jigs and Fixtures, and Industrial Molds (industrial molds)	333511	Industrial Mold Manufacturing	
	(except molds)	333514	Special Die and Tool, Die Set, Jig, and Fixture Manufacturing	
3545	Cutting Tools, Machine Tool Accessories, and Machinist Precision Measuring Devices (precision measuring devices)	332212	Hand and Edge Tool Manufacturing	
	(except precision measuring devices)	333515	Cutting Tool and Machine Tool Accessory Manufacturing	
3546	Power-Driven Handtools	333991	Power-Driven Handtool Manufacturing	
3547	Rolling Mill Machinery and Equipment	333516	Rolling Mill Machinery and Equipment Manufacturing	
3548	Electric and Gas Welding and Soldering Equipment (except transformers for arc-welding)	333992	Welding and Soldering Equipment Manufacturing	
	(transformers for arc-welders)	333531	Power, Distribution, and Specialty Transformer Manufacturing	
3549	Metalworking Machinery, Not Elsewhere Classified	333518	Other Metalworking Machinery Manufacturing	
3552	Textile Machinery	333292	Textile Machinery Manufacturing	
3553	Woodworking Machinery	333210	Sawmill and Woodworking Machinery Manufacturing	
3554	Paper Industries Machinery	333291	Paper Industry Machinery Manufacturing	
3555	Printing Trades Machinery and Equipment	333293	Printing Machinery and Equipment Manufacturing	
3556	Food Products Machinery	333294	Food Product Machinery Manufacturing	
3559	Special Industry Machinery, Not Elsewhere Classified (nuclear control rod drive mechanisms)	332410	Power Boiler and Heat Exchanger Manufacturing	
	(cotton ginning machinery)	333111	Farm Machinery and Equipment Manufacturing	
	(rubber and plastics manufacturing machinery)	333220	Plastics and Rubber Industry Machinery Manufacturing	

	(semiconductor machinery manufacturing)	333295	Semiconductor Machinery Manufacturing	
	(except rubber and plastics manufacturing machinery, semiconductor manufacturing machinery, and automotive maintenance equipment)	333298	All Other Industrial Machinery Manufacturing	
	(automotive maintenance equipment)	333319	Other Commercial and Service Industry Machinery Manufacturing	
3561	Pumps and Pumping Equipment	333911	Pump and Pumping Equipment Manufacturing	
3562	Ball and Roller Bearings	332991	Ball and Roller Bearing Manufacturing	
3563	Air and Gas Compressors	333912	Air and Gas Compressor Manufacturing	
3564	Industrial and Commercial Fans and Blowers and Air Purification Equipment (air purification equipment)	333411	Air Purification Equipment Manufacturing	
	(fans and blowers)	333412	Industrial and Commercial Fan and Blower Manufacturing	
3565	Packaging Machinery	333993	Packaging Machinery Manufacturing	
3566	Speed Changers, Industrial High-Speed Drives, and Gears	333612	Speed Changer, Industrial High-Speed Drives, and Gear Manufacturing	
3567	Industrial Process Furnaces and Ovens	333994	Industrial Process Furnace and Oven Manufacturing	
3568	Mechanical Power Transmission Equipment, Not Elsewhere Classified	333613	Mechanical Power Transmission Equipment Manufacturing	
3569	General Industrial Machinery and Equipment, Not Elsewhere Classified (textile fire hose)	314999	All Other Miscellaneous Textile Product Mills	
	(electric swimming pool heaters)	333414	Heating Equipment (except Warm Air Furnaces) Manufacturing	
	(except fire hoses and electric swimming pool heaters)	333999	All Other Miscellaneous General Purpose Machinery Manufacturing	
3581	Automatic Vending Machines	333311	Automatic Vending Machine Manufacturing	
3582	Commercial Laundry, Drycleaning, and Pressing Machines	333312	Commercial Laundry, Drycleaning, and Pressing Machine Manufacturing	
3585	Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment (except motor vehicle air-conditioning)	333415	Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment Manufacturing	
	(motor vehicle air-conditioning)	336391	Motor Vehicle Air-Conditioning Manufacturing	

3586	Measuring and Dispensing Pumps	333913	Measuring and Dispensing Pump Manufacturing	
3589	Service Industry Machinery, Not Elsewhere Classified	333319	Other Commercial and Service Industry Machinery Manufacturing	
3592	Carburetors, Pistons, Piston Rings, and Valves	336311	Carburetor, Piston, Piston Ring, and Valve Manufacturing	
3593	Fluid Power Cylinders and Actuators	333995	Fluid Power Cylinder and Actuator Manufacturing	
3594	Fluid Power Pumps and Motors	333996	Fluid Power Pumps and Motors Manufacturing	
3596	Scales and Balances, Except Laboratory	333997	Scale and Balance (except Laboratory) Manufacturing	
3599	Industrial and Commercial Machinery and Equipment, Not Elsewhere Classified			
	(machine shops)	332710	Machine Shops	
	(grinding castings for the trade)	332813	Electroplating, Plating, Polishing, Anodizing and Coloring	
	(flexible metal hose)	332999	All Other Miscellaneous Fabricated Metal Product Manufacturing	
	(carnival amusement park equipment)	333319	Other Commercial and Service Industry Machinery Manufacturing	
	(other industrial and commercial machinery and equipment)	333999	All Other Miscellaneous General Purpose Machinery Manufacturing	
	(water leak detectors)	334519	Other Measuring and Controlling Device Manufacturing	
(gasoline, oil, and intake filters for internal combustion engines, except for motor vehicles)	336399	All Other Motor Vehicle Parts Manufacturing		
3711	Motor Vehicles and Passenger Car Bodies			
	(automobiles)	336111	Automobile Manufacturing	
	(light trucks and utility vehicles)	336112	Light Truck and Utility Vehicle Manufacturing	
	(heavy duty trucks)	336120	Heavy Duty Truck Manufacturing	
	(kit car and other passenger car bodies)	336211	Motor Vehicle Body Manufacturing	
(military armored vehicles)	336992	Military Armored Vehicle, Tank, and Tank Component Manufacturing		
3713	Truck and Bus Bodies	336211	Motor Vehicle Body Manufacturing	
3714	Motor Vehicle Parts and Accessories (dump truck lifting mechanisms and fifth wheels)	336211	Motor Vehicle Body Manufacturing	
	(gasoline engines and engine parts including rebuilt)	336312	Gasoline Engine and Engine Parts Manufacturing	

	(wiring harness sets, other than ignition; block heaters and battery heaters; instrument board assemblies; permanent defrosters; windshield washer-wiper mechanisms; cruise control mechanisms; and other electrical equipment for internal combustion engines)	336322	Other Motor Vehicle Electrical and Electronic Equipment Manufacturing	
	(steering and suspension parts)	336330	Motor Vehicle Steering and Suspension Components (except Spring) Manufacturing	
	(brake and brake systems, including assemblies)	336340	Motor Vehicle Brake System Manufacturing	
	(transmissions and power train parts, including rebuilding)	336350	Motor Vehicle Transmission and Power Train Parts Manufacturing	
	(except truck and bus bodies, trailers, engine and engine parts, motor vehicle electrical and electronic equipment, motor vehicle steering and suspension components, motor vehicle brake systems, and motor vehicle transmission and power train parts)	336399	All Other Motor Vehicle Parts Manufacturing	
3715	Truck Trailers	336212	Truck Trailer Manufacturing	
3716	Motor Homes	336213	Motor Home Manufacturing	
3721	Aircraft (except research and development not producing prototypes)	336411	Aircraft Manufacturing	
3724	Aircraft Engines and Engine Parts (except research and development not producing prototypes)	336412	Aircraft Engine and Engine Parts Manufacturing	
3728	Aircraft Parts and Auxiliary Equipment, Not Elsewhere Classified (fluid power aircraft subassemblies)	332912	Fluid Power Valve and Hose Fitting Manufacturing	
	(target drones)	336411	Aircraft Manufacturing	
	(except fluid power aircraft subassemblies, target drones, and research and development not producing prototypes)	336413	Other Aircraft Part and Auxiliary Equipment Manufacturing	
3743	Railroad Equipment (locomotive fuel lubricating or cooling medium pumps)	333911	Pump and Pumping Equipment Manufacturing	
	(except locomotive fuel lubricating or cooling medium pumps)	336510	Railroad Rolling Stock Manufacturing	

	3751	Motorcycles, Bicycles, and Parts	336991	Motorcycle, Bicycle, and Parts Manufacturing	
	3761	Guided Missiles and Space Vehicles (except research and development not producing prototypes)	336414	Guided Missile and Space Vehicle Manufacturing	
	3764	Guided Missile and Space Vehicle Propulsion Units and Propulsion Unit Parts (except research and development not producing prototypes)	336415	Guided Missile and Space Vehicle Propulsion Unit and Propulsion Unit Parts Manufacturing	
	3769	Guided Missile and Space Vehicle Parts and Auxiliary Equipment, Not Elsewhere Classified (except research and development not producing prototypes)	336419	Other Guided Missile and Space Vehicle Parts and Auxiliary Equipment Manufacturing	
	3792	Travel Trailers and Campers	336214	Travel Trailer and Camper Manufacturing	
	3795	Tanks and Tank Components	336992	Military Armored Vehicle, Tank, and Tank Component Manufacturing	
	3799	Transportation Equipment, Not Elsewhere Classified (wheelbarrows)	333924	Industrial Truck, Tractor, Trailer, and Stacker Machinery Manufacturing	
		(automobile, boat, utility and light truck trailers)	336214	Travel Trailer and Camper Manufacturing	
		(trailer hitches)	336399	All Other Motor Vehicle Parts Manufacturing	
		(except automobile, boat, utility light truck trailers, trailer hitches, and wheelbarrows)	336999	All Other Transportation Equipment Manufacturing	
Sector AC. Electronic, Electrical, Photographic and Optical Goods					
Sub- sector	SIC Codes		NAICS Codes		Notes
AC1	3571	Electronic Computers	334111	Electronic Computer Manufacturing	
	3572	Computer Storage Devices	334112	Computer Storage Device Manufacturing	
	3575	Computer Terminals	334113	Computer Terminal Manufacturing	
	3577	Computer Peripheral Equipment, Not Elsewhere Classified (except plotter controllers and magnetic tape head cleaners)	334119	Other Computer Peripheral Equipment Manufacturing	
		(plotter controllers)	334418	Printed Circuit Assembly (Electronic Assembly) Manufacturing	
(magnetic tape head cleaners)		334613	Magnetic and Optical Recording Media Manufacturing		

3578	Calculating and Accounting Machinery, Except Electronic Computers (change making machines)	333311	Automatic Vending Machine Manufacturing	
	(except point of sales terminals, change making machines and funds transfer devices)	333313	Office Machinery Manufacturing	
	(point of sale terminals and fund transfer devices)	334119	Other Computer Peripheral Equipment Manufacturing	
3579	Office Machines, Not Elsewhere Classified (except timeclocks, time stamps, pencil sharpeners, stapling machines, etc.)	333313	Office Machinery Manufacturing	
	(time clocks and other time recording devices)	334518	Watch, Clock, and Part Manufacturing	
	(pencil sharpeners, staplers and other office equipment)	339942	Lead Pencil and Art Good Manufacturing	
3612	Power, Distribution, and Specialty Transformers	335311	Power, Distribution, and Specialty Transformer Manufacturing	
3613	Switchgear and Switchboard Apparatus	335313	Switchgear and Switchboard Apparatus Manufacturing	
3621	Motors and Generators	335312	Motors and Generator Manufacturing	
3624	Carbon and Graphite Products	335991	Carbon and Graphite Product Manufacturing	
3625	Relays and Industrial Controls	335314	Relay and Industrial Control Manufacturing	
3629	Electrical Industrial Apparatus, Not Elsewhere Classified	335999	All Other Miscellaneous Electrical Equipment and Component Manufacturing	
3631	Household Cooking Equipment	335221	Household Cooking Appliance Manufacturing	
3632	Household Refrigerators and Home and Farm Freezers	335222	Household Refrigerator and Home Freezer Manufacturing	
3633	Household Laundry Equipment	335224	Household Laundry Equipment Manufacturing	
3634	Electric Housewares and Fans (wall and baseboard heating units for permanent installation)	333414	Heating Equipment (except Warm Air Furnaces) Manufacturing	
	(except wall and baseboard heating units for permanent installation, electronic cigarette lighters, and wall mount restroom hand dryers)	335211	Electric Housewares and Household Fan Manufacturing	
	(electronic cigarette lighters)	339999	All Other Miscellaneous Manufacturing	
3635	Household Vacuum Cleaners	335212	Household Vacuum Cleaner Manufacturing	
3639	Household Appliances, Not Elsewhere Classified (household sewing machines)	333298	All Other Industrial Machinery Manufacturing	

	(floor waxing and floor polishing machines)	335212	Household Vacuum Cleaner Manufacturing	
	(except floor waxing and floor polishing machines, and household sewing machines)	335228	Other Major Household Appliance Manufacturing	
3641	Electric Lamp Bulbs and Tubes	335110	Electric Lamp Bulbs and Part Manufacturing	
3643	Current-Carrying Wiring Devices	335931	Current-Carrying Wiring Device Manufacturing	
3644	Noncurrent-Carrying Wiring Devices (fish wire, electrical wiring tool)	332212	Hand and Edge Tool Manufacturing	Any facility whose primary activity is manufacturing fish wire, electrical wiring tool (SIC 3644 / NAICS 332212) should be regulated under Sector AA, but may continue to be regulated under Sector AC, or alternatively, under Sector AD. Sector AA applies additional technology-based effluent limits comprising good housekeeping measures, spill prevention and response, and spills and leaks; additional SWPPP requirements; and additional inspection requirements. Sector AC does not apply additional sector-specific requirements and EPA may establish facility-specific monitoring and reporting requirements under Sector AD. Regulatory burden would be greater under Sector AA.
	(except fishwire, electrical wiring tool)	335932	Noncurrent-Carrying Wiring Device Manufacturing	
3645	Residential Electric Lighting Fixtures	335121	Residential Electric Lighting Fixture Manufacturing	
3646	Commercial, Industrial, and Institutional Electric Lighting Fixtures	335122	Commercial, Industrial, and Institutional Electric Lighting Fixture Manufacturing	
3647	Vehicular Lighting Equipment	336321	Vehicular Lighting Equipment Manufacturing	
3648	Lighting Equipment, Not Elsewhere Classified	335129	Other Lighting Equipment Manufacturing	
3651	Household Audio and Video Equipment	334310	Audio and Video Equipment Manufacturing	

3652	Phonograph Records and Prerecorded Audio Tapes and Disks (reproduction of all other media except video)	334612	Prerecorded Compact Disc (except Software), Tape, and Record Reproducing	
3661	Telephone and Telegraph Apparatus (except consumer external modems)	334210	Telephone Apparatus Manufacturing	
	(consumer external modems)	334418	Printed Circuit Assembly (Electronic Assembly) Manufacturing	
3663	Radio and Television Broadcasting and Communications Equipment	334220	Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing	
3669	Communications Equipment, Not Elsewhere Classified	334290	Other Communications Equipment Manufacturing	
3671	Electron Tubes	334411	Electron Tube Manufacturing	
3672	Printed Circuit Boards	334412	Bare Printed Circuit Board Manufacturing	
3674	Semiconductors and Related Devices	334413	Semiconductor and Related Device Manufacturing	
3675	Electronic Capacitors	334414	Electronic Capacitor Manufacturing	
3676	Electronic Resistors	334415	Electronic Resistor Manufacturing	
3677	Electronic Coils, Transformers, and Other Inductors	334416	Electronic Coil, Transformer, and Other Inductor Manufacturing	
3678	Electronic Connectors	334417	Electronic Connector Manufacturing	
3679	Electronic Components, Not Elsewhere Classified			
	(antennas)	334220	Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing	
	(radio headphones)	334310	Audio and Video Equipment Manufacturing	
	(printed circuit/electronic assembly manufacturing)	334418	Printed Circuit Assembly (Electronic Assembly) Manufacturing	
	(other electronic components)	334419	Other Electronic Component Manufacturing	
3691	Storage Batteries	335911	Storage Battery Manufacturing	
3692	Primary Batteries, Dry and Wet	335912	Primary Battery Manufacturing	
3694	Electrical Equipment for Internal Combustion Engines	336322	Other Motor Vehicle Electrical and Electronic Equipment Manufacturing	
3695	Magnetic and Optical Recording Media	334613	Magnetic and Optical Recording Media Manufacturing	
3699	Electrical Machinery, Equipment, and Supplies, Not Elsewhere Classified (electronic teaching machines and flight simulators)	333319	Other Commercial and Service Industry Machinery Manufacturing	
	(outboard electric motors)	333618	Other Engine Equipment Manufacturing	Any facility whose primary activity is manufacturing outboard electric

				motors (SIC 3699 / NAICS 333618) should be regulated under Sector AB, but may continue to be regulated under Sector AC, or alternatively, under Sector AD. Sector AB applies additional sector-specific SWPPP requirements. Sector AC does not apply additional sector-specific requirements and EPA may establish facility-specific monitoring and reporting requirements under Sector AD. Regulatory burden would be greater under Sector AB.
	(laser welding and soldering equipment)	333992	Welding and Soldering Equipment Manufacturing	
	(Christmas tree lighting sets, electric insect lamps, electric fireplace logs, and trouble lights)	335129	Other Lighting Equipment Manufacturing	
	(other electrical industrial apparatus)	335999	All Other Miscellaneous Electrical Equipment and Component Manufacturing	
3812	Search, Detection, Navigation, Guidance, Aeronautical, and Nautical Systems and Instruments	334511	Search, Detection, Navigation, Guidance, Aeronautical, and Nautical System and Instrument Manufacturing	
3821	Laboratory Apparatus and Furniture	339111	Laboratory Apparatus and Furniture Manufacturing	
3822	Automatic Controls for Regulating Residential and Commercial Environments and Appliances	334512	Automatic Environmental Control Manufacturing for Residential, Commercial, and Appliance Use	
3823	Industrial Instruments for Measurement, Display, and Control of Process Variables; and Related Products	334513	Instruments and Related Products Manufacturing for Measuring, Displaying, and Controlling Industrial Process Variables	
3824	Totalizing Fluid Meters and Counting Devices	334514	Totalizing Fluid Meter and Counting Device Manufacturing	
3825	Instruments for Measuring and Testing of Electricity and Electrical Signals (automotive ammeters and voltmeters)	334514	Totalizing Fluid Meter and Counting Device Manufacturing	
	(except automotive instruments)	334515	Instrument Manufacturing for Measuring and Testing Electricity and Electrical Signals	

3826	Laboratory Analytical Instruments	334516	Analytical Laboratory Instrument Manufacturing	
3827	Optical Instruments and Lenses	333314	Optical Instruments and Lens Manufacturing	
3829	Measuring and Controlling Devices, Not Elsewhere Classified			
	(motor vehicle gauges)	334514	Totalizing Fluid Meter and Counting Device Manufacturing	
	(electronic chronometers)	334518	Watch, Clock, and Part Manufacturing	
	(except medical thermometers, electronic chronometers and motor vehicle gauges)	334519	Other Measuring and Controlling Device Manufacturing	
	(medical thermometers)	339112	Surgical and Medical Instrument Manufacturing	
3841	Surgical and Medical Instruments and Apparatus			<p>Any facility whose primary activity is manufacturing tranquilizer guns (SIC 3841 / NAICS 332994) should be regulated under Sector AA, but may continue to be regulated under Sector AC, or alternatively, under Sector AD. Sector AA applies additional technology-based effluent limits comprising good housekeeping measures, spill prevention and response, and spills and leaks; additional SWPPP requirements; and additional inspection requirements. Sector AC does not apply additional sector-specific requirements and EPA may establish facility-specific monitoring and reporting requirements under Sector AD.</p> <p>Regulatory burden would be greater under Sector AA.</p>
	(tranquilizer guns)	332994	Small Arms Manufacturing	
	(operating room tables)	339111	Laboratory Apparatus and Furniture Manufacturing	
	(except tranquilizer guns and operating room tables)	339112	Surgical and Medical Instrument Manufacturing	

3842	Orthopedic, Prosthetic, and Surgical Appliances and Supplies			Any facility whose primary activity is manufacturing incontinent pads and bed pads (SIC 3842 / NAICS 322291) should be regulated under Sector B, but may continue to be regulated under Sector AC, or alternatively, under Sector AD. Sectors B and AC do not apply additional sector-specific requirements. EPA may require additional facility-specific monitoring and reporting requirement under Sector AD. Regulatory burden is not expected to differ between Sectors B and AC.
	(incontinent pads and bed pads)	322291	Sanitary Paper Product Manufacturing	
	(electronic hearing aids)	334510	Electromedical and Electrotherapeutic Apparatus Manufacturing	
	(except electronic hearing aids, incontinent pads, anatomical models, and bed pads)	339113	Surgical Appliance and Supplies Manufacturing	
	(anatomical models)	339999	All Other Miscellaneous Manufacturing	
3843	Dental Equipment and Supplies	339114	Dental Equipment and Supplies Manufacturing	
3844	X-Ray Apparatus and Tubes and Related Irradiation Apparatus	334517	Irradiation Apparatus Manufacturing	
3845	Electromedical and Electrotherapeutic Apparatus			
	(except CT and CAT scanners)	334510	Electromedical and Electrotherapeutic Apparatus Manufacturing	
	(CT and CAT Scanners)	334517	Irradiation Apparatus Manufacturing	
3851	Ophthalmic Goods (intraocular lenses, i.e., surgical implants)	339113	Surgical Appliance and Supplies Manufacturing	
	(except intraocular lenses)	339115	Ophthalmic Goods Manufacturing	
3861	Photographic Equipment and Supplies (photographic films, paper, plates and chemicals)	325992	Photographic Film, Paper, Plate, and Chemical Manufacturing	
	(except photographic film, paper, plates, and chemicals)	333315	Photographic and Photocopying Equipment Manufacturing	
3873	Watches, Clocks, Clockwork Operated Devices, and Parts	334518	Watch, Clock, and Part Manufacturing	

Sector AD. Non-Classified Facilities

Sub-Sector	Narrative Description	Notes
AD1	Other stormwater discharges designated by the Director as needing a permit (see 40 CFR 122.26(a)(9)(i)(C) & (D)) or any facility discharging stormwater associated with industrial activity not described by any of Sectors A-AC. NOTE: Facilities may not elect to be covered under Sector AD. Only the Director may assign a facility to Sector AD.	

Appendix O - Summary of Reports Permit Submittals

Permit Section	Report/Submittal	Frequency	Due Date(s)	Where to Submit
Part 1.1.4.5	Endangered and Threatened Species Appendix E Criterion C Eligibility Form (Applicable only for operators seeking coverage under Part 1.1.4.5 eligibility criterion C).	Once, if applicable	At least 30 days prior to submitting the NOI for permit coverage	Email to msgpesa@epa.gov
Part 1.2	New Discharger: Submittal of Notice of Intent (NOI) for Permit Coverage	Once per permit term	A minimum of 30 days prior to commencing discharge	Electronically using the NPDES eReporting Tool (NeT) for MSGP
Part 1.2	Existing Discharger: Submittal of Notice of Intent (NOI) for Permit Coverage	Once per permit term	No later than September 2, 2015. However, if you have not previously obtained coverage under an NPDES permit, you must submit your NOI immediately.	Electronically using the NPDES eReporting Tool (NeT) for MSGP
Part 1.3	Notice of Termination	Once, if applicable	Within 30 days after: <ul style="list-style-type: none"> a new operator takes over responsibility for the facility; or operations and stormwater discharges have ceased; or for Sector G, H, or J facilities, the applicable termination requirements have been met; or alternative permit coverage has been obtained 	Electronically using the NPDES eReporting Tool (NeT) for MSGP
Part 1.4	Conditional "No Exposure" Certification Form	If eligible, once every 5 years	As necessary	Electronically using the NPDES eReporting Tool (NeT) for MSGP

Permit Section	Report/Submittal	Frequency	Due Date(s)	Where to Submit
Part 3.1.2	Routine Inspection Documentation	At least quarterly	By the end of the quarter.	Reports are kept with SWPPP
Part 3.2.2	Quarterly Visual Assessment Documentation	At least quarterly	By the end of the quarter.	Reports are kept with SWPPP
Part 4.4	Corrective Action Documentation	<ul style="list-style-type: none"> Document existence of corrective action condition within 24 hours of becoming aware of the condition Document corrective actions taken or to be taken within 14 days from the time of discovery of the condition 	As necessary	Reports are kept with SWPPP
Part 5 Part 7.3	Stormwater Pollution Prevention Plan (SWPPP)	<ul style="list-style-type: none"> Provide URL for SWPPP or provide SWPPP information directly on the NOI form. Update the on-site SWPPP as site conditions indicate. At minimum, the SWPPP must be modified based on corrective actions and deadlines required under Part 4.2. 	<p>Develop initial SWPPP prior to the submittal of NOI form.</p> <p>Update the SWPPP information included on URL or on NOI form, at a minimum, no later than 45 days after conducting the final routine facility inspection for the year.</p>	Electronically using the NPDES eReporting Tool (Net) for MSGP
Part 6 Part 7.4	Discharge Monitoring Reports (DMRs)	<ul style="list-style-type: none"> 1/quarter for benchmark monitoring 1/year for numeric effluent limitation monitoring 1/year for impaired waters monitoring 	Within 30 days of receiving your full laboratory results for all monitored outfalls during the reporting period.	Electronically using NetDMR
Part 7.5	Annual Report	1/year	By January 30th	Electronically using the NPDES eReporting Tool (Net) for MSGP
Part 7.6	Exceedance Report for Numeric Effluent Limitations	If applicable	30 days after lab results if 30-day follow-up monitoring indicates exceedance	<p>Follow-up monitoring submitted Electronically using NetDMR</p> <p>Exceedance reports submitted directly to the EPA Regional Office listed in Part 7.9.1 of the permit</p>

Permit Section	Report/Submittal	Frequency	Due Date(s)	Where to Submit
Part 7.7	Additional Reporting (Noncompliance endangering health, reportable quantity spills, etc.)	As necessary	Varies – see Part 7.7	

Appendix P - List of Federal CERCLA Sites

Part 1.1.4.10 of the MSGP has special requirements for discharges to a federal CERCLA site.³

If your facility discharges to one of the federal CERCLA sites listed below, you are ineligible for coverage under this permit, unless you notify the EPA Regional Office in advance and the EPA Regional Office determines that you are eligible for permit coverage. In determining eligibility for coverage under Part 1.1.4.10, the EPA Regional Office may evaluate whether you have included appropriate controls and implementation procedures designed to ensure your discharge will not lead to recontamination of aquatic media at the CERCLA Site, such that it would cause or contribute to a water quality standard exceedance. If it is determined that your facility discharges to a CERCLA Site listed below after you have obtained coverage under this permit, you must contact your applicable EPA Regional Office to develop appropriate controls and/or implementation procedures, as necessary, to ensure that your discharges will not lead to recontamination of aquatic media at the CERCLA Site such that they would cause or contribute to a water quality standard exceedance.

EPA Region 10		
<p>The CERCLA Sites and the receiving waters associated with these sites to which the requirements of Part 1.1.4.10 apply are listed in the table below. The areas where the permit applies are enumerated in Appendix C of the permit. For maps of CERCLA sites in Region 10 identified within this table, please check the Region 10 Superfund list viewable at http://yosemite.epa.gov/R10/cleanup.nsf/sites/cleanuplist.</p> <p>Operators who discharge / intend to discharge into the receiving waters listed below must first contact the EPA Regional Office before submitting an NOI. Contact information is viewable at: http://yosemite.epa.gov/r10/water.nsf/Stormwater/industrial/.</p> <p>Similarly, if you have received notice from EPA that the facility to be covered under the MSGP is considered a potential source to a clean up site, you must first contact the Regional EPA office before submitting an NOI.</p>		
	Waterbody (HUC code/Watershed)	Superfund Sites CERCLIS ID Latitude / Longitude Major Contaminants
ID	St. Joe River; Coeur d'Alene Lake Basin	St. Maries Creosote IDSFN1002095 47.191697 / -116.343000LPAHs, HPAHs

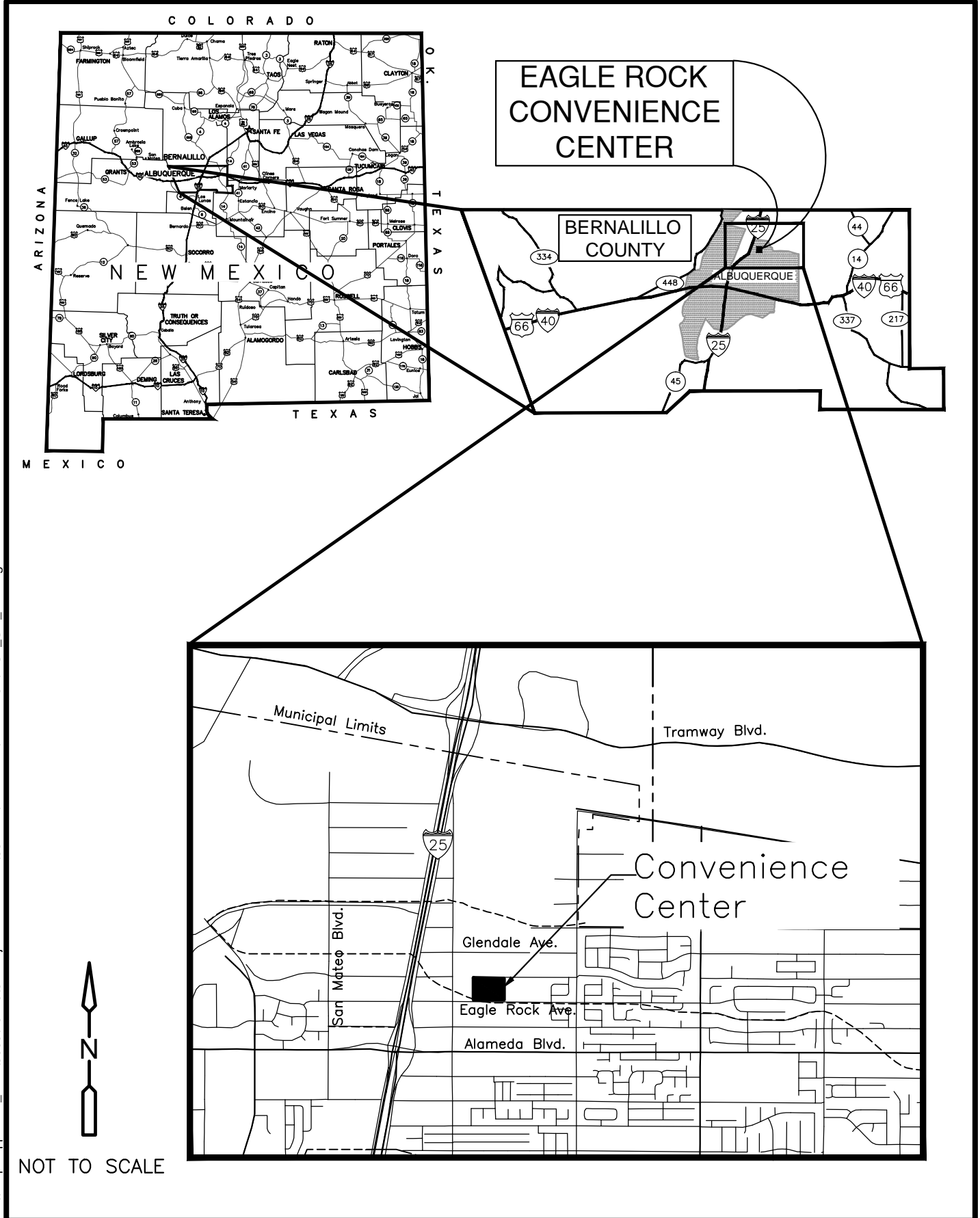
³ "CERCLA site" means a facility as defined in Section 101(9) of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), 42 U.S.C. § 9601(9), that is undergoing a remedial investigation and feasibility study, or for which a Record of Decision for remedial action has been issued in accordance with the National Contingency Plan, 40 C.F.R. Part 300.

WA	Commencement Bay, Puget Sound	Commencement Bay, Near Shore/Tide Flats WAD980726368 47.155998 / -122.245998 Dioxins, furans, arsenic, copper, lead, zinc, 4-methyl-phenol, Hex-CB, HPAHs, PCBs, PCE, cadmium, mercury, LPAHs
WA	Duwamish Waterway; Elliott Bay; Puget Sound	Harbor Island (Lead) WAD980722839 47.344584 / -122.210792 Lead, arsenic, copper, HPAHs, LPAHs, mercury, PCBs, zinc, TBT
WA	Clam Bay; Puget Sound	Old Navy Dump/ Manchester Lab WA8680030931 47.342798 / -122.325298 PCBs, copper, lead, zinc, silver, 2,4-dimethyl-phenol, PCBs
WA	Elliott Bay; Puget Sound	Pacific Sound Resources WAD009248287 47.345639 / -122.215998 LMWPAHs, HMWPAHs, PCBs
WA	Columbia River	Upper Columbia River (T2) WASFN1002171 47.5722 / -118.5846
WA	Puget Sound	Puget Sound Naval Shipyard WA2170023418 47.333298 / -122.384999 PCBs, mercury
WA	Puget Sound	Wycoff / Eagle Harbor WAD009248295 47.371798 / -122.310012 Mercury, LPAHs, HPAHs,
WA	Duwamish Waterway; Elliott Bay; Puget Sound	Lower Duwamish Waterway (T2) WA0002329803 47.321608 / -122.194040 PCBs, PAHs, phthalates, inorganics, mercury, semi-VOCs

APPENDIX C
FIGURES

Figure 1 ERCC General Location Map
Figure 2 ERCC Site, Drainage, and Activities Plan

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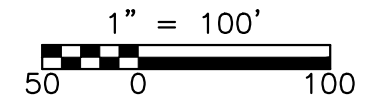


NOTES:

1. STORMWATER APPEARS TO DISCHARGE FROM THE SITE VIA TWO DETENTION BASINS, ONE ON THE SOUTHEAST CORNER OF THE PROPERTY AND THE OTHER IN THE CENTER OF THE PROPERTY.

OUTFALL ID: ER01
 APPROXIMATE LATITUDE: 35° 11' 17.85" N
 APPROXIMATE LONGITUDE: 106° 34' 25.90" W
 OUTFALL ID: ER02 - SIGNIFICANTLY IDENTICAL TO ER01
 APPROXIMATE LATITUDE: 35° 11' 16.96" N
 APPROXIMATE LONGITUDE: 106° 34' 25.97" W
 OUTFALL ID: ER03
 APPROXIMATE LATITUDE: 35° 11' 18.11" N
 APPROXIMATE LONGITUDE: 106° 34' 29.04" W

2. APPROXIMATE FACILITY PROPERTY AREA: 7 ACRES



LEGEND

	SPILL KIT		VEHICLE AND EQUIPMENT STORAGE
	APPROXIMATE DIRECTION OF STORMWATER FLOW		VEHICLE AND EQUIPMENT MAINTENANCE
	FACILITY BOUNDARY		VEHICLE AND EQUIPMENT WASHING
	OUTFALL APPROXIMATE LOCATION		VEHICLE AND EQUIPMENT FUELING
	DETENTION BASIN OVERFLOW STRUCTURE		

MATERIAL HANDLING

- ① MSW RECEIVING - 48-FT TRAILERS
WHITE GOODS RECEIVING - 48-FT TRAILERS
GREEN WASTE RECEIVING
- ② PORTABLE TOILETS
- ③ BIKE STORAGE
- ④ METALS
- ⑤ E-WASTE
- ⑥ HHW
- ⑦ BATTERY STORAGE
- ⑧ RECYCLABLES COLLECTION BINS
- ⑨ OFFICE

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APPENDIX D
EVALUATION OF NON-STORMWATER DISCHARGES

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**City of Albuquerque - Solid Waste Management Department
Eagle Rock Convenience Center**

**Inspection Log for
Non-Stormwater Discharges**

Instructions: Inspect facilities and outfalls for non-stormwater discharges following a 72-hour period of no precipitation. If non-stormwater discharges are observed, investigate source of discharge and determine if the discharge is allowable. Allowable non-stormwater discharges include fire hydrant flushing, discharges from firefighting activities, waterline flushing, landscape watering, external building wash down, and air conditioning condensate. Document inspection by completing log entry below and attaching photo log.

Date: 3/22/2016	Facilities:	Outfall(s):
Time: 8:00 AM	Non-Stormwater Discharge(s) Observed: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Non-Stormwater Discharge(s) Observed: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	If Yes, Allowable: <input type="checkbox"/> Yes <input type="checkbox"/> No	If Yes, Allowable: <input type="checkbox"/> Yes <input type="checkbox"/> No
Inspector: R. Larson	<u>Description/Notes:</u> No non-stormwater discharges were observed.	<u>Description/Notes:</u> No non-stormwater discharges were observed at ER01, ER02, or ER03.
Precipitation Occurred in Past 72 Hours: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

Date:	Facilities:	Outfall(s):
Time:	Non-Stormwater Discharge(s) Observed: <input type="checkbox"/> Yes <input type="checkbox"/> No	Non-Stormwater Discharge(s) Observed: <input type="checkbox"/> Yes <input type="checkbox"/> No
	If Yes, Allowable: <input type="checkbox"/> Yes <input type="checkbox"/> No	If Yes, Allowable: <input type="checkbox"/> Yes <input type="checkbox"/> No
Inspector:	<u>Description/Notes:</u>	<u>Description/Notes:</u>
Precipitation Occurred in Past 72 Hours: <input type="checkbox"/> Yes <input type="checkbox"/> No		

Date:	Facilities:	Outfall(s):
Time:	Non-Stormwater Discharge(s) Observed: <input type="checkbox"/> Yes <input type="checkbox"/> No	Non-Stormwater Discharge(s) Observed: <input type="checkbox"/> Yes <input type="checkbox"/> No
	If Yes, Allowable: <input type="checkbox"/> Yes <input type="checkbox"/> No	If Yes, Allowable: <input type="checkbox"/> Yes <input type="checkbox"/> No
Inspector:	<u>Description/Notes:</u>	<u>Description/Notes:</u>
Precipitation Occurred in Past 72 Hours: <input type="checkbox"/> Yes <input type="checkbox"/> No		

Date:	Facilities:	Outfall(s):
Time:	Non-Stormwater Discharge(s) Observed: <input type="checkbox"/> Yes <input type="checkbox"/> No	Non-Stormwater Discharge(s) Observed: <input type="checkbox"/> Yes <input type="checkbox"/> No
	If Yes, Allowable: <input type="checkbox"/> Yes <input type="checkbox"/> No	If Yes, Allowable: <input type="checkbox"/> Yes <input type="checkbox"/> No
Inspector:	<u>Description/Notes:</u>	<u>Description/Notes:</u>
Precipitation Occurred in Past 72 Hours: <input type="checkbox"/> Yes <input type="checkbox"/> No		

City of Albuquerque - Solid Waste Management Department
Eagle Rock Convenience Center

Inspection Log for
 Non-Stormwater Discharges

Instructions: Inspect facilities and outfalls for non-stormwater discharges following a 72-hour period of no precipitation. If non-stormwater discharges are observed, investigate source of discharge and determine if the discharge is allowable. Allowable non-stormwater discharges include fire hydrant flushing, discharges from firefighting activities, waterline flushing, landscape watering, external building wash down, and air conditioning condensate. Document inspection by completing log entry below and attaching photo log.

Date: _____	Facilities:	Outfall(s):
Time: _____	Non-Stormwater Discharge(s) Observed: <input type="checkbox"/> Yes <input type="checkbox"/> No	Non-Stormwater Discharge(s) Observed: <input type="checkbox"/> Yes <input type="checkbox"/> No
Inspector: _____	If Yes, Allowable: <input type="checkbox"/> Yes <input type="checkbox"/> No	If Yes, Allowable: <input type="checkbox"/> Yes <input type="checkbox"/> No
Precipitation Occurred in Past 72 Hours: <input type="checkbox"/> Yes <input type="checkbox"/> No	<u>Description/Notes:</u>	<u>Description/Notes:</u>

Date: _____	Facilities:	Outfall(s):
Time: _____	Non-Stormwater Discharge(s) Observed: <input type="checkbox"/> Yes <input type="checkbox"/> No	Non-Stormwater Discharge(s) Observed: <input type="checkbox"/> Yes <input type="checkbox"/> No
Inspector: _____	If Yes, Allowable: <input type="checkbox"/> Yes <input type="checkbox"/> No	If Yes, Allowable: <input type="checkbox"/> Yes <input type="checkbox"/> No
Precipitation Occurred in Past 72 Hours: <input type="checkbox"/> Yes <input type="checkbox"/> No	<u>Description/Notes:</u>	<u>Description/Notes:</u>

Date: _____	Facilities:	Outfall(s):
Time: _____	Non-Stormwater Discharge(s) Observed: <input type="checkbox"/> Yes <input type="checkbox"/> No	Non-Stormwater Discharge(s) Observed: <input type="checkbox"/> Yes <input type="checkbox"/> No
Inspector: _____	If Yes, Allowable: <input type="checkbox"/> Yes <input type="checkbox"/> No	If Yes, Allowable: <input type="checkbox"/> Yes <input type="checkbox"/> No
Precipitation Occurred in Past 72 Hours: <input type="checkbox"/> Yes <input type="checkbox"/> No	<u>Description/Notes:</u>	<u>Description/Notes:</u>

Date: _____	Facilities:	Outfall(s):
Time: _____	Non-Stormwater Discharge(s) Observed: <input type="checkbox"/> Yes <input type="checkbox"/> No	Non-Stormwater Discharge(s) Observed: <input type="checkbox"/> Yes <input type="checkbox"/> No
Inspector: _____	If Yes, Allowable: <input type="checkbox"/> Yes <input type="checkbox"/> No	If Yes, Allowable: <input type="checkbox"/> Yes <input type="checkbox"/> No
Precipitation Occurred in Past 72 Hours: <input type="checkbox"/> Yes <input type="checkbox"/> No	<u>Description/Notes:</u>	<u>Description/Notes:</u>



City of Albuquerque
Solid Waste Management Department
Eagle Rock Convenience Center
Inspection Photograph Log

Inspection performed on March 22, 2016 at 8:00 AM.

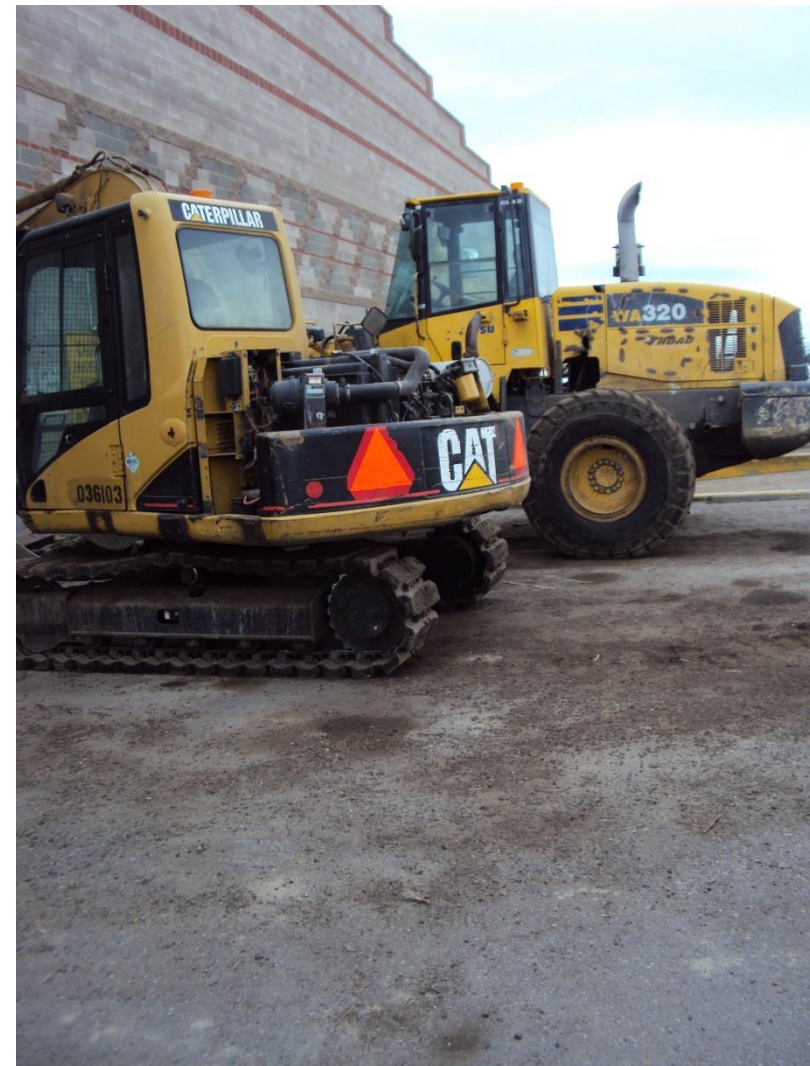
Inspector: R. Larson; A. Reed; J. Daugherty; S. Eaton



SWPPP – Photo Log



IMG_213: Stormwater Detention Basin



IMG_215: Heavy equipment storage area



SWPPP – Photo Log



IMG_217: Outfall ER02



IMG_221: Tipping Floor



SWPPP – Photo Log



IMG_226: Batteries and HHW storage area



IMG_227: Bikes and E-Waste storage area



SWPPP – Photo Log



IMG_230: Outfall ER01



IMG_232: Vehicle and equipment mobile fueling and maintenance area



SWPPP – Photo Log



IMG_234: Portable toilet storage area



IMG_236: Hose bib and hose for equipment wash down



SWPPP – Photo Log



IMG_241: Outfall ER03



IMG_242: Stormwater Detention Basin



SWPPP – Photo Log



IMG_246: Trailer driveway for waste collection



IMG_247: Detention basin overflow structure



SWPPP – Photo Log



IMG_249: Trailer tarping area



IMG_251: Recyclables collection bins



SWPPP – Photo Log



IMG_253: Vehicle and equipment storage area

**APPENDIX E
BEST MANAGEMENT PRACTICES
AND SPILL RESPONSE PLANS**

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City of Albuquerque - Solid Waste Management Department

Stormwater Pollution Prevention Plan

Best Management Practices

for the

Eagle Rock Convenience Center



Contents:

Solid Waste BMP 1.0 – General Best Management Practices

Solid Waste BMP 2.0 – Reduce Municipal Solid Waste Exposure to Stormwater

Solid Waste BMP 3.0 – Equipment Maintenance

Solid Waste BMP 4.0 – Proper Waste Storage and Processing of Non-Municipal Solid Waste

Solid Waste BMP 5.0 – Vehicle and Equipment Storage

Solid Waste BMP 6.0 – Structural Stormwater Controls

Prepared by:



6000 Uptown Blvd. NE, Suite 200
Albuquerque, NM 87110

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Solid Waste BMP 1.0

General Best Management Practices

► PURPOSE:

Prevent or reduce the discharge of pollutants to stormwater from all industrial operations with potential to impact stormwater.

► APPROACH TO EXISTING FACILITY ACTIVITIES:

GOOD HOUSEKEEPING

1.01 General

- Maintain exposed areas in a clean and orderly manner.
- Take necessary steps to prevent pollutants from contacting stormwater.

1.02 Clean Exterior Equipment Surfaces

- Perform all cleaning activities indoors or under cover when possible.
- Keep exterior surfaces of vehicles, equipment and containers clean by eliminating excessive amounts of external oil and grease buildup.
- Use water-based cleaning agents or non-chlorinated solvents to clean equipment, and collect and properly dispose of cleaning fluids.
- Use off-site commercial washing or "dry" washing and surface preparation techniques when possible.
- Wash vehicles and equipment in designated wash areas.
- Use drum-top absorbent pads to contain small leaks.

1.03 Cleaning Interior Floors and Tipping Floors

- Properly dispose of interior floor wash water, sweepings, and sediments.
- Collect and properly disposed of tipping floor wash water in an approved manner.

1.04 Recycle, Reduce, and Reuse

- Identify opportunities to recycle, reclaim, and/or reuse materials to reduce the volume of materials brought in to the facility and reduce the volume of waste.
- Materials that may be recycled or reused include used oil, grease, antifreeze, brake fluid, solvents, hydraulic fluid, batteries, transmission fluid, washwater, and waste fuel.

1.05 Product Substitution

- Use biodegradable products and substitute materials with less hazardous properties where feasible.

1.06 Limit Material Inventory

- Limit inventory of materials stored on-site to reduce the magnitude of potential spills and waste generation.

► TARGETED ACTIVITIES:

- Activities not covered by other BMPs.

► TARGETED POLLUTANTS:

- Fuels, oils, grease
- Potable water system flushing fluids
- Solvents
- Soaps, detergents
- MSW Leachate

► KEY APPROACHES:

- Keep outside areas maintained
- Store materials and equipment inside to the extent practical
- Conduct preventative maintenance
- Conduct regular inspections
- Train employees in stormwater pollution prevention techniques
- Document stormwater pollution prevention activities
- Maintain and post spill response plans



Solid Waste BMP 1.0

General Best Management Practices

MINIMIZE EXPOSURE OF POLLUTANTS TO STORMWATER

1.07 Storm-Resistant Shelters

- Where practicable, industrial materials and activities should be protected by a storm-resistant shelter to prevent exposure.

1.08 Mobile Refueling

- Cover or berm nearby storm drains and outlets to surface drains with spill control mats or block off with absorbent booms to prevent accidental release of pollutants in the event of a spill.
- Fuel equipment in designated areas, covered if possible.
- Maintain spill kits on fueling tankers.

PREVENTATIVE MAINTENANCE

1.09 Pollution Prevention

- For long term storage (>30 days), remove fluids and salvage batteries (which often drip oil and other fluids).

1.10 Design for Pollution Prevention

- Work with design and construction project managers to incorporate stormwater management features into project design.
- Evaluate existing facilities for opportunities to improve functionality and efficiency, and decrease the potential for stormwater pollution.
- Features may include:
 - Appropriate surface grading
 - Containment and/or cover
 - Stormwater quality structures (e.g., oil/water separators, dead-end sumps, first flush diversion basins)
 - Use of concrete paving rather than asphalt
 - Fluid recycling systems
 - Waste repositories
 - Other control measures to eliminate potential material exposure to stormwater

MANAGEMENT OF STORMWATER RUNOFF

1.11 Outdoor Water Supplies

- Limit availability of outdoor water supplies.
- Post signs at outdoor water sources identifying appropriate uses and discouraging uses that would introduce pollutants to the storm drain system/receiving waters.

SPILL PREVENTION AND RESPONSE

1.12 Spill Response Plans

- Post the plan in a visible location within each work area where spills are likely to occur.



Solid Waste BMP 1.0

General Best Management Practices

1.13 Maintain Spill Response Equipment and Supplies

- Maintain adequate supplies of spill response equipment and materials in accessible locations near areas where spills may be likely to occur, including on appropriate vehicles (maintenance vehicles) that may be likely to respond to or be involved in an incident.

1.14 Spill Containment and Response

- Immediately clean up all spills and leaks.
- Report all spills in accordance with the facility spill response plan.
- Use drip pans to contain leaks and absorbent booms, mats, or other devices to contain liquid materials (washwater, fuel, etc.) and prevent them from entering the storm drain system.
- Develop and implement a Spill Prevention Control and Countermeasure (SPCC) Plan, if required under guidelines set forth in 40 CFR, Section 112.3.

1.15 Procedures for Cleaning Up Spills and Leaks

- Use absorbent materials and spill control equipment for temporary and immediate control of spills and leaks of liquid materials.
- Absorbent materials can be used in conjunction with curbing to provide cleanup of small spills within a containment area.
- Collect and remove absorbent materials from area soon after use and dispose of in an appropriate manner.
- Hazardous waste spill response must be consistent with 40 CFR 264 and 265 (RCRA).

1.16 Disposal of Collected Fluids

- Properly dispose of any collected fluids (e.g., spill fluids, or fluids collected in fuel tanks, fueling hydrant sumps, oil/water separators, etc.) according to applicable regulations.
- Never discharge material to a catch basin or storm drain. Always dispose of materials in an approved manner; use an approved treatment facility through a permitted connection.

1.17 Minimizing Exposure

- Where practicable, industrial materials and activities will be protected by a storm resistant shelter to prevent exposure to rain or runoff.
- It is noted that due to the nature of the operations (routine service of large equipment) cover is not always practical.

ROUTINE FACILITY INSPECTIONS

1.18 Activity Inspections

- Perform frequent activity inspections to identify and eliminate non-stormwater discharges.
- Stagger inspection times to cover all work periods.
- Routine facility inspections shall be conducted at least once per annual quarter.

1.19 Inspections for Facility Upgrades

- Perform inspections during design review and project construction phases to ensure drainage, wastewater, and water supply connections are correct (no cross connections or illicit hookups).



Solid Waste BMP 1.0

General Best Management Practices

EMPLOYEE/CONTRACTOR TRAINING

1.20 General Employee Training

- Provide the appropriate level of employee training in the following areas:
 - Stormwater pollution prevention education,
 - Spill response and prevention,
 - Right-to-know awareness training, and
 - Hazardous materials management.

1.21 Stormwater Training

- Provide annual stormwater management training as required in the MSGP-2015, Part 2.1.2.8.
- Incorporate required elements in training program and maintain a log of employee attendance.

1.22 Contractor Education

- Provide haulers with copies of pertinent BMPs.
- Require hauler adherence to BMP specifications.

1.23 SPCC Training

- Provide adequate implementation training for facilities with a Spill Prevention Control and Countermeasure (SPCC) Plan, if required, developed under guidelines set forth in 40 CFR 112.3.

RECORDKEEPING AND REPORTING

1.24 Comply with Record Keeping and Reporting Requirements of the MSGP

- The record keeping and reporting requirements contained in the MSGP should be followed.

BUILDING AND GROUNDS MAINTENANCE

1.25 Disposal of Landscaping and Grounds Maintenance Waste

- Properly dispose of landscape waste, washwater, sweepings, and sediments.

1.26 Grounds/Landscaping Design Considerations

- Consider the following design characteristics for grounds/landscaping design:
 - Incorporate areas of landscape into project design. (Landscape areas are pervious and will result in less runoff discharge from a site.)
 - Incorporate design considerations such as leaving or planting native vegetation to reduce irrigation, fertilizer, and pesticides needs.
 - Select landscaping plants that require little maintenance and/or pest control.
 - Incorporate storm water detention/retention to reduce peak runoff flows and for water quality control.

1.27 Minimize Pesticide, Herbicide, and Fertilizer Use

- Minimize use of pesticides, herbicides, and fertilizers. Use according to directions. Utilize integrated pest management

1.28 Erosion Control

- Provide landscaped areas where erosion is becoming a problem.

Solid Waste BMP 2.0

Reduce Municipal Solid Waste Exposure to Stormwater



► PURPOSE:

Prevent or reduce the discharge of pollutants to stormwater from transfer of municipal solid waste (MSW) to containers. Prevent run-on and runoff from waste management areas.

► APPROACH TO EXISTING FACILITY ACTIVITIES:

GOOD HOUSEKEEPING

2.01 Disposal of Fluids

- Recycle or properly dispose of the following: grease, oils, antifreeze, brake fluid, cleaning solutions, hydraulic fluid, batteries, transmission fluid, and filters.

MINIMIZE EXPOSURE OF POLLUTANT TO STORMWATER

2.02 Perform Waste Transfer Activities Under Cover or on Paved Surfaces Where Practicable

- Where practicable, perform transfer activities and storage of materials and waste under cover and in contained area to prevent exposure of pollutants to stormwater and capture spills or leaks.
- Provide appropriate controls in waste transfer areas, such as cover, berms, sumps, oil/water separators or retention basins to protect storm drains and outfalls.

ROUTINE FACILITY INSPECTIONS

2.03 Waste Transfer Area Inspections

- Inspect loading/unloading areas for repair and patching.

NOTE: See BMP 1.0 for generally applicable measures related to Preventative Maintenance, Training, Runoff Management, and Record Keeping and Reporting.

► TARGETED ACTIVITIES:

- Transfer of Waste

► TARGETED POLLUTANTS:

- MSW leachate

► KEY APPROACHES:

- Transfer activities occur under cover and on paved surfaces
- Sloped tipping floor to drainage system
- Collect and properly dispose of all fluids
- Conduct preventative maintenance

Solid Waste BMP 2.0
Reduce Municipal Solid Waste Exposure to
Stormwater



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Solid Waste BMP 3.0 Equipment Maintenance

► PURPOSE:

Prevent or reduce the discharge of pollutants to stormwater by performing regularly scheduled equipment maintenance.

► APPROACH TO EXISTING FACILITY ACTIVITIES:

GOOD HOUSEKEEPING

3.01 Contain Drips, Leaks, and Spills

- Use drip pans when performing outdoor maintenance or use with equipment awaiting repair.
- Use adsorbent materials at potential problem areas. Adequately collect and remove adsorbent material from the area after use and dispose of in an appropriate manner.

3.02 Maintain Working Areas

- Do not hose down work areas or use concrete cleaning products unless the storm drain inlets are blocked and washwater is collected and properly disposed of through a permitted sewer connection.

MINIMIZE EXPOSURE OF POLLUTANT TO STORM WATER

3.03 Perform Maintenance Activities Indoors

- Where practicable, perform vehicle and equipment maintenance activities indoors to prevent exposure of pollutants to storm water.

SPILL PREVENTION AND RESPONSE

3.04 Spill Preparation Requirements

- Keep spill kits stocked and stored where spills are likely to occur.
- Provide secondary containment, store drums upright with contents being pumped out as required.

ROUTINE EQUIPMENT INSPECTIONS

3.05 Equipment Inspections

- Inspect equipment to determine working correctly and no leaks occurring. Replace worn equipment before leaks develop.

ROUTINE FACILITY INSPECTIONS

3.06 Working Area Inspections

- Perform regular inspections of equipment containing greases, oils, fuel, hydraulic fluid, antifreeze etc.
- Perform regular inspections of parts washers, hydraulic lifts, or other maintenance support components.

NOTE: See BMP 1.0 for generally applicable measures related to Preventative Maintenance, Training, Runoff Management, and Record Keeping and Reporting.

► TARGETED ACTIVITIES:

- Equipment Maintenance

► TARGETED POLLUTANTS:

- Fuels, oil, grease
- Antifreeze
- Hydraulic fluid

► KEY APPROACHES:

- Conduct maintenance indoors, or in covered area
- Collect and properly dispose of all fluids
- Provide spill kits
- Use secondary containment

Solid Waste BMP 3.0
Equipment Maintenance



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Solid Waste BMP 4.0

Proper Waste Storage and Processing of Non-Municipal Solid Waste



► PURPOSE:

Prevent or reduce the discharge of pollutants to stormwater from transfer and storage of household hazardous waste, recyclable material, green waste, and sanitary waste. Preventing run-on and runoff from non-municipal solid waste management areas.

► APPROACH TO EXISTING FACILITY ACTIVITIES:

GOOD HOUSEKEEPING

4.01 Material and Waste Handling

- Transfer, use and store liquid materials only in paved areas (if possible) to capture leaks, drips or spills.
- Designate central storage locations where materials are contained (i.e., curbing, secondary containment, etc.) and covered (if possible) to prevent contact with stormwater runoff and reduce the risks of accidental spills
- Segregate wastes to improve handling and promote recycling.
- All recyclables are stored in non-biodegradable and leak-proof containers.
- Household hazardous waste is stored under cover with secondary containment and spill kit in close proximity.

4.02 Signage for Storage Locations

- Post signs at all storage locations in clearly visible locations noting the materials stored, emergency contacts and spill cleanup procedures

4.03 Containers and Container Labeling

- Store all materials in their original containers or containers approved for that use.
- Clearly label all containers with the contents to prevent co-mingling of materials, storage of incompatibles, and improper handling and to promote proper material handling and storage.
- Utilize required labeling procedures for storage of all hazardous wastes.
- Identify and properly dispose of all unlabeled and unknown wastes.

4.04 Used Battery Management

- Store batteries on spill containment and under cover.
- Properly dispose or recycling stored batteries in 30 days or less.

4.05 Sanitary Facilities

- Collect all sanitary waste from portable facilities a minimum of one time per week by approved sanitary services.
- Remove leaking portable toilets from the facility and replace with new portable toilets.

► TARGETED ACTIVITIES:

- Solid Waste Storage
- Household Hazardous Waste Storage
- Recyclable Material Storage

► TARGETED POLLUTANTS:

- Fuel, Oils, Grease
- Solvents
- Hydraulic Fluid
- Soaps, Detergents
- Paints, Stains, and Sealants
- Paper, Plastic, Aluminum, Steel, Tin, Glass and Small Electronics
- Sanitary Waste

► KEY APPROACHES:

- Conduct loading and unloading under cover where possible
- Store materials indoors or under cover
- Store empty drums, containers on pallets
- Provide berming or secondary containment
- Drain fluids before storage
- Spill kit in close proximity
- Perform and document periodic inspections
- Check loading equipment regularly for leaks

Solid Waste BMP 4.0

Proper Waste Storage and Processing of Non-Municipal Solid Waste



PREVENTATIVE MAINTENANCE

4.06 Maintain Storage Areas

- Ensure secondary containment structure is leak tight and is free of cracks, etc.
- Remove accumulated waste in a timely manner.
- Spill response plans shall be posted in waste storage areas.
- Stocked spill response kits shall be available in waste storage areas.

ROUTINE FACILITY INSPECTIONS

4.07 Quarterly Inspections

- All waste storage, disposal, and processing areas shall be inspected as part of the routine facility inspections. Inspect secondary containment regularly and remove accumulated debris and fluids regularly.

4.08 Waste Transfer Area Inspections

- Inspect loading/unloading areas for repair and patching.

4.09 Portable Toilet Inspections

- Perform weekly visual inspections of portable toilet holding tanks for evidence of leaking.

RECORDKEEPING AND REPORTING

4.10 Track Waste Generation

- Characterize waste streams and maintain accurate information on waste streams using:
 - Manifests,
 - Bill of lading,
 - Biennial reports,
 - Permits,
 - Environmental Audits,
 - NPDES discharge monitoring reports,
 - SARA Title III reports,
 - Emission reports,
 - Data on chemical spills,
 - Inventory reports,
 - Emissions data, and
 - Safety Data Sheets (SDS)



Solid Waste BMP 5.0

Vehicle and Equipment Storage

► PURPOSE:

Prevent or reduce the discharge of pollutants to storm water from outdoor storage areas (i.e., fuels, chemicals, bagged material on pallets, soils or asphalt material bulk storage, etc.).

► APPROACH TO EXISTING FACILITY ACTIVITIES:

GOOD HOUSEKEEPING

5.01 Vehicles and Equipment Storage

- Use drip pans or specially-designed absorbent pads to contain releases.
- Repair leaks in an expeditious manner.
- Store vehicles and equipment in an area established to contain any incidental leaks and under cover, if possible.
- For long term storage (>30 days), remove fluids and salvage batteries (which often drip oil and other fluids).
- Clean oil, grease or chemical residue off exterior surfaces prior to long term storage.
- Store vehicles and equipment away from curbs, gutters and storm drains.

5.02 Temporary Parking of Roll-Off Trucks and Transfer Trailers

- Designate areas for parking roll-off trucks and transfer trailers where spills and leaks can be contained and cleaned.
- Use covered loading and unloading areas for transfer of potential pollutants (especially liquid materials), such as building overhangs, to reduce exposure of materials, vehicles, and equipment to storm water.

► APPROACH TO FUTURE FACILITIES AND UPGRADES:

DESIGN OF NEW FACILITIES AND EXISTING FACILITY UPGRADES

5.03 Design of New Facilities and Existing Facility Upgrades

- Require the use of appropriate water quality control structures for fuel and chemical storage areas such as detention/retention basins and sumps.
- Develop appropriate minimum performance standards for these water quality control structures and implement a reporting program to monitor the performance and maintenance of these structures.
- Chemical, fuel, and oil dispensing areas should be covered, if possible.
- Develop standard guidelines for the management of storm water which collects in secondary containment areas.

NOTE: See BMP 1.0 for generally applicable measures related to Preventative Maintenance, Training, Runoff Management, and Record Keeping and Reporting.

► TARGETED ACTIVITIES:

- Fuel, Chemical, Equipment Storage

► TARGETED POLLUTANTS:

- Fuel, Oils, Grease
- Solvents
- Hydraulic Fluid
- Soaps, Detergents

► KEY APPROACHES:

- Store materials indoors or under cover
- Store drums, containers on pallets
- Provide berming or secondary containment
- Drain fluids before storage
- Perform and document periodic inspections
- Designate storage areas away from storm drains

Solid Waste BMP 5.0
Vehicle and Equipment Storage



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Solid Waste BMP 6.0

Structural Stormwater Controls

► PURPOSE:

Select, implement, and maintain structural stormwater controls to manage the volume and/or quality of stormwater leaving the property. Stormwater volume controls should be installed to manage stormwater volume by delaying, diverting, or reducing the amount of stormwater runoff from the site. Stormwater quality controls should be installed to prevent pollutants from contacting stormwater or remove pollutants from stormwater.

► EXISTING STORM WATER CONTROLS:

GOOD HOUSEKEEPING

6.01 Property Maintenance

- Keep all waste contained to prevent fluids and/or debris from entering stormwater detention basins and other stormwater control structures.
- Prevent non-allowable stormwater discharges from occurring through proper training and implementation of physical control structures.
- Keep perimeter fencing flush with ground level to prevent erosion.
- Repair areas with significant erosion as necessary to prevent sediment accumulation.

PREVENTATIVE MAINTENANCE

6.02 Routine Maintenance for Stormwater Control Devices and Outfalls

- Perform regular cleaning of storm water control structures to ensure they are free and clear of debris and garbage.
- Remove accumulated sediment from control structures to prevent clogging of inlets and outlets. Accumulated sediment should be disposed of properly as pollutants are often attached to sediment particles.
- Clean storm drain covers and grates to remove accumulated debris. Check drain covers/grates for structural integrity.
- Replace adsorbent material within storm drain inserts, straw rolls, adsorbent booms, or other disposable media on a regular frequency to prevent accumulated storm water pollutants from being released.
- Maintain vegetation within drainage swales, ponds, and other structures.
- Regularly patch or repair storm water control devices (i.e., berms, etc.) to keep them in working order.

6.03 Maintain Catch Basins

- Regularly clean any catch basins which receive runoff from a maintenance area, especially after larger storms.
- Install and maintain catch basin filter inserts that assist in the removal of oil and grease, sediments and floatables.

► TARGETED ACTIVITIES:

- Containing Pollutants Onsite

► TARGETED POLLUTANTS:

- MSW Leachate
- Household Hazardous Waste
- Recyclable Materials
- Sediment
- Nutrients & Bacteria
- Trash
- Oil and Grease

► KEY APPROACHES:

- Maintain adequate retention
- Perform and document periodic inspections
- Properly dispose of all potential pollutants



Solid Waste BMP 6.0

Structural Stormwater Controls

6.04 Maintain Detention Basins

- Remove waste and or soil accumulations as needed.

Repair areas of significant erosion as necessary to prevent sediment accumulation.

6.05 Install Oil/Water Separators

- Either collect storm water in areas exposed to pollutants or install an appropriately-sized oil/water separator (regulatory agency approval maybe required).
- Oil/water separators are typically used in areas where the concentrations of petroleum hydrocarbons, floatables, or sediment maybe abnormally high and source control techniques are not very effective.
- There are two types of oil/water separators:
 - American Petroleum Institute (API) separator and
 - Coalescing plate separator (CPS).
- Design, sizing, and placement of oil/water separators is dependent on several factors including: tributary area, type of activity, pollutant type and concentration, and water temperature. Separators should be selected, sized and designed by a qualified engineer.

6.06 Maintain Sumps and Oil/Water Separators

- Regularly clean and maintain sump and oil/water separators. Characterize and properly dispose of cleaning waste.
- Replace oil absorbent pads as needed and always prior to the rainy season(s).
- Keep effluent shutoff valve closed during cleaning operations. Follow maintenance schedule and procedures for these activities.

6.07 Label Storm Drains

- Label storm drain inlets that they are to receive no wastes.

SPILL PREVENTION AND RESPONSE

6.08 Protect Structural Controls from Spills

- Develop spill response plans to protect storm drains, storm water conveyance structures, and other structural controls from coming into contact with storm water pollutants.
- Provide secondary containment, curbing, berms, or other physical means of separating chemicals and other potential storm water pollutants from storm water drainage and collection devices.

ROUTINE FACILITY INSPECTIONS

6.09 Storm Drain Inlet Inspections

- Perform quarterly visual inspections of discharge points into the storm drain system.
- Identify any non-storm water discharges, sediment, debris, or other potential contaminants that may be entering the storm drain system.
- Perform inspections of storm water control structures on a quarterly basis at minimum and after precipitation events.



Solid Waste BMP 6.0

Structural Stormwater Controls

- Inspections should cover:
 - Overall condition of the structure
 - Accumulation of sediment, vegetation, debris, and garbage at structure inlets, outlets, and within drainage ways
 - Integrity of the structure including damaged concrete or riprap
 - Evaluate erosion at and surrounding the control structure

6.10 Sump and Oil/Water Separator Inspection

- Regularly inspect sumps and oil/water separators to identify when preventative maintenance is needed.

► SELECTION OF NEW STORM WATER CONTROLS:

STORM WATER VOLUME CONTROLS

6.11 Storm Water Volume Controls

- Determine volume of site storm water runoff or runoff using the appropriate hydraulic analysis. Review potential storm water controls to ascertain whether the hydraulic conveyance threshold has been exceeded based on the quantitative results of the hydraulic analysis.
- Perform site assessment for the potential to incorporate low impact development strategies that will be effective in retaining storm water on site. Preference should be given to controls which retain storm water runoff and reduce the volume of storm water discharge to the downstream system.
- Select and evaluate the appropriate infiltration, harvest and use, or bioretention storm water controls:
 - Infiltration storm water controls: Infiltration trench, infiltration basin, bioretention basin with no underdrain, drywell, permeable pavement, and underground infiltration.
 - Harvest and use storm water controls: Cisterns and underground detention
 - Biotreatment storm water controls: Bioretention with underdrain, vegetated swale, vegetated filter strip, dry extended detention basin, wet detention basin, constructed wetland, and proprietary biotreatment.
- If possible use a treatment train of storm water controls to reduce uncertainty of effectiveness. Treatment train refers to the application of a series of storm water controls to improve effectiveness of the system.
- Install and locate storm water controls on site where most effective treatment is achieved.

STORM WATER QUALITY CONTROLS

6.12 Storm Water Quality Controls

- Select and evaluate the appropriate storm water control or combination of controls (treatment train) to improve storm water quality.
- Conduct a qualitative evaluation of site activities and potential pollutants generated on-site. In addition identify any pollutants causing impairment to receiving bodies of water that site storm water discharges to. Select storm water controls to minimize and reduce identified pollutants.
- Review removal efficiency of selected storm water control at one of the following URLs.
 - <http://www.bmpdatabase.org/>
 - <http://cfpub1.epa.gov/npdes/stormwater/menuofbmps/>
- Install and locate storm water controls on site where most effective treatment is achieved.

NOTE: See BMP 1.0 for generally applicable measures related to Preventative Maintenance, Training, Runoff Management, and Record Keeping and Reporting.

Solid Waste BMP 6.0
Structural Stormwater Controls



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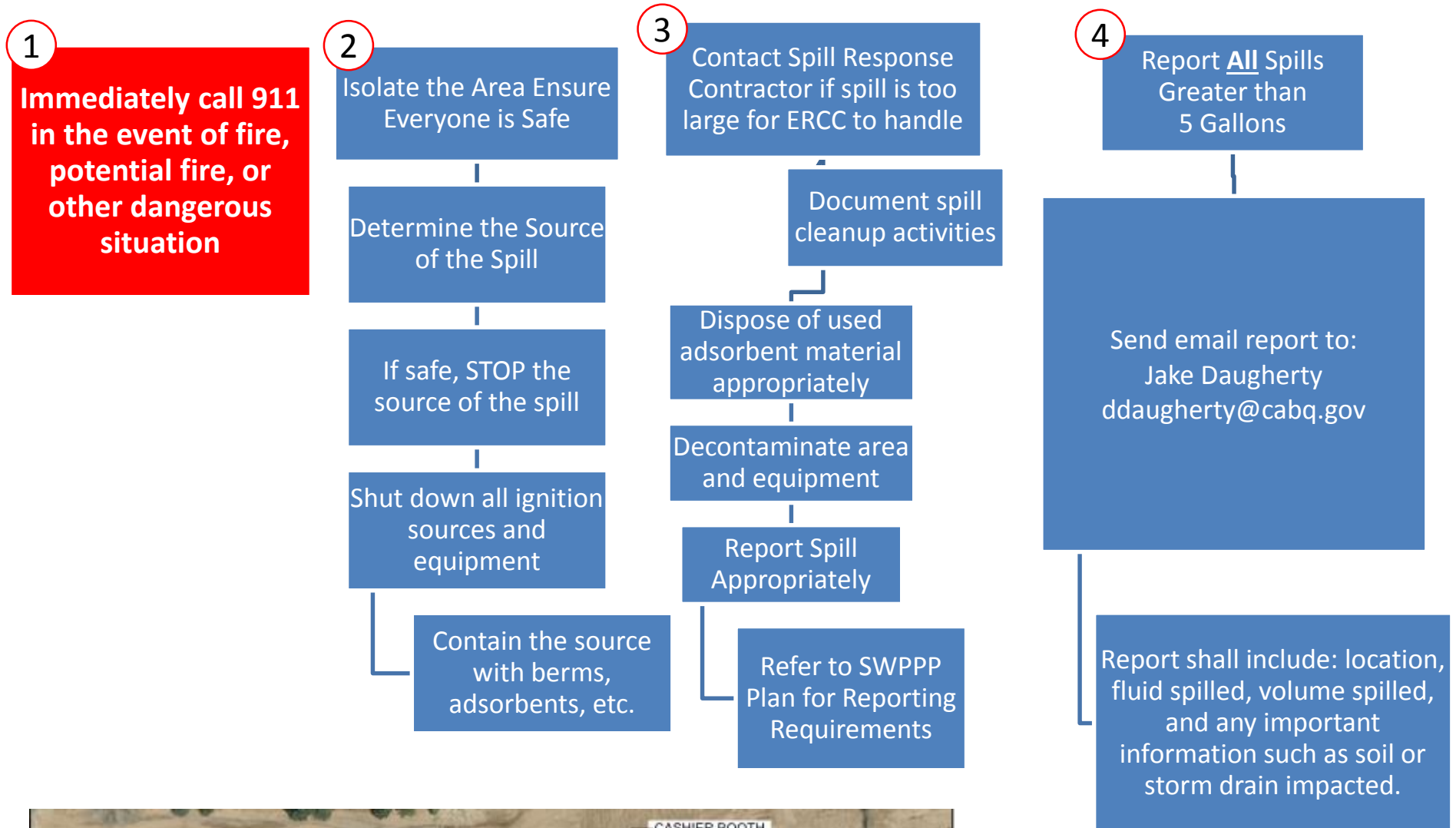


City of Albuquerque Solid Waste Management Department

Spill Response Plan

for the Eagle Rock Convenience Center

Primary Facility Emergency Contact	Jake Daugherty	(505) 761-8324
Secondary Emergency Contact	Steve Johnston	(505) 761-8328
Fire/Ambulance/Police	Emergency Non-Emergency	911 (505) 761-8324
Hospital	Lovelace	(505) 727-7800



MATERIAL HANDLING

- ① MSW RECEIVING - 48-FT TRAILERS
WHITE GOODS RECEIVING - 48-FT TRAILERS
GREEN WASTE RECEIVING
- ② PORTABLE TOILETS
- ③ BIKE STORAGE
- ④ METALS
- ⑤ E-WASTE
- ⑥ HHW
- ⑦ BATTERY STORAGE
- ⑧ RECYCLABLES COLLECTION BINS
- ⑨ OFFICE

LEGEND

SK	SPILL KIT	VEHICLE AND EQUIPMENT STORAGE
	APPROXIMATE DIRECTION OF STORMWATER FLOW	VEHICLE AND EQUIPMENT MAINTENANCE
	FACILITY BOUNDARY	VEHICLE AND EQUIPMENT WASHING
ER01	OUTFALL APPROXIMATE LOCATION	VEHICLE AND EQUIPMENT FUELING
	DETENTION BASIN OVERFLOW STRUCTURE	

**APPENDIX F
TRAINING RECORDS**

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APPENDIX G
ENDANGERED AND THREATENED SPECIES SCREENING MEMORANDUM

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Memorandum

*To: Jake Daugherty, Environmental Compliance Coordinator
City of Albuquerque Solid Waste Management Department*

From: Rochelle Larson, P.E.

Date: June 10, 2016

Subject: Solid Waste Management Dept. (SWMD) here in the City of Albuquerque (COA) Eagle Rock Convenience Center Documentation of Eligibility with respect to Endangered Species for Coverage under the Multi-Sector General Permit for Stormwater Discharges Associated with Industrial Activities (MSGP 2015)

This eligibility determination was completed in support of the COA SWMD Notices of Intent (NOIs) for coverage of the Eagle Rock Convenience Center (Eagle Rock CC) under the Multi-Sector General Permit (MSGP 2015) for Stormwater Discharges Associated with Industrial Activity. As part of the Stormwater Pollution Prevention Plan (SWPPP) development for the Eagle Rock CC, a review of threatened and endangered species was performed. The purpose of this review was to verify if there are any species that have been placed on the U.S. Fish and Wildlife Service's (FWS) threatened or endangered species list for the Action Area.

Using the methodology outlined in Appendix E of MSGP 2015, the Eagle Rock CC has been determined eligible for coverage under Criterion C related to endangered species protection. The endangered species data collected and the assessment of the potential effects of Eagle Rock CC discharges are described in this memorandum. The information is formatted in accordance with the requirements of MSGP 2015, Appendix E.

It is important that the Environmental Compliance Coordinator be up to date on the threatened and endangered species in the event that an issue regarding special status species at the Eagle Rock CC occurs. This information should also be conveyed to Eagle Rock CC staff.

Step One: Determine if Eligibility Requirements of Criterion B, D, or E Can Be Met

None of the eligibility requirements of Criteria B, D, or E apply to the Eagle Rock CC's operations. The Eagle Rock CC's activities are not covered under the eligibility certification of another operator for the project area (Criterion B requirement). Also, it has not been necessary for the Eagle Rock CC to conduct an Endangered Species Act (ESA) Section 7 consultation (a Criterion D requirement). Lastly, activities at the Eagle Rock CC are not part of a Habitat Conservation Plan under Section 10 of the ESA (a Criterion E requirement).

Step Two: Determine the Extent of Your Action Area

The Action Area, as defined in the MSGP 2015, includes “*all areas to be affected directly or indirectly by the federal action and not merely the immediate area involved in the action, including areas beyond the footprint of the facility that are likely to be affected by stormwater discharges, discharge-related activities, and allowable non-stormwater discharges.*” As such, Appendix E directs the evaluator to consider areas beyond the footprint of the facility including downstream areas that may be impacted by discharges of pollutants.

Using Appendix E directions, the Action Area was delineated using the subwatershed that contains the facility property, arroyos and channels that receive and convey stormwater discharges from the facility property and the Rio Grande as the ultimate receiving water. The tributaries and receiving waters considered are listed below:

- Unnamed channels, arroyos and finally the Rio Grande

Geographic Information System (GIS) mapping system was utilized to create the Action Area. The first step was to create the facility’s parcel shapefile from KMZ files. The next step was to determine which subwatershed was associated with the facility. The hydrography geodatabase (geodatabase) for the Albuquerque New Mexico area was downloaded from the United States Geological Survey (USGS) National Map Viewer website based on the facility’s shapefile (<http://viewer.nationalmap.gov>). The subwatershed was selected based on the location of the Eagle Rock CC parcel within the geodatabase. GIS was then used to create shapefiles of the Action Area at the 12-digit hydrologic unit code (HUC) subwatershed level. This subwatershed shapefile was used to perform Step 3. The Action Area was based on HUC12 subwatershed 130202030305, Arroyo de Domingo. The Action Area is shown on the figure included in the Criterion C Eligibility Form as Attachment 1.

Step Three: Determine if Listed Threatened or Endangered Species and Critical Habitat are Present in the Action Area.

The U.S. Fish & Wildlife Service (FWS) maintains an online mapping tool *Information, Planning and Consultation System* (IPaC) (<http://ecos.fws.gov/ipac/>), used to create area specific listings of endangered species. Imported GIS generated shapefile from Step 2 was used in IPaC to create the site specific special status species list. An Official Species List Request was performed and an Official Species List (List) was generated for the Action Area. The generated List of threatened or endangered species and critical habitat from the IPaC website is presented in Attachment 2.

Based on the List, there are a total of 6 federally-listed species, and 1 proposed and 2 final designated critical habitats (yellow cells), listed on **Table 1**, were determined to potentially occur in the Action Area.

Table 1 Threatened or Endangered Species listed for Action Areas

Common Name	Scientific Name	Species Group	Critical Habitat	Listing Status
Jemez Mountains salamander	(<i>Plethodon neomexicanus</i>)	Amphibians	Final Designated	E
Mexican Spotted owl	<i>Strix occidentalis lucida</i>	birds	Final designated	T
New Mexico meadow jumping mouse	<i>Zapus hudsonius luteus</i>	mammals	Proposed	E
Rio Grande silvery minnow	<i>Hybognathus amarus</i>	fishes	Final designated	E
Southwestern Willow flycatcher	<i>Empidonax traillii extimus</i>	birds	Final designated	E
Yellow-Billed Cuckoo	<i>Coccyzus americanus</i>	birds	Proposed	T

C – Candidate, E – Endangered, T – Threatened

Jemez Mountains salamander- Information provided through links from the FWS website indicates that the Jemez Mountains salamander lives underground in forest or meadow areas containing spaces provided by rocks with fractures or loose rocky soils; rotted tree root channels; or burrows of rodents or large invertebrates. These environmental conditions are substantially different than those present at the facility. Additionally, direct impacts to the species or its habitat are also unlikely as the designated critical habitat is not within the project area.

Mexican Spotted owl - Information provided through links from the FWS website indicates that the Mexican Spotted owl is not listed as being located within the geographic area of the Eagle Rock CC parcel. Direct impacts to the species or its habitat are also unlikely because habitat for the identified endangered species critical habitat is a significant distance from of the immediate area of the Eagle Rock CC parcel.

New Mexico meadow jumping mouse - Information provided on the FWS website indicates that the endangered New Mexico meadow jumping mouse resides in moist, streamside, dense riparian/wetland vegetation. These environmental conditions are substantially different than those present at the facility. Additionally, no designated critical habitat has been established for this species.

Rio Grande silvery minnow - Information provided through links from the FWS website indicates that the Rio Grande silvery minnow the Rio Grande silvery minnow are known or likely to be present, at least seasonally, in the Rio Grande. However, it is not listed as being located within the geographic area of the Eagle Rock CC parcel. Additionally, direct impacts to the species or its critical habitat are also unlikely because the habitat is over 3 miles from the Eagle Rock CC parcel.

Southwestern Willow flycatcher - Information provided through links from the FWS website indicates that the Southwestern Willow flycatcher is not listed as being located within the geographic area of the Eagle Rock CC parcel. Direct impacts to the species or its habitat are also unlikely because habitat for the identified endangered species critical habitat is a significant distance from of the immediate area of the Eagle Rock CC parcel.

Mr. Jake Daugherty
June 10, 2016
Page 4

Yellow-Billed Cuckoo - Information provided on the FWS website indicates that the candidate Yellow-Billed Cuckoo is found in areas of forest, woodland, and scrub during non-breeding months. These environmental conditions are substantially different than those present at these facility. While there is a proposed critical habitat for this species, there was no critical habitat identified within the facility's parcel.

Step Four: Determine If Your Industrial Facility's Discharges Or Discharge-Related Activities Are Likely To Adversely Affect Listed Threatened Or Endangered Species Or Designated Critical Habitat And Any Measures That Must Be Implemented To Avoid Adverse Effects

Step 4 was performed based on the list of endangered species and their potential or known habitat generated in Step 3. As such, an assessment of the Eagle Rock CC discharges and discharge related activities that could adversely affect the listed species and critical habitat was performed. The assessment included the completion of the Criterion C Eligibility Form utilizing current information and instructions. This section provides the information that was utilized to complete the Criterion C Eligibility Form.

Eagle Rock CC parcel

Industrial activity occurs within the approximate 7.0 acres of the facility's parcel. The facility's industrial operations occur within less than a percent of the drainage area of the 28 plus square mile Arroyo de Domingo subwatershed. Currently the stormwater flows from the parcel on the east (Outfall ERO2) and west (Outfall ER03) to two on-site stormwater detention basins, respectively, and is carried to the unnamed channel. The stormwater flows from the Eagle Rock CC are diluted by the significantly greater flow in the channels and arroyos it flows through prior to discharge into the Rio Grande. Appendix E of the MSGP indicates "*where a stormwater discharge constitutes a minute portion of the total volume of the receiving water, adverse hydrological effects are less likely.*" Adverse effects to receiving waters such as temperature, salinity, pH, or dissolved oxygen in the Rio Grande are considered remote.

Direct impacts to habitat are also unlikely because habitat for the identified endangered species is not present within or near the active facility's industrial area. Material storage, construction or maintenance of stormwater control measures at the facility will not impact habitat. Stormwater discharges from the parcels could contribute minimally to potential impacts to habitat in the event of an extreme precipitation event.

Attachments:

Criterion C Eligibility Form (including Attachment 1 and 2 within the form)

cc: file

Criterion C Eligibility Form

Instructions:

In order to be eligible for coverage under criterion C, you must complete the following form and you must submit it to EPA following the instructions in Section VII a **minimum of 30 days prior to filing your NOI for permit coverage**. After you submit your form, you may be contacted by EPA with additional measures (e.g., additional stormwater controls or modifications to your discharge-related activities) that you must implement in order to ensure your eligibility under criterion C.

If after completing this worksheet you cannot make a determination that your discharges and discharge-related activities are not likely to adversely affect listed threatened or endangered species or designated critical habitat, you must submit this completed worksheet to EPA, and you may not file your NOI for permit coverage until you receive a determination from EPA that your discharges and/or discharge-related activities are not likely to adversely affect listed species and critical habitat.

Note: Much of the information needed for this form can be obtained from your draft SWPPP which will be needed when you file your NOI.

SECTION I. OPERATOR, FACILITY, AND SITE LOCATION INFORMATION.

1) Operator Information

a) **Operator Name:** City of Albuquerque Solid Waste Management Department

b) **Point of Contact**

First Name: Jake **Last Name:** Daugherty

Phone Number: 505-761-8324

E-mail: ddaugherty@cabq.gov

2) Facility Information

a) **Facility Name:** Eagle Rock Convenience Center

b) **Check which of the following applies:**

I am seeking coverage under the MSGP as a new discharger or as a new source

I am seeking coverage under the MSGP as an existing discharger and my facility has modifications to its discharge characteristics (e.g., changes in discharge flow or area drained, different pollutants) and/or discharge-related activities (e.g., stormwater controls)

Indicate the number of years the facility has been in operation: _____ years

Provide your NPDES ID (i.e., permit tracking number) from your previous MSGP coverage: _____

I am seeking coverage under the MSGP as an existing discharger and there are no modifications to my facility.

Indicate the number of year the facility has been in operation: 23 years

Provide your NPDES ID (i.e., permit tracking number) from your previous MSGP coverage: _____

c) Facility Address:

Address 1: 6301 Eagle Rock Ave NE

Address 2: _____

City: Albuquerque State: NM Zip Code: 87113

d) Identify the primary industrial sector to be covered under the 2015 MSGP:

SIC Code 4212 or Primary Activity Code _____

Sector P and Subsector P1

e) Identify the sectors of any co-located activities to be covered under the 201r MSGP:

Sector N Subsector N2

Sector _____ Subsector _____

Sector _____ Subsector _____

Sector _____ Subsector _____

Sector _____ Subsector _____

Sector _____ Subsector _____

f) Estimated area of industrial activity exposed to stormwater: 7 acres

g) Provide a general description of the industrial activities that are taking place at this facility:

The Eagle Rock Convenience Center provides solid waste transfer and disposal services. The facility also provides short-term storage and transfer of traditional household recyclables, used bicycles, green waste, metals, white goods, and electronics. Waste is transferred to the Cerro Colorado Landfill. Other activities at ERCC include routine preventative maintenance and fueling for heavy equipment. Employees also perform wash down of the tipping floor and transfer trailers entering the truck stall.

3) Receiving Waters Information

List all the stormwater outfalls from your facility.				For each outfall, provide the following receiving water information:	
Outfall ID	Design Capacity (if known)	Latitude (decimal degrees)	Longitude (decimal degrees)	Name of the receiving water that receives stormwater from the outfall and/or from the MS4 that the outfall discharges to	Type of Waterbody (e.g., lake, pond, river/stream/creek, estuarine/marine water)
ER01		<u>_ 35.1883</u>	<u>106.5739</u>	Rio Grande	river
ER02		<u>_ 35.1880</u>	<u>106.5739</u>	Rio Grande	river
ER03		<u>_ 35.1884</u>	<u>106.5747</u>	Rio Grande	river
		<u>---</u>	<u>---</u>		
		<u>---</u>	<u>---</u>		

SECTION II. ACTION AREA

Ensure that your action area is described in [Attachment 1](#), as required in [Step 2](#).

SECTION III. LISTED SPECIES AND CRITICAL HABITAT LIST

Ensure that the listed species and critical habitat list is included in [Attachment 2](#), as required in [Step 3](#).

Review your species list in Attachment 2, choose one of the following three statements, and follow the corresponding instructions:

The species list includes only terrestrial species and/or their designated critical habitat. No aquatic or aquatic-dependent species or their critical habitat are present in the action area. **You may skip to [Section IV](#) of this form. You are not required to fill out [Section V](#).**

The species list includes only aquatic and/or aquatic-dependent species and/or their designated critical habitat. No terrestrial species or their critical habitat are present in the action area. **You may skip to [Section V](#) of this form and are not required to fill out [Section IV](#).**

The species list includes both terrestrial and aquatic or aquatic-dependent species and/or their designated critical habitat. **You must fill out both [Sections IV](#) and [V](#) of this form.**

Note: For the purposes of this permit, "terrestrial species" would not include animal or plant species that 1) spends any portion of its life cycle in a waterbody or wetland, or 2) if an animal, depends on prey or habitat that occurs in a waterbody or wetland. For example, shorebirds, wading birds, amphibians, and certain reptiles would not be considered terrestrial species under this definition. Please also be aware that some terrestrial animals (e.g., certain insects, amphibians) may have an aquatic egg or larval/juvenile phase.

SECTION IV. EVALUATION OF DISCHARGE-RELATED ACTIVITIES EFFECTS

Note: You are only required to fill out this section if your facility's action area contains terrestrial species and/or their designated critical habitat. If your action area only contains aquatic and/or aquatic-dependent species and/or their designated critical habitat, you can skip directly to [Section V](#).

Most of the potential effects related to coverage under the MSGP are assumed to occur to aquatic and/or aquatic-dependent species. However, in some cases, potential effects to terrestrial species and/or their critical habitat should be considered as well from any discharge-related activities that occur during coverage under the MSGP. Examples of discharge-related activities that could have potential effects on listed terrestrial species or their critical habitat include the storage of materials and land disturbances associated with stormwater management-related activities (e.g., the installation or placement of stormwater control measures).

A. Select the applicable statement(s) below and follow the corresponding instructions:

There are no discharge-related activities that are planned to occur during my coverage under the MSGP. You can conclude that your discharge-related activities will have no likely adverse effects, and:

- If there are any aquatic or aquatic-dependent species and/or their critical habitat in your action area, you must skip to [Section V](#), *Evaluation of Discharge Effects*, below.
- If there are no aquatic or aquatic-dependent species you may skip to [Section VI](#) and verify that your activities will have no likely adverse effects. You must submit this form to EPA as specified in [Section VII](#) of this form. You may select criterion C on your NOI form and may submit your NOI for permit coverage 30 days after you have submitted this *Criterion C Eligibility Form*. You must also provide a description of the basis for the criterion you selected on your NOI form, **including the species and critical habitat list(s) in your action area**, as well as any other documentation supporting your eligibility. You must also include this completed *Criterion C Eligibility Form* in your SWPPP.

There are discharge-related activities planned as part of the proposal. Describe your discharge-related activities in the following box and continue to (b) below.

Describe discharge-related activities:

B. In order to ensure any discharge-related activities will have no likely adverse effects on listed species and/or their designated critical habitat, you must certify that all the following are true:

Discharge-related activities will occur:

- on previously cleared/developed areas of the site where maintenance and operation of the facility are currently occurring or where existing conditions of the area(s) in which the discharge-related activities will occur precludes its use by listed species (e.g., work on existing impervious surfaces, work occurring inside buildings, area is not used by species), and
- if discharge-related activities will include the establishment of structures (including, but not limited to, infiltration ponds and other controls) or any related disturbances, these structures and/or disturbances will be sited in areas that will not result in isolation or degradation of nesting, breeding, or foraging habitat or other habitat functions for listed animal species (or their designated critical habitat), and will avoid the destruction of native vegetation (including listed plant species).

If vegetation removal (e.g., brush clearing) or other similar activities will occur, no terrestrial listed species that use these areas for habitat would be expected to be present during vegetation removal.

If all the above are true, you can conclude that your discharge-related activities will have no likely adverse effects, and:

- If there are any aquatic or aquatic-dependent species and/or critical habitat in your action area, you must skip to [Section V](#), *Evaluation of Discharge Effects*, below.
- If there are no aquatic or aquatic-dependent species you may skip to [Section VI](#) and verify that your activities will have no likely adverse effects. You must submit this form to EPA as specified in [Section VII](#) of this form. You may select criterion C on your NOI and may submit your NOI for permit coverage 30 days after you have submitted this completed form. You must also provide a description of the basis for the criterion you selected on your NOI form, **including the species and critical habitat list(s)**, and any other documentation supporting your eligibility. You must also include this completed *Criterion C Eligibility Form* in your SWPPP.
- **If any of the above are not true**, you cannot conclude that your discharge-related activities will have no likely adverse effects. You must complete the rest of this form (if applicable), and must submit the form to EPA for assistance in determining your eligibility for coverage.

SECTION V. EVALUATION OF DISCHARGE EFFECTS

Note: You are only required to fill out this section if your facility's action area includes aquatic and/or aquatic-dependent species and/or their critical habitat.

In this section, you will evaluate the likelihood of adverse effects from your facility's discharges. The scope of effects to consider will vary with each facility and species/critical habitat characteristics. The following are examples of discharge effects you should consider:

- *Hydrological Effects.* Stormwater discharges may adversely affect receiving waters from pollutant parameters such as turbidity, temperature, salinity, or pH. These effects will vary with the amount of stormwater discharged and the volume and condition of the receiving water. Where a stormwater discharge constitutes a minute portion of the total volume of the receiving water, adverse hydrological effects are less likely.
- *Toxicity of Pollutants.* Pollutants in stormwater may have toxic effects on listed species and may adversely affect critical habitat. Exceedances of benchmarks, effluent limitation guidelines, or state or tribal water quality requirements may be indicative of potential adverse effects on listed species or critical habitat. However, some listed species may be adversely affected at pollutant concentrations below benchmarks, effluent limitation guidelines, and state or tribal water quality standards. In addition, stormwater pollutants identified in Part 5.2.3.2 of your SWPPP, but not monitored as benchmarks or effluent limitation guidelines, may also adversely affect listed species and critical habitat.

As these effects are difficult to analyze for listed species, their prey, habitat, and designated critical habitat, this form helps you to analyze your discharges and make a determination of whether your discharges will have likely adverse effects and whether there are any additional controls you can implement to ensure no likely adverse effects.

A. Evaluation of Pollutants and Controls to Avoid Adverse Effects. In this section, you must document all of your pollutant sources and pollutants expected to be discharged in stormwater. You must also document the controls you will implement to avoid adverse effects on listed aquatic and aquatic-dependent species. You must include specific details about the expected effectiveness of the controls in avoiding adverse effects to the listed aquatic and aquatic-dependent species. Attach additional pages if needed.

Potential Pollutant Source	Potential Pollutants	Controls to Avoid Adverse Effects on Listed Aquatic and Aquatic-Dependent Species. Include information supporting why the control(s) will ensure no adverse effects, including any data you have about the effectiveness of the control(s) in reducing pollutant concentrations. You may also attach photos of your controls to this form.
<p>e.g., vehicle and equipment fueling</p>	<p>e.g.,</p> <ul style="list-style-type: none"> • Oil & grease • Diesel • Gasoline • TSS • Antifreeze 	<p>e.g.,</p> <ul style="list-style-type: none"> • Fueling operators (including the transfer of fuel from tank trucks) will be conducted on an impervious or contained pad or under cover • Drip pans will be used where leaks or spills of fuel can occur and where making and breaking hose connections • Spill kit will be kept on-site in close proximity to potential spill areas • Any spills will be cleaned-up immediately using dry clean up methods • Stormwater runoff will be diverted around fueling areas using diversion dikes and curbing

Potential Pollutant Source	Potential Pollutants	Controls to Avoid Adverse Effects on Listed Aquatic and Aquatic-Dependent Species.
Equipment Maintenance	Motor oil, antifreeze, grease/lubricant, and hydraulic fluid	Regularly scheduled equipment maintenance is performed on paved surfaces or indoors with spill kits stored nearby.
Mobile Fueling for Heavy Equipment	Diesel	Mobile fueling is carried out on paved surfaces with spill mats and spill kits stored nearby.
Household Hazardous Waste (HHW) Storage	Batteries, motor oils and fluids, cleaners, cooking oils, herbicides, insecticides, pesticides, paints, stains, and sealants	Secondary containment is utilized. Spill kits are stocked and stored where spills are likely to occur.
Recyclables storage	Paper, plastic, aluminum, steel, tin, small electronics, and bicycles	Recyclables are temporarily stored in dumpsters and/or in designated areas. Pallets are used for temporary storage of E-Waste, metals, etc. (to minimize contact with stormwater). Recyclables are transferred directly into collection trucks when dumpsters are full.
Sanitary Facilities	Bacteria, parasites, and viruses	Regularly scheduled inspections are performed and facilities are placed on paved surfaces or indoors with spill kits stored nearby.

Potential Pollutant Source	Potential Pollutants	Controls to Avoid Adverse Effects on Listed Aquatic and Aquatic-Dependent Species.
Vehicle and Equipment Storage	Motor oil, antifreeze, grease/lubricant, hydraulic fluid, diesel, and gasoline	Storage of vehicle and equipment is on paved surfaces and/or away from storm drains. Vehicles and equipment are regularly inspected for leaks.
Waste transferring activities	Municipal Solid Waste leachate, non-hazardous solid waste, green waste	Municipal solid waste is transferred on paved surfaces directly into open top transfer trailers. Once full, trailers are covered with netting and hauled to the landfill.

Check if you are not able to make a preliminary determination that any of your pollutants will be controlled to a level necessary to avoid adverse effects on aquatic and/or aquatic-dependent listed species and their designated critical habitat. You must check in Section VI that you are unable to make a determination of no likely adverse effects, and must complete the rest of the form. You must submit your completed form to EPA for assistance in determining your eligibility for coverage.

B. Analysis of Effects Based on Past Monitoring Data. Select which of the following applies to your facility:

I have no previous monitoring data for my facility because there are no applicable monitoring requirements for my facility's sector(s).

I have no previous monitoring data for my facility because I am a new discharger or a new source, but I am subject to monitoring under the 2015 MSGP. You must provide information to support a conclusion that your facility's discharges are not expected to result in benchmark or numeric effluent limit exceedances that will adversely affect listed species or their critical habitat:

My facility has not had any exceedances under the 2008 MSGP of any required benchmark(s) or numeric effluent limits.

My facility has had exceedances of one or more benchmark(s) or numeric effluent limits under the 2008 MSGP, but I have addressed them during my coverage under the 2008 MSGP, or in my evaluation of controls to avoid adverse effects in (A) above. Describe all actions (including specific controls) that you will implement to ensure that the pollutants in your discharge(s) will not result in likely adverse effects from future exceedances.

Check if your facility has had exceedances of one or more benchmarks or numeric effluent limits under the 2008 MSGP and you have not been able to address them to avoid adverse effects from future exceedances, or if you are a new discharger or a new source but you are not sure if you can avoid adverse effects from possible exceedances. You must check in [Section VI](#) that you are unable to make a determination of no likely adverse effects. You must submit your completed form to EPA for assistance in determining your eligibility for coverage. You may not file your NOI for permit coverage until you are able to make a determination that your discharges will avoid adverse effects on listed species and designated critical habitat.

SECTION VI VERIFICATION OF PRELIMINARY EFFECTS DETERMINATION

Based on Steps I – V of this form, you must verify your preliminary determination of effects on listed species and designated critical habitat from your discharges and/or discharge-related activities :

Following the applicable Steps in I – V above, I have made a preliminary determination that my discharges and/or discharge-related activities are not likely to adversely affect listed species and designated critical habitats.

Following the applicable Steps in I – V above, I am **not** able to make a preliminary determination that my discharges and/or discharge-related activities are not likely to adversely affect listed species and designated critical habitats.

Certification Information

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 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.

Attachment 1

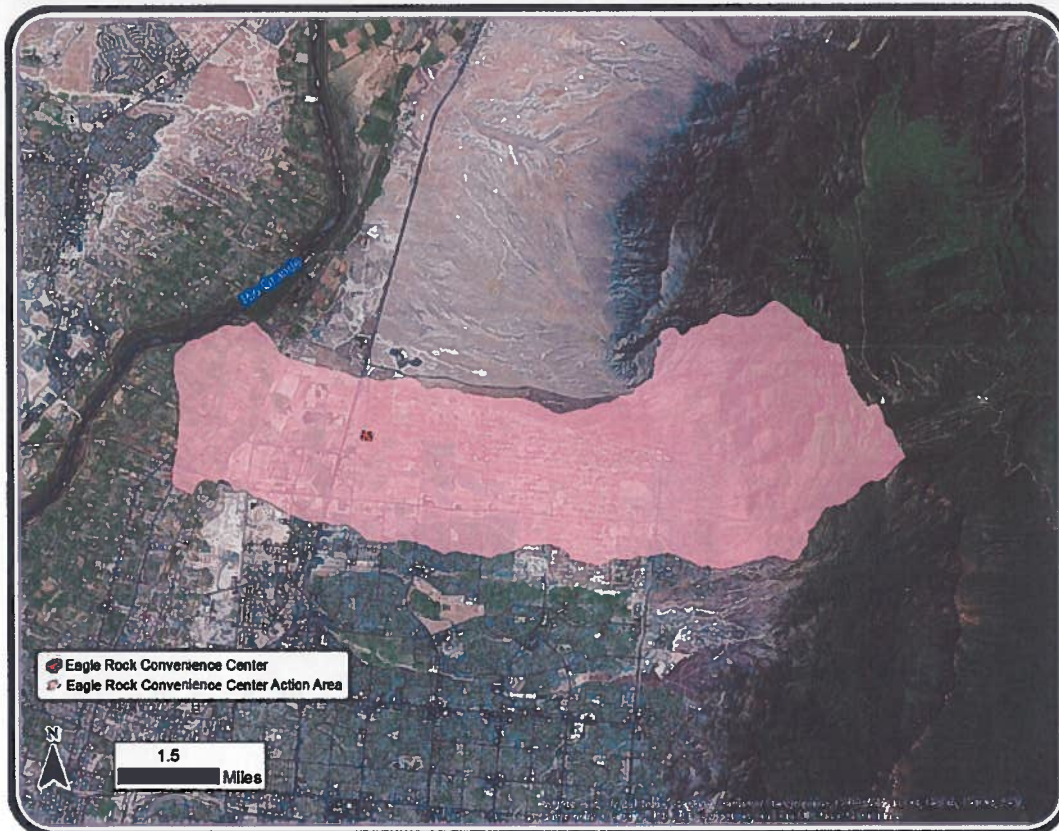
Include a map **and a written description** of the action area of your facility, as required in [Step 2](#). You may choose to include the map that is generated from the FWS' on-line mapping tool IPaC (the *Information, Planning, and Consultation System*) located at <http://ecos.fws.gov/ipac/>.

The written description of your action area that accompanies your action area map must explain your rationale for the extent of the action area drawn on your map. For example, your action area written description may look something like this:

The action area for the (name of your facility)'s stormwater discharges extends downstream from the outfall(s) in (name of receiving waterbody) (# of meters/feet/kilometers/miles). The downstream limit of the action area reflects the approximate distance at which the discharge waters and any pollutants would be expected to cause potential adverse effects to listed species and/or critical habitat because (insert rationale). The action area does/does not extend to the (name of receiving waterbody)'s confluence with (name of confluence waterbody) because (insert rationale).

Note that you action area written description will be highly site-specific, depending on the expected effects of your facility's discharges and discharge-related activities, receiving waterbody characteristics, etc.

The Action Area was delineated using the subwatershed [12-digit hydrologic unit code (HUC)] that contains the facility property, arroyos and channels that receive and convey stormwater discharges from the property to the Rio Grande (ultimate receiving water). As such the Action Area was based on the Arroyo de Domingo (HUC 130202030305) subwatershed.



Attachment 2

List or attach the listed species and critical habitat in your action area on this sheet, as required in Step 3. You must include a list for applicable listed NMFS and FWS species and critical habitat. If there are listed species and/or critical habitat for only one Service, you must include a statement confirming there are no listed species and/or critical habitat for the other Service. For FWS species, include the full printout from your IPaC query. *Note: If your Official Species List from the USFWS indicated no species or critical habitat were present in your action area, include the full consultation tracking code at the top of your Official Species List in your NOI submittal in the question "Provide a brief summary of the basis for the criterion selected in Appendix E." If an Official Species List was not available on IPaC, list the contact date and name of the Service staff with whom you corresponded to identify the existence of any USFWS species or critical habitat present in your action area.*

See attached listed species and critical habitat generated utilizing the FWS IPaC query tool.



United States Department of the Interior



FISH AND WILDLIFE SERVICE
New Mexico Ecological Services Field Office
2105 OSUNA ROAD NE
ALBUQUERQUE, NM 87113
PHONE: (505)346-2525 FAX: (505)346-2542
URL: www.fws.gov/southwest/es/NewMexico/;
www.fws.gov/southwest/es/ES_Lists_Main2.html

Consultation Code: 02ENNM00-2016-SLI-0526

May 10, 2016

Event Code: 02ENNM00-2016-E-00553

Project Name: Eagle Rock Convenience Center SWPPP

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

Thank you for your recent request for information on federally listed species and important wildlife habitats that may occur in your project area. The U.S. Fish and Wildlife Service (Service) has responsibility for certain species of New Mexico wildlife under the Endangered Species Act (ESA) of 1973 as amended (16 USC 1531 et seq.), the Migratory Bird Treaty Act (MBTA) as amended (16 USC 701-715), and the Bald and Golden Eagle Protection Act (BGEPA) as amended (16 USC 668-668c). We are providing the following guidance to assist you in determining which federally imperiled species may or may not occur within your project area and to recommend some conservation measures that can be included in your project design.

FEDERALLY-LISTED SPECIES AND DESIGNATED CRITICAL HABITAT

Attached is a list of endangered, threatened, and proposed species that may occur in your project area. Your project area may not necessarily include all or any of these species. Under the ESA, it is the responsibility of the Federal action agency or its designated representative to determine if a proposed action "may affect" endangered, threatened, or proposed species, or designated critical habitat, and if so, to consult with the Service further. Similarly, it is the responsibility of the Federal action agency or project proponent, not the Service, to make "no effect" determinations. If you determine that your proposed action will have "no effect" on threatened or endangered species or their respective critical habitat, you do not need to seek concurrence with the Service. Nevertheless, it is a violation of Federal law to harm or harass any federally-listed threatened or endangered fish or wildlife species without the appropriate permit.

If you determine that your proposed action may affect federally-listed species, consultation with the Service will be necessary. Through the consultation process, we will analyze information

contained in a biological assessment that you provide. If your proposed action is associated with Federal funding or permitting, consultation will occur with the Federal agency under section 7(a)(2) of the ESA. Otherwise, an incidental take permit pursuant to section 10(a)(1)(B) of the ESA (also known as a habitat conservation plan) is necessary to harm or harass federally listed threatened or endangered fish or wildlife species. In either case, there is no mechanism for authorizing incidental take "after-the-fact." For more information regarding formal consultation and HCPs, please see the Service's Consultation Handbook and Habitat Conservation Plans at www.fws.gov/endangered/esa-library/index.html#consultations.

The scope of federally listed species compliance not only includes direct effects, but also any interrelated or interdependent project activities (e.g., equipment staging areas, offsite borrow material areas, or utility relocations) and any indirect or cumulative effects that may occur in the action area. The action area includes all areas to be affected, not merely the immediate area involved in the action. Large projects may have effects outside the immediate area to species not listed here that should be addressed. If your action area has suitable habitat for any of the attached species, we recommend that species-specific surveys be conducted during the flowering season for plants and at the appropriate time for wildlife to evaluate any possible project-related impacts.

Candidate Species and Other Sensitive Species

A list of candidate and other sensitive species in your area is also attached. Candidate species and other sensitive species are species that have no legal protection under the ESA, although we recommend that candidate and other sensitive species be included in your surveys and considered for planning purposes. The Service monitors the status of these species. If significant declines occur, these species could potentially be listed. Therefore, actions that may contribute to their decline should be avoided.

Lists of sensitive species including State-listed endangered and threatened species are compiled by New Mexico state agencies. These lists, along with species information, can be found at the following websites:

Biota Information System of New Mexico (BISON-M): www.bison-m.org

New Mexico State Forestry. The New Mexico Endangered Plant Program: www.emnrd.state.nm.us/SFD/ForestMgt/Endangered.html

New Mexico Rare Plant Technical Council, New Mexico Rare Plants: nmrareplants.unm.edu

Natural Heritage New Mexico, online species database: nhnm.unm.edu

WETLANDS AND FLOODPLAINS

Under Executive Orders 11988 and 11990, Federal agencies are required to minimize the destruction, loss, or degradation of wetlands and floodplains, and preserve and enhance their natural and beneficial values. These habitats should be conserved through avoidance, or mitigated to ensure that there would be no net loss of wetlands function and value.

We encourage you to use the National Wetland Inventory (NWI) maps in conjunction with ground-truthing to identify wetlands occurring in your project area. The Service's NWI program website, www.fws.gov/wetlands/Data/Mapper.html integrates digital map data with other resource information. We also recommend you contact the U.S. Army Corps of Engineers for permitting requirements under section 404 of the Clean Water Act if your proposed action could impact floodplains or wetlands.

MIGRATORY BIRDS

The MBTA prohibits the taking of migratory birds, nests, and eggs, except as permitted by the Service's Migratory Bird Office. To minimize the likelihood of adverse impacts to migratory birds, we recommend construction activities occur outside the general bird nesting season from March through August, or that areas proposed for construction during the nesting season be surveyed, and when occupied, avoided until the young have fledged.

We recommend review of Birds of Conservation Concern at website www.fws.gov/migratorybirds/CurrentBirdIssues/Management/BCC.html to fully evaluate the effects to the birds at your site. This list identifies birds that are potentially threatened by disturbance and construction.

BALD AND GOLDEN EAGLES

The bald eagle (*Haliaeetus leucocephalus*) was delisted under the ESA on August 9, 2007. Both the bald eagle and golden eagle (*Aquila chrysaetos*) are still protected under the MBTA and BGEPA. The BGEPA affords both eagles protection in addition to that provided by the MBTA, in particular, by making it unlawful to "disturb" eagles. Under the BGEPA, the Service may issue limited permits to incidentally "take" eagles (e.g., injury, interfering with normal breeding, feeding, or sheltering behavior nest abandonment). For information on bald and golden eagle management guidelines, we recommend you review information provided at www.fws.gov/midwest/eagle/guidelines/bgepa.html.

On our web site www.fws.gov/southwest/es/NewMexico/SBC_intro.cfm, we have included conservation measures that can minimize impacts to federally listed and other sensitive species. These include measures for communication towers, power line safety for raptors, road and highway improvements, spring developments and livestock watering facilities, wastewater facilities, and trenching operations.

We also suggest you contact the New Mexico Department of Game and Fish, and the New Mexico Energy, Minerals, and Natural Resources Department, Forestry Division for information regarding State fish, wildlife, and plants.

Thank you for your concern for endangered and threatened species and New Mexico's wildlife habitats. We appreciate your efforts to identify and avoid impacts to listed and sensitive species in your project area. For further consultation on your proposed activity, please call 505-346-2525 or email nmesfo@fws.gov and reference your Service Consultation Tracking Number.

Attachment



United States Department of Interior
Fish and Wildlife Service

Project name: Eagle Rock Convenience Center SWPPP

Official Species List

Provided by:

New Mexico Ecological Services Field Office

2105 OSUNA ROAD NE

ALBUQUERQUE, NM 87113

(505) 346-2525

<http://www.fws.gov/southwest/es/NewMexico/>

http://www.fws.gov/southwest/es/ES_Lists_Main2.html

Consultation Code: 02ENNM00-2016-SLI-0526

Event Code: 02ENNM00-2016-E-00553

Project Type: ** OTHER **

Project Name: Eagle Rock Convenience Center SWPPP

Project Description: Eagle Rock Convenience Center SWPPP eligibility determination related to endangered species.

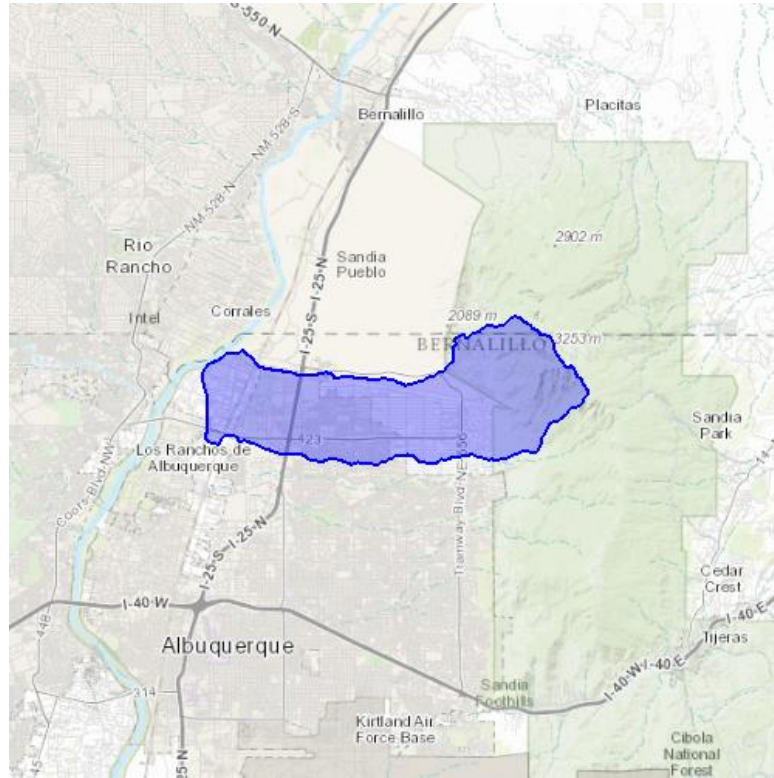
Please Note: The FWS office may have modified the Project Name and/or Project Description, so it may be different from what was submitted in your previous request. If the Consultation Code matches, the FWS considers this to be the same project. Contact the office in the 'Provided by' section of your previous Official Species list if you have any questions or concerns.



United States Department of Interior
Fish and Wildlife Service

Project name: Eagle Rock Convenience Center SWPPP

Project Location Map:



Project Coordinates: The coordinates are too numerous to display here.

Project Counties: Bernalillo, NM | Sandoval, NM



United States Department of Interior
Fish and Wildlife Service

Project name: Eagle Rock Convenience Center SWPPP

Endangered Species Act Species List

There are a total of 6 threatened or endangered species on your species list. Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Critical habitats listed under the **Has Critical Habitat** column may or may not lie within your project area. See the **Critical habitats within your project area** section further below for critical habitat that lies within your project. Please contact the designated FWS office if you have questions.

Amphibians	Status	Has Critical Habitat	Condition(s)
Jemez Mountains salamander (<i>Plethodon neomexicanus</i>)	Endangered	Final designated	
Birds			
Mexican Spotted owl (<i>Strix occidentalis lucida</i>) Population: Entire	Threatened	Final designated	
Southwestern Willow flycatcher (<i>Empidonax traillii extimus</i>) Population: Entire	Endangered	Final designated	
Yellow-Billed Cuckoo (<i>Coccyzus americanus</i>) Population: Western U.S. DPS	Threatened	Proposed	
Fishes			
Rio Grande silvery minnow (<i>Hybognathus amarus</i>) Population: Entire, except where listed as an experimental population	Endangered	Final designated	
Mammals			



United States Department of Interior
Fish and Wildlife Service

Project name: Eagle Rock Convenience Center SWPPP

New Mexico meadow jumping mouse (<i>Zapus hudsonius luteus</i>)	Endangered	Proposed	
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United States Department of Interior
Fish and Wildlife Service

Project name: Eagle Rock Convenience Center SWPPP

Critical habitats that lie within your project area

The following critical habitats lie fully or partially within your project area.

Birds	Critical Habitat Type
Mexican Spotted owl (<i>Strix occidentalis lucida</i>) Population: Entire	Final designated
Yellow-Billed Cuckoo (<i>Coccyzus americanus</i>) Population: Western U.S. DPS	Proposed
Fishes	
Rio Grande silvery minnow (<i>Hybognathus amarus</i>) Population: Entire, except where listed as an experimental population	Final designated

APPENDIX H
HISTORIC PROPERTIES PRESERVATION SCREENING MEMORANDUM

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Memorandum

*To: Jake Daugherty, Environmental Compliance Coordinator
City of Albuquerque Solid Waste Management Department*

From: Rochelle Larson, PE

Date: June 10, 2016

*Subject: Solid Waste Management Dept. (SWMD) here in the City of Albuquerque (COA)
Eagle Rock Convenience Center Screening for the National Historic Preservation Act*

On behalf of the COA SWMD, CDM Smith herein presents the results of a determination of eligibility for the Eagle Rock Convenience Center (Eagle Rock CC), regarding the National Historic Preservation Act (NHPA), for coverage under the Multi-Sector General Permit for Stormwater Discharges Associated with Industrial Activity (MSGP 2015). The result of the determination described herein is that the Eagle Rock CC is eligible for coverage under the MSGP 2015 with regards to NHPA. Using the methodology outlined in Appendix F of the MSGP 2015, the Eagle Rock CC has been determined to meet Criterion A. This memorandum documents the process used to determine that stormwater discharges from the Eagle Rock CC have no potential to effect historic properties.

Step One: Are you an existing facility that is reapplying for certification under the 2015 MSGP?

The Eagle Rock CC is an existing facility; however this is the first application for certification under the MSGP 2015 program. As a facility that has not been covered under a MSGP in the past, this facility is considered a "new facility".

If you are a new facility then you should proceed to Step Two.

Step Two: Are you constructing or installing any stormwater control measures that require subsurface disturbance of less than one (1) acre?

Discharge-related activities will occur on previously cleared/developed areas of the site where maintenance and operation of the facility are currently occurring.

Historical Property Verification

Data (Excel and Geographic Information System files) was downloaded from the National Park Service National Register of Historic Places Program website on May 9, 2016 (<http://www.nps.gov/nr/research/>) to verify that there were no known historical sites within a half mile radius of the facility.

Jake Daugherty, Environmental Compliance Coordinator
June 10, 2016
Page 2

Findings

There are no historic properties within half a mile of this facility. Criterion A has been met by this facility. Having met Criterion A, no further steps are required under Attachment F of the MSGP 2015.

***Criterion A.** Your stormwater discharges and allowable non-stormwater discharges do not have the potential to have an effect on historic properties and you are not constructing or installing new stormwater control measures on your site that cause subsurface disturbance.*

cc: file

APPENDIX I
COPY OF THE NOTICE OF INTENT AND ACKNOWLEDGEMENT LETTER

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From: Tuite, Sarah
Sent: Friday, October 07, 2016 4:04 PM
To: Reed, Amy N.
Subject: FW: EPA Multi-Sector General Permit (MSGP) Notice of Intent (NOI) Awaits Certification - Eagle Rock Convenience Center

Sarah C. Tuite, PE | CDM Smith | 505.243.3200 | tuitesc@cdmsmith.com

From: Tuite, Sarah
Sent: Tuesday, October 04, 2016 8:52 AM
To: Larson, Rochelle L. <LarsonRL@cdmsmith.com>; Larson, Gregory S. <larsongs@cdmsmith.com>
Subject: FW: EPA Multi-Sector General Permit (MSGP) Notice of Intent (NOI) Awaits Certification - Eagle Rock Convenience Center

FYI -

Sarah C. Tuite, PE | CDM Smith | 505.243.3200 | tuitesc@cdmsmith.com

From: NeT@epa.gov [<mailto:NeT@epa.gov>]
Sent: Tuesday, October 04, 2016 6:04 AM
To: joladay@cabq.gov
Cc: Tuite, Sarah <TuiteSC@cdmsmith.com>
Subject: EPA Multi-Sector General Permit (MSGP) Notice of Intent (NOI) Awaits Certification - Eagle Rock Convenience Center

2016-10-04

A Notice of Intent (NOI) requesting coverage under EPA's Multi-Sector General Permit (MSGP) for stormwater discharges from Eagle Rock Convenience Center, 6301 Eagle Rock Avenue Albuquerque NM 87113, has been prepared by Sarah Tuite (tuitesc@cdm.com) with you listed as the Certifier. This NOI will not be submitted to the EPA for review until it is certified by you. Please log in to the NPDES Electronic Reporting Tool (NeT) to review and take action on this form. NeT can be accessed from: https://cdx.epa.gov/epa_home.asp.

Once logged in, select "Task List" to access the form, and you will see the task listed for your certification. Review the NOI form and identify your "Operator Name" in question A.1. After you have completed your review, scroll down to the Certification Information section, read the Certification Statement, and use the Form Action field to either Approve or Reject the submission.

To certify the NOI, select "Approve" from the Form Action drop-down menu, and click the Submit Now button.

If you choose not to certify the NOI, select "Reject" from the Form Action drop-down menu, enter a Reason for Rejection, and click the Submit Now button. This action will place the rejected form back into the Preparer's task list in NeT, and generate an email notifying the Preparer that the form has been rejected, your reason for rejection, and instructions to resubmit as needed.

Once your form has been certified, it will undergo a 30-day review period. Coverage under the MSGP will begin at the conclusion of this waiting period, unless you are notified by EPA that your coverage has been delayed or denied. You will receive an email informing you once your coverage under the MSGP is active with a copy of the certified NOI attached. For guidance about this process, please visit: <http://www2.epa.gov/national-pollutant-discharge-elimination-system-npdes/stormwater-discharges-industrial-activities#ereporting>. For more information about the MSGP, including a copy of the permit, please visit: <https://www.epa.gov/npdes/stormwater-discharges-industrial-activities#msgp>.

If you have questions about this email or about NeT, please call the EPA NOI Processing Center at 1-866-352-7755 (toll free) or send an email to noi@avanticorporation.com. If you have questions regarding the MSGP, please contact EPA at paola@avanticorporation.com, jahan.nasim@epa.gov, julie@avanticorporation.com, emily@avanticorporation.com, farris.erika@epa.gov.

Do not respond to this email address, as this mailbox is not monitored.



2015 NPDES Multi-Sector General Permit For Stormwater Discharges Associated With Industrial Activity (MSGP) Forms

United States Environmental Protection Agency
1200 Pennsylvania Ave, NW Washington, DC 20460

Note: This is a "smart form"; as you fill out the form, additional questions will appear that you will need to answer.

Permit Information

1. What action would you like to take? *

File a New Notice of Intent Form

Submission of this Notice of Intent (NOI) constitutes notice that the operator identified in the Facility Operator Information section of this form requests authorization to discharge pursuant to the NPDES Stormwater Multi-Sector General Permit (MSGP) permit number identified in the Permit Information section of this form. Submission of this NOI also constitutes notice that the operator identified in the Facility Operator Information section of this form meets the eligibility conditions of Part 1.1 of the MSGP for the facility identified in the Facility Information section of this form. To obtain authorization, you must submit a complete and accurate NOI form. Discharges are not authorized if your NOI is incomplete or inaccurate or if you were never eligible for permit coverage.

Operator Name (Organization Name) *

CABQ Solid Waste

Operator Name as Noted by the NOI Preparer

City of Albuquerque Solid Waste Management Department

2. Select the state/territory where your facility is located *

NM

3. Is your facility located on Indian Country lands? *

Yes No

4. Are you requesting coverage as a "federal operator" as defined in Appendix A? *

Yes No

5. Are you a new discharger or a new source as defined in Appendix A? *

Yes No

6. Do you directly discharge to any of the waters of the U.S. that are designated by the state or tribal authority under its antidegradation policy as a Tier 3 water (Outstanding National Resource Water) (See Appendix L)? Your project will be considered to discharge to a Tier 3 water if the first water of the US to which you discharge is identified by a state, tribe, or EPA as a Tier 3 water. For discharges that enter a storm sewer system prior to discharge, the first water of the US to which you discharge is the waterbody that receives the stormwater discharge from the storm sewer system. *

Yes No

7. Does your facility directly discharge to a Federal CERCLA site listed in Appendix P? For the purposes of this permit, a permittee discharges to a Federal CERCLA site if the discharge flows directly into the site through its own conveyance, or through a conveyance owned by others, such as a municipal separate storm sewer system. *

Yes No

8. Has the Stormwater Pollution Prevention Plan (SWPPP) been prepared in advance of filing this NOI, as required? *

Yes No

9. By indicating "Yes", I confirm that I understand that the MSGP only authorizes the allowable stormwater discharges in Part 1.1.2 and the allowable non-stormwater discharges listed in Part 1.1.3. Any discharges not expressly authorized in this permit cannot become authorized or shielded from liability under CWA section 402(k) by disclosure to EPA, state, or local authorities after issuance of this permit via any means, including the Notice of Intent (NOI) to be covered by the permit, the Stormwater Pollution Prevention Plan (SWPPP), during an inspection, etc. If any discharges requiring NPDES permit coverage other than the allowable stormwater and non-stormwater discharges listed in Parts 1.1.2 and 1.1.3 will be discharged, they must be covered under another NPDES permit. *

Yes No

10. Master Permit Number

NMR050000

A: Facility Operator Information

1. Operator Name (Organization Name) *

CABQ Solid Waste

2. Street *

4600 Edith Boulevard NE

3. Supplemental Address

4. City *

Albuquerque

5. State/Providence *

NM

6. ZIP Code *

87107

7. Facility County or Similar Govt. Subdivision *

Bernalillo

8. Phone (10-digits, No dashes) *

5057618324

9. Extension

10. E-Mail *

ddaugherty@cabq.gpv

Operator point of contact information

11. First Name *

Jake

12. Middle Initial

13. Last Name *

Daugherty

14. Professional Title *

Environmental Compliance Coordinator

B: Facility Information

1. Facility Name *

Eagle Rock Convenience Center

2. Street/Location *

6301 Eagle Rock Avenue

3. Supplemental Address

4. City *

Albuquerque

5. State *

NM

6. ZIP Code *

87113

7. Facility County or Similar Govt. Subdivision *

Bernalillo

Latitude/Longitude for the facility:

8. Latitude (Decimal Degrees) *

+ 35.1881

9. Longitude (Decimal Degrees) *

- 106.5748

10. Latitude/Longitude Data Source *

Other

11. Horizontal Reference Datum

WGS84

12. What is the ownership type of the facility? *

Municipality

13. Estimated area of industrial activity at your facility exposed to stormwater (to the nearest quarter acre) *

7

Identify the applicable sector and subsector of your primary industrial activity (See Appendix D) that best represents the products produced or services rendered for which your facility is primarily engaged, as defined in the MSGP, and the 4-digit Standard Industrial Classification (SIC) code or 2-letter Activity Code:

15. Sector * 16. Primary SIC Code *

17. Subsector

Check to add an additional Sector and Subsector.

18. Identify the applicable sectors(s) of any co-located industrial activity for which you are requesting permit coverage.

Sector Subsector *

22. Is your facility presently inactive and unstaffed? *

Yes No

C: Discharge Information

Outfalls

4. List all of the stormwater outfalls from your facility. Each outfall must be identified by a unique 3-digit ID (e.g., 001, 002) or a 4-digit ID. Also provide the latitude and longitude in decimal degrees for each outfall.

A. Outfall ID * + B. Latitude (Decimal Degrees) * - C. Longitude (Decimal Degrees) *

(This button will prepopulate the receiving water information associated with your outfall on your form. You may edit the information that is returned if you believe it is incorrect)

If for any reason the Lookup Receiving Water Information button does not prepopulate your form with receiving waters information, you must manually enter the information on your form.

Outfall Section

1. Provide the name of the first water of the U.S that receives stormwater directly from the outfall and/or from the MS4 that the outfall discharges to. (You may edit the name of the water of the U.S. that was returned if incorrect.) *

2. Is the receiving water listed as impaired on the 303(d) list and in need of a TMDL? *

Yes No

4. List the pollutants that are causing the impairment:

Please select the cause group and pollutant for which the waterbody is impaired:

Cause Group * Pollutant *

Please select the cause group and pollutant for which the waterbody is impaired:

Cause Group *

POLYCHLORINATED BIPHENYLS (PCBS)

Pollutant *

Polychlorinated biphenyls [PCBs]

Please select the cause group and pollutant for which the waterbody is impaired:

Cause Group *

PATHOGENS

Pollutant *

E. coli

Please select the cause group and pollutant for which the waterbody is impaired:

Cause Group *

TEMPERATURE

Pollutant *

Temperature, water deg. centigrade

3. Has a TMDL been completed for this receiving waterbody? *

Yes No

TMDL Name *

TMDL for the Middle Rio Grande Watershed

TMDL ID

38850

Pollutant Name *

E.Coli

Outfalls

4. List all of the stormwater outfalls from your facility. Each outfall must be identified by a unique 3-digit ID (e.g., 001, 002) or a 4-digit ID. Also provide the latitude and longitude in decimal degrees for each outfall.

A. Outfall ID *

EY02

+

B. Latitude (Decimal Degrees) *

35.1880

-

C. Longitude (Decimal Degrees) *

106.5739

(This button will prepopulate the receiving water information associated with your outfall on your form. You may edit the information that is returned if you believe it is incorrect)

D. Substantially Identical to Any Outfalls Listed Above? *

Yes No

If for any reason the Lookup Receiving Water Information button does not prepopulate your form with receiving waters information, you must manually enter the information on your form.

Outfall Section

1. Provide the name of the first water of the U.S that receives stormwater directly from the outfall and/or from the MS4 that the outfall discharges to. (You may edit the name of the water of the U.S. that was returned if incorrect.) *

Rio Grande

2. Is the receiving water listed as impaired on the 303(d) list and in need of a TMDL? *

Yes No

4. List the pollutants that are causing the impairment:

Please select the cause group and pollutant for which the waterbody is impaired:

Cause Group *

ORGANIC ENRICHMENT/OXYGEN DEPLETION

Pollutant *

Oxygen, dissolved percent saturation

Please select the cause group and pollutant for which the waterbody is impaired:

Cause Group *

PATHOGENS

Pollutant *

E. coli

Please select the cause group and pollutant for which the waterbody is impaired:

Cause Group *

POLYCHLORINATED BIPHENYLS (PCBS)

Pollutant *

Polychlorinated biphenyls [PCBs]

Please select the cause group and pollutant for which the waterbody is impaired:

Cause Group *

TEMPERATURE

Pollutant *

Temperature, water deg. centigrade

3. Has a TMDL been completed for this receiving waterbody? *

Yes No

TMDL Name *

TMDL for the Middle Rio Grande Watershed

TMDL ID

38850

Pollutant Name *

E.Coli

Outfalls

4. List all of the stormwater outfalls from your facility. Each outfall must be identified by a unique 3-digit ID (e.g., 001, 002) or a 4-digit ID. Also provide the latitude and longitude in decimal degrees for each outfall.

A. Outfall ID *

ER03

+

B. Latitude (Decimal Degrees) *

35.1884

-

C. Longitude (Decimal Degrees) *

106.5747

(This button will prepopulate the receiving water information associated with your outfall on your form. You may edit the information that is returned if you believe it is incorrect)

D. Substantially Identical to Any Outfalls Listed Above? *

Yes No

If for any reason the Lookup Receiving Water Information button does not prepopulate your form with receiving waters information, you must manually enter the information on your form.

Outfall Section

1. Provide the name of the first water of the U.S that receives stormwater directly from the outfall and/or from the MS4 that the outfall discharges to. (You may edit the name of the water of the U.S. that was returned if incorrect.) *

Rio Grande

2. Is the receiving water listed as impaired on the 303(d) list and in need of a TMDL? *

Yes No

4. List the pollutants that are causing the impairment:

Please select the cause group and pollutant for which the waterbody is impaired:

Cause Group *

ORGANIC ENRICHMENT/OXYGEN DEPLETION

Pollutant *

Oxygen, dissolved percent saturation

Please select the cause group and pollutant for which the waterbody is impaired:

Cause Group *

PATHOGENS

Pollutant *

E. coli

Please select the cause group and pollutant for which the waterbody is impaired:

Cause Group *

POLYCHLORINATED BIPHENYLS (PCBS)

Pollutant *

Polychlorinated biphenyls [PCBs]

Please select the cause group and pollutant for which the waterbody is impaired:

Cause Group *

TEMPERATURE

Pollutant *

Temperature, water deg. centigrade

3. Has a TMDL been completed for this receiving waterbody? *

Yes No

TMDL Name *

TMDL for the Middle Rio Grande Watershed

TMDL ID

38850

Pollutant Name *

E.Coli

Provide the following information about your outfall latitude longitude.

5. Latitude/Longitude Data Source *

Other

6. Horizontal Reference Datum

WGS84

7. Does your facility discharge into a Municipal Separate Storm Sewer System (MS4)? *

Yes No

7a. Provide the name of the MS4 Operator *

Albuquerque Metro Arroyo Flood Control Authority

8. Do you discharge to any of the waters of the U.S. that are designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water) (See Appendix L)? *

Yes No

D: Stormwater Pollution Prevention Plan (SWPPP) Information

SWPPP Contact Information

1. First Name *

Jake

2. Middle Initial

3. Last Name *

Daugherty

4. Professional Title *

Environmental Compliance Coordinator

5. Phone (10-digits, No dashes) *

5057618324

6. Extension

7. E-Mail *

ddaugherty@cabq.gov

8. Your current SWPPP or certain information from your SWPPP must be made available through one of the following two options. Select one of the options and provide the required information. *

Note: You are not required to post any confidential business information (CBI) or restricted information (as defined in Appendix A) (such information may be redacted), but you must clearly identify those portions of the SWPPP that are being withheld from public access.

Option 1: Maintain a Current Copy of your SWPPP on an Internet page (Universal Resource Locator or URL).

Provide the web address URL *

www.cabq.gov/swppp

Option 2: Provide the following information from your SWPPP.

E: Endangered Species Protection

1. Using the instructions in Appendix E of the MSGP, under which endangered species criterion listed in Part 1.1.4.5 are you eligible for coverage under this permit? *

Criterion C – Discharges and discharge-related activities are not likely to adversely affect listed species and critical habitat

2. Provide a brief summary of the basis for the criterion selected in Appendix E (e.g., communication with U.S. Fish and Wildlife Service or National Marine Fisheries Service to determine no species in action area; implementation of controls approved by EPA and the Services). *

The site was not eligible for Criteria B, D, or E. The listed threatened and endangered species and critical habitats in the action area were determined. Direct impacts to habitat are unlikely because habitat for the identified endangered species is not present. Activities at the facility will not impact habitat. Adverse effects to receiving water are considered remote.

a. What federally-listed species or federally-designated critical habitat are located in your "action area." *

Mexican Spotted owl, Southwestern Willow flycatcher, Yellow-Billed Cuckoo, Rio Grande silvery minnow, New Mexico meadow jumping mouse, Jemez Mountain salamander

b. Using the Criterion C Eligibility Form, check which of the following is applicable to your facility and answer any corresponding questions. *

- I submitted my completed Criterion C Eligibility Form to EPA at least 30 days prior to submitting this NOI and agree to implement any controls that were determined by EPA to be necessary to ensure that my discharges and/or discharge-related activities will have no likely adverse affects on listed species and critical habitat.
- I submitted my completed Criterion C Eligibility Form to EPA at least 30 days prior to submitting this NOI and have not been notified of any additional controls necessary to ensure no likely adverse affects on listed species and critical habitat.

Date your Criterion C Eligibility Form was sent to EPA (in DD/MM/YYYY format) *

06 Jul 2016

* Note: After you submit your NOI and before your NOI is authorized, EPA may notify you if any additional controls are necessary to ensure your discharges have no likely adverse affects on listed species and critical habitat.

F: Historic Preservation

1. If your facility is not located in Indian country lands, is your facility located on a property of religious or cultural significance to an Indian tribe? *

Yes No

2. Using the instructions in Appendix F of the MSGP, under which historic properties preservation criterion listed in Part 1.1.4.7 are you eligible for coverage under this permit? *

Criterion A - No subsurface stormwater controls

Certification Information

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. 40 CFR 122.22 (d)

Certifier E-Mail *

jsoladay@cabq.gov

Form Action *

Approve

APPENDIX J
DOCUMENTATION OF MAINTENANCE TO CONTROL MEASURES

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**APPENDIX K
DOCUMENTATION OF CORRECTIVE ACTION TAKEN**

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APPENDIX L
REPORTS

- L1 – Quarterly Routine Facility Inspections*
- L2 – Quarterly Visual Stormwater Assessment*
- L3 – EPA Industrial Stormwater Sampling Guidance*
- L4 – Annual Report Example*

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L1 – QUARTERLY ROUTINE FACILITY INSPECTIONS

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**EAGLE ROCK CONVENIENCE CENTER
QUARTERLY SWPPP ROUTINE FACILITY INSPECTION FORM**

FACILITY INFORMATION			
FACILITY NAME:			
FACILITY INSPECTOR:		EMAIL:	PHONE:
FACILITY INSPECTOR:		EMAIL:	PHONE:
SITE VISIT DATE:		SITE VISIT TIME:	
QUARTER: <input type="checkbox"/> Jan-Mar <input type="checkbox"/> Apr-Jun <input type="checkbox"/> Jul-Sept <input type="checkbox"/> Oct-Dec		WEATHER CONDITIONS:	
DOCUMENTATION (BMP 1)		BMP	Comments
Facility Inspections and Maintenance Documentation			
Comply w/ record keeping & reporting req'ts of MSGP	1.24	<input type="checkbox"/> YES <input type="checkbox"/> NO	
Retain waste generation and disposal documentation	1.24; 4.10	<input type="checkbox"/> YES <input type="checkbox"/> NO	
Responded to previous inspection Compliance Letter		<input type="checkbox"/> YES <input type="checkbox"/> NO	
Activities inspected for non-stormwater discharges	1.18	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> DOC	
Training			
Annual employee training conducted	1.20;1.21	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> DOC	
Contractor SWPPP Education	1.22	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> DOC	
Waste management training		<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> DOC	
Spill response training	1.20;1.21	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> DOC	
Other Documentation			
If you have an SPPC plan, is the plan up to date?	1.14; 1.23	<input type="checkbox"/> YES <input type="checkbox"/> NO	
GENERAL (BMP 1)			Comments
Exposed areas clean and orderly	1.01	<input type="checkbox"/> YES <input type="checkbox"/> NO	
Oil, grease, solvents, batteries, etc. recycled	1.04	<input type="checkbox"/> YES <input type="checkbox"/> NO	
Biodegradable or less hazardous products used where possible	1.05	<input type="checkbox"/> YES <input type="checkbox"/> NO	
Material inventory limited	1.06	<input type="checkbox"/> YES <input type="checkbox"/> NO	
Signs posted near outdoor hose bibs listing use restrictions	1.11	<input type="checkbox"/> YES <input type="checkbox"/> NO	
COVER AND SECONDARY CONTAINMENT (BMPs 1, 2, 3, 4)			Comments
Industrial and Maintenance Activities			
Waste handling activities performed under cover and in contained area	1.07; 2.02	<input type="checkbox"/> YES <input type="checkbox"/> NO	
Mobile refueling performed in designated areas and under cover	1.08	<input type="checkbox"/> YES <input type="checkbox"/> NO	
Exposure to run-on & run-off minimized	1.17; 2.02	<input type="checkbox"/> YES <input type="checkbox"/> NO	
Equipment working properly (no leaks occurring)	3.05	<input type="checkbox"/> YES <input type="checkbox"/> NO	
Performed away from storm drains or drains covered	1.17; 2.02	<input type="checkbox"/> YES <input type="checkbox"/> NO	
Performed indoors/under storm resistant cover when practicable	3.03	<input type="checkbox"/> YES <input type="checkbox"/> NO	
Routine equipment/working area inspections	3.05; 3.06	<input type="checkbox"/> YES <input type="checkbox"/> NO	

**EAGLE ROCK CONVENIENCE CENTER
QUARTERLY SWPPP ROUTINE FACILITY INSPECTION FORM**

COVER AND SECONDARY CONTAINMENT (BMPs 2, 3, 4)			Comments
Waste and Material Storage Areas			
Waste materials properly removed from site	4.05	<input type="checkbox"/> YES <input type="checkbox"/> NO	
Excess accumulation of waste observed	4.06; 4.07	<input type="checkbox"/> YES <input type="checkbox"/> NO	
Haz materials indoors and away from exit doors or under storm-resistant cover	4.01	<input type="checkbox"/> YES <input type="checkbox"/> NO	
Secondary containment provided and adequately sized	3.04; 4.01	<input type="checkbox"/> YES <input type="checkbox"/> NO	
Stored and handled in paved areas	2.02; 4.01	<input type="checkbox"/> YES <input type="checkbox"/> NO	
Clearly labeled and stored containers	4.01	<input type="checkbox"/> YES <input type="checkbox"/> NO	
Material storage area signs posted listing materials stored	4.02	<input type="checkbox"/> YES <input type="checkbox"/> NO	
Liquids dispensed from upright drums w/ hand pump	3.04	<input type="checkbox"/> YES <input type="checkbox"/> NO	
Waste properly disposed of from portable toilets once per week	4.05	<input type="checkbox"/> YES <input type="checkbox"/> NO	
Storage areas maintained	4.06	<input type="checkbox"/> YES <input type="checkbox"/> NO	
Used batteries properly stored or recycled in 30 days	4.04	<input type="checkbox"/> YES <input type="checkbox"/> NO	
SDS available	4.1	<input type="checkbox"/> YES <input type="checkbox"/> NO	
SPILLS (BMP 1,4, 5)			Comments
Spill Response Plan posted	1.12	<input type="checkbox"/> YES <input type="checkbox"/> NO	
Spill kits located where spills are probable to occur	1.13	<input type="checkbox"/> YES <input type="checkbox"/> NO	
Spill kits stocked with appropriate materials	1.13	<input type="checkbox"/> YES <input type="checkbox"/> NO	
Spill(s) or staining observed	1.14; 1.15	<input type="checkbox"/> YES <input type="checkbox"/> NO	
Drip pans/spill mats/booms used	1.14; 1.15	<input type="checkbox"/> YES <input type="checkbox"/> NO	
Collected spill materials properly disposed	1.14; 1.15	<input type="checkbox"/> YES <input type="checkbox"/> NO	
Weekly inspection of portable toilet holding tanks for leaks	4.09	<input type="checkbox"/> YES <input type="checkbox"/> NO	
Temporary Parking of Roll-off trucks and transfer trailers	5.02	<input type="checkbox"/> YES <input type="checkbox"/> NO	
BUILDING & GROUNDS MAINTENANCE (BMP 1)			Comments
Building Maintenance <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> SUB:			
Grounds maintenance waste disposed of properly	1.25	<input type="checkbox"/> YES <input type="checkbox"/> NO	
Interior floor cleaning water properly disposed	1.03	<input type="checkbox"/> YES <input type="checkbox"/> NO	
Landscape Maintenance <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> SUB:			
Landscaping waste properly disposed	1.25	<input type="checkbox"/> YES <input type="checkbox"/> NO	
Exterior ground surfaces cleaned properly	1.01	<input type="checkbox"/> YES <input type="checkbox"/> NO	
Grounds/landscaping design considerations	1.26	<input type="checkbox"/> YES <input type="checkbox"/> NO	
Use of pesticide, herbicide and fertilizer minimized	1.27	<input type="checkbox"/> YES <input type="checkbox"/> NO	
Landscaping provided for erosion control	1.28	<input type="checkbox"/> YES <input type="checkbox"/> NO	
STRUCTURAL (BMP 6)			Comments
Stormwater control devices maintained (e.g., hay bales, basins)	6.01	<input type="checkbox"/> YES <input type="checkbox"/> NO	
Storage areas maintained (basins and outfalls)	6.02; 6.03; 6.04	<input type="checkbox"/> YES <input type="checkbox"/> NO	
Maintain sumps and oil/water separators	6.06; 6.10	<input type="checkbox"/> YES <input type="checkbox"/> NO	
Label storm drain inlets that they are to receive no wastes	6.07	<input type="checkbox"/> YES <input type="checkbox"/> NO	
Protect structural controls from spills (e.g., berms, curbing, etc.)	6.08	<input type="checkbox"/> YES <input type="checkbox"/> NO	

**EAGLE ROCK CONVENIENCE CENTER
QUARTERLY SWPPP ROUTINE FACILITY INSPECTION FORM**

VEHICLE AND EQUIPMENT CLEANING (BMP 1)					
Wash the following?	Dry-Wash	WET-WASH		Other / Comment	
		Inside	Outside in Permitted Area		
Vehicles <input type="radio"/> YES <input type="radio"/> NO					
Equipment <input type="radio"/> YES <input type="radio"/> NO					
Washing areas maintained? <input type="radio"/> YES <input type="radio"/> NO					
VEHICLE AND EQUIPMENT STORAGE (BMP 5)					
Store the following?	Inside	OUTSIDE			Other / Comment
		Under Cover	Away from Drains	Sized 2nd Containment	
Vehicles <input type="radio"/> YES <input type="radio"/> NO					
Equipment <input type="radio"/> YES <input type="radio"/> NO					
Storage areas maintained? <input type="radio"/> YES <input type="radio"/> NO					
INSPECTOR SIGNATURE					
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designated to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained 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:					
Signature:					

L2 – QUARTERLY VISUAL STORMWATER ASSESSMENT

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City of Albuquerque Solid Waste Management Department
Eagle Rock Convenience Center

Quarterly Visual Monitoring of
 Storm Water Outfall Discharges
Q1 Q2 Q3 Q4

Date: _____ **Weather:** _____
Time: _____ **Storm Precip:** _____
Inspector: _____ **Last 72 hour Precip:** _____
 *ER01/ER02 must be alternated every quarter **Photo Name:** _____

Outfall ID:	ER02 / ER01 (circle one)	ER03
Flow Observed:	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Description of Monitoring Site:		
Flow Estimate (include units and method of estimation):		
Other Observations:		
Color (describe):		
Turbidity:	<input type="checkbox"/> Clear <input type="checkbox"/> Slightly Cloudy <input type="checkbox"/> Very Cloudy <input type="checkbox"/> Opaque	<input type="checkbox"/> Clear <input type="checkbox"/> Slightly Cloudy <input type="checkbox"/> Very Cloudy <input type="checkbox"/> Opaque
Floating Solids:	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Suspended Solids:	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Settled Solids:	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Sheen Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Odor:	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Foam Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Probable sources of observed stormwater contamination, if any:		

Additional Comments: _____



L3 – EPA INDUSTRIAL STORMWATER SAMPLING GUIDANCE

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Industrial Stormwater Monitoring and Sampling Guide

March 2009

Final Draft



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Final Draft Prepublication Copy

A formatted version of this guide will be available in April, 2009.

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The Industrial Stormwater Monitoring and Sampling Guide (“guide”) is a how-to primer for industrial facility operators on how to conduct visual and analytical monitoring of stormwater discharges. The target audience is operators of facilities subject to the U.S. Environmental Protection Agency’s (EPA) 2008 Multi-Sector General Permit (2008 MSGP) or a similar State-issued industrial stormwater permit. The information presented will also be useful to anyone interested in industrial stormwater monitoring. The procedures presented in this guide, specifically related to monitoring methodology and quality assurance, will help ensure that stormwater samples yield usable information.

The 2008 MSGP covers specific industrial activities (see Appendix D of the 2008 MSGP, available at www.epa.gov/npdes/msgp) in States, territories, and Indian Country lands where EPA is the National Pollutant Discharge Elimination System (NPDES) permitting authority (i.e., in those States or territories not authorized to issue NPDES permits themselves – see Appendix C of the 2008 MSGP).

This guide does not impose any new legally binding requirements on EPA, States, or the regulated community, and does not confer legal rights or impose legal obligations upon any member of the public. In the event of a conflict between the discussion in this document and any statute, regulation, or permit, this document would not be controlling.

***Monitoring vs. Sampling.* In this guide, “sampling” refers to the actual, physical collection and analysis of stormwater samples. The term “monitoring” refers to both sampling and visual observations of stormwater discharges, including the related preparation and documentation tasks.**

Interested parties are free to raise questions and objections about the substance of this guide and the appropriateness of the application of this guide to a particular situation. EPA and other decision makers retain the discretion to adopt approaches on a case-by-case basis that differ from those described in this guide where appropriate.

1. Introduction to Stormwater Monitoring and Sampling

Most industrial stormwater permits require installation and implementation of control measures to minimize or eliminate pollutants in stormwater runoff from your facility. The control measures you choose for your facility must be documented in your facility-specific Stormwater Pollution Prevention Plan (SWPPP). The results of your stormwater monitoring will help you determine the effectiveness of your control measures, and overall stormwater management program. Evaluation of your stormwater management program will include inspections, visual assessments, and monitoring (i.e., sampling) of specified stormwater discharges. Regular stormwater inspections and visual assessments provide qualitative information on whether there are unaddressed potential pollutant sources at your site, and whether existing control measures are effective or need to be reevaluated. Stormwater sampling provides quantitative (i.e., numeric) data to determine pollutant concentrations in runoff and, in turn, the degree to which your control measures are effectively minimizing contact between stormwater and pollutant sources, and the success of your stormwater control approach in meeting applicable discharge requirements or effluent limits.

The following are the types of industrial stormwater monitoring requirements typically included in industrial general permits:

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- Visual Assessments of Discharges.** Permittees are required to regularly and frequently (e.g., quarterly under the 2008 MSGP) take a grab sample during a rain event and assess key visual indicators of stormwater pollution – color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other qualitative markers of pollution. The findings of these assessments are used to trigger further facility inspections and corrective actions to modify problems found at the site.
- Indicator or Benchmark Sampling.** Stormwater samples are collected from a site’s discharge points (or outfalls) for laboratory analysis and the results are compared with benchmark pollutant concentrations as an indicator of the performance of stormwater control measures. A benchmark pollutant concentration is a level above which a stormwater discharge could adversely affect receiving water quality (and control measures must be evaluated) and, if below, the facility is not expected to have an impact on receiving water quality. This type of monitoring differs from “compliance monitoring” (see below) in that exceedances of the indicator or benchmark levels are not considered violations, but rather “red flags” that could point to a problem at the site with exposed pollutant sources or control measures that are not working correctly. For instance, the 2008 MSGP includes “benchmarks” that are based to a large degree on EPA’s aquatic life criteria. Where the average of samples taken over four consecutive quarters exceed the applicable benchmark concentration of a particular pollutant, the permittee is required to investigate whether the higher pollutant levels can be attributed to some pollutant source or faulty control measure(s), and to address such problems through corrective action and possibly further monitoring.
- Compliance Sampling.** Where a facility is subject to one of the Federal effluent limitation guidelines (ELGs) addressing limits on stormwater runoff, sampling is required to determine compliance with those limits. Table 1 provides a list of the current applicable effluent limitation guidelines.

Table 1. Applicable Effluent Limitations Guidelines (2008 MSGP Part 2.1.3)	
Regulated Activity	40 CFR Part/Subpart
Discharges resulting from spray down or intentional wetting of logs at wet deck storage areas	Part 429, Subpart I
Runoff from phosphate fertilizer manufacturing facilities that comes into contact with any raw materials, finished product, by-products or waste products (SIC 2874)	Part 418, Subpart A
Runoff from asphalt emulsion facilities	Part 443, Subpart A
Runoff from material storage piles at cement manufacturing facilities	Part 411, Subpart C
Mine dewatering discharges at crushed stone, construction sand and gravel, or industrial sand mining facilities	Part 436, Subparts B, C, or D
Runoff from hazardous waste landfills	Part 445, Subpart A
Runoff from non-hazardous waste landfills	Part 445, Subpart B
Runoff from coal storage piles at steam electric generating facilities	Part 423

These limits are required to be included in all general industrial permits. Typically, permits require corrective action and further sampling when an effluent limitation is exceeded. An exceedance of an applicable effluent limitation guideline constitutes a violation of the permit.

- **Monitoring Requirements for Discharges to Impaired Waters** - General industrial permits may have special monitoring requirements for facilities that discharge pollutants of concern into impaired waters.

For an explanation of these monitoring requirements in the 2008 MSGP see Part 6.2. Part 8 of the 2008 MSGP includes the benchmark and effluent limitation guideline monitoring requirements for each of the industrial sectors affected by such requirements.

2. Preparation for Monitoring

This section describes the information you will need before monitoring. While this guide is meant to be a general primer for anyone interested in industrial stormwater monitoring, Section 2 follows the organization of the 2008 MSGP. Many State general permits are very similar to the 2008 MSGP. It is EPA's hope that this format will be of use to permittees in most states. However, if you are subject to a State industrial general permit, you should compare your permit's monitoring requirements to the requirements reflected in this guide to ensure that you are following all applicable State requirements.

In general, preparation is critical to make sure that industrial stormwater monitoring is conducted properly and in a timely manner. Most of this information should have been collected previously for the purposes of submitting your permit application or Notice of Intent (NOI), and in developing the monitoring procedures section of your stormwater pollution prevention plan (SWPPP). However, this guide reviews some of the steps necessary to develop this information, such as the site map component of the SWPPP, in case facilities have not already done so. If you have already completed any of these steps in this section, you can skip to the next application section or subsection in this guide. For more information on how to develop a SWPPP, refer to EPA's guide *Developing Your Stormwater Pollution Prevention Plan: A Guide for Industrial Operators*, available on EPA's website at www.epa.gov/npdes/stormwater/msgp.

If you have already submitted your NOI, the following documents will serve as good resources for information that you will need prior to monitoring:

- A copy of your NOI or application submitted to EPA or a State, and your assigned permit registration number.
- A copy of the EPA/State response to your NOI/permit application submission if it includes specific details pertaining to your monitoring (e.g., pollutants required to be monitored, frequency of monitoring, benchmark or compliance sampling requirements, etc.).
- A copy of your applicable permit, including the accompanying fact sheet.
- A complete copy of your SWPPP, which must include a detailed site map of your facility with locations of all stormwater monitoring points, and a description of the procedures you or your

stormwater pollution prevention team will follow when conducting monitoring and visual assessments.

2.1 Determine Where Stormwater Is Discharged From Your Property

If you have not already done so, walk the grounds and perimeter of your facility during a storm event to identify where runoff discharges from the site (known as “outfalls”). Outfalls are locations where stormwater exits the facility property, including pipes, ditches, swales, and other structures that transport stormwater. If possible, walk outside the boundary of your facility to identify outfalls that may not be apparent from within your site.



Stormwater discharges to the slot drain and is conveyed offsite through a valved pipe.

You should note where:

- Concentrated stormwater exits your facility (e.g., through a pipe, ditch or similar conveyance). These outlets are usually good sampling points.
- Dispersed runoff (i.e. sheet flow) flows offsite (e.g., through a grassy area or across a parking lot). Note whether concentrated flows commingle with the sheet flow.
- Storm drain inlets or catch basins are located. Try to determine where the storm drains send your runoff (e.g., to your municipal separate storm sewer system [MS4], to a combined sewer system, to the separated sanitary sewer, or directly to a nearby waterbody).

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- Authorized non-stormwater discharges commingle with stormwater prior to discharge (such commingled discharges may be covered under your permit).
- Areas where stormwater might enter your facility from neighboring facilities and commingle with your stormwater discharges.

Terms to Know:

Combined Sewer System: Combined sewer systems are sewers that are designed to collect rainwater runoff, domestic sewage, and industrial wastewater in the same pipe. Most of the time, combined sewer systems transport all of their wastewater to a sewage treatment plant, where it is treated and then discharged to a water body. During periods of heavy rainfall or snowmelt, however, the wastewater volume in a combined sewer system can exceed the capacity of the sewer system or treatment plant. For this reason, combined sewer systems are designed to overflow occasionally and discharge excess wastewater directly to nearby streams, rivers, or other water bodies.

MS4: A conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains) which are owned and operated by a ... public body (created by or pursuant to State law) having jurisdiction over disposal of sewage, industrial wastes, stormwater, or other wastes ... that discharges to waters of the United States; designed or used for collecting or conveying stormwater; which is not a combined sewer; and which is not part of a publicly owned treatment works (POTW). [40 CFR 122.26(b)(8)].

Mark these locations on your facility site map, which will be included as part of your SWPPP, and label each outfall location with unique identifiers to differentiate them. For example, you may decide to name the different outfalls according to where the stormwater is being discharged, such as MS4-1, MS4-2, etc. for outfalls discharging to the MS4 or ST-1, ST-2, etc. for outfalls discharging directly to an adjacent stream. Using unique identifiers will help you to coordinate monitoring requirements.

In addition to marking the outfalls on the map, you will need to determine the drainage area for each discharge point. If your facility is large and has significant changes in elevation, a topographic map may be necessary. However, if your facility is small and relatively flat, the best way to define the drainage area for each outfall is an on-the-ground visual assessment, preferably during a rain event. Sketch the basic drainage areas on the map for each outfall. Knowing the drainage area for each outfall is helpful when your sampling indicates problems at that outfall. You can focus your efforts on the industrial materials and activities in that drainage area, instead of the entire site, to identify what may be causing the problem.

2.2 Determine Where You Will Collect Samples

Now that you have determined the different points of discharge from your site, you will need to select the exact locations from which you will be collecting your stormwater samples. Note that Part 5.1.5.2 of the 2008 MSGP requires industrial operators to document in their SWPPPs the location where samples will be collected. Generally, industrial stormwater permits require that you sample stormwater discharges prior to the stormwater leaving your facility, and at a location downstream from all of your industrial materials and activities. The reason behind requiring such a location is so that the sample is

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representative of your facility's discharge, taking into account the types of pollutants that may be contained in runoff from the property.

Appropriate sample locations include:

- Underground pipes that collect stormwater from drop inlets and convey stormwater to an offsite location (e.g., street, curb or MS4). Be sure you collect only the stormwater discharging from your facility and not the baseflow in the pipes that is being discharged from facilities upstream. Do not enter underground locations to collect samples. Use a pole with a sampling container attached at the end to collect the sample.



- Open ditches, gutters or swales that carry stormwater from your facility to an offsite location. If these conveyances contain runoff from another facility, it is important to note that in your SWPPP;



- Facility driveways and other street access points; and



- Outlets discharging offsite from onsite stormwater detention ponds or other types of structural control measures. It is important to sample at the OUTLET of your structural control measures, as opposed to the INLET of such structures, in order to determine the quality of the water after treatment.



Where to Sample When There Are Multiple Discharge Points

You are required to monitor all outfalls that receive stormwater discharges from your industrial activity. See Part 6.1.1 of the 2008 MSGP. If you have multiple stormwater discharge points at your facility, you need to identify which outfalls are associated with industrial materials and activities, and monitor those outfalls. Understanding the hydrologic connection between your outfalls and the parts of your facility that drain to those points, and the pollutants associated with the industrial activities in these areas, will assist you in designing a monitoring program that is representative of the pollutants being discharged from your site. Developing such an understanding will also help later on when you begin to assess your sampling results and determine where improvements could be made to your stormwater control measures. The site map you prepare (see Part 5.1.2 of the 2008 MSGP) will help you understand the correlation between your areas of potential pollutant sources, the direction of stormwater flow from those areas, and the discharge points.

Note that you are not required to monitor at outfall locations that receive stormwater flow only from unregulated areas of your site (i.e., there are no industrial materials or activities in the drainage area). For instance, a hypothetical facility may have two outfalls, one that receives discharges from an area where industrial materials are handled and stored, and a second outfall that receives discharges from an unregulated parking lot used by employees. In this scenario, the industrial permittee would only collect samples from the first outfall because it discharges stormwater associated with industrial activity. Alternatively, if the site's second outfall (e.g., the outfall receiving runoff from the parking lot) also drains areas of the facility with regulated industrial activities, then this outfall would also need to be sampled. In this situation, sampling for this outfall should be done at a location prior to where the two flows commingle so that you are capturing the industrial portion of the flow. See Part 6.1.2 of the 2008 MSGP.

Where to Sample if Outfalls Are Substantially Identical

If your facility has two or more outfalls whose discharges are “substantially identical,” some industrial stormwater permits, including the 2008 MSGP, allow you to monitor the discharge at just one representative outfall and apply the results to the other substantially identical outfalls. EPA defines “substantially identical” in the 2008 MSGP as follows:

“... two or more outfalls that you believe discharge substantially identical effluents, based on the similarities of the general industrial activities and control measures, exposed materials that may significantly contribute pollutants to stormwater, and runoff coefficients of their drainage areas” See Part 6.1.1 of the 2008 MSGP.

The flexibility provided to permittees to sample at just one location, which is considered representative of all substantially identical outfalls, is an exception to the rule stated above that samples must be taken from all outfalls at a facility. Note that this exception does not apply to compliance monitoring (effluent limitation guideline monitoring), which must be conducted at each outfall to which the effluent guideline applies.

In choosing which of the substantially identical outfalls from which to sample, you should select the outfall that has been observed to have the most consistent flow. To use the substantially identical outfall exception, you must document in your SWPPP how the two or more outfalls are substantially identical, based on the above definition. You will need to document the following information:

- The locations of the outfalls;
- Estimated size of the drainage area (in square feet) for each outfall;
- General industrial activities conducted in the drainage area of each outfall;
- Control measures being implemented in the drainage area of each outfall;
- Why the outfalls are expected to discharge similar stormwater; and
- An estimate of the runoff coefficient of the drainage areas (0.0 no runoff potential to 1.0 all precipitation runs off).

The runoff coefficient is the ratio of excess runoff to the amount of precipitation for a given time over a given area, with a 0 (zero) runoff coefficient meaning no runoff potential and 1.0 (one) meaning a completely impervious surface and all stormwater runs off. The runoff coefficient is related to the amount of impervious surfaces (buildings, pavement, sidewalks, etc.) versus pervious surfaces (grass,

graveled areas, etc.) at the site. The more impervious surface a facility has, the larger the runoff coefficient. Light industrial facilities typically have a runoff coefficient between 0.50 and 0.80 and heavy industrial facilities typically have a runoff coefficient between 0.60 and 0.90.

Here is an example where a facility could take advantage of the “substantially identical outfalls” exception: a metal recycling facility with a large scrap metal pile has three separate outfalls that are each connected by their own drainage ditch to different portions of the same pile, and the runoff that is discharged is managed using the same type of control measure in each drainage area. In this scenario, the facility’s operator can use the “substantially identical outfall” exception because the industrial activities at the site are all the same, the runoff flows through exposed areas that presumably contribute the same type of pollutants, and the drainage area has the same or similar runoff coefficients. Note that the substantially identical outfall exception could not be used if there were in fact differences in any of the required components defined above.

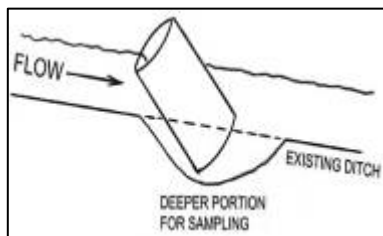
If your permit does allow you to use a substantially identical outfall exception, make sure you carefully review the type of monitoring for which this exception applies. For instance, while the 2008 MSGP allows permittees to use the substantially identical outfall exception for benchmark and visual assessment samples, the permit prohibits use of this exception for compliance monitoring (e.g., for use in showing compliance with numeric effluent limitation guidelines). Therefore, if a facility permitted under the 2008 MSGP is subject to a numeric limit based on an EPA effluent limitation guideline, it would have to monitor all outfalls at the site receiving flows from the applicable industrial activities. See Part 6.2.2.2 of the 2008 MSGP.

Where to collect a sample

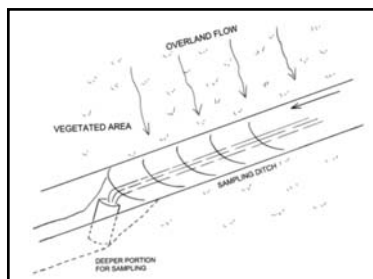
Sampling Sheet Flow

In some areas of your facility it may be difficult to obtain a sample because the runoff drains as sheet flow before it becomes concentrated enough for sampling. If the flow is too shallow to directly fill a collection bottle, you can overcome this by:

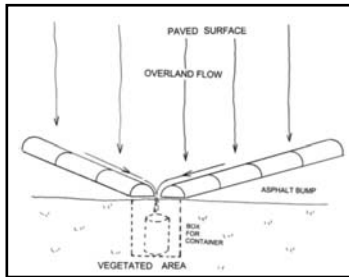
- Concentrating the sheet flow by excavating a small depression in an existing ditch or other location where stormwater runoff flows.



- Installing a trough, gutter or ditch to intercept and concentrate stormwater flow.



- Installing “speed” bumps to convey and concentrate a large area of sheet flow.



Collecting a sheet flow stormwater sample.

You should make these modifications during a period when rain is not forecast so any pollutants generated can be cleaned up before a storm hits. Also, if you dig a ditch or disturb the earth in some way, line the disturbance with concrete or plastic so that you do not contaminate your stormwater samples with sediment or other pollutants.

Sampling from a Pipe

For runoff flowing through a pipe into a ditch or receiving water, you should sample the outflow directly from the pipe. For hard-to-reach pipes, it may be necessary to fasten a collection bottle to a pole (see Sampling from a Manhole in Table 2 below).

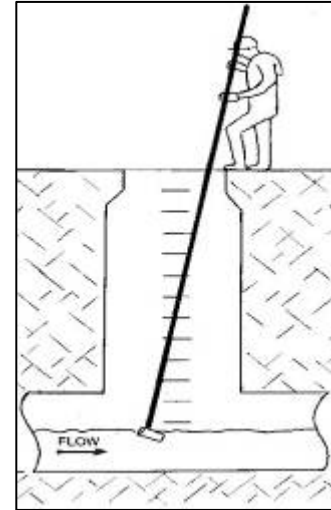
When collecting any type of stormwater sample it is imperative that the sample is collected before the stormwater reaches the receiving water.

Sampling From a Drainage Ditch or Swale

If your stormwater is discharged via a drainage ditch or vegetated swale, take a grab sample from a consistently flowing part of the ditch / swale. If the ditch / swale is too small or shallow, install a barrier device in the channel or deepen a small area so you are able to sample directly into the bottles. Allow sufficient time to pass after disturbing the bottom so that any solids stirred up do not contaminate your sample.

Sampling From a Stormwater Detention / Retention Basin or Other Treatment Device

If it is necessary for you to sample from a detention or retention basin, do so at the outfall of the structure. Collecting samples from stagnant or slowly moving water inside a pond will not yield a representative sample as the pollutants might not be adequately mixed. Stormwater basins may hold stormwater for long periods of time. Collect your sample within 30 minutes from when the pond begins to discharge.



Potential Sampling Issues

Depending on the location of your monitoring points, you may encounter additional challenges beyond deciding which sampling technique to employ at each site. Table 2 identifies some stormwater sampling problems common to industrial facilities and guidance for how EPA suggests you address them if they occur at your site.

Table 2. Solutions to Typical Stormwater Sampling Problems

Problem	Solution
Run-on from Neighboring Properties	Ideally, your stormwater samples will contain only runoff from your site. However, stormwater from a neighboring facility can “run on” and commingle with your own regulated discharge, possibly adding contaminants not found at your facility. You are responsible for any and all pollutants discharged from your site irrespective of the pollutants’ origin and whether the other facility has permit coverage. This responsibility includes run-on discharges from neighboring properties if this discharge commingles with your own regulated discharge. To accommodate stormwater run-on, EPA requires as part of the SWPPP site description that you document the locations and sources of run-on. As part of this documentation, if you collect and analyze samples of the run-on, you will need to report all such findings in your SWPPP.
Stormwater from industrial areas commingles with stormwater discharges from non-industrial areas or areas not regulated under the MSGP before it reaches the surface water body or MS4.	Attempt to sample the industrial stormwater discharge before it mixes with stormwater from non-industrial areas.
Adverse Weather Conditions	High tides and high flow or flood conditions can cause stormwater conveyances to reach maximum capacity, pipes to become clogged or submerged, and other unrepresentative flow situations. High flows could also be dangerous, so you should use your best professional judgment when selecting sampling locations. In some cases you may need to sample at a point before the intended outfall location.
There are numerous stormwater outfalls in one area.	Construct an impound channel or join together flows by building a weir or digging a ditch to collect discharge at a low point for sampling purposes. This artificial collection point should be lined with plastic to prevent infiltration and the introduction of

Problem	Solution
	sediment. Or, alternatively, sample at several locations to represent total site runoff.
The outfall is inaccessible (examples include underwater discharges or unreachable discharges such as a pipe discharging out of a cliff).	Go upstream of the discharge until a sample can be taken (i.e., to the nearest manhole or inspection point). You may need to sample at several locations to best represent runoff from this discharge point if you cannot access an upstream location.
A facility has many sampling locations making it difficult to collect all of the samples during the first 30 minutes of discharge, as required by the 2008 MSGP.	Have a sampling crew ready when storms are forecast so that all outfalls can be sampled during the first 30 minutes. Also, automatic samplers may be used to collect samples within the first 30 minutes, triggered by the amount of rainfall, the depth of flow, flow volume or time.
A stormwater sample location is beneath a manhole.	For accessibility and safety, use a sampling pole to collect samples from a manhole. Before a person can enter a manhole to collect a sample, they must be trained in confined space entry.
Stormwater from more than one industry type is commingled.	You must comply with monitoring requirements for all applicable sectors and SIC codes.

2.3 Determine Which Types of Monitoring Requirements Apply At Each Outfall

The next step in preparing for monitoring at your site is to determine the type of monitoring requirements that correspond to each outfall. The type of monitoring requirements to which you are subject will differ according to your permit. Different monitoring requirements may also apply to individual outfalls on your property based on the type of industrial activity discharging to that point, and even the receiving water to which you are discharging. Using your permit, determine the type of monitoring requirements to which your specific facility is subject, and document in your SWPPP the specific monitoring requirements that applies to each outfall, including the frequency of monitoring and the specific parameters that must be monitored.

Recall that it is not necessary to monitor an outfall if it does not have any industrial activity associated with it (e.g., discharge from an employee parking lot that does not commingle with stormwater runoff from an area of industrial activity) or if the outfall does not drain to a surface water (i.e. the outfall drains to a sanitary sewer or combined sewer system).

The following applies to the types of monitoring required under the 2008 MSGP. If you are not subject to the 2008 MSGP, consult your State permit to determine your monitoring requirements.

- **Visual Assessments** (Part 4.2 of the 2008 MSGP) – All 2008 MSGP permittees are required to collect samples of their stormwater discharge for visual inspection. The following qualitative characteristics must be assessed:
 - color;
 - odor;
 - clarity;
 - floating solids;
 - settled solids;
 - suspended solids;
 - foam;
 - oil sheen; and

- other obvious indicators of stormwater pollution.

Visual assessments must be conducted at all outfalls, although if several outfalls are “substantially identical” then only one visual assessment must be conducted on the set of outfalls. The sampling frequency for visual assessments under the 2008 MSGP is quarterly. The monitoring quarters are: January 1 – March 31, April 1 – June 30, July 1 – September 30, and October 1 – December 31.

- **Benchmark Monitoring** (Part 6.2.1 of the 2008 MSGP) – This type of analytic monitoring applies to certain industrial sectors regulated under the 2008 MSGP. Permittees subject to these requirements must take periodic grab samples of their stormwater discharge to compare the concentrations of key indicator pollutants to their corresponding benchmark concentrations. The benchmark values are based in large part on EPA’s aquatic life water quality criteria and are meant to serve as indicators of how well a facility’s stormwater control efforts are working. If a particular benchmark is exceeded, this indicates to a permittee that there may be a problem at the site, such as a spill, exposed pollutant source, or a faulty control measure, and triggers a required review of the potential problem to determine what corrective actions are necessary. For example, a total suspended solids (TSS) concentration found in a benchmark sample of greater than 100 mg/L, which is the applicable benchmark concentration for TSS, would require a facility to re-evaluate and potentially revise control measures implemented to control dust, soil erosion, or other sources of suspended solids. Note that the exceedance of the benchmark is not a violation (because benchmarks are typically not enforceable limits), but the failure to conduct the follow-up investigation and applicable corrective actions would be a violation of the permit.

Be sure to update your SWPPP and site map whenever you change or add new control measures. Control measure maintenance activities must be documented (preferably in a log), and such records must be kept with your SWPPP and stormwater file.

Determine whether you are subject to any benchmark monitoring requirements based on your particular industrial sector or subsector. The benchmark monitoring requirements differ based on the sector or subsector under which a particular facility falls. Note that not all sectors are subject to this type of monitoring. Appendix D in the 2008 MSGP provides the Standard Industrial Classification (SIC) code and activity codes categorized by sectors and subsectors. Use Appendix D to link your industrial activities with their associated SIC code sectors / subsectors. Your facility will have a primary industrial activity and associated SIC or activity code (which is the major determinant of your permit requirements), and, possibly, additional secondary sectors / subsectors with additional requirements for which you must comply. Next, using Part 8 of the 2008 MSGP, under your particular sector or subsector, determine whether you are subject to any benchmark monitoring requirements, and the corresponding benchmark that applies. Consider the following example: if you operate a gold mine (subsector G2) you are subject in Part 8.G.8.2 to the following benchmark monitoring requirements:

Table 3. Subsector G-2.		
Subsector (Discharges may be subject to requirements for more than one sector/subsector)	Parameter	Benchmark Monitoring Cutoff Concentration
Subsector G2. Iron Ores; Copper Ores; Lead and Zinc Ores; Gold and Silver Ores; Ferroalloy Ores, Except Vanadium; and Miscellaneous Metal Ores (SIC Codes 1011, 1021, 1031, 1041, 1044, 1061, 1081, 1094, 1099) (Note: when analyzing hardness for a suite of metals, it is more cost effective to add analysis of calcium and magnesium, and have hardness calculated than to require hardness analysis separately)	Total Suspended Solids (TSS)	100 mg/L
	Turbidity	50 NTU
	pH	6.0-9.0 s.u.
	Hardness (as CaCO ₃ ; calc. from Ca, Mg) ¹	no benchmark value
	Total Antimony	0.64 mg/L
	Total Arsenic	0.15 mg/ L
	Total Beryllium	0.13 mg/L
	Total Cadmium ¹	Hardness Dependent
	Total Copper ¹	Hardness Dependent
	Total Iron	1.0 mg/L
	Total Lead ¹	Hardness Dependent
	Total Mercury	0.0014 mg/L
	Total Nickel ¹	Hardness Dependent
	Total Selenium	0.005 mg/L
	Total Silver ¹	Hardness Dependent
Total Zinc ¹	Hardness Dependent	

Based on this table, you then know the pollutant parameter for which you must conduct benchmark monitoring, and the corresponding benchmark concentration against which you will compare each individual grab sample. Each sector or subsector subject to benchmark monitoring requirements includes a similar table in Part 8 of the 2008 MSGP.

After you have determined which (if any) benchmark sampling requirements apply, document in your SWPPP which outfalls are subject to such requirements, the frequency of monitoring, and the parameters that must be analyzed. If your facility has multiple outfalls, be aware that there may be different requirements for different outfalls depending on the type of industrial activity conducted in the drainage area of each outfall. You are only required to conduct benchmark monitoring for those outfalls with discharges from the specific sectors / subsectors that are affected by such requirements. Where an outfall includes no discharges from those sectors or subsectors for which benchmark monitoring requirements apply, then no benchmark samples need to be taken at that outfall.

The required benchmark monitoring frequency under the 2008 MSGP is quarterly. The monitoring quarters, beginning with the first quarter on April 1, 2009 are: April 1 – June 30, July 1 – September 30, October 1 – December 31 and January 1 – March 31.

Exceptions for Inactive and Unstaffed Sites (Part 6.2.1.3 of the 2008 MSG) – The requirement for benchmark monitoring does not apply to inactive and unstaffed facilities, providing there are no industrial materials or activities exposed to stormwater. This exception only applies to benchmark monitoring requirements and not to the other types of monitoring described above.

To claim this special exemption, you must note on the next quarterly benchmark monitoring report that your facility is inactive and unstaffed, and you must keep an inactive and unstaffed certification onsite (see Part 4.2.1.3). The requirement for conducting a quarterly visual assessment also does not apply inactive and unstaffed sites, as long as there are no industrial materials or activities exposed to stormwater. If you are invoking the exception for inactive and unstaffed sites, maintain a signed and certified statement onsite with your SWPPP stating that the site is inactive and unstaffed, and that there are no industrial materials or activities exposed to stormwater.

Hardness-Dependent Benchmarks (Appendix J of the 2008 MSGP) – The benchmark values of some metals are dependent on the level of hardness in your receiving waters (see 2008 MSGP, Appendix J). Hardness is a characteristic of water that results from the presence of dissolved salts, especially calcium sulfate or bicarbonate, and is usually reported as carbonate, noncarbonate or calcium + magnesium (Ca + Mg). If you are required to monitor for a hardness-dependent pollutant, you must first determine the hardness of your receiving water before you can establish the corresponding benchmark concentration.

- **Effluent Limitations Monitoring** (Part 6.2.2 of the 2008 MSGP) – Eight of the 2008 MSGP’s 29 industrial sectors are required to monitor to determine if they comply with EPA-defined effluent limitation guidelines. These monitoring requirements are included in Part 8 of the 2008 MSGP. Effluent limitation guidelines are legally enforceable limitations that must not be exceeded in stormwater discharges.

Similar to the benchmark monitoring requirements, samples only need to be taken at those outfalls with discharges from the specific activities that are subject to effluent limitation guidelines; otherwise these requirements do not apply. As stated previously, permittees subject to these monitoring requirements must take samples at all applicable outfalls, and no exceptions are given for substantially identical outfalls. However, if you are required to monitor a pollutant both for benchmark and effluent limitation guideline purposes, you only need to take one sample for both requirements.

When monitoring requirements overlap, e.g., TSS once per year for an effluent limit and once per quarter for benchmark monitoring, you may use a single sample to satisfy both monitoring requirements (i.e., one of your four quarterly benchmark samples would be used for your yearly effluent limit sample).

Table 4 identifies the industrial activities that are subject to effluent limitation guideline monitoring requirements and the associated sampling parameters. Effluent limitation guideline samples must be taken once per year (see Part 8 of the 2008 MSGP for the numerical values of each effluent limit).

Table 4. Required Monitoring for Effluent Limitations Guidelines

Regulated Activity	Where in 2008 MSGP	Sector	Effluent Limit Parameters
Discharges resulting from spray down or intentional wetting of logs at wet deck storage areas	Part 8.A.7	A	debris, pH
Runoff from phosphate fertilizer manufacturing facilities	Part 8.C.4	C	total P, fluoride

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Regulated Activity	Where in 2008 MSGP	Sector	Effluent Limit Parameters
Runoff from asphalt paving and roofing emulsion facilities	Part 8.D.4	D	total suspended solids (TSS), oil and grease, pH
Runoff from material storage piles at cement manufacturing facilities	Part 8.E.5	E	TSS, pH
Mine dewatering discharges at crushed stone, construction sand and gravel, or industrial sand mining facilities	Part 8.J.9	J	TSS, pH
Runoff from hazardous waste landfills	Part 8.K.6	K	biochemical oxygen demand (BOD ₅), TSS, ammonia, alpha terpineol, benzoic acid, p-cresol, phenol, total recoverable zinc, pH, aniline, naphthalene, pyridine, total recoverable chromium,
Runoff from non-hazardous waste landfills	Part 8.L.10	L	biochemical oxygen demand (BOD ₅), TSS, ammonia, alpha terpineol, benzoic acid, p-cresol, phenol, total recoverable zinc, pH
Discharges from coal storage piles	Part 8.O.8	O	TSS, pH

Determine whether you are subject to any effluent limitation guideline monitoring requirements. Document in your SWPPP which outfalls are subject to such requirements, the frequency of monitoring, and the parameters that must be analyzed.

- Impaired Waters Monitoring** (Part 6.2.4 of the 2008 MSGP) – The 2008 MSGP requires facilities to monitor, at least in the first year of permit coverage (and yearly thereafter depending on the sample results in the first year), for the presence of any pollutant causing an impairment to their receiving water. This requirement is triggered regardless of whether the particular pollutant is used or stored at the industrial site; however the facility may be able to discontinue monitoring after the first year if the pollutant is not present in the sample and is not expected to be present in any discharge. In advance of conducting this monitoring, you should already have a good idea of whether the pollutant will be found in your discharge. When you developed your SWPPP, you conducted a complete inventory of your site to determine what pollutants or pollutant constituents could be discharged in stormwater runoff. See Section 3.1 of EPA’s guide, *Developing Your Stormwater Pollution Prevention Plan: A Guide for Industrial Operators*, particularly the discussion about conducting an “Inventory of Materials and Pollutants”. Using this inventory from your SWPPP, you will be able to determine if any materials stored or used at your facility could contribute to impairment of your receiving water.

The next section of this guide includes specific steps to help you determine if you are subject to impaired waters monitoring requirements. After following those steps, document in your SWPPP which outfalls are subject to impaired waters monitoring requirements, the frequency of sampling, and the parameters that must be monitored.

- State / Tribal Monitoring Requirements** (Part 6.2.3 of the 2008 MSGP) – The 2008 MSGP includes a number of additional monitoring requirements that are unique to individual States

and/or Indian Country lands. These requirements are set out in Part 9 of the permit. These requirements may include additional or more frequent benchmark monitoring requirements, alternative benchmark thresholds, or additional parameters that must be monitored to establish compliance with applicable water quality standards.

Based on the State or Indian Country land in which they are located, each 2008 MSGP permittee must consult the applicable Part 9 section to determine what, if any, additional monitoring requirements apply. If you are subject to such requirements, you must document in your SWPPP which outfalls are subject to these provisions, the frequency of applicable sampling, and the parameters that must be monitored

- **Additional Monitoring Required by EPA** – It is possible EPA may require additional monitoring (see 2008 MSGP Part 6.2.5). You will be notified by the Agency if additional monitoring is required.

2.4 Determine if Your Facility is Subject to Impaired Waters Monitoring Requirements

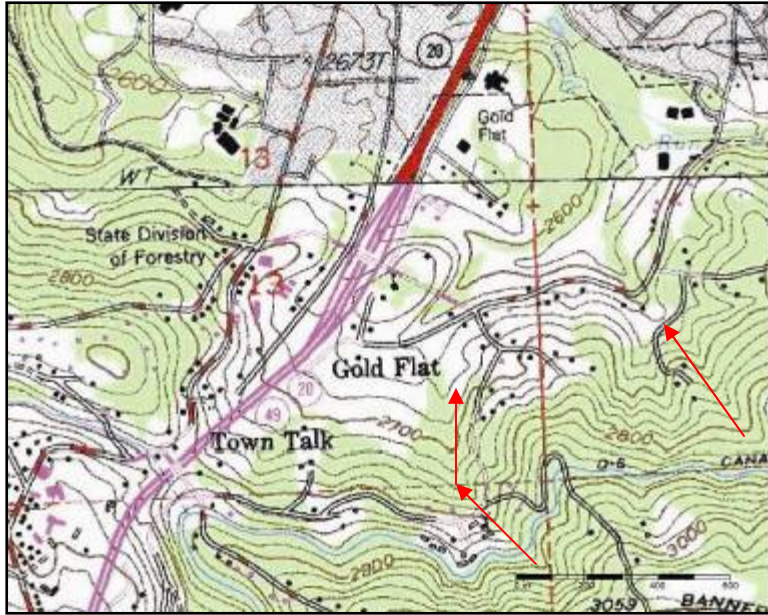
If you are required by your industrial stormwater permit to monitor for pollutants that cause impairment to your receiving water, you must first identify the receiving waters (e.g. ditch, creek, intermittent stream, lake, arroyo, etc.) into which your facility discharges stormwater and mark them on your site map. Note that you will have already identified your receiving waters if you filed an NOI to be covered by the 2008 MSGP.

A. Identify Your Receiving Water(s)

There are several ways to identify your receiving waters. Your receiving water may be a lake, stream, river, ocean, wetland or other waterbody, and may or may not be located adjacent to your facility. Your facility might discharge directly into its receiving water, or indirectly to the receiving water by discharging first through an MS4, ditch, or other conveyance.

Do these monitoring requirements apply to me if I discharge into a dry ditch?
Yes, if the ditch eventually conveys the runoff to a waters of the United States.

If the discharge from your facility does not discharge into an underground storm sewer system, you can use your site map and local topographic maps to pinpoint the closest waterways. Using the contours on the topographic map and your facility's outfall locations, determine the direction stormwater runoff flows from your facility. Once you know the direction of flow, you should be able to identify the receiving waters into which you discharge.



Sample section of a U.S.G.S. quadrangle map, with arrows showing direction of flow.

After identifying where your stormwater enters a waterbody, identify any additional interconnected waters for at least one linear mile downstream from the entrance point of your discharge (in case there are concerns about impacts to these downstream waters).

Resources to help you identify receiving waters:

- EPA's Water Locator Tool (available at www.epa.gov/npdes/stormwater/msgp) allows you to locate nearby receiving waters and impaired waterbodies within a 10 mile radius of your facility.
- EPA's Enviromapper (www.epa.gov/enviro/emef) enables you to find nearby waterbodies by entering your facility's zip code, address, facility name or identification number, EPA Region, watershed, or latitude/longitude data. Additional information on the location of impaired waterbodies can also be obtained.
- Topographic maps, which can be obtained from the U.S. Geological Survey (USGS) at http://topomaps.usgs.gov/ordering_maps.html, or through a retailer.

If your stormwater drains into an MS4, you will likely need to contact the operator of the system (e.g., the local public works department, the highway department, etc.) to identify the first receiving water your stormwater is released to after entering the MS4. Some MS4s have their storm sewer infrastructure maps available online.

Remember, the MS4 into which your facility's stormwater discharges is NOT your receiving water. The first waterbody that the MS4 discharges to after receiving your stormwater is the receiving water for your facility.

B. Determine if Your Receiving Water is Impaired and Whether a TMDL Has Been Completed

Once you have identified your receiving water(s), you will need to find out if the waterbody is impaired, and, if so, whether a total maximum daily load (TMDL) has been approved or established.

- **Water quality impairment status.** You need to determine whether your facility's receiving water is listed by your State as impaired and/or has an approved or established Total Maximum Daily Load (TMDL). EPA's Water Locator Tool (available at www.epa.gov/npdes/stormwater/msgp) will help find impaired waters within a 10 mile radius of your facility. Another place to check is EPA's website on Water Quality Assessment and TMDL information (www.epa.gov/waters/ir) or you can also contact your State water agency (cfpub2.epa.gov/npdes/contacts.cfm?program_id=6&type=STATE).

"Impaired waters" are streams, rivers, and lakes that do not currently meet their applicable designated uses and water quality standards. States, territories, and authorized tribes are required under the Clean Water Act to compile lists of known impaired waters, called 303(d) lists. Stormwater discharges to impaired waters may trigger additional control measures and monitoring requirements. For facilities subject to EPA's 2008 MSGP, see Part 2.2 for a more detailed discussion of water quality-based effluent limitations and conditions for discharging to impaired waters.

If your receiving water is impaired, use EPA's Water Locator Tool or Water Quality Assessment and TMDL website, or a State agency to help you determine:

- For what pollutant(s) is the water impaired? Make a separate list of all pollutants that have caused your waterbody to be impaired.
- Has an approved TMDL been completed for each of the pollutants? Some TMDL documents include information suggesting the type of monitoring that should be conducted to improve the understanding of the impairment or to demonstrate achievement of applicable wasteload allocations (WLAs).

C. Determine What Monitoring Requirements Apply

Having determined the pollutants that cause the impairment, you should now consult your permit to determine the type of monitoring that must be conducted, the frequency of monitoring, and whether any exceptions apply to certain pollutants. As discussed in Section 2.3 above, this must all be documented in your SWPPP so that it is clear which requirements apply to which outfall.

The 2008 MSGP lists several exceptions to and clarifications of the requirement to monitor for each impairment pollutant. In Part 6.2.4.1 of the 2008 MSGP, the permit clarifies that no monitoring is required when a waterbody's biological communities are impaired but no pollutant is specified as causing the impairment, or when a waterbody's impairment is related to hydrologic modification, impaired hydrology, or temperature. The permit also clarifies that monitoring is only required for pollutants for which a standard analytical method exists as defined in 40 CFR Part 136. In addition, certain exceptions exist that enable the permittee to be excused from sampling after the first year if it is found either that:

- The pollutant for which the waterbody is impaired is not detected above natural background levels in the discharge, and it is documented that the pollutant is not expected to be present above natural background discharges; or
- The pollutant for which the waterbody is impaired is not present and not expected to be present in the discharge.

Both the parameters that must be sampled and the frequency of monitoring for impairment pollutants may be subject to State- or Indian Country land-specific requirements. Therefore, each 2008 MSGP permittee must also consult Part 9 of the permit when determining which impaired waters sampling requirements apply.

2.5 What Type of Storm Events Qualify for Monitoring

In addition to understanding which monitoring requirements apply and where, it is also critical to develop an understanding of what type of discharge event you will be sampling. Under the 2008 MSGP, two preconditions must be met before a storm or snowmelt event is considered adequate to be monitored (see Part 6.1.3 of the 2008 MSGP).

- The storm / snowmelt event must create an actual discharge from your site (“measurable storm event”). This storm event will vary based on numerous factors at your site, the most obvious being the actual size and duration of the storm event. However, the amount of impervious surface at your facility will impact this as well. If your facility is covered mostly by grass or another type of vegetation with only a small amount of paved surfaces or roofs, it will take a larger storm to create a discharge from your site than it would at a facility that is entirely paved. Another factor affecting whether and how frequently you have a measurable storm event will be how frequently rain occurs at your facility and the size of the most recent storms. Saturated soil will generate a stormwater discharge more quickly than dry soil; however, VERY dry soil can also become compacted and become nearly impervious to rain, thereby converting precipitation to runoff quickly as well. You will need to pay attention to your facility’s particular characteristics to develop an understanding of what type of rain events or snowmelt results in a discharge.
- At least 72 hours must have elapsed since the previous measurable storm event (unless you are able to document that less than a 72-hour interval is representative for local storm events during the sampling period, or if you are monitoring snowmelt consistent with Part 4.2.1 [quarterly visual assessments] or Part 6.2.1 [benchmark monitoring] of the 2008 MSGP).

In order to properly characterize rain events at your facility, it is a good idea to begin by documenting each event as part of your facility’s routine maintenance activities. You can purchase a simple rain gauge and keep a notebook handy in order to document the dates on which rain occurred and the amount of rain that fell. You should also consider documenting whether or not an actual discharge from your facility occurred for each rain event. Tracking rainfall amounts and discharge information will help you to better predict which storm events will be measureable and result in a discharge.

In order to be prepared to take advantage of storms that will result in a “measurable storm event”:

- Be familiar with local precipitation trends, storm patterns, and seasonal variations.

- Check weather forecasts so you can prepare to sample upcoming precipitation events.
- In addition to your local television news and the Weather Channel, you can get weather information online from <http://www.wrh.noaa.gov> (National Weather Service) and <http://www.weather.com>.

Note: You should try to collect both benchmark samples and visual monitoring samples concurrently so you can compare visual observations with the laboratory results, and reduce your field activities burden.

What To Do If You Are Unable To Sample – EPA acknowledges there may be times you are unable to complete required monitoring. The following are guidelines on how you should deal with such times.

- *Areas with Intermittent Stormwater Runoff* – If your facility experiences limited rainfall for extended periods of the year (i.e., in arid or semi-arid climates), or freezing conditions that often prevent runoff from occurring, then the quarterly monitoring events may be distributed during seasons when discharging does occur. If you are unable to collect four samples in one year because of insufficient runoff, document this fact in your SWPPP and continue quarterly monitoring until you have collected four samples.
- *Snowmelt Sampling* – If you are located where appreciable snow is common, one of your samples must include the capture of snowmelt discharge. If, however, you experience prolonged subfreezing temperatures, you may only be able to acquire a sample once over two quarters. You will then have to complete the monitoring requirements as above.
- *Adverse Weather Conditions* – When adverse weather prevents sampling per your monitoring schedule, you must sample during the next qualifying storm event. Adverse conditions are those that are dangerous or create inaccessibility for personnel, caused by such things as flooding, high winds, electrical storms or situations that otherwise make sampling impractical (e.g., drought or extended frozen conditions).

2.6 Select the Monitoring Team

Identify the members of your facility's pollution prevention team (which you identified in your SWPPP) who will collect samples and conduct visual assessments of discharges. To be considered as a member of the monitoring team, applicable staff must be familiar with the SWPPP, especially the site plan, the layout of the facility, potential pollutant sources, and the monitoring and reporting program. They also need to possess the knowledge and skills to assess conditions and activities that could impact stormwater quality at your facility, and be able to evaluate the effectiveness of control measures.

Ideally, the pollution prevention team consists of at least one individual from each shift so that a team member is always present during normal operating hours.

to

Typically, monitoring staff are based near the site to enable them to be available on short notice to sample storm events.

It is also important that monitoring staff understand and follow all quality assurance quality control (QAQC) techniques and procedures to ensure that the data is good. You should discuss these techniques with your laboratory prior to taking samples and properly train all sampling staff.

2.7 Select a Laboratory to Analyze the Samples

Your stormwater samples will need to be analyzed for the parameters you identified in section 2.3 by a qualified laboratory. Labs must use the approved methodologies found at 40 CFR Part 136 and return a report with chemical concentrations including data quality assurance information.

EPA recommends that you select a laboratory that is a participant in the EPA's Discharge Monitoring Report - Quality Assurance (DMRQA) Program, and, if possible, be approved by the National Environmental Laboratory Accreditation Program (NELAP). NOTE: for ELG compliance monitoring, participation in DMRQA is a minimum requirement.

Things to discuss with the laboratory

- What type and size of bottle will be provided for each test?
- How full do I fill the bottle?
- Are there any safety concerns with materials provided by the lab?
- What is the best way to preserve the samples?
- What kind of labels will be supplied and how should I fill them out?
- Will the lab deliver the supplies or do I need to pick them up?
- What are the maximum holding times for each water quality parameter to be sampled?
- Will the lab provide pH paper? Samples need to be tested for pH within 15 minutes of collection to be valid, typically in the field.
- Will the lab pick up the samples from my facility or do I need to deliver them?
- Can you walk me through filling out the chain-of-custody forms?
- Is the quantitation limit for each parameter less than the benchmark or effluent limitation concentration?*

* The quantitation limit is the minimum concentration of a parameter that the lab can accurately report using a particular method.

- A comprehensive list of NELAP-approved laboratories can be found at www.nelac-institute.org/accred-labs.php
- To ensure your chosen laboratory is eligible and reliable, you may want to request documentation showing they are certified to analyze environmental samples, and evidence they participate in DMRQA or other performance evaluation testing results.

You should ask the laboratory about any additional services and products they offer. Such as:

- pre-labeled bottles and pre-printed chain-of-custody forms;
- training on sample collection, documentation and data interpretation;
- sampling and courier services; and
- complete sampling kits which include bottles, packing materials, bottle labels, coolers and chain-of-custody forms; many laboratories provide free sampling kits.

2.8 Document Monitoring Procedures in Your SWPPP

Ensure your monitoring procedures are correctly documented in your SWPPP (see 2008 MSGP Part 5.1.5.2). The required information includes:

- The monitoring requirements that specifically apply to your facility.
- Information related to the substantially identical outfall exception, if you will use it.
- Your sampling procedures.
- Your procedures for performing quarterly visual assessments of stormwater discharges. This SWPPP element includes the routine facility inspections and comprehensive site inspections required by the 2008 MSGP (see 2008 MSGP Part 4.1 and 4.3, respectively).

Figure 1 is an example of a completed MSGP Industrial Stormwater/Snowmelt Monitoring Summary Form. You should fill out this form (Appendix A) with the sampling locations and monitoring requirements that apply to your facility and include a copy in your SWPPP.

Benchmark Levels and ELGs									
Industry Sector	Pollutant	Benchmark Level	ELG						
			Daily Max	Monthly Average	Instant Min/Max				
D	TSS	100	23	15		Total Suspended Solids (SM 254-05)	pH	Oil and Grease (EPA Method 1664-A)	Iron (EPA Method 200.9)
D	Oil and Grease		15	10					
D	pH				6-9				
E2	Iron	1							
E2	TSS	100	50						
E2	pH				6-9				
Sample Summary									
Outfall Identifier	Industry Sector (SIC)	Basis	Frequency	Timing					
e.g. 001-A	Sector D (SIC 2951)	Benchmark	1/Quarter	1st wk of month	✓	✓	✓		
e.g. 001-A	Sector D (SIC 2951)	ELG	1/year	January	✓				
e.g. 001-B	Subsector E2 (SIC 3271)	Benchmark	1/Quarter	1st wk of month	✓			✓	
e.g. 001-B	Subsector E2 (SIC 3271)	ELG	1/year	January	✓	✓			

Figure 1. Example MSGP Industrial Stormwater/Snowmelt Monitoring Summary Form with monitoring requirements, sampling locations and industry sectors.

3. Conduct Monitoring

This section describes sampling preparation, choosing the right storm event to monitor, how to collect stormwater samples, how to conduct quarterly visual assessments, quality control considerations, and how to report the results.

The information contained in this section is not specific to monitoring for the 2008 MSGP or any particular general industrial permit.

3.1 What to Have In Place Prior to Collecting Stormwater Samples

Preparation is essential, especially if you are in a climate where measurable storm events are infrequent.

- ***In-Office Preparations*** – Your in-office preparations should include the following:
 - Contacting the lab well ahead of time so that you have the sample bottles before a measurable storm event.
 - Paying attention to weather forecasts so that you are tracking patterns that are likely to result in a measurable storm event.
 - Knowing who your monitoring personnel are and how to contact them when a measurable storm event is expected.
 - Having sampling gear assembled and checked for readiness.
 - Preparing sample bottle labels using waterproof ink with the following information (if not already done by the lab):
 - Facility name and address
 - Sample location identifier (e.g., Outfall 001)
 - Name or initials of sampling personnel
 - Parameter and associated analytical method (e.g., TSS, Method # 0160.2; consult with your contract laboratory for analytical method numbers)
 - Sample type (generally will be “grab” samples)
 - Sample preservation notes
 - Date and time after completing sampling event
- Having chain-of-custody forms ready for use.

The chain of custody form is a document that travels with the sample from collection through analysis. Each individual that handles the sample will place their name, date, and time on the chain-of-custody form. The form is used to maintain the integrity of the sample by providing documentation of the control, transfer, and analysis of samples (see Section 3.4 below for a more detailed discussion of chain-of-custody).

- **Sampling Supplies** – Collect the following supplies and keep them ready for quick use:
 - Clean, sterilized sample bottles, sized appropriately for the parameter to be analyzed (many labs provide the appropriate bottles or will tell you what size to get). Glass must be used for oil and grease samples; plastic containers can be used for other parameters. Use Teflon or aluminum-lined caps.

**For rinsing sample bottles,
use only distilled water**
 - If bottles are new but not pre-cleaned, they must be pre-conditioned before use by filling with water for several days (the duration can be reduced by using a dilute solution of hydrochloric acid).
 - Additional glass or clear plastic bottles suitable for visual assessments.
 - Visual monitoring forms (see example in Appendix B).
 - Clipboard and site-specific monitoring checklist.
 - If needed, a pole (sold at field supply stores) on which to attach sample bottles and attachment clips or strapping tape to secure the bottle to the pole.
 - Safety equipment, including first aid kit.
 - Hand sanitizer solution.
 - Carrying case for sampling equipment or backpack for carrying equipment to remote locations.
 - Powder-free disposable nitrile or latex gloves (sold by medical and laboratory suppliers or may be provided by your contract laboratory). Do *not* use powdered gloves as they may contaminate your samples.
 - Indelible pens / markers that can write on wet surfaces.
 - Foul-weather gear including footwear appropriate for the conditions at your sampling locations (e.g., non-slip boots).
 - Sturdy cooler and ice or ice packs for stowing and preserving your samples en route to the lab (the lab may provide an appropriate container).
 - Field notebook or field forms for your sampling records (waterproof notebooks are available at office supply stores).
 - pH paper and appropriate chemical preservatives for adding to sample bottles (obtain from your laboratory).



Preparing sampling supplies.

- **Optional or as-needed supplies:**
 - Sodium bicarbonate (for safety reasons if using acid preservative additives)
 - A graduated stick to measure water depth for determining safe / wade-able sampling access locations (if a sampling pole will be used, you can modify it with depth markings)
 - Mosquito repellent
 - Flashlight in case of sudden loss of light or darkness under storm conditions
 - Flagging tape for marking access to remote or overgrown locations
 - Camera, used for:
 - Recording evidence of potential pollutants or sampling conditions.
 - Especially useful if different people will do the sampling throughout the permit term.
 - Pictures of sample appearance along with the visual inspection records can help “normalize” visual assessments.
 - Pictures of the sampling location can help you find the same spot for subsequent sampling events.

Develop a stormwater sampling checklist to ensure consistency and continuity across sampling events. Since stormwater sampling is not a regular part of a facility's workload, a checklist of things to have prepared before sampling, sampling activities, and sampling locations will help you remember from quarter to quarter. You can make the checklist by noting the things you did for the first sampling event to remember for future sampling events. Keep the checklist updated as you gain experience with sampling.

3.2 Collect Stormwater Samples

Contact the lab prior to collecting stormwater samples so they know to expect the samples and have adequate staff available to conduct the analyses within the applicable holding times (the lab may offer courier service). Inform them of the pollutant parameters for which your samples will be analyzed.



A stormwater grab sample is collected directly into the sample container.

Follow the protocol below to obtain an accurate grab or manual sample. A grab sample is a single sample “grabbed” by filling up a container, either by hand or attached to a pole. Obtaining accurate data is vital to your ability to assess how your stormwater control measures are performing.

- Wear disposable powder-free gloves for sampling; never touch the inside of the lid or bottle.
- For oil and grease: fill the glass sample bottle directly from the discharge; never collect in a container first and then transfer to the sample bottle because oily residue will collect along the inside of the first collection bottle and make the sample inaccurate.

Remember, oil and grease must be collected directly into the glass sample bottle.

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- If you have problems accessing the stormwater discharge point (e.g., access is too far or dangerous), use a pole or other appropriate sampling apparatus.
- Sample only stormwater discharging from your facility (i.e., do not sample from puddles, ponds or retention basins).
- Sample from a turbulent section in the central part of the flow; avoid touching the bottom or sides of the stormwater conveyance.
- Fill the sample bottle nearly to the top (meniscus almost at the rim) by holding the opening into the flow of water; do not rinse or overfill the bottles.



Sample bottles labeled with location, date, time, sample collector, analysis, and preservative type.

While stormwater samples are typically grab samples, in some situations the use of an automatic sampler may be appropriate. Automatic samplers are mechanical devices that monitor site conditions and collect a sample when needed. The automatic sampler can be set up well in advance of a storm, or set up as a permanent installation, and the technician can retrieve the sample after the storm when conditions are favorable. Advantages of automatic samplers include low labor costs, convenience, and safety – personnel are not out in the storm trying to collect one or more samples. The major disadvantage is cost; automatic samplers are expensive. Secondly, the automatic sampler cannot collect visual observations, and they cannot be used for collection of certain measurements.

After the samples have been collected:

- Place the samples in a sturdy cooler partially filled with ice. As a general rule, samples should be kept at approximately 39°F (4°C) until the cooler is delivered to the lab.
- Put a completed chain-of-custody form enclosed in a re-sealable plastic bag inside the cooler. If you have several

pH has a 15 minute holding time; therefore, the sample must be analyzed within 15 minutes of collection.

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coolers complete a separate chain of custody form for each cooler.

- Deliver the samples to the lab (e.g. drive, arrange same-day pick-up by the lab, or use an express / overnight service) as soon as possible, bearing in mind the holding times for each parameter sampled.



Stormwater samples packed for delivery to the lab, note the chain of custody forms attached to the lid.

3.3 Record Information for Each Monitoring Event

For each individual sample collected, you should note the following information:

- The sample / outfall identifier.
- The duration between the storm event you sampled and the end of the previous storm event that resulted in a discharge of stormwater from your site (i.e., a “measurable storm event”).
- The date and duration of the storm event sampled.
- Rainfall measurement or estimate (in inches).
- Estimate of the total volume of the discharge sampled from the outfall.

You should record this information on a Stormwater Collection Form (see appendix C for an example).

3.4 Quality Assurance Considerations

The following actions must be followed explicitly. Quality assurance (QA) helps maintain the accuracy and integrity / legal defensibility of your monitoring results by documenting the stewardship of your samples, by minimizing biases in sampling and lab procedures, and by helping to assess the accuracy and precision of the lab’s analyses.

Holding Times and Sample Preservation

Samples that cannot be delivered to the lab on the same day may need to be preserved, often by cooling to 4°C (i.e., in an ice bath) and/or with added chemical preservatives (laboratory-supplied bottles may already include preservatives). If your samples need to be analyzed for more than one parameter you may need to bottle more than one sample at an outfall using different preservatives. In addition, you should be aware of the maximum holding time allowed for a particular parameter before which the sample must be analyzed. Following is a table with typical preservation and holding requirements for benchmark parameters and additional potential pollutants of concern (the latter will not have a numeric value in parentheses). Work with your laboratory service providers to develop a list of containers to optimize “sharing” of containers across different parameters. Not all laboratories provide the same container types for the different parameters. Laboratories frequently provide pre-completed custody records and seals, and will provide pre-labeled sample bottles for ease of use in the field as part of their routine “value-added” services. Pre-completed custody records and labels require only time, date, and samplers’ initials in order to complete this critical documentation. Your laboratory may also have additional sampling, sample handling, or shipping instructions helpful to your sample collection personnel. NOTE: Whenever possible, minimize the amount of lead time sample containers / kits are outside of the laboratory. Extended storage of pre-preserved containers for some analytes may present opportunity for blank contamination, even under ideal storage conditions.

Table 5. Sample Preservation and Hold Times

Parameter (Benchmark Level, mg/l or as specified)	Preservation		Maximum Holding Time	Sample Container
	Cool to 4° C?	Additional		
Aluminum, Total Recoverable (0.75)	N	HNO ₃ (nitric acid) to pH <2	6 months	500 mL HDPE
Ammonia (2.14)	Y	H ₂ SO ₄ (sulfuric acid) to pH <2	28 days	500 mL HDPE
Antimony, Total Recoverable (0.64)	N	HNO ₃ to pH <2	6 months	500 mL HDPE
Arsenic, Total Recoverable (0.15)	N	HNO ₃ to pH <2	6 months	500 mL HDPE
Beryllium, Total Recoverable (0.13)	N	HNO ₃ to pH <2	6 months	500 mL HDPE
Biological Oxygen Demand, BOD ₅ (30)	Y	None	48 hours	1L HDPE or glass
Cadmium, Total Recoverable (0.0005 – 0.0053)*	N	HNO ₃ to pH <2	6 months	500 mL HDPE
Chemical Oxygen Demand, COD (120.0)	Y	H ₂ SO ₄ to pH <2	28 days	100 mL HDPE or glass
Chromium (0.58 – 3.82)*	N	HNO ₃ to pH <2	6 months	500 mL HDPE

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Parameter (Benchmark Level, mg/l or as specified)	Preservation		Maximum Holding Time	Sample Container
	Cool to 4° C?	Additional		
Copper, Total Recoverable (0.0038 – 0.0332)*	N	HNO ₃ to pH <2	6 months	500 mL HDPE
Cyanide, Total (0.022)	Y	NaOH (sodium hydroxide) to pH >12, refrigerate in dark	14 days; 24 hours if sulfide present	1 L HDPE
Fluoride		None	28 days	100 mL HDPE
Hardness (as CaCO ₃)		HNO ₃ or H ₂ SO ₄ to pH <2 (method dependent)	6 months	100 mL HDPE
Iron, Total Recoverable (1.0)	N	HNO ₃ to pH <2	6 months	500 mL HDPE
Lead, Total Recoverable (0.014 – 0.262)*	N	HNO ₃ to pH <2	6 months	500 mL HDPE
Magnesium, Total Recoverable (0.064)	N	HNO ₃ to pH <2	6 months	500 mL HDPE
Mercury, Total Recoverable (0.0014)	N	HNO ₃ to pH <2	28 days	500 mL HDPE
Nickel, Total Recoverable (0.15 – 1.02)*	N	HNO ₃ to pH <2	6 months	500 mL HDPE
Nitrate + Nitrite Nitrogen (0.68)	Y	H ₂ SO ₄ to pH <2	28 days	200 mL HDPE
Oil and Grease	Y	HCl or H ₂ SO ₄ to pH <2	28 days	1L Boston round glass
pH (6.0 – 9.0 s.u.)	N	None	15 min (Field test)	50 mL
Phenols, Total Recoverable	Y	H ₂ SO ₄ to pH <2	28 days	500 mL HDPE
Phosphorous, Total (2.0)	Y	H ₂ SO ₄ to pH <2	28 days	500 mL HDPE
Radium, Total Recoverable		HNO ₃ to pH <2	6 months	1L HDPE
Radium, dissolved		Field-filtered HNO ₃ to pH <2; if not field filtered - none	Field filtered, preserved 6months; if not field filtered, filter on receipt, preserve to pH <2 6 months	1L HDPE
Selenium, Total Recoverable (0.005)	N	HNO ₃ to pH <2	6 months	500 mL HDPE
Silver, Total Recoverable (0.0007 – 0.0183)*	N	HNO ₃ to pH <2	6 months	500 mL HDPE
Total Suspended Solids, TSS (100)	Y	None	7 days	200 mL HDPE
Turbidity (50 NTU)	Y	store in the dark	48 hrs	100 mL HDPE
Uranium		HNO ₃ to pH <2	6 months	500mL HDPE
Zinc, Total Recoverable (0.04 – 0.26)*	N	HNO ₃ to pH <2	6 months	500 mL HDPE
Landfill Parameters				
Alpha Terpineol	Y	NA	7 days to extraction 40 days to analysis	1L Amber glass
Aniline	Y	NA	7 days to extraction 40 days to analysis	1L Amber glass
Benzoic Acid	Y	NA	7 days to extraction 40 days to analysis	1L Amber glass
Napthalene	Y	NA	7 days to extraction	1L Amber glass

Parameter (Benchmark Level, mg/l or as specified)	Preservation		Maximum Holding Time	Sample Container
	Cool to 4° C?	Additional		
			40 days to analysis	
p-Cresol	Y	NA	7 days to extraction 40 days to analysis	1L Amber glass
Pyridine	Y	NA	7 days to extraction 40 days to analysis	1L Amber glass

*These values are hardness dependent.

Field Blanks

Field blanks are distilled or de-ionized water samples prepared when you are collecting stormwater samples. Field blanks are prepared, in the field, after cleaning the sampling equipment but before collection of water quality samples. Blanks are prepared by pouring distilled de-ionized water into each scoop, dipper, etc. used for sample collection and then into sample bottles as if they were actual field samples. The field blanks are processed and analyzed in an identical manner as the stormwater samples. If the lab detects any contamination in the blanks, your sampling results could be considered tainted (either from contamination or errors in sampling or analysis). Collection and analysis of field blanks is not required by the 2008 MSGP; however, field blanks are used for quality control to assess whether contamination was introduced during sampling, and may prove useful in interpretation of results.

Chain of Custody Forms and Procedures

Samples must be traceable from the point of collection until the sampling results are reported. To do this, document who is in possession of the samples using the chain of custody procedures below. One person should be responsible for the care and custody of the samples, and for generating the chain of custody record until the samples are properly transferred or relinquished to the laboratory. Chain of custody tasks include:

- Ensure that the sample labels are properly filled in.
- Complete the chain of custody form with the date, time, parameter and sample locations for each sample, and sign the form.
- During the transfer of custody of the samples, both the persons relinquishing and receiving the cooler (including lab personnel) must record the date and time on the chain of custody form and sign it.
- Record the shipping method, courier name(s), and other pertinent information as remarks on the chain of custody form.
- The original chain of custody form remains with the samples and a copy must be provided to the facility for inclusion in project records.

Chain of custody records are critical to ensure that no tampering occurs between sample collection and analysis. Your analytical service provider may provide training or written instructions to assist in your completion of accurate custody records. This is another key area where many laboratories invite the opportunity to work with their clients as part of their value-added services.

3.5 Conducting Visual Assessments of Stormwater Discharges

All facilities covered by the 2008 MSGP must perform quarterly visual assessments, irrespective of benchmark monitoring.

Visually inspecting stormwater samples from a measurable discharge at your sampling outfalls is an inexpensive way of assessing the performance of your control measures. The sample should be collected and analyzed in a colorless glass or plastic bottle. It is recommended that you take photographs of the discharges at the time of observation in case more than one person is doing the assessments and because photos can be helpful in determining the effectiveness of your control measures and any need to make changes to control measures.

Assess the general appearance, as an indicator of contaminants, of your discharges for these characteristics:

- **Color** – If the discharge has an unusual color, such as reddish, brown, or yellow hue, this may indicate pollutants or suspended sediment.
- **Odor** – If the discharge has a noticeable odor, for instance if it smells like gasoline fumes, rotten eggs, raw sewage, or solvents odor, or has a sour smell, this could be indicative of pollutants in the discharge.
- **Clarity** – If the discharge is not clear, but is instead cloudy or opaque, this could indicate elevated levels of pollutants in the discharge.
- **Floating solids** – If you observe materials floating at or near the top of the bottle, take note of what the materials appear to be.
- **Settled solids** – You should wait about a half hour after collection, then note the type and size of materials that are settled at the bottom of the bottle.
- **Suspended solids** – Particles suspended in the water will affect its clarity, and color and could be attributable to pollutant sources at your facility.
- **Oil sheen** – You should check the surface of the water for a rainbow color or sheen; this would indicate the presence of oil or other hydrocarbons in the discharge.
- **Foam** – You should gently shake the bottle and note whether there is any foam.
- **Other obvious indicators of stormwater pollution.**

To record your visual monitoring results you can use the optional “Quarterly Visual Monitoring Form” in Appendix B (or a comparable one of your own).

4. Evaluate Monitoring Results

The primary purpose of any industrial stormwater monitoring program, consisting of analytic chemical monitoring and visual assessments, is to provide feedback on the performance of your selection and implementation of control measures. Visual evidence of pollution in a stormwater sample, a spike in the concentration of a benchmark pollutant, or the exceedance of a numeric effluent limitation provides an indicator that modifications or additions to the site's control measures need to be considered to improve the effectiveness of your stormwater program.

The following will aid you in interpreting your monitoring results and revising your control measures, if necessary.

4.1 Evaluating Quarterly Visual Assessment Results

For anything but colorless and odorless stormwater in your discharge, you should investigate what area of your site or what specific pollutant sources are contributing to the contamination of your site's runoff. To search for the source of pollutants, you should move upstream from the discharge point. You should scrutinize your exposed industrial materials and activities (material handling equipment, industrial machinery, raw materials, finished product, wastes, or products that are stored, used or created onsite, etc.). Examine where material handling activities occur, such as: storage, loading and unloading, and material transporting. Be aware, the source could be from an ongoing activity or the result of a spill or other infrequent occurrence. In looking at your samples, consider the following:



- When there is a distinct color or odor, are the abnormalities associated with any raw materials, chemicals or other materials used at the site?
- Muddiness or sediment may have been picked up from areas where there is disturbed earth or other unpaved areas lacking adequate control measures.
- Foam or oil sheen may be the result of a leak or spill of materials.
- Cloudiness indicates suspended solids such as dust, ash, powdered chemicals, and ground up materials. Determine whether you use any of these materials and whether they are exposed to stormwater.

Clean up all sources of potential contamination, make changes to your control measures, and update your SWPPP, as necessary.

4.2 Evaluating Benchmark Monitoring Results

The analysis of your benchmark monitoring results can yield valuable information about the characteristics of your runoff and how well your control measures are working. Once you have received your lab results for your benchmark samples, compare these concentrations to the benchmark values that apply to your facility. The 2008 MSGP requires that you conduct four benchmark samples in your first year, and then compare the average value to the applicable benchmark. If the average concentration of your samples exceeds the benchmark, then you are required under the permit to evaluate whether changes to your control measures are necessary. See Parts 6.2.1.2 and 3.2. However, prior to the completion of the four samples, if one or more sample results makes an exceedance of the benchmark mathematically certain, you are required to conduct this evaluation without waiting for the results of the remaining benchmark samples.

Table 6 will help you decide a course of action depending on the results of your benchmark samples.

Table 6. Evaluation of Benchmark Monitoring Results

Does the average of your four quarterly benchmark samples for any pollutant exceed the applicable benchmark concentration? OR <u>If you have not yet completed your four quarterly benchmark samples, does the total value of your samples already make an exceedance of the benchmark mathematically certain (e.g., the sum of the concentration of your samples exceeds four times (4X) the benchmark concentration)?</u>	
YES	NO
<p>You must evaluate whether modifications to the stormwater control measures used at your site are necessary. You will need to consider whether there is a problem in the selection, design, installation, and/or operation of applicable control measures. Follow the evaluation and corrective action process in Parts 3.2, 3.3, and 3.4.</p> <p>An exceedance of a benchmark does not necessarily mean that your control measures are insufficient. Continue reading below for additional items to consider as you proceed.</p>	<p>Sample results below benchmark limits provide an indication that your control measures are working as intended to minimize the discharge of pollutants.</p> <p>Although your samples indicate properly functioning control measures, you should continue to note changes to your site that may affect the quality of stormwater runoff, and to link such changes to your future monitoring results.</p> <p>You are still required to meet all requirements in the permit affecting the implementation and maintenance of your control measures, despite the good results of your benchmark monitoring.</p>

If benchmarks were exceeded:

- Did you sample correctly?
 - Did you start with clean sample collection jars and were the samples preserved and submitted to the lab within the allotted time frame?
 - Did you properly sample the discharge flowing from the site or did you collect the sample from a low spot or stagnant pool?

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- Was anything atypical going on at the site prior to or during the storm? Atypical activities could include:
 - A leak or spill that was not adequately cleaned up.
 - Construction, painting and paving activities.
 - Having a large amount of material (raw materials, wastes or products) recently delivered or being prepared for shipment.
- Did you observe anything during visual inspections that may have indicated that stormwater runoff would have been exposed to pollutants? If so, are control measures in place to address the pollutant sources?



The more the benchmark was exceeded, the greater your facility's problems may be, necessitating a more robust response. For example, if your results for TSS were over the benchmark value by a relatively small amount (e.g., TSS values of 110 to 150 mg/L, compared to the 100 mg/l benchmark level assigned to TSS), then simply performing additional housekeeping measures (e.g., frequent sweeping) may reduce the values below the benchmark of 100 mg/l by the next storm. However, an exceedance above 150 mg/l may warrant new or supplementary control measures (assuming your control measures are performing as designed) that more effectively reduce the potential for sediment in discharges (e.g., installing storm inlet filters, seeding / stabilizing disturbed areas, implementing dust and debris controlling procedures). TSS values exceeding benchmarks by orders of magnitude indicate a serious problem, and may require structural control measures (e.g., paving, installing berms around piles of loose material, placing operations under cover, placing grassy swales or basins in the discharge flow path to trap sediment).

Until your visual observations and sampling results show that pollutants are not found in your discharges or are present in concentrations below benchmark values, the pollution prevention team should engage in an iterative process in which control measures are selected, implemented, evaluated and modified until determined to be completely effective.

There may be circumstances where benchmark values cannot be reasonably achieved because of local natural background concentrations (see 2008 MSGP Part 6.2.1.2). In such cases, EPA allows for benchmark exceedances. For example, high natural background levels of iron in soils or groundwater could cause exceedances of a benchmark value. This provision exempts facilities from further control measure evaluation and benchmark monitoring when natural background levels are solely responsible for the exceedance of a benchmark value.

To make this determination, natural background pollutant concentrations must be greater than the corresponding benchmark value, and there is *no* net facility contribution of the pollutant (i.e., average concentration detected in runoff from all monitored outfalls over four separate events minus the average natural concentration of the parameter for four separate events does not exceed zero).

For example, if the natural background concentration of TSS from an undisturbed watershed is 200 mg/L, an exemption from further benchmark monitoring / control measure evaluation is available if the average of your four benchmark samples is equal to or lower than 200 mg/L. There are additional requisites for claiming a natural background level exemption, including documentation. Details of these are contained in the 2008 MSGP in Part 6.2.1.2 and the Fact Sheet.

4.3 Effluent Limitation Guideline Monitoring Results

What happens if your facility is subject to numeric effluent limits (for ELG compliance monitoring) and your stormwater sample exceeds the effluent limits for one or more parameters? Within 24 hours of receiving the lab report you must prepare a corrective action report, including:

- Identification of the condition triggering the need for corrective action review;
- Description of the problem identified; and
- Date the problem was identified.

Within 14 days of receiving the lab report, you must document the following information:

- Summary of corrective action(s) taken or to be taken;
- Notice of whether any modifications to your control measures and any related changes to your SWPPP are necessary as a result of this discovery or corrective action;
- Date corrective action initiated; and
- Date corrective action completed or expected to be completed.

You must submit these reports with your annual report and retain a copy onsite with your SWPPP

The 2008 MSGP requires that you conduct follow-up monitoring within 30 calendar days of implementing corrective actions (or during the next qualifying runoff event, should none occur within 30 days, see Part 3 of the 2008 MSGP). Monitoring must be performed for any pollutant(s) that exceeded the effluent limit. If the results from the follow-up monitoring exceed the effluent limit(s), you are required to submit an Exceedance Report to EPA no later than 30 after receipt of your lab results. The exceedance report must include:

- NPDES permit tracking number;
- Facility name, physical address, and location;
- Name of receiving water;
- Monitoring data from this and the preceding monitoring event(s)

- An explanation of the situation; what you have done and intend to do (should your corrective actions not yet be complete) to correct the violation; and
- An appropriate contact name and phone number.

In addition to preparing the Exceedance Report, you must continue to monitor, at least quarterly, until your stormwater discharge is in compliance with the effluent limits or until EPA waives the requirement for additional monitoring.

4.4 Specific Pollutants and Control Measure Options

All facilities need to gear their control measures toward their specific pollutants of concern, as determined by the materials and activities onsite. Below is a brief discussion of some of the most common pollutants and control measure options.

- **Total Suspended Solids (TSS).** Small sediment particles are easily suspended and carried by surface water flows. These particles may be blown onto the site from unpaved areas within or adjacent to your facility as well as being tracked in on the tires of vehicles. Excess particles may be self-generated, particularly in the concrete, asphalt, scrap recycling, automobile salvage, and mining sectors. See the discussion above for control measure options for controlling TSS.



- **Oil and Grease.** Often, oil and grease may be observed as a film, sheen or discoloration on the top of a discharge or receiving water. But such a surface anomaly may not be obvious, in which case detection by a lab would be the only way. This could be a pollutant of concern for any facility, especially if there are exposed vehicles or equipment. Therefore, it is vital that due diligence regarding “reportable quantity” (RQ) spills or leaks be observed. Basically, an RQ for oil is any quantity of oil that causes a film, sheen or discoloration on a receiving water surface (and for which there are separate reporting requirements to regulatory agencies). If detected you must find the source and mitigate it. Start with the vehicle / equipment maintenance and storage areas or where shipping / receiving and the like are done. Above ground storage tanks and waste storage are other likely sources.

Available control measures range from regularly monitoring these areas and applying an absorbent material (choose a bio-based absorbent like Nature’s Broom, not a clay-based material) as soon as an oil leak or spill is observed. Consider coverage of and secondary containment for storage areas where oil or grease are stored, transferred or disposed of. An oil water separator downstream of the area(s) most likely to contain oil or grease could provide enough treatment to reduce oil and grease to acceptable levels in the discharge.

- **pH.** pH values below benchmark range indicate that acidic substances are exposed to stormwater. In this case you need to determine whether any of your industrial processes use acids and if so, where. Does your facility do plating, or are lead-acid batteries used or stored on-site? If acids are being used to clean parts, for example, where are the parts stored after being treated with the acid? Where are waste acids stored and how are they disposed? Which operations could expose acids to stormwater? Coal piles are also a source of acidified runoff.



High pH values indicate that a base or alkaline material (such as lye) is exposed to stormwater. Cement and some cleansers can produce high pH values.

Control measures applicable to controlling pH include housekeeping (sweeping and cleaning areas where materials that affect pH could be exposed to stormwater); overhead coverage and disposal of waste materials in covered receptacles. Low or high pH runoff can be collected and neutralized by adding an appropriate agent to neutralize pH values to the 6.0 – 9.0 range. Alternatively, flow can be directed to come in contact with a neutralizing substance (e.g., acidic coal pile runoff directed to flow through a limestone channel).

- **Chemical Oxygen Demand (COD).** COD is the amount of dissolved oxygen in water consumed by the chemical breakdown of organic and inorganic matter (i.e., COD is not a specific component in the discharge). Therefore, a high COD value indicates elevated quantities of pollutants in runoff, especially carbon. Examples of facilities that handle materials which could cause high COD levels include the wood and paper product industries. Control measures applicable to controlling COD levels are the basic stormwater ones: good housekeeping and covering materials with the potential to allow carbon or other organic materials to be carried by stormwater.
- **Metals.** Metals originate from many sources and consequently a number of industries must monitor for metals, including facilities such as wood preservative and agricultural chemical makers, mines, and foundries. Depending on a facility's activities, metals can be found in a dissolved form and/or adsorbed to particles or sediment. It is because both the dissolved and particulate forms can occur at the same time is why stormwater discharges are analyzed for "total recoverable metals." After identifying those operations that could expose stormwater to metals sources, implement control measures capable of reducing metals concentrations, including good housekeeping (sweeping and disposing of metal wastes in covered containers), covering / shielding operations, and directing run-on away from any critical outdoor areas. Ion exchange techniques can also be employed to remove dissolved metals.

5. Record-Keeping and Reporting

It is important that accurate record-keeping of monitoring activities become a standard operating procedure at your facility. You need to be able to show that monitoring and sampling events not only meet all permit requirements, but are defensible and abide by all QA/QC procedures. It is always preferable to document too much as opposed to too little when dealing with any sort of permit compliance. Create easy to use log books for keeping track of rain events. Be sure that your site map is up to date and easy to understand. Develop simple instruction sheets for recording sampling, visual assessments, or other monitoring activities. The instructions should be kept in logical locations (e.g. in sample kits, in the SWPPP notebook) and updated as needed.

When possible, use standardized forms such as those provided in the appendices of this monitoring guide to record your monitoring activities. This will provide consistency in information reported. Example forms are provided in this guide in Appendix A (2008 MSGP Industrial Stormwater Monitoring Form), Appendix B (2008 MSGP Visual Monitoring Form), and Appendix C (2008 MSGP Industrial Stormwater Collection Form).

If possible, regularly transfer sampling records and sample results into databases or spreadsheets. This will provide back-up records for hard-copy logs or forms as well as providing an easy way to analyze your sampling data.

5.1 Reporting Monitoring Data

Each state industrial stormwater permit has different requirements for how monitoring data should be reported. Facilities subject to EPA's 2008 MSGP must submit to EPA all monitoring data collected no later than 30 days after receiving complete lab results for all monitored outfalls. You must submit even if your facility is reporting "no discharge" or a change in status from "active and staffed" to "inactive and unstaffed."

Facilities must use the online eNOI system (www.epa.gov/npdes/eNOI) to report results. EPA's Electronic Notice of Intent (eNOI) system is an online electronic permit application system that enables stormwater entities to submit NOI forms to EPA. eNOI also allows registered eNOI users to report discharge monitoring data and submit annual reports and other reporting information to EPA.

If you cannot access eNOI, the paper MSGP Discharge Monitoring Report (MDMR) reporting form (available at www.epa.gov/npdes/stormwater/msgp) can be submitted to the appropriate address identified in the 2008 MSGP (Part 7.6.1).

Even if you submit monitoring data via eNOI, the paper MDMR form can help ensure you have the information you need to complete all the required fields. Rather than go line by line through the MDMR, which the instructions do, this Guide will highlight the information needed to fill out the MDMR.

You will need the following information to submit monitoring data via eNOI and complete the MDMR, at a minimum:

1. Permit tracking number
2. The facility SWPPP

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3. Monitoring records
4. Lab reports
5. Corrective actions

Permit Tracking Number – The permit tracking number is a unique identifier assigned to your facility by EPA. EPA tracks report submittals using the Permit Tracking Number rather than facility name or address. Thus, if you do not include the Permit Tracking Number you may not get credit for submitting the MDMR.

Facility SWPPP – The facility SWPPP includes several pieces of information needed for the MDMR, including:

- The number of stormwater outfalls.
- Which, if any, of the outfalls discharge substantially identical effluents.
- Alternative monitoring periods, if the facility is located in an area of irregular stormwater runoff.

Monitoring Records – Detailed monitoring records will make completing the MDMR easier. As previously discussed, monitoring records must include:

- The date(s) of all monitoring events during the MDMR reporting period.
- Any stormwater outfalls that did not have a discharge during the MDMR reporting period.
- Whether the discharge resulted from rainfall or snowmelt.
- The duration of the storm event.
- The number of inches of rainfall from the monitored storm event(s).
- The number of days since the previous measurable storm event, which may or may not be the previous *monitored* measurable storm event.

Lab Reports – The lab will provide a detailed report with the results of your stormwater analyses and detailed QA/QC data to verify that the results are accurate. For each parameter the lab will typically report one of three results to be reported on the MDMR.

1. The measured concentration to be compared against the benchmark or effluent limitation guideline.
2. BQL or below quantitation limit means that the parameter is present at some amount greater than zero but less than the quantitation limit but the method used is not precise enough to give an exact concentration. Report BQL and the numeric quantitation limit on the MDMR.
3. ND or not detected means that the parameter was not detected in the sample. Report ND and the detection limit on the MDMR. Note that the ND level is typically three to five times less than the quantitation limit.

Other lab reports you may need include receiving water hardness results if any of your required parameters are hardness dependent, and data on natural background pollutant levels if you are claiming that an exceedance of a benchmark limit is due to natural background conditions.

Corrective Actions – The 2008 MSGP requires you to implement corrective actions if the lab report indicates an exceedance of one or more numeric effluent limits or if the average of four quarterly samples exceeds the applicable benchmark. You must document discovery of effluent limit(s) or

benchmark concentration(s) exceedances within 24 hours of receiving the lab report, including the condition triggering the need for corrective action review; a description of the problem; and the date the problem was identified. Within 14-days of receiving the lab report you must summarize the corrective action that was taken or will be taken, including a description of the corrective action; start and end dates; and whether the SWPPP will be modified. You can submit the corrective action report(s) via eNOI or along with the paper MDMR form.

6. Train Personnel

You must train your stormwater pollution prevention team in the proper procedures for sample collection, visual assessments, tracking and reporting. Trainings should be held regularly to update staff on any permit or SWPPP changes. New employees that become members of the stormwater pollution prevention team should be trained in general stormwater awareness as well as the following monitoring-specific topics:

- How to anticipate a measurable storm event.
- Where to monitor.
- How to collect and document the collection of stormwater samples including the assembling of “field blank” samples.
- How to perform and document visual assessments.
- How to handle and send the samples to the lab.
- How to interpret the results.
- How to keep accurate and complete records and report appropriate information to the permitting authority.

7. References

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Appendix A – 2008 MSGP Industrial Stormwater Monitoring Form

MSGP Industrial Stormwater/Snowmelt Monitoring Summary Form

Name of Facility: Address: Permit Tracking Number:						Pollutants to sample (Method)						
Benchmark Levels and ELGs												
Industry Sector	Pollutant	Benchmark Level	ELG									
			Daily Max	Monthly Average	Instant Min/Max							
Sample Summary												
Outfall Identifier	Industry Sector (SIC)	Basis	Frequency	Timing								

Appendix B – 2008 MSGP Visual Monitoring Form

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility:		Permit No.:	
Street Address:		City:	State: Zip Code:
Outfall Number:	"Substantially Identical Outfall"? <input type="checkbox"/> No <input type="checkbox"/> Yes (identify substantially identical outfalls): _____		
Quarter/Year:	Substitute Sample?: <input type="checkbox"/> No <input type="checkbox"/> Yes (identify quarter/year when sample was originally scheduled to be collected): _____		
Person(s)/Title(s) collecting sample:			
Person(s)/Title(s) examining sample:			
Date & Time Storm or Snowmelt Began:	Date & Time Sample Collected: _____	Date & Time Sample Examined: _____	
Nature of Discharge: <input type="checkbox"/> Rainfall <input type="checkbox"/> Snowmelt			
Rainfall Amount: _____ inches	Previous Storm Ended > 72 hours Before Start of This Storm? <input type="checkbox"/> Yes <input type="checkbox"/> No* (explain): _____		
Parameter			
Color	<input type="checkbox"/> None <input type="checkbox"/> Other (describe): _____		
Odor	<input type="checkbox"/> None <input type="checkbox"/> Musty <input type="checkbox"/> Sewage <input type="checkbox"/> Sulfur <input type="checkbox"/> Sour <input type="checkbox"/> Petroleum/Gas <input type="checkbox"/> Solvents <input type="checkbox"/> Other (describe): _____		
Clarity	<input type="checkbox"/> Clear <input type="checkbox"/> Slightly Cloudy <input type="checkbox"/> Cloudy <input type="checkbox"/> Opaque <input type="checkbox"/> Other (describe): _____		
Floating Solids	<input type="checkbox"/> No <input type="checkbox"/> Yes (describe): _____		
Settled Solids**	<input type="checkbox"/> No <input type="checkbox"/> Yes (describe): _____		
Suspended Solids	<input type="checkbox"/> No <input type="checkbox"/> Yes (describe): _____		
Oil Sheen	<input type="checkbox"/> None <input type="checkbox"/> Flecks <input type="checkbox"/> Globs <input type="checkbox"/> Sheen <input type="checkbox"/> Slick <input type="checkbox"/> Other (describe): _____		
Foam (gently shake sample)	<input type="checkbox"/> No <input type="checkbox"/> Yes (describe): _____		
Other Obvious Indicators of Storm Water Pollution	<input type="checkbox"/> No <input type="checkbox"/> Yes (describe): _____		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.

** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No Yes (explain): _____

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter:

No Yes (explain): _____

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary).

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)

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 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.

A. Name _____

B. Title _____

C. Signature _____

D. Date Signed _____

Appendix C – 2008 MSGP Industrial Stormwater Collection Form

MSGP Industrial Stormwater/Snowmelt Discharge Collection Form

Name of Facility: Address: Person(s)/Title(s) collecting sample: Permit Tracking Number: Outfall Numbers/Sample Locations:			Preservative (Y/N)	Number of Containers	Type of Analyses Required								Sample Collection Information	
					Date & Time Sample Collection Began:									
Discharge Information														
Nature of Discharge (circle one): Rainfall or Snowmelt														
Rainfall Amount (inches):														
Date of Discharge Sampling:														
Date & Time Storm Began:														
Date & Time Storm Ended:														
Date & Time of Previous Measurable Storm Event:														
Shaded area for laboratory use only														
Date	Time	Sample Identification/Outfall										Collection Method	Laboratory Log Number	
Sampled by: <i>(signature)</i>		Date/Time:	Relinquished by: <i>(signature)</i>			Date/Time:	Received by: <i>(signature)</i>			Date/Time:				
Received by: <i>(signature)</i>		Date/Time:	Received by: <i>(signature)</i>			Date/Time:	Received by: <i>(signature)</i>			Date/Time:				

The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions below (attach additional sheets as necessary).

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)

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 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.

A. Name _____

B. Title _____

C. Signature _____

C. Date Signed _____

L4 – ANNUAL REPORT EXAMPLE

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Appendix I - Annual Report Form

Part 7.1 requires you to use the NPDES eReporting Tool, or "NeT", to prepare and submit your Annual Report. However, if you are given a waiver by the EPA Regional Office to use a paper annual report form, and you elect to use it, you must complete and submit the following form.

This Annual Report Form Template is provided for reference only.

Annual Reports must be submitted by January 30th of each year of permit coverage (beginning in January 2017) through the EPA's NPDES eReporting Tool (NeT). NeT can be accessed through EPA's central Data Exchange (CDX) system at <https://cdx.epa.gov/>.



A. Approval to Use Paper Annual Report Form

1. Have you been granted a waiver from electronic reporting from the EPA Regional Office*? YES NO

If yes, check which waiver you have been granted, the name of the EPA Regional Office staff person who granted the waiver, and the date of approval:

- Waiver granted: The owner/operator's headquarters is physically located in a geographic area (i.e., ZIP code or census tract) that is identified as under-served for broadband Internet access in the most recent report from the Federal Communications Commission.
- The owner/operator has issues regarding available computer access or computer capability.

Name of EPA staff person that granted the waiver:

Date approval obtained: / /

*** Note: You are required to obtain approval from the applicable EPA Regional Office prior to using this paper annual report form. If you have not obtained a waiver, you must file this form electronically using the NPDES eReporting Tool (NeT) at <http://water.epa.gov/polwaste/npdes/stormwater/Stormwater-eNOI-System-for-EPA-MultiSector-General-Permit.cfm>**

B. Permit Information

1. NPDES ID:

C. Facility Information

1. Facility Name:

2. Facility Phone: - - Ext.

3. Facility Mailing Address:

Street:

City: State: ZIP Code: -

County or Similar Government Subdivision:

4. Point of Contact:

First Name, Middle Initial, Last Name:

D. General Findings

1. Provide a summary of your past year's routine facility inspection documentation (see Part 3.1.2 of the permit). In addition, if you are an operator of an airport facility (Sector S) that is subject to the airport effluent limitations guidelines, and are complying with the MSGP Part 8.S.8.1 effluent limitation through the use of non-urea-containing deicers, provide a statement certifying that you do not use pavement deicers containing urea (e.g., "Urea was not used at [name of airport] for pavement deicing in the past year and will also not be used in 2015." (Note: Operators of airport facilities that are complying with Part 8.S.8.1 by meeting the numeric effluent limitation for ammonia do not need to include this statement.)

2. Provide a summary of your past year's quarterly visual assessment documentation (see Part 3.2.2 of the permit).

3. For any four-sample (minimum) average benchmark monitoring exceedance, if after reviewing the selection, design, installation, and implementation of your control measures and considering whether any modifications are necessary to meet the effluent limits in the permit, you determine that no further pollutant reductions are technologically available and economically practicable and achievable in light of best industry practice, provide your rationale for why you believe no further reductions are achievable (see Part 6.2.1.2 of the permit). Enter "NA" if not applicable.

4. Provide a summary of your past year's corrective action documentation (See Part 4.4 of the permit). (Note: If corrective action is not yet completed at the time of submission of this annual report, you must describe the status of any outstanding corrective action(s).) Also describe any incidents of noncompliance in the past year or currently ongoing, or if none, provide a statement that you are in compliance with the permit.

E. Certification Information

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 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.

First Name, Middle Initial, Last Name:

Title:

Signature: _____ Date: / /

E-mail:

**Annual Report for Stormwater Discharges
Associated with Industrial Activity Under an NPDES General Permit**

Who Must File an Annual Report

Operators must submit an Annual Report to EPA electronically, per Part 7.5, by January 30th for each year of permit coverage containing information generated from the past calendar year.

Completing the Form

To complete this form, type or print, using uppercase letters, in the appropriate areas only. Please place each character between the marks. Abbreviate if necessary to stay within the number of characters allowed for each item. Use only one space for breaks between words, but not for punctuation marks unless they are needed to clarify your response. Please submit original document with signature in ink - do not send a photocopied signature.

Section A. Approval to Use Paper Annual Report Form

You must indicate whether you have been granted a waiver from electronic reporting from the EPA Regional Office. Note that you are not authorized to use this paper form unless the EPA Regional Office has approved its use. Where you have obtained approval to use this form, indicate the waiver that you have been granted, the name of the EPA staff person who granted the waiver, and the date that approval was provided. See <http://water.epa.gov/polwaste/npdes/stormwater/Stormwater-Contacts.cfm> for a list of EPA Regional Office contacts.

Section B. Permit Information

Provide the NPDES ID (i.e., NOI tracking number) assigned to your facility.

Section C. Facility Information

Enter the official or legal name, phone number, and complete street address, including city, state, ZIP code, and county or similar government subdivision, for the facility that is covered by the NPDES ID identified in Section B. If the facility lacks a street address, indicate the general location of the facility (e.g., Intersection of State Highways 61 and 34). Also provide a point of contact name for the facility.

Section D. General Findings

To complete this section you must provide the following information in your annual report:

1. A summary of your past year's routine facility inspection documentation required by Part 3.1.2 of the permit.
2. A summary of your past year's quarterly visual assessment documentation required by Part 3.2.2 of the permit.
3. If, after finding the average of your four monitoring values for any pollutant exceeds the benchmark, you decide no further pollutant reductions are technologically available and economically practicable and achievable in light of best industry practice, your rationale for why you believe no further reductions are achievable.
4. Information copied or summarized from the corrective action documentation required per Part 4.4 (if applicable). If corrective action is not yet completed at the time of submission of this Annual Report, you must describe the status of any outstanding corrective action(s). You must also describe any incidents of noncompliance in the past year or currently ongoing, or if none, provide a statement that you are in compliance with the permit.

Section E. Certification Information

The Annual Report must be signed by a person described below, or by a duly authorized representative of that person.

For a corporation: By a responsible corporate officer. For the purpose of this Section, a responsible corporate officer means:

(i) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long-term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

For a partnership or sole proprietorship: By a general partner or the proprietor, respectively; or

For a municipality, state, federal, or other public agency: By either a principal executive officer or ranking elected official. For purposes of this Part, a principal executive officer of a federal agency includes (i) the chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrator of EPA). Include the name and title of the person signing the form and the date of signing.

A person is a duly authorized representative only if:

1. The authorization is made in writing by a person described above;
2. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.) and
3. The written authorization is submitted to the Director.

An unsigned or undated Annual Report form be considered incomplete.

Paperwork Reduction Act Notice

Public reporting burden for this form is estimated to average 2.5 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. Send comments regarding the burden estimate, any other aspect of the collection of information, or suggestions for improving this form, including any suggestions which may increase or reduce this burden to: Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number of this form on any correspondence. Do not send the completed Annual Report form to this address.

Instructions for Completing the Annual Report Form

**Annual Report for Stormwater Discharges
Associated with Industrial Activity Under an NPDES General Permit**

Submitting Your Form

If you have been granted a waiver from your Regional Office to submit a paper Annual Report form, you must send your Annual Report form by mail to one of the following addresses:

For Regular U.S. Mail Delivery:

Stormwater Notice Processing Center
Mail Code 4203M, ATTN: 2015 MSGP Reports
U.S. EPA
1200 Pennsylvania Avenue, NW
Washington, DC 20460

For Overnight/Express Mail Delivery:

Stormwater Notice Processing Center
William Jefferson Clinton East Building - Room 7420
ATTN: 2015 MSGP Reports
U.S. EPA
1201 Constitution Avenue, NW
Washington, DC 20004

Visit this website for instructions on how to submit electronically:
<http://water.epa.gov/polwaste/npdes/stormwater/Stormwater-eNOI-System-for-EPAs-MultiSector-General-Permit.cfm>