

**Subpart A – Sector A – Timber Products.**

You must comply with sector-specific requirements associated with your primary industrial activity and any co-located industrial activities, as defined in this attachment. 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.

**A.1 Covered Storm water Discharges.**

The requirements in Subpart A apply to storm water discharges associated with industrial activity from Timber Products facilities as specified below.

<b>Sector A: TIMBER PRODUCTS</b>		
Subsector (May be subject to more than one Sector/subsector)	SIC Code or Activity Code	Activity Represented
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	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

**A.2 Limitation on Coverage**

A.2.1 *Prohibition of Discharges.* Not covered by this permit: storm water discharges from areas where there may be contact with the chemical formulations sprayed to provide surface protection. These discharges must be covered by a separate NPDES permit.

A.2.2 *Authorized Non-Storm water Discharges.* Also authorized by this permit, provided the non-storm water component of the discharge is in compliance with the requirements in Part E.6 of this permit: 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.

**A.3 Additional Technology-Based Effluent Limits.**

A.3.1 *Good Housekeeping.* In areas where storage, loading and unloading, and material handling occur, perform good housekeeping to limit the discharge of wood debris, minimize the leachate generated from decaying wood materials, and minimize the generation of dust.

**A.4 Additional SWPPP Requirements.**

A.4.1 *Drainage Area Site Map.* Document in your SWPPP where any of the following may be exposed to precipitation or surface runoff: processing areas, treatment chemical storage areas, treated wood and residue storage areas, wet decking areas, dry decking areas, untreated wood and residue storage areas, and treatment equipment storage areas.

A.4.2 *Inventory of Exposed Materials.* Where such information exists, if your facility has used chlorophenolic, creosote, or chromium-copper-arsenic formulations for wood surface protection or preserving, document in your SWPPP the following: areas where contaminated soils, treatment equipment, and stored materials still remain and the management practices employed to minimize the contact of these materials with storm water runoff.

A.4.3 *Description of Storm water Management Controls.* Document measures implemented to address the following activities and sources: log, lumber, and wood product storage areas; residue storage areas; loading and unloading areas; material handling areas; chemical storage areas; and equipment and vehicle maintenance, storage, and repair areas. If your facility performs wood surface protection and preservation activities, address the specific control measures, including any BMPs, for these activities.

**A.5 Additional Inspection Requirements.**

If your facility performs wood surface protection and preservation activities, inspect processing areas, transport areas, and treated wood storage areas monthly to assess the usefulness of practices to minimize the deposit of treatment chemicals on unprotected soils and in areas that will come in contact with storm water discharges.

**A.6 Sector-Specific Benchmarks**

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

Attachment 1

Table A-1		
Subsector (You may be subject to requirements for more than one sector/subsector)	Parameter	Benchmark Monitoring Concentration
<b>Subsector A1.</b> General Sawmills and Planing Mills (SIC 2421)	Chemical Oxygen Demand (COD)	120.0 mg/L
	Total Suspended Solids (TSS)	100 mg/L
	Total Zinc (freshwater) <sup>2</sup> Total Zinc (saltwater) <sup>1</sup>	Hardness Dependent  0.09 mg/L
<b>Subsector A2.</b> Wood Preserving (SIC 2491)	Total Arsenic (freshwater) <sup>2</sup> Total Arsenic (saltwater) <sup>1</sup>	0.15 mg/L  0.069 mg/L
	Total Copper (freshwater) <sup>2</sup> Total Copper (saltwater) <sup>1</sup>	Hardness Dependent  0.0048 mg/L
<b>Subsector A3.</b> Log Storage and Handling (SIC 2411)	Total Suspended Solids (TSS)	100 mg/L
<b>Subsector A4.</b> Hardwood Dimension and Flooring Mills; Special Products Sawmills, not elsewhere classified; Millwork, Veneer, Plywood, and Structural Wood; Wood Pallets and Skids; Wood Containers, not elsewhere classified; Wood Buildings and Mobile Homes; Reconstituted Wood Products; and Wood Products Facilities not elsewhere classified (SIC 2426, 2429, 2431-2439 (except 2434), 2441, 2448, 2449, 2451, 2452, 2493, and 2499)	Chemical Oxygen Demand (COD)	120.0 mg/L
	Total Suspended Solids (TSS)	100.0 mg/L

<sup>1</sup>Saltwater benchmark values apply to storm water discharges into saline waters where indicated.

<sup>2</sup> 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 Attachment 3, "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)	Zinc (mg/L)
0-24.99 mg/L	0.0038	0.04
25-49.99 mg/L	0.0056	0.05
50-74.99 mg/L	0.0090	0.08
75-99.99 mg/L	0.0123	0.11
100-124.99 mg/L	0.0156	0.13
125-149.99 mg/L	0.0189	0.16
150-174.99 mg/L	0.0221	0.18
175-199.99 mg/L	0.0253	0.20
200-224.99 mg/L	0.0285	0.23

Attachment 1

<b>Freshwater Hardness Range</b>	<b>Copper (mg/L)</b>	<b>Zinc (mg/L)</b>
225-249.99 mg/L	0.0316	0.25
250+ mg/L	0.0332	0.26

**A.7 Effluent Limitations Based on Effluent Limitations Guidelines**

Table A-2 identifies effluent limits that apply to the industrial activities described below. Compliance with these effluent limits 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.

<b>Table A-2<sup>1</sup></b>		
<b>Industrial Activity</b>		
Discharges resulting from spray down or intentional wetting of logs at wet deck storage areas	pH	6.0 - 9.0 s.u
	Debris (woody material such as bark, twigs, branches, heartwood, or sapwood)	No discharge of debris that will not pass through a 2.54-cm (1-in.) diameter round opening

<sup>1</sup> Monitor annually.

**Subpart B – Sector B – Paper and Allied Products.**

You must comply with sector-specific requirements associated with your primary industrial activity and any co-located industrial activities, as defined in this attachment. 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.

**B.1 Covered Storm water Discharges.**

The requirements in Subpart B apply to storm water discharges associated with industrial activity from Paper and Allied Products Manufacturing facilities, as specified below.

<b>SECTOR B: PAPER AND ALLIED PRODUCTS</b>		
Subsector (May be subject to more than one Sector/subsector)	SIC Code or Activity Code	Activity Represented
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

**B.2 Sector-Specific Benchmarks.**

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

<b>Table B-1.</b>		
Subsector (You may be subject to requirements for more than one sector/subsector)	Parameter	Benchmark Monitoring Concentration
<b>Subsector B1.</b> Paperboard Mills (SIC Code 2631)	Chemical Oxygen Demand (COD)	120 mg/L

**Subpart C – Sector C – Chemical and Allied Products Manufacturing, and Refining.**

You must comply with sector-specific requirements associated with your primary industrial activity and any co-located industrial activities, as defined in this attachment. 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.

**C.1 Covered Storm water Discharges.**

The requirements in Subpart C apply to storm water discharges associated with industrial activity from Chemical and Allied Products Manufacturing, and Refining facilities, as specified below:

<b>SECTOR C: CHEMICALS AND ALLIED PRODUCTS</b>		
Subsector (May be subject to more than one Sector/subsector)	SIC CODE or ACTIVITY CODE	Activity Represented
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	Plastic Materials and Synthetic Resins, Synthetic Rubber, Cellulosic and other Man-Made Fibers Except Glass
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 paints and inks)	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 Artists Watercolors
	2911	Petroleum Refining

**C.2 Limitations on Coverage.**

C.2.1 *Prohibition of Non-Storm water Discharges.* The following are not covered by this permit: non-storm water discharges containing inks, paints, or substances (hazardous, nonhazardous, etc.) resulting from an onsite spill, including materials collected in drip pans; wash water from material handling and processing areas; and wash water from drum, tank, or container rinsing and cleaning.

**C.3 Sector-Specific Benchmarks**

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

<b>Table C-1.</b>		
<b>Subsector (You may be subject to requirements for more than one sector/subsector)</b>	<b>Parameter</b>	<b>Benchmark Monitoring Concentration</b>
<b>Subsector C1.</b> Agricultural Chemicals (SIC 2873-2879)	Nitrate plus Nitrite Nitrogen	0.68 mg/L
	Total Lead (freshwater) <sup>2</sup>	Hardness Dependent
	Total Lead (saltwater) <sup>1</sup>	0.21 mg/L
	Total Iron	1.0 mg/L
	Total Zinc (freshwater) <sup>2</sup>	Hardness Dependent
	Total Zinc (saltwater) <sup>1</sup>	0.09 mg/L
	Phosphorus	2.0 mg/L
<b>Subsector C2.</b> Industrial Inorganic Chemicals (SIC 2812-2819)	Total Aluminum	0.75 mg/ L
	Total Iron	1.0 mg/L
	Nitrate plus Nitrite Nitrogen	0.68 mg/L
<b>Subsector C3.</b> Soaps, Detergents, Cosmetics, and Perfumes (SIC 2841-2844)	Nitrate plus Nitrite Nitrogen	0.68 mg/L
	Total Zinc (freshwater) <sup>2</sup>	Hardness Dependent
	Total Zinc (saltwater) <sup>1</sup>	0.09 mg/L
<b>Subsector C4.</b> Plastics, Synthetics, and Resins (SIC 2821-2824)	Total Zinc (freshwater) <sup>2</sup>	Hardness Dependent
	Total Zinc (saltwater) <sup>1</sup>	0.09 mg/L

<sup>1</sup>Saltwater benchmark values apply to storm water discharges into saline waters where indicated.

<sup>2</sup>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 Attachment 3, "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:

<b>Freshwater Hardness Range</b>	<b>Lead (mg/L)</b>	<b>Zinc (mg/L)</b>
0-24.99 mg/L	0.014	0.04
25-49.99 mg/L	0.023	0.05
50-74.99 mg/L	0.045	0.08
75-99.99 mg/L	0.069	0.11

## Attachment 1

<b>Freshwater Hardness Range</b>	<b>Lead (mg/L)</b>	<b>Zinc (mg/L)</b>
100-124.99 mg/L	0.095	0.13
125-149.99 mg/L	0.122	0.16
150-174.99 mg/L	0.151	0.18
175-199.99 mg/L	0.182	0.20
200-224.99 mg/L	0.213	0.23
225-249.99 mg/L	0.246	0.25
250+ mg/L	0.262	0.26

### C.4 Effluent Limitations Based on Effluent Limitations Guidelines

Table C-2 identifies effluent limits that apply to the industrial activities described below. Compliance with these effluent limits 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.

<b>Table C-2<sup>1</sup></b>		
<b>Industrial Activity</b>	<b>Parameter</b>	<b>Effluent Limit</b>
Runoff from phosphate fertilizer manufacturing facilities that comes into contact with any raw materials, finished product, by-products or waste products (SIC 2874)	Total Phosphorus (as P)	105.0 mg/L, daily maximum
		35 mg/L, 30-day avg.
	Fluoride	75.0 mg/L, daily maximum
		25.0 mg/L, 30-day avg.

<sup>1</sup> Monitor annually.



**Subpart D – Sector D – Asphalt Paving and Roofing Materials and Lubricant Manufacturing.**

You must comply with Part 8 sector-specific requirements associated with your primary industrial activity and any co-located industrial activities, as defined in this attachment. 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.

**D.1 Covered Storm water Discharges.**

The requirements in Subpart D apply to storm water discharges associated with industrial activity from Asphalt Paving and Roofing Materials and Lubricant Manufacturing facilities, as specified below.

<b>SECTOR D: ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS</b>		
Subsector (May be subject to more than one sector/subsector)	SIC Code or Activity Code	Activity Represented
D1	2952, 2952	Asphalt Paving and Roofing Materials
D2g	2992, 2999	Miscellaneous Products of Petroleum and Coal

**D.2 Limitations on Coverage.**

The following storm water discharges associated with industrial activity are not authorized by this permit:

- D.2.1 Discharges from petroleum refining facilities, including those that manufacture asphalt or asphalt products, that are subject to nationally established effluent limitation guidelines found in 40 CFR Part 419 (Petroleum Refining); or
- D.2.2 Discharges from oil recycling facilities; or
- D.2.3 Discharges associated with fats and oils rendering.

**D.3 Sector-Specific Benchmarks**

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

<b>Table D-1.</b>		
<b>Subsector</b>	<b>Parameter</b>	<b>Benchmark Monitoring Concentration</b>
<b>Subsector D1.</b> Asphalt Paving and Roofing Materials (SIC 2951, 2952)	Total Suspended Solids (TSS)	100 mg/L

**D.4 Effluent Limitations Based on Effluent Limitations Guidelines**

Table D-2 identifies effluent limits that apply to the industrial activities described below. Compliance with these effluent limits 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.

<b>Table D-2<sup>1</sup></b>			
<b>Industrial Activity</b>	<b>Parameter</b>	<b>Effluent Limit</b>	
Discharges from asphalt emulsion facilities.	Total Suspended Solids (TSS)	23.0 mg/L, daily maximum	15.0 mg/L, 30-day avg.
	pH	6.0 - 9.0 s.u.	
	Oil and Grease	15.0 mg/L, daily maximum	
		10 mg/L, 30-day avg.	

<sup>1</sup>Monitor annually.

**Subpart E – Sector E – Glass, Clay, Cement, Concrete, and Gypsum Products.**

You must comply with sector-specific requirements associated with your primary industrial activity and any co-located industrial activities, as defined in this attachment. 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.

**E.1 Covered Storm water Discharges.**

The requirements in Subpart E apply to storm water discharges associated with industrial activity from Glass, Clay, Cement, Concrete, and Gypsum Products facilities, as specified below.

<b>SECTOR E: GLASS, CLAY, CEMENT, CONCRETE, AND GYPSUM PRODUCTS</b>		
<b>Subsector (May be subject to more than one sector/subsector)</b>	<b>SIC Code or Activity Code</b>	<b>Activity Represented</b>
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

**E.2 Additional Technology-Based Effluent Limits.**

- E.2.1 *Good Housekeeping Measures.* With good housekeeping, prevent or minimize the discharge of spilled cement, aggregate (including sand or gravel), kiln dust, fly ash, settled dust, or other significant material in storm water from paved portions of the site that are exposed to storm water. Sweep or vacuum at regular intervals or use other equivalent measures to minimize the presence of these materials. Indicate in your SWPPP the frequency of sweeping, vacuuming or other equivalent measures. Determine the frequency based on the amount of industrial activity occurring in the area and the frequency of precipitation, but it must be performed at least once a week if cement, aggregate, kiln dust, fly ash, or settled dust are being handled or processed. You must also prevent the exposure of fine granular solids (cement, fly ash,

## Attachment 1

kiln dust, etc.) to storm water, where practicable, by storing these materials in enclosed silos, hoppers, or buildings, or under other covering.

### E.3 Additional SWPPP Requirements.

- E.3.1 *Drainage Area Site Map.* Document in the SWPPP the locations of the following, as applicable: bag house or other dust control device; recycle/sedimentation pond, clarifier, or other device used for the treatment of process wastewater; and the areas that drain to the treatment device.
- E.3.2 *Discharge Testing.* For facilities producing ready-mix concrete, concrete block, brick, or similar products, include in the non-storm water discharge testing a description of measures that ensure that process wastewaters resulting from washing trucks, mixers, transport buckets, forms, or other equipment are discharged in accordance with NPDES requirements or are recycled.

### E.4 Sector-Specific Benchmarks.

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

<b>Table E-1.</b>		
<b>Subsector (You may be subject to requirements for more than one sector/subsector)</b>	<b>Parameter</b>	<b>Benchmark Monitoring Concentration</b>
<b>Subsector E1.</b> Clay Product Manufacturers (SIC 3251-3259, 3261-3269)	Total Aluminum	0.75 mg/L
<b>Subsector E2.</b> Concrete and Gypsum Product Manufacturers (SIC 3271-3275)	Total Suspended Solids (TSS)	100 mg/L
	Total Iron	1.0 mg/L

### E.5 Effluent Limitations Based on Effluent Limitations Guidelines

Table 8.E-2 identifies effluent limits that apply to the industrial activities described below. Compliance with these limits 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.

<b>Table E-2<sup>1</sup></b>		
<b>Industrial Activity</b>	<b>Parameter</b>	<b>Effluent Limit</b>
Discharges from material storage piles at cement manufacturing facilities	Total Suspended Solids (TSS)	50 mg/L, daily maximum
	pH	6.0 - 9.0 s.u.

<sup>1</sup>Monitor annually.

**Subpart F – Sector F – Primary Metals.**

You must comply with sector-specific requirements associated with your primary industrial activity and any co-located industrial activities, as defined in this attachment. 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.

**F.1 Covered Storm water Discharges.**

The requirements in Subpart F apply to storm water discharges associated with industrial activity from Primary Metals facilities, as specified below.

<b>SECTOR F: PRIMARY METALS</b>		
<b>Subsector (May be subject to more than one sector/subsector)</b>	<b>SIC Code or Activity Code</b>	<b>Activity Represented</b>
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

**F.2 Additional Technology-Based Effluent Limits**

F.2.1 *Good Housekeeping Measures.* As part of your good housekeeping program, include a cleaning and maintenance program for all impervious areas of the facility where particulate matter, dust, or debris may accumulate, especially areas where material loading and unloading, storage, handling, and processing occur; and, where practicable, the paving of areas where vehicle traffic or material storage occur but where vegetative or other stabilization methods are not practicable (institute a sweeping or vacuuming program in these areas too). For unstabilized areas where sweeping or vacuuming is not practicable, use storm water management devices such as sediment traps, vegetative buffer strips, filter fabric fence, sediment filtering boom, gravel outlet protection, or other equivalent measures that effectively trap or remove sediment.

**F.3 Additional SWPPP Requirements.**

F.3.1 *Drainage Area Site Map.* Identify in the SWPPP where any of the following activities may be exposed to precipitation or surface runoff: storage or disposal of wastes such as spent solvents and baths, sand, slag and dross; liquid storage tanks and drums; processing areas including pollution control equipment (e.g., baghouses); and storage areas of raw material such as coal, coke, scrap, sand, fluxes, refractories, or metal in any form. In addition, indicate where an accumulation of significant amounts of particulate matter could occur from such sources as furnace or oven emissions, losses from coal and coke handling operations, etc., and could result in a discharge of pollutants to waters of the United States.

F.3.2 *Inventory of Exposed Material.* Include in the inventory of materials handled at the site that potentially may be exposed to precipitation or runoff, areas where deposition of particulate matter from process air emissions or losses during material-handling activities are possible

**F.4 Additional Inspection Requirements.** As part of conducting your routine facility inspections at least quarterly, address all potential sources of pollutants, including (if applicable) air pollution control equipment (e.g., baghouses, electrostatic precipitators, scrubbers, and cyclones), for any signs of degradation (e.g., leaks, corrosion, or improper operation) that could limit their efficiency and lead to excessive emissions. Consider monitoring air flow at inlets and outlets (or use equivalent measures) to check for leaks (e.g., particulate deposition) or blockage in ducts. Also inspect all process and material handling equipment (e.g., conveyors, cranes, and vehicles) for leaks, drips, or the potential loss of material; and material storage areas (e.g., piles, bins, or hoppers for storing coke, coal, scrap, or slag, as well as chemicals stored in tanks and drums) for signs of material losses due to wind or storm water runoff.

**F.5 Sector-Specific Benchmarks.**

Table F-1 identifies benchmarks that apply to the specific subsectors of Sector F. 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
<b>Subsector F1.</b> Steel Works, Blast Furnaces, and Rolling and Finishing Mills (SIC 3312-3317)	Total Aluminum	0.75 mg/L
	Total Zinc (freshwater) <sup>2</sup>	Hardness Dependent
	Total Zinc (saltwater) <sup>1</sup>	0.09 mg/L
<b>Subsector F2.</b> Iron and Steel Foundries (SIC 3321-3325)	Total Aluminum	0.75 mg/L
	Total Suspended Solids (TSS)	100 mg/L
	Total Copper (freshwater) <sup>2</sup>	Hardness Dependent
	Total Copper (saltwater) <sup>1</sup>	0.0048 mg/L
	Total Iron	1.0 mg/L
<b>Subsector F3.</b> Rolling, Drawing, and Extruding of Nonferrous Metals	Total Zinc (freshwater) <sup>2</sup>	Hardness Dependent
	Total Zinc (saltwater) <sup>1</sup>	0.09 mg/L
	Total Copper (freshwater) <sup>2</sup>	Hardness Dependent
	Total Copper (saltwater) <sup>1</sup>	0.0048 mg/L

Attachment 1

Table F-1.		
Subsector (You may be subject to requirements for more than one sector/subsector)	Parameter	Benchmark Monitoring Concentration
(SIC 3351-3357)	Total Zinc (freshwater) <sup>2</sup> Total Zinc (saltwater) <sup>1</sup>	Hardness Dependent 0.09 mg/L
<b>Subsector F4.</b> Nonferrous Foundries (SIC 3363-3369)	Total Copper (freshwater) <sup>2</sup> Total Copper (saltwater) <sup>1</sup>	Hardness Dependent 0.0048 mg/L
	Total Zinc (freshwater) <sup>2</sup> Total Zinc (saltwater) <sup>1</sup>	Hardness Dependent 0.09 mg/L

<sup>1</sup>Saltwater benchmark values apply to storm water discharges into saline waters where indicated.

<sup>2</sup> 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 Attachment 3, "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)	Zinc (mg/L)
0-24.99 mg/L	0.0038	0.04
25-49.99 mg/L	0.0056	0.05
50-74.99 mg/L	0.0090	0.08
75-99.99 mg/L	0.0123	0.11
100-124.99 mg/L	0.0156	0.13
125-149.99 mg/L	0.0189	0.16
150-174.99 mg/L	0.0221	0.18
175-199.99 mg/L	0.0253	0.20
200-224.99 mg/L	0.0285	0.23
225-249.99 mg/L	0.0316	0.25
250+ mg/L	0.0332	0.26

**Subpart G – Sector G – Metal Mining.**

You must comply with sector-specific requirements associated with your primary industrial activity and any co-located industrial activities, as specified below. 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.

<b>SECTOR G: METAL MINING (ORE MINING AND DRESSING)</b>		
<b>Subsector (May Be Subject to more than one sector/subsector)</b>	<b>SIC Code or Activity Code</b>	<b>Activity Represented</b>
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 Ores

**G.1 Covered Storm water Discharges.**

The requirements in Subpart G apply to storm water discharges associated with industrial activity from Metal Mining facilities, including mines abandoned on Federal lands as specified in Attachment 2 of this permit. Coverage is required for metal mining facilities that discharge storm water contaminated by contact with, or that has come into contact with, any overburden, raw material, intermediate product, finished product, byproduct, or waste product located on the site of the operation.

G.1.1 Covered Discharges from Inactive Facilities. All storm water discharges.

G.1.2 Covered Discharges from Active and Temporarily Inactive Facilities. Only the storm water discharges from the following areas are covered:

- Waste rock and overburden piles if composed entirely of storm water and not combining with mine drainage;
- Topsoil piles;
- Offsite haul and access roads;
- Onsite haul and access roads constructed of waste rock, overburden or spent ore if composed entirely of storm water and not combining with mine drainage;
- Onsite haul and access roads not constructed of waste rock, overburden or spent ore except if mine drainage is used for dust control;



- Runoff from tailings dams or dikes when not constructed of waste rock or tailings and no process fluids are present;
- Runoff from tailings dams or dikes when constructed of waste rock or tailings and no process fluids are present, if composed entirely of storm water and not combining with mine drainage;
- Concentration building if no contact with material piles;
- Mill site if no contact with material piles;
- Office or administrative building and housing if mixed with storm water from industrial area;
- Chemical storage area;
- Docking facility if no excessive contact with waste product that would otherwise constitute mine drainage;
- Explosive storage;
- Fuel storage;
- Vehicle and equipment maintenance area and building;
- Parking areas (if necessary);
- Power plant;
- Truck wash areas if no excessive contact with waste product that would otherwise constitute mine drainage;
- Unreclaimed, disturbed areas outside of active mining area;
- Reclaimed areas released from reclamation requirements prior to December 17, 1990;
- Partially or inadequately reclaimed areas or areas not released from reclamation requirements.

G.1.3 Covered Discharges from Exploration and Construction of Metal Mining and/or Ore Dressing Facilities. All storm water discharges.

G.1.4 Covered Discharges from Facilities Undergoing Reclamation. All storm water discharges.

## **G.2 Limitations on Coverage.**

G.2.1 *Prohibition of Storm water Discharges.* Storm water discharges not authorized by this permit: discharges from active metal mining facilities that are subject to effluent limitation guidelines for the Ore Mining and Dressing Point Source Category (40 CFR Part 440).

*NOTE: Storm water runoff from these sources are subject to 40 CFR Part 440 if they are mixed with other discharges subject to Part 440. In this case, they are not eligible for coverage under this permit. Discharges from overburden/waste rock and overburden/waste rock-related areas are not subject to 40 CFR Part 440 unless they: (1) drain naturally (or are intentionally diverted) to a point source; and (2) combine with "mine drainage" that is otherwise regulated under the Part 440 regulations. For such sources, coverage under this permit would be available if the discharge composed entirely of storm water does not combine with other sources of mine drainage that are not subject to 40 CFR Part 440, and meets the other eligibility criteria contained in Part A of the permit. Permit applicants bear the initial responsibility for determining if they are eligible for coverage under this permit, or must seek coverage under another NPDES permit. Illinois EPA recommends that permit applicants contact Illinois EPA for assistance to determine the nature and scope of the "active mining area" on a mine-by-mine basis, as well as to determine the appropriate permitting mechanism for authorizing such discharges.*

G.2.2 *Prohibition of Non-Storm water Discharges.* Not authorized by this permit: adit drainage, and contaminated springs or seeps discharging from waste rock dumps that do not directly result from precipitation events.

**G.3 Definitions.**

The following definitions are not intended to supersede the definitions of active and inactive mining facilities established by 40 CFR 122.26(b)(14)(iii).

G.3.1 *Mining operation* - Consists of the active and temporarily inactive phases, and the reclamation phase, but excludes the exploration and construction phases.

G.3.2 *Exploration phase* - Entails exploration and land disturbance activities to determine the viability of a site. The exploration phase is not considered part of "mining operations."

G.3.3 *Construction phase* - Includes the building of site access roads and removal of overburden and waste rock to expose mineable minerals. The construction phase is not considered part of "mining operations."

G.3.4 *Active phase* - Activities including the extraction, removal or recovery of metal ore. For surface mines, this definition does not include any land where grading has returned the earth to a desired contour and reclamation has begun. This definition is derived from the definition of "active mining area" found at 40 CFR 440.132(a). The active phase is considered part of "mining operations."

G.3.5 *Reclamation phase* - Activities undertaken, in compliance with applicable mined land reclamation requirements, following the cessation of the "active phase", intended to return the land to an appropriate post-mining land use in order to meet applicable Federal and State reclamation requirements. The reclamation phase is considered part of "mining operations."

G.3.6 *Active metal mining facility* - A place where work or other activity related to the extraction, removal, or recovery of metal ore is being conducted. For surface mines, this definition does not include any land where grading has returned the earth to a desired contour and reclamation has begun. This definition is derived from the definition of "active mining area" found at 40 CFR 440.132(a).

G.3.7 *Inactive metal mining facility* - A site or portion of a site where metal mining and/or milling occurred in the past but is not an active facility as defined above, and where the inactive portion is not covered by an active mining permit issued by the applicable State or Federal agency. An inactive metal mining facility has an identifiable owner / operator. Sites where mining claims are being maintained prior to disturbances associated with the extraction, beneficiation, or processing of mined materials and sites where minimal activities are undertaken for the sole purpose of maintaining a mining claim are not considered either active or inactive mining facilities and do not require an NPDES industrial storm water permit.

G.3.8 *Temporarily inactive metal mining facility* - A site or portion of a site where metal mining and/or milling occurred in the past but currently are not being actively undertaken, and the facility is covered by an active mining permit issued by the applicable State or Federal agency.

G.3.9 *Final Stabilization* - A site or portion of a site is "finally stabilized" when it has implemented all applicable Federal and State reclamation requirements.

**G.4 Effluent Limits for Clearing, Grading, and Excavation Activities.**

Clearing, grading, and excavation activities being conducted as part of the exploration and construction phase of mining activities are covered under this permit. During clearing, grading, and excavation activities you must obtain a General NPDES Permit For Storm Water Discharges From Construction Site Activities.

**G.5 Additional Effluent Limits.**

G.5.1 *Employee Training.* Conduct employee training at least annually at active and temporarily inactive sites.

G.5.2 *Storm water Controls.* Apart from the control measures you implement to meet your effluent limits, where necessary to minimize pollutant discharges, implement the following control measures at your site. The potential pollutants shall determine the priority and appropriateness of the control measures selected.

G.5.2.1 *Storm water Diversions:* Divert storm water away from potential pollutant sources where practicable. The following are some options: interceptor or diversion controls (e.g., dikes, swales, curbs, or berms); pipe slope drains; subsurface drains; conveyance systems (e.g., channels or gutters, open-top box culverts, and waterbars; rolling dips and road sloping; roadway surface water deflector and culverts); or their equivalents.

G.5.2.2 *Capping:* When capping is necessary to minimize pollutant discharges in storm water, identify the source being capped and the material used to construct the cap.

G.5.2.3 *Treatment:* If treatment of storm water (e.g., chemical or physical systems, oil and water separators, artificial wetlands) is necessary to protect water quality, describe the type and location of treatment used. Passive and/or active treatment of storm water runoff is encouraged where practicable. Treated runoff may be discharged as a storm water source regulated under this permit provided the discharge is not combined with discharges subject to effluent limitation guidelines for the Ore Mining and Dressing Point Source Category (40 CFR Part 440).

G.5.3 *Discharge Testing.* Test or evaluate all outfalls covered under this permit for the presence of specific mining-related non-storm water discharges such as seeps or adit discharges, or discharges subject to effluent limitations guidelines (e.g., 40 CFR Part 440), such as mine drainage or process water. Alternatively (if applicable), you may keep a certification with your SWPPP consistent with Part G.6.6.

**G.6 Additional SWPPP Requirements.**

G.6.1 *Nature of Industrial Activities.* Briefly document in your SWPPP the mining and associated activities that can potentially affect the storm water discharges covered by this permit, including a general description of the location of the site relative to major transportation routes and communities.

G.6.2 *Site Map.* Document in your SWPPP the locations of the following (as appropriate): mining or milling site boundaries; access and haul roads; outline of the drainage areas of each storm water outfall within the facility with indications of the types of discharges from the drainage areas; location(s) of all permitted discharges covered under an individual NPDES permit, outdoor equipment storage, fueling, and maintenance areas;

materials handling areas; outdoor manufacturing, outdoor storage, and material disposal areas; outdoor chemicals and explosives storage areas; overburden, materials, soils, or waste storage areas; location of mine drainage (where water leaves mine) or other process water; tailings piles and ponds (including proposed ones); heap leach pads; off-site points of discharge for mine drainage and process water; surface waters; boundary of tributary areas that are subject to effluent limitations guidelines; and location(s) of reclaimed areas.

- G.6.3 *Potential Pollutant Sources.* For each area of the mine or mill site where storm water discharges associated with industrial activities occur, identify the types of pollutants (e.g., heavy metals, sediment) likely to be present in significant amounts. Consider these factors: the mineralogy of the ore and waste rock (e.g., acid forming); toxicity and quantity of chemicals used, produced, or discharged; the likelihood of contact with storm water; vegetation of site (if any); and history of significant leaks or spills of toxic or hazardous pollutants. Also include a summary of any existing ore or waste rock or overburden characterization data and test results for potential generation of acid rock. If any new data is acquired due to changes in ore type being mined, update your SWPPP with this information.
- G.6.4 *Documentation of Control Measures.* Document all control measures that you implement consistent with your SWPPP. If control measures are implemented or planned which were not part of your original SWPPP (e.g., substituting a less toxic chemical for a more toxic one), update your SWPPP to include descriptions of said measures.
- G.6.5 *Employee Training.* All employee training(s) must be documented in the SWPPP.
- G.6.6 *Certification of Permit Coverage for Commingled Non-Storm water Discharges:* If you are able, consistent with Part G.5.3 above, to certify that a particular discharge composed of commingled storm water and non-storm water is covered under a separate NPDES permit, and that permit subjects the non-storm water portion to effluent limitations prior to any commingling, retain such certification with your SWPPP. This certification must identify the non-storm water discharges, the applicable NPDES permit(s), the effluent limitations placed on the non-storm water discharge by the permit(s), and the points at which the limitations are applied.

**G.7 Additional Inspection Requirements.**

Except for areas of the site subject to clearing, grading, and/or excavation activities conducted as part of the exploration and construction phase, which are subject to Part G.4.2.1, inspect sites at least quarterly unless adverse weather conditions make the site inaccessible. Sites which discharge to waters designated as Tier 2 or 2.5 or waters which are impaired for sediment or nitrogen must be inspected monthly, unless subject to G.4.3. See Part G.8.4 for inspection requirements for inactive and unstaffed sites.

**G.8 Monitoring and Reporting Requirements. (See also Part 6 of the permit.)**

Note: There are no Part G.8 monitoring and reporting requirements for inactive and unstaffed sites.

- G.8.1 *Benchmark Monitoring for Active Copper Ore Mining and Dressing Facilities.* Table G-1 identifies benchmarks that apply to active copper ore mining and dressing facilities. These benchmarks apply to both your primary industrial activity and any co-located industrial activities.

Attachment 1

<b>Table G-1</b>		
<b>Subsector (You may be subject to requirements for more than one sector/subsector)</b>	<b>Parameter</b>	<b>Benchmark Monitoring Concentration</b>
<b>Subsector G1.</b> Active Copper Ore Mining and Dressing Facilities (SIC 1021)	Total Suspended Solids (TSS)	100 mg/L
	Nitrate plus Nitrite Nitrogen	0.68 mg/L
	Chemical Oxygen Demand (COD)	120 mg/L

G.8.2 *Benchmark Monitoring Requirements for Discharges From Waste Rock and Overburden Piles at Active Metal Mining Facilities.* For discharges from waste rock and overburden piles, perform benchmark monitoring once in the first year for the parameters listed in Table G-2, and twice annually in all subsequent years of coverage under this permit for any parameters for which the benchmark has been exceeded. You are also required to conduct analytic monitoring for the parameters listed in Table G-3 in accordance with the requirements in Part G.6.3. The Director may also notify you that you must perform additional monitoring to accurately characterize the quality and quantity of pollutants discharged from your waste rock and overburden piles.

<b>Table G-2.</b>		
<b>Subsector (Discharges may be subject to requirements for more than one sector/subsector)</b>	<b>Parameter</b>	<b>Benchmark Monitoring Concentration</b>
<b>Subsector G2.</b> 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 <sub>3</sub> ; calc. from Ca, Mg) <sup>2</sup>	no benchmark value
	Total Antimony	0.64 mg/L
	Total Arsenic (freshwater) <sup>2</sup>	0.15 mg/L
	Total Arsenic (saltwater) <sup>1</sup>	0.069 mg/L
	Total Beryllium	0.13 mg/L
	Total Cadmium (freshwater) <sup>2</sup>	Hardness Dependent
	Total Cadmium (saltwater) <sup>1</sup>	0.04 mg/L
	Total Copper (freshwater) <sup>2</sup>	Hardness Dependent
	Total Copper (saltwater) <sup>1</sup>	0.0048 mg/L
	Total Iron	1.0 mg/L
	Total Lead (freshwater) <sup>2</sup>	Hardness Dependent
	Total Lead (saltwater) <sup>1</sup>	0.21 mg/L
Total Mercury (freshwater) <sup>2</sup>	0.0014 mg/L	
Total Mercury (saltwater) <sup>1</sup>	0.0018 mg/L	
Total Nickel (freshwater) <sup>2</sup>	Hardness Dependent	
Total Nickel (saltwater) <sup>1</sup>	0.074 mg/L	

Attachment 1

<b>Subsector (Discharges may be subject to requirements for more than one sector/subsector)</b>	<b>Parameter</b>	<b>Benchmark Monitoring Concentration</b>
	Total Selenium (freshwater) <sup>2</sup>	0.005 mg/L
	Total Selenium (saltwater) <sup>1</sup>	0.29 mg/L
	Total Silver (freshwater) <sup>2</sup>	Hardness Dependent
	Total Silver (saltwater) <sup>1</sup>	0.0019 mg/L
	Total Zinc (freshwater) <sup>2</sup>	Hardness Dependent
	Total Zinc (saltwater) <sup>1</sup>	0.09 mg/L

<sup>1</sup>Saltwater benchmark values apply to storm water discharges into saline waters where indicated.

<sup>2</sup> 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 Attachment 3, "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:

<b>Freshwater Hardness Range</b>	<b>Cadmium (mg/L)</b>	<b>Copper (mg/L)</b>	<b>Lead (mg/L)</b>	<b>Nickel (mg/L)</b>	<b>Silver (mg/L)</b>	<b>Zinc (mg/L)</b>
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

G.8.3 Additional Analytic Monitoring Requirements for Discharges From Waste Rock and Overburden Piles at Active Metal Mining Facilities. In addition to the monitoring required in Part G.8.2 for discharges from waste rock and overburden piles, you must also conduct monitoring for additional parameters based on the type of ore you mine at your site. Where a parameter in Table G-3 is the same as a pollutant you are required to monitor for in Table G-2 (i.e., for all of the metals), you must use the corresponding benchmark in Table G-2 and you may use any monitoring results conducted for Part G.8.2 to satisfy the monitoring requirement for that parameter for Part G.6.3. For radium and uranium, which do not have corresponding benchmarks in Table G-2, there are no applicable benchmarks. The frequency and schedule for monitoring for these additional parameters is the same as that specified in Part E.9.b.

<b>Table G-3. Additional Monitoring Requirements for Discharges from Waste Rock and Overburden Piles</b>			
<b>Supplemental Requirements</b>			
<b>Type of Ore Mined</b>	<b>Pollutants of Concern</b>		
	<b>Total Suspended Solids (TSS)</b>	<b>pH</b>	<b>Metals, Total</b>
Tungsten Ore	X	X	Arsenic, Cadmium (H), Copper (H), Lead (H), Zinc (H)
Nickel Ore	X	X	Arsenic, Cadmium (H), Copper (H), Lead (H), Zinc (H)
Aluminum Ore	X	X	Iron
Mercury Ore	X	X	Nickel (H)
Iron Ore	X	X	Iron (Dissolved)
Platinum Ore			Cadmium (H), Copper (H), Mercury, Lead (H), Zinc (H)
Titanium Ore	X	X	Iron, Nickel (H), Zinc (H)
Vanadium Ore	X	X	Arsenic, Cadmium (H), Copper (H), Lead (H), Zinc (H)
Molybdenum	X	X	Arsenic, Cadmium (H), Copper (H), Lead (H), Mercury, Zinc (H)
Uranium, Radium, and Vanadium Ore	X	X	Chemical Oxygen Demand, Arsenic, Radium (Dissolved and Total), Uranium, Zinc (H)

Note: An "X" indicated for TSS and/or pH means that you are required to monitor for those parameters. (H) indicates that hardness must also be measured when this pollutant is measured.

G.8.4 Inactive and Unstaffed Sites – Conditional Exemption from No Exposure Requirements for Quarterly Visual Assessments and Routine Facility Inspections. As a Sector G facility, if you are seeking to exercise a waiver from the quarterly visual assessment and routine facility inspection requirements for inactive and unstaffed sites (including temporarily inactive sites), you are conditionally exempt from the requirement to certify that "there are no industrial materials or activities exposed to storm water". This exemption is conditioned on the following:

- If circumstances change and your facility becomes active and/or staffed, this exception no longer applies and you must immediately begin complying with the quarterly visual assessment requirements; and
- EPA retains the authority to revoke this exemption and/or the monitoring waiver where it is determined that the discharge causes, has a reasonable potential to cause, or contributes to an instream excursion above an applicable water quality standard, including designated uses.

Subject to the two conditions above, if your facility is inactive and unstaffed, you are waived from the requirement to conduct quarterly visual assessments and routine facility inspections. You are encouraged to inspect your site where you have reason to believe that severe weather or natural disasters may have damaged control measures or increased discharges.

<b>Table G-4. Applicability of the Multi-Sector General Permit to Storm water Runoff From Active Mining and Dressing Sites, Temporarily Inactive Sites, and Sites Undergoing Reclamation</b>	
<b>Discharge/Source of Discharge</b>	<b>Note/Comment</b>
<b>Piles</b>	
Waste rock/overburden	If composed entirely of storm water and not combining with mine drainage. See note below.
Topsoil	--
<b>Roads constructed of waste rock or spent ore</b>	
Onsite haul roads	If composed entirely of storm water and not combining with mine drainage. See note below.
Offsite haul and access roads	--
<b>Roads not constructed of waste rock or spent ore</b>	
Onsite haul roads	Except if mine drainage is used for dust control
Offsite haul and access roads	--
<b>Milling/concentrating</b>	
Runoff from tailings dams and dikes when constructed of waste rock/tailings	Except if process fluids are present and only if composed entirely of storm water and not combining with mine drainage. See Note below.
Runoff from tailings dams/dikes when not constructed of waste rock and tailings	Except if process fluids are present
Concentration building	If storm water only and no contact with piles
Mill site	If storm water only and no contact with piles
<b>Ancillary areas</b>	
Office and administrative building and housing	If mixed with storm water from the industrial area
Chemical storage area	--
Docking facility	Except if excessive contact with waste product that would otherwise constitute mine drainage
Explosive storage	--
Fuel storage (oil tanks/coal piles)	--
Vehicle and equipment maintenance area/building	--
Parking areas	But coverage unnecessary if only employee and visitor-type parking
<b>Power plant</b>	
Truck wash area	Except when excessive contact with waste product that would otherwise constitute mine drainage
<b>Reclamation-related areas</b>	
Any disturbed area (unreclaimed)	Only if not in active mining area
Reclaimed areas released from reclamation requirements prior to Dec. 17, 1990	--
Partially/inadequately reclaimed areas or areas not released from reclamation requirements	--



**Table G-4. Applicability of the Multi-Sector General Permit to Storm water Runoff From Active Mining and Dressing Sites, Temporarily Inactive Sites, and Sites Undergoing Reclamation**

Discharge/Source of Discharge	Note/Comment
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Note: Storm water runoff from these sources are subject to the NPDES program for storm water unless mixed with discharges subject to 40 CFR Part 440 that are regulated by another permit prior to mixing. Non-storm water discharges from these sources are subject to NPDES permitting and may be subject to the effluent limitation guidelines under 40 CFR Part 440. Discharges from overburden/waste rock and overburden/waste rock-related areas are not subject to 40 CFR Part 440 unless: (1) it drains naturally (or is intentionally diverted) to a point source; and (2) combines with "mine drainage" that is otherwise regulated under the Part 440 regulations. For such sources, coverage under this permit would be available if the discharge composed entirely of storm water does not combine with other sources of mine drainage that are not subject to 40 CFR Part 440, as well as meeting other eligibility criteria contained in Part 1.1 of the permit. Permit applicants bear the initial responsibility for determining the applicable technology-based standard for such discharges. EPA recommends that permit applicants contact the relevant NPDES permit issuance authority for assistance to determine the nature and scope of the "active mining area" on a mine-by-mine basis, as well as to determine the appropriate permitting mechanism for authorizing such discharges.

### **G.9. Termination of Permit Coverage**

**G.9.1** *Termination of Permit Coverage for Sites Reclaimed After December 17, 1990.* A site or a portion of a site that has been released from applicable state or federal reclamation requirements after December 17, 1990, is no longer required to maintain coverage under this permit. If the site or portion of a site reclaimed after December 17, 1990, was not subject to reclamation requirements, the site or portion of the site is no longer required to maintain coverage under this permit if the site or portion of the site has been reclaimed as defined in Part G.3.5.

**G.9.2** *Termination of Permit Coverage for Sites Reclaimed Before December 17, 1990.* A site or portion of a site that was released from applicable state or federal reclamation requirements before December 17, 1990, or that was otherwise reclaimed before December 17, 1990, is no longer required to maintain coverage under this permit if the site or portion of the site has been reclaimed. A site or portion of a site is considered to have been reclaimed if: (1) storm water runoff that comes into contact with raw materials, intermediate byproducts, finished products, and waste products does not have the potential to cause or contribute to violations of state water quality standards, (2) soil disturbing activities related to mining at the sites or portion of the site have been completed, (3) the site or portion of the site has been stabilized to minimize soil erosion, and (4) as appropriate depending on location, size, and the potential to contribute pollutants to storm water discharges, the site or portion of the site has been revegetated, will be amenable to natural revegetation, or will be left in a condition consistent with the post-mining land use.

**Sector-Specific Requirements for Industrial Activity**

**Subpart H – Sector H – Coal Mines and Coal Mining-Related Facilities.**

Discharges from coal mines and coal mining related facilities are regulated under individual or general NPDES permits and by 35 Ill. Adm. Code Subtitle D: Mine Related Water Pollution.

**Subpart I – Sector I – Oil and Gas Extraction.**

You must comply with sector-specific requirements associated with your primary industrial activity and any co-located industrial activities, as specified below. 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.

<b>SECTOR I: OIL AND GAS EXTRACTION AND REFINING</b>		
<b>Subsector (May be subject to more than one sector/subsector)</b>	<b>SIC Code of Activity Code</b>	<b>Activity Represented</b>
11	1311	Crude Petroleum and Natural Gas
	1321	Natural Gas Liquids
	1381-1389	Oil and Gas Field Services

**I.1 Covered Storm water Discharges.**

The requirements in Subpart I apply to storm water discharges associated with industrial activity from Oil and Gas Extraction facilities as identified by the SIC Codes specified in Attachment 2 of this permit.

I.1.1 Discharges of storm water runoff from field activities or operations associated with oil and gas exploration, production, processing, or treatment operations or transmission facilities are exempt from NPDES permit coverage unless, in accordance with 40 CFR 122.26(c)(1)(iii), the facility:

- Has had a discharge of storm water resulting in the discharge of a reportable quantity for which notification is or was required pursuant to 40 CFR 117.21 or 40 CFR 302.6 at any time since November 16, 1987; or
- Has had a discharge of storm water resulting in the discharge of a reportable quantity for which notification is or was required pursuant to 40 CFR 110.6 at any time since November 16, 1987; or
- Contributes to a violation of a water quality standard.

Any storm water discharges that require permit coverage as a result of meeting one of the conditions of 122.26(c)(1)(iii) may be covered under this permit unless otherwise required to obtain coverage under an alternative NPDES general permit or an individual NPDES permit.

**I.2 Limitations on Coverage.**

I.2.1 *Storm water Discharges Subject to Effluent Limitation Guidelines.* This permit does not authorize storm water discharges from petroleum drilling operations that are subject to

nationally established effluent limitation guidelines found at 40 CFR Part 435, respectively.

- I.2.2 *Non-Storm water Discharges.* Discharges of vehicle and equipment wash water, including tank cleaning operations, are not authorized by this permit. Alternatively, wash water discharges must be authorized under a separate NPDES permit, or be discharged to a sanitary sewer in accordance with applicable industrial pretreatment requirements.

**I.3 Additional Technology-Based Effluent Limits.**

- I.3.1 *Vegetative Controls.* Implement vegetative practices designed to preserve existing vegetation, where attainable, and revegetate open areas as soon as practicable after grade drilling. Implement appropriate vegetative practices, such as the following (or equivalent measures): temporary or permanent seeding, mulching, sod stabilization, vegetative buffer strips, and tree protection practices. Begin implementing appropriate vegetative practices on all disturbed areas within 14 days following the last activity in that area.

**I.4 Additional SWPPP Requirements.**

- I.4.1 *Drainage Area Site Map.* Document in your SWPPP where any of the following may be exposed to precipitation or surface runoff: Reportable Quantity (RQ) releases; locations used for the treatment, storage, or disposal of wastes; processing areas and storage areas; chemical mixing areas; construction and drilling areas; all areas subject to the effluent guidelines requirements for "No Discharge" in accordance with 40 CFR 435.32; and the structural controls to achieve compliance with the "No Discharge" requirements.

- I.4.2 *Potential Pollutant Sources.* Also document in your SWPPP the following sources and activities that have potential pollutants associated with them: chemical, cement, mud, or gel mixing activities; drilling or mining activities; and equipment cleaning and rehabilitation activities. In addition, include information about the reportable quantity (RQ) release that triggered the permit application requirements: the nature of the release (e.g., spill of oil from a drum storage area), amount of oil or hazardous substance released, amount of substance recovered, date of the release, cause of the release (e.g., poor handling techniques and lack of containment in the area), areas affected by the release (i.e., land and water), procedure to clean up release, actions or procedures implemented to prevent or improve response to a release, and remaining potential contamination of storm water from release (taking into account human health risks, the control of drinking water intakes, and the designated uses of the receiving water).

- I.4.3 *Erosion and Sedimentation Control.* Unless covered by EPA's Construction General Permit (CGP), the additional documentation requirements for sediment and erosion controls for well drillings and sand/shale mining areas include the following:

- I.4.3.1 *Site Description.* Also include a description in your SWPPP of the nature of the exploration activity, estimates of the total area of site and area disturbed due to exploration activity, an estimate of runoff coefficient of the site, a site drainage map, including approximate slopes, and the names of all receiving waters.
- I.4.3.2 *Vegetative Controls.* Document vegetative practices used consistent with the SWPPP.

**I.5 Additional Inspection Requirements.**

All erosion and sedimentation control measures must be inspected either: 1) every 7 days; or 2) once every 14 calendar days and within 24 hours of a storm event of 0.25 inches or greater.

**Subpart J – Sector J – Non-Metallic Mineral Mining and Dressing.**

Discharges from non-coal mines and related facilities are regulated under individual permits by 35 Ill. Adm. Code Subtitle D: Mine Related Water Pollution or ILG84.

**Subpart K – Sector K – Hazardous Waste Treatment, Storage, or Disposal Facilities.**

Facilities treating, storing or disposing of hazardous waste are required to obtain individual or general NPDES Permits pursuant to Section B.2. of this permit.

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

You must comply with sector-specific requirements associated with your primary industrial activity and any co-located industrial activities, as specified below. 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.

<b>SECTOR L: LANDFILLS, LAND APPLICATION SITES AND OPEN DUMPS</b>		
<b>Subsector (May be subject to more than one sector/subsector)</b>	<b>SIC Code or Activity Code</b>	<b>Activity Represented</b>
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

**L.1 Covered Storm water Discharges.**

The requirements in Subpart L apply to storm water discharges associated with industrial activity from Landfills and Land Application Sites as identified by the Activity Code specified in Attachment 2 of this permit.

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

This permit may authorize storm water 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.

**L.3 Limitations on Coverage.**

- L.3.1 *Prohibition of Non-Storm water Discharges.* 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. Discharges from open dumps as defined under RCRA are also not authorized under this permit.

**L.4 Definitions.**

- L.4.1 *Contaminated storm water* - storm water 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 storm water 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.
- L.4.2 *Drained free liquids* - aqueous wastes drained from waste containers (e.g., drums) prior to landfilling.



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 storm water, contaminated groundwater, 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 storm water; 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.

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.

L.4.5 *Non-contaminated storm water* - storm water that does not come into direct contact with landfill wastes, the waste handling and treatment areas, or landfill wastewater. Non-contaminated storm water includes storm water that flows off the cap, cover, intermediate cover, daily cover, and/or final cover of the landfill.

**L.5 Additional Technology-Based Effluent Limits.**

L.5.1 *Preventive Maintenance Program.* As part of your preventive maintenance program, maintain the following: all elements of leachate collection and treatment systems, to prevent commingling of leachate with storm water; 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.

L.5.2 *Erosion and Sedimentation Control.* Provide temporary stabilization (e.g., temporary seeding, mulching, and placing geotextiles on the inactive portions of stockpiles) for the following: 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.

**L.6 Additional SWPPP Requirements.**

L.6.1 *Drainage Area Site Map.* 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.

L.6.2 *Summary of Potential Pollutant Sources.* (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.

**L.7 Additional Inspection Requirements.**

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.

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.

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

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.

**L.9 Sector-Specific Benchmarks**

Table 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.

<b>Table L-1.</b>		
<b>Subsector (You may be subject to requirements for more than one sector/subsector)</b>	<b>Parameter</b>	<b>Benchmark Monitoring Concentration<sup>1</sup></b>
<b>Subsector L1.</b> All Landfill, Land Application Sites and Open Dumps (Industrial Activity Code "LF")	Total Suspended Solids (TSS)	100 mg/L
<b>Subsector L2.</b> 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

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

**L.10. Effluent Limitations Based on Effluent Limitations Guidelines**

Table L-2 identifies effluent limits that apply to the industrial activities described below. Compliance with these effluent limits 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.

Attachment 1

Table L-2 <sup>1</sup>		
Industrial Activity	Parameter	Effluent Limit
Discharges from non-hazardous waste landfills subject to effluent limitations in 40 CFR Part 445 Subpart B.	Biochemical Oxygen Demand (BOD <sub>5</sub> )	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
	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.)	

<sup>1</sup> Monitor annually. As set forth at 40 CFR Part 445 Subpart B, these numeric limitations apply to contaminated storm water discharges from MSWLFs that have not been closed in accordance with 40 CFR 258.60, and to contaminated storm water 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.

**Subpart M – Sector M – Automobile Salvage Yards.**

You must comply with sector-specific requirements associated with your primary industrial activity and any co-located industrial activities, as specified below. 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.

<b>SECTOR M: AUTOMOBILE SALVAGE YARDS</b>		
<b>Subsector (May be subject to more than one sector/subsector)</b>	<b>SIC Code or Activity Code</b>	<b>Activity Represented</b>
M1	5015	Automobile Salvage Yards

**M.1 Covered Storm water Discharges.**

The requirements in Subpart M apply to storm water discharges associated with industrial activity from Automobile Salvage Yards as identified by the SIC Code specified in Attachment 2 of this permit.

**M.2 Additional Technology-Based Effluent Limits.**

M.2.1 *Spill and Leak Prevention Procedures.* Drain vehicles intended to be dismantled of all fluids upon arrival at the site (or as soon thereafter as practicable), or employ some other equivalent means to prevent spills and leaks.

M.2.2 *Employee Training.* If applicable to your facility, address the following areas (at a minimum) in your employee training program: proper handling (collection, storage, and disposal) of oil, used mineral spirits, anti-freeze, mercury switches, and solvents.

M.2.3 *Management of Runoff.* Implement appropriate management practices, such as the following: berms or drainage ditches on the property line (to help prevent run-on from neighboring properties); berms for uncovered outdoor storage of oily parts, engine blocks, and above-ground liquid storage; installation of detention ponds; and installation of filtering devices and oil and water separators.

**M.3 Additional SWPPP Requirements.**

M.3.1 *Drainage Area Site Map.* Identify locations used for dismantling, storage, and maintenance of used motor vehicle parts. Also identify where any of the following may be exposed to precipitation or surface runoff: dismantling areas, parts (e.g., engine blocks, tires, hub caps, batteries, hoods, mufflers) storage areas, and liquid storage tanks and drums for fuel and other fluids.

M.3.2 *Potential Pollutant Sources.* Assess the potential for the following to contribute pollutants to storm water discharges: vehicle storage areas, dismantling areas, parts storage areas (e.g., engine blocks, tires, hub caps, batteries, hoods, mufflers), and fueling stations.

**M.4 Additional Inspection Requirements.** Immediately (or as soon thereafter as practicable) inspect vehicles arriving at the site for leaks. Inspect quarterly for signs of leakage all equipment containing oily parts, hydraulic fluids, any other types of fluids, or mercury

switches. Also, inspect quarterly for signs of leakage all vessels and areas where hazardous materials and general automotive fluids are stored, including, but not limited to, mercury switches, brake fluid, transmission fluid, radiator water, and antifreeze.

**M.5 Sector-Specific Benchmarks.**

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

<b>Table M-1.</b>		
<b>Subsector (You may be subject to requirements for more than one sector/subsector)</b>	<b>Parameter</b>	<b>Benchmark Monitoring Concentration</b>
<b>Subsector M1.</b> Automobile Salvage Yards (SIC 5015)	Total Suspended Solids (TSS)	100 mg/L
	Total Aluminum	0.75 mg/L
	Total Iron	1.0 mg/L
	Total Lead (freshwater) <sup>2</sup> Total Lead (saltwater) <sup>1</sup>	Hardness Dependent 0.21 mg/L

<sup>1</sup>Saltwater benchmark values apply to storm water discharges into saline waters where indicated.

<sup>2</sup> 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 Attachment 3, "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:

<b>Freshwater Hardness Range</b>	<b>Lead (mg/L)</b>
0-24.99 mg/L	0.014
25-49.99 mg/L	0.023
50-74.99 mg/L	0.045
75-99.99 mg/L	0.069
100-124.99 mg/L	0.095
125-149.99 mg/L	0.122
150-174.99 mg/L	0.151
175-199.99 mg/L	0.182
200-224.99 mg/L	0.213
225-249.99 mg/L	0.246
250+ mg/L	0.262

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

You must comply with sector-specific requirements associated with your primary industrial activity and any co-located industrial activities, as specified below. 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.

<b>SECTOR N: SCRAP RECYCLING FACILITIES</b>		
<b>Subsector (May be subject to more than one sector/subsector)</b>	<b>SIC Code or Activity Code</b>	<b>Activity Represented</b>
N1	5093	Scrap Recycling and Waste Recycling Facilities Except Source Separated Recycling
N2	5093	Source Separated Recycling Facility

**N.1 Covered Storm water Discharges.**

The requirements in Subpart N apply to storm water discharges associated with industrial activity from Scrap Recycling and Waste Recycling facilities as identified by the SIC Code specified under attachment 2 of this permit.

**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).

N.2.1 *Prohibition of Non-Storm water Discharges.* Non-storm water discharges from turnings containment areas are not covered by this permit. Discharges from containment areas in the absence of a storm event are prohibited unless covered by a separate NPDES permit.

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

N.3.1 *Scrap and Waste Recycling Facilities (Non-Source Separated, Nonliquid Recyclable Materials).* Requirements for facilities that receive, process, and do wholesale distribution of 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.

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. Following are some control measure options: (a) provide 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; (b) establish procedures to minimize the potential of any residual fluids from coming into contact with precipitation or runoff; (c) establish 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.3.2.6); (d) provide training targeted for those personnel engaged in the inspection and acceptance of inbound recyclable materials; and (e) establish 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).

- N.3.1.2 *Scrap and Waste Material Stockpiles and Storage (Outdoor)*. Minimize contact of storm water runoff with stockpiled materials, processed materials, and nonrecyclable wastes. Following are some control measure options: (a) permanent or semi-permanent covers; (b) sediment traps, vegetated swales and strips, catch basin filters, and sand filters to facilitate settling or filtering of pollutants; (c) dikes, berms, containment trenches, culverts, and surface grading to divert runoff from storage areas; (d) silt fencing; and (e) oil and water separators, sumps, and dry absorbents for areas where potential sources of residual fluids are stockpiled (e.g., automobile engine storage areas).
- N.3.1.3 *Stockpiling of Turnings Exposed to Cutting Fluids (Outdoor Storage)*. Minimize contact of surface runoff with residual cutting fluids by: (a) storing all turnings exposed to cutting fluids under some form of permanent or semi-permanent cover, or (b) 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 storm water run-on. Storm water 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.
- 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. Following are some control measure options: (a) good housekeeping measures, including the use of dry absorbents or wet vacuuming to contain, dispose of, or recycle residual liquids originating from recyclable containers, or mercury spill kits for spills from storage of mercury switches; (b) not allowing wash water from tipping floors or other processing areas to discharge to the storm sewer system; and (c) disconnecting or sealing off all floor drains connected to the storm sewer system.
- 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, etc.). Following are some control measure options: (a) regularly inspect equipment for spills or leaks and malfunctioning, worn, or corroded parts or equipment; (b) establish a preventive maintenance program for processing equipment; (c) use 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; (d) on unattended hydraulic reservoirs over 150 gallons in capacity, install protection devices such as low-level alarms or equivalent devices, or secondary containment that can hold the entire volume of the reservoir; (e) containment or diversion structures such as dikes, berms, culverts, trenches, elevated concrete pads, and grading to minimize contact of storm water runoff with outdoor processing equipment or stored materials; (f) oil and water separators or sumps; (g) permanent or semi-permanent covers in processing areas where there are residual fluids and grease; (h) retention or detention ponds or basins; sediment traps, and vegetated swales or strips (for pollutant settling and filtration); (i) catch basin filters or sand filters.

- N.3.1.6 *Scrap Lead-Acid Battery Program.* Properly handle, store, and dispose of scrap lead-acid batteries. Following are some control measure options (a) segregate scrap lead-acid batteries from other scrap materials; (b) properly handle, store, and dispose of cracked or broken batteries; (c) collect and dispose of leaking lead-acid battery fluid; (d) minimize or eliminate (if possible) exposure of scrap lead-acid batteries to precipitation or runoff; and (e) provide employee training for the management of scrap batteries.
- 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.
- 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.
- N.3.2 *Waste Recycling Facilities (Liquid Recyclable Materials).*
- 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. Following are some control measure options (a) procedures for material handling (including labeling and marking); (b) clean up spills and leaks with dry absorbent materials, a wet vacuum system; (c) appropriate containment structures (trenching, curbing, gutters, etc.); and (d) 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.



- 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 precipitation from containment areas containing used oil must also be in accordance with applicable sections of 40 CFR Part 112. Following are some control measure options (a) appropriate containment structures (e.g., dikes, berms, curbing, pits) to store the volume of the largest tank, with sufficient extra capacity for precipitation; (b) drainage control and other diversionary structures; (c) corrosion protection and/or leak detection systems for storage tanks; and (d) dry-absorbent materials or a wet vacuum system to collect spills.
- N.3.2.3 *Trucks and Rail Car Waste Transfer Areas*. Minimize pollutants in 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. Following are two control measure options: (a) containment and diversionary structures to minimize contact with precipitation or runoff, and (b) dry clean-up methods, wet vacuuming, roof coverings, or runoff controls.
- N.3.3 *Recycling Facilities (Source-Separated Materials)*. The following identifies considerations for facilities that receive only source-separated recyclables, primarily from non-industrial and residential sources.
- 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. Following are some control measure options: (a) providing information and education measures to inform suppliers of recyclables about acceptable and non-acceptable materials, (b) training drivers responsible for pickup of recycled material, (c) clearly marking public drop-off containers regarding which materials can be accepted, (d) rejecting nonrecyclable wastes or household hazardous wastes at the source, and (e) establishing procedures for handling and disposal of nonrecyclable material.
- N.3.3.2 *Outdoor Storage*. Minimize exposure of recyclables to precipitation and runoff. Use good housekeeping measures to prevent accumulation of particulate matter and fluids, particularly in high traffic areas. Following are some control measure options (a) provide totally enclosed drop-off containers for the public; (b) install a sump and pump with each container pit and treat or discharge collected fluids to a sanitary sewer system; (c) provide dikes and curbs for secondary containment (e.g., around bales of recyclable waste paper); (d) divert surface water runoff away from outside material storage areas; (e) provide covers over containment bins, dumpsters, and roll-off boxes; and (f) store the equivalent of one day's volume of recyclable material indoors.
- N.3.3.3 *Indoor Storage and Material Processing*. Minimize the release of pollutants from indoor storage and processing areas. Following are some control measure options (a) schedule routine good housekeeping measures for all storage and processing areas, (b) prohibit tipping floor wash water from draining to the storm sewer system, and (c) provide employee training on pollution prevention practices.

N.3.3.4 *Vehicle and Equipment Maintenance.* Following are some control measure options for areas where vehicle and equipment maintenance occur outdoors (a) prohibit vehicle and equipment wash water from discharging to the storm sewer system, (b) minimize or eliminate outdoor maintenance areas whenever possible, (c) establish spill prevention and clean-up procedures in fueling areas, (d) avoid topping off fuel tanks, (e) divert runoff from fueling areas, (f) store lubricants and hydraulic fluids indoors, and (g) provide employee training on proper handling and storage of hydraulic fluids and lubricants.

**N.4 Additional SWPPP Requirements.**

N.4.1 *Drainage Area Site Map.* 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.

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 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.

**N.5 Additional Inspection Requirements.**

N.5.1 *Inspections for Waste Recycling Facilities.* The inspections must be performed quarterly, pursuant to Section E.8 of this permit, 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 storm water runoff.

**N.6 Sector-Specific Benchmarks.**

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

Table N-1.		
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
	Total Recoverable Aluminum	0.75 mg/L
	Total Copper (freshwater) <sup>2</sup> Total Copper (saltwater) <sup>1</sup>	Hardness Dependent 0.0048 mg/L
	Total Recoverable Iron	1.0 mg/L
	Total Lead (freshwater) <sup>2</sup> Total Lead (saltwater) <sup>1</sup>	Hardness Dependent 0.21 mg/L
	Total Zinc (freshwater) <sup>2</sup> Total Zinc (saltwater) <sup>1</sup>	Hardness Dependent 0.09 mg/L

Attachment 1

<b>Table N-1.</b>		
<b>Subsector (You may be subject to requirements for more than one sector/subsector)</b>	<b>Parameter</b>	<b>Benchmark Monitoring Concentration</b>

<sup>1</sup>Saltwater benchmark values apply to storm water discharges into saline waters where indicated.

<sup>2</sup> 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 Attachment 3, "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:

<b>Freshwater Hardness Range</b>	<b>Copper (mg/L)</b>	<b>Lead (mg/L)</b>	<b>Zinc (mg/L)</b>
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

## Attachment 1

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### **Subpart O – Sector O – Steam Electric Generating Facilities.**

Steam electric power generating facilities are required to obtain individual or general NPDES Permits pursuant to Section B.3. of this permit.

**Subpart P – Sector P – Land Transportation and Warehousing.**

You must comply with sector-specific requirements associated with your primary industrial activity and any co-located industrial activities, as specified below. 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.

<b>SECTOR P: LAND TRANSPORTATION AND WAREHOUSING</b>		
<b>Subsector (May be subject to more than one sector/subsector)</b>	<b>SIC Code or Activity Code</b>	<b>Activity Represented</b>
P1	4011,4013	Railroad Transportation
	4111-4173	Local and Highway Transportation
	4212-4231 (except 4221-4225)	Motor Freight Transportation and Warehousing
	4311	United States Postal Service
	5171	Air Transportation Facilities

**P.1 Covered Storm water Discharges.**

The requirements in Subpart P apply to storm water discharges associated with industrial activity from Land Transportation and Warehousing facilities as identified by the SIC Codes specified under attachment 2 of this permit.

**P.2 Limitation on Coverage**

P.2.1 *Prohibited Discharges* 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.

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

P.3.1 *Good Housekeeping Measures.* In addition to the Good Housekeeping requirements in Section E.6.c, you must do the following. Recommended control measures are discussed as indicated:

P.3.1.1 *Vehicle and Equipment Storage Areas.* Minimize the potential for storm water exposure to leaky or leak-prone vehicles/equipment awaiting maintenance. Implement appropriate control measures, such as the following (or other equivalent measures): use of drip pans under vehicles/equipment, indoor storage of vehicles and equipment, installation of berms or dikes, use of absorbents, roofing or covering storage areas, and cleaning pavement surfaces to remove oil and grease.

## Attachment 1

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- P.3.1.2 *Fueling Areas.* Minimize contamination of storm water runoff from fueling areas. Implement appropriate control measures, such as the following (or other equivalent measures): Covering the fueling area; using spill/overflow protection and cleanup equipment; minimizing storm water run-on/runoff to the fueling area; using dry cleanup methods; and treating and/or recycling collected storm water runoff.
- 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 storm water and plainly label them (e.g., "Used Oil," "Spent Solvents," etc.). Consider the following (or other equivalent measures): storing the materials indoors; installing berms/dikes around the areas; minimizing runoff of storm water to the areas; using dry cleanup methods; and treating and/or recycling collected storm water runoff.
- P.3.1.4 *Vehicle and Equipment Cleaning Areas.* Minimize contamination of storm water runoff from all areas used for vehicle/equipment cleaning. Implement appropriate control measures, such as the following (or other equivalent measures): performing all cleaning operations indoors; covering the cleaning operation, ensuring that all wash water drains to a proper collection system (i.e., not the storm water drainage system); treating and/or recycling collected wash water, or other equivalent measures.
- P.3.1.5 *Vehicle and Equipment Maintenance Areas.* Minimize contamination of storm water runoff from all areas used for vehicle/equipment maintenance. Implement appropriate control measures, such as the following (or other equivalent measures): 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 storm water drainage systems; using dry cleanup methods; treating and/or recycling collected storm water runoff, minimizing run on/runoff of storm water to maintenance areas.
- P.3.1.6 *Locomotive Sanding (Loading Sand for Traction) Areas.* Implement appropriate control measures, such as the following (or other equivalent measures): covering sanding areas; minimizing storm water run on/runoff; or appropriate sediment removal practices to minimize the offsite transport of sanding material by storm water.
- P.3.2 *Employee Training.* 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.

### **P.4 Additional SWPPP Requirements.**

- P.4.1 *Drainage Area Site Map.* 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.

## Attachment 1

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- P.4.2 *Potential Pollutant Sources.* Assess the potential for the following activities and facility areas to contribute pollutants to storm water discharges: Onsite waste storage or disposal; dirt/gravel parking areas for vehicles awaiting maintenance; illicit plumbing connections between shop floor drains and the storm water conveyance system(s); and fueling areas. Describe these activities in the SWPPP.
- P.4.3 *Description of Good Housekeeping Measures.* You must document in your SWPPP the good housekeeping measures you implement consistent with Part P.3.
- P.4.4 *Vehicle and Equipment Wash water Requirements.* If applicable, attach to or reference in your SWPPP, a copy of the NPDES permit issued for vehicle/equipment wash water or, if an NPDES permit has not been issued, a copy of the pending application. If an industrial user permit is issued under a local pretreatment program, attach a copy to your SWPPP. In any case, implement all non-storm water discharge permit conditions or pretreatment conditions in your SWPPP. If wash water is handled in another manner (e.g., hauled offsite), describe the disposal method and attach all pertinent documentation/information (e.g., frequency, volume, destination, etc.) in the plan.
- P.5 Additional Inspection Requirements.** 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.

**Subpart Q – Sector Q – Water Transportation.**

You must comply with sector-specific requirements associated with your primary industrial activity and any co-located industrial activities, as specified below. 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.

<b>SECTOR Q: WATER TRANSPORTATION</b>		
<b>Subsector (May be subject to more than one sector/subsector)</b>	<b>SIC Code or Activity Code</b>	<b>Activity Represented</b>
Q1	4412-4499	Water Transportation Facilities

**Q.1 Covered Storm water Discharges.**

The requirements in Subpart Q apply to storm water discharges associated with industrial activity from Water Transportation facilities as identified by the SIC Codes specified under Attachment 2 of this permit.

**Q.2 Limitations on Coverage.**

Q.2.1 *Prohibition of Non-Storm water Discharges.* Not covered by this permit: bilge and ballast water, sanitary wastes, pressure wash water, and cooling water originating from vessels.

**Q.3 Additional Technology-Based Effluent Limits.**

Q.3.1 *Good Housekeeping Measures.* You must implement the following good housekeeping measures in addition to the requirements of Section E.6.c:

Q.3.1.1 *Pressure Washing Area.* If pressure washing is used to remove marine growth from vessels, the discharge water must be permitted by a separate NPDES permit. Collect or contain the discharges from the pressures washing area so that they are not co-mingled with storm water discharges authorized by this permit.

Q.3.1.2 *Blasting and Painting Area.* Minimize the potential for spent abrasives, paint chips, and overspray to discharge into receiving waters or the storm sewer systems. Contain all blasting and painting activities or use other measures to minimize the discharge of contaminants (e.g., hanging plastic barriers or tarpaulins during blasting or painting operations to contain debris). At least once per month, you must clean storm water conveyances of deposits of abrasive blasting debris and paint chips.

Q.3.1.3 *Material Storage Areas.* Store and plainly label all containerized materials (e.g., fuels, paints, solvents, waste oil, antifreeze, batteries) in a protected, secure location away from drains. Minimize the contamination of precipitation or surface runoff from the storage areas. Specify which materials are stored indoors, and containment or enclosure or use other measures for those stored outdoors. If abrasive blasting is performed, discuss the storage and disposal of spent abrasive materials generated at the facility. Implement an inventory control plan to limit the presence of potentially hazardous materials onsite.



- Q.3.1.4 *Engine Maintenance and Repair Areas.* Minimize the contamination of precipitation or surface runoff from all areas used for engine maintenance and repair. Implement appropriate control measures, such as the following (or their equivalents): performing all maintenance activities indoors, maintaining an organized inventory of materials used in the shop, draining all parts of fluid prior to disposal, prohibiting the practice of hosing down the shop floor, using dry cleanup methods, and treating and/or recycling storm water runoff collected from the maintenance area.
- Q.3.1.5 *Material Handling Area.* Minimize the contamination of precipitation or surface runoff from material handling operations and areas (e.g., fueling, paint and solvent mixing, disposal of process wastewater streams from vessels). Implement appropriate control measures, such as the following (or their equivalents): covering fueling areas, using spill and overflow protection, mixing paints and solvents in a designated area (preferably indoors or under a shed), and minimizing runoff of storm water to material handling areas.
- Q.3.1.6 *Dry-dock Activities.* Routinely maintain and clean the dry-dock to minimize pollutants in storm water runoff. Address the cleaning of accessible areas of the dry-dock prior to flooding, and final cleanup following removal of the vessel and raising the dock. Include procedures for cleaning up oil, grease, and fuel spills occurring on the dry-dock. Implement appropriate control measures, such as the following (or their equivalents): sweeping rather than hosing off debris and spent blasting material from accessible areas of the dry-dock prior to flooding and making absorbent materials and oil containment booms readily available to clean up or contain any spills.
- Q.3.2 *Employee Training.* As part of your employee training program, address, at a minimum, the following activities (as applicable): used oil management, spent solvent management, disposal of spent abrasives, disposal of vessel wastewaters, spill prevention and control, fueling procedures, general good housekeeping practices, painting and blasting procedures, and used battery management.
- Q.3.3 *Preventive Maintenance.* As part of your preventive maintenance program, perform timely inspection and maintenance of storm water management devices (e.g., cleaning oil and water separators and sediment traps to ensure that spent abrasives, paint chips, and solids will be intercepted and retained prior to entering the storm drainage system), as well as inspecting and testing facility equipment and systems to uncover conditions that could cause breakdowns or failures resulting in discharges of pollutants to surface waters.
- Q.4 Additional SWPPP Requirements.**
- Q.4.1 *Drainage Area Site Map.* Document in your SWPPP where any of the following may be exposed to precipitation or surface runoff: fueling; engine maintenance and repair; vessel maintenance and repair; pressure washing; painting; sanding; blasting; welding; metal fabrication; loading and unloading areas; locations used for the treatment, storage, or disposal of wastes; liquid storage tanks; liquid storage areas (e.g., paint, solvents, resins); and material storage areas (e.g., blasting media, aluminum, steel, scrap iron).
- Q.4.2 *Summary of Potential Pollutant Sources.* Document in the SWPPP the following additional sources and activities that have potential pollutants associated with them: outdoor manufacturing or processing activities (e.g., welding, metal fabricating) and

## Attachment 1

significant dust or particulate generating processes (e.g., abrasive blasting, sanding, and painting.)

### Q.5 Additional Inspection Requirements.

Include the following in all quarterly routine facility inspections: pressure washing area; blasting, sanding, and painting areas; material storage areas; engine maintenance and repair areas; material handling areas; dry-dock area; and general yard area.

### Q.6 Sector-Specific Benchmarks.

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

<b>Table Q-1.</b>		
<b>Subsector (You may be subject to requirements for more than one sector/subsector)</b>	<b>Parameter</b>	<b>Benchmark Monitoring Concentration</b>
<b>Subsector Q1.</b> Water Transportation Facilities (SIC 4412-4499)	Total Aluminum	0.75 mg/L
	Total Iron	1.0 mg/L
	Total Lead (freshwater) <sup>2</sup>	Hardness Dependent
	Total Lead (saltwater) <sup>1</sup>	0.21 mg/L
	Total Zinc (freshwater) <sup>2</sup>	Hardness Dependent
	Total Zinc (saltwater) <sup>1</sup>	0.09 mg/L

<sup>1</sup>Saltwater benchmark values apply to storm water discharges into saline waters where indicated.

<sup>2</sup> 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 Attachment 3, "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:

<b>Freshwater Hardness Range</b>	<b>Lead (mg/L)</b>	<b>Zinc (mg/L)</b>
0-24.99 mg/L	0.014	0.04
25-49.99 mg/L	0.023	0.05
50-74.99 mg/L	0.045	0.08
75-99.99 mg/L	0.069	0.11
100-124.99 mg/L	0.095	0.13
125-149.99 mg/L	0.122	0.16
150-174.99 mg/L	0.151	0.18
175-199.99 mg/L	0.182	0.20
200-224.99 mg/L	0.213	0.23
225-249.99 mg/L	0.246	0.25
250+ mg/L	0.262	0.26

**Subpart R – Sector R – Ship and Boat Building and Repair Yards.**

You must comply with Part 8 sector-specific requirements associated with your primary industrial activity and any co-located industrial activities, as specified below. 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.

<b>SECTOR R: SHIP AND BOAT BUILDING AND REPAIRING YARDS</b>		
<b>SECTOR (May be subject to more than one sector/subsector)</b>	<b>SIC Code or Activity Code</b>	<b>Activity Represented</b>
R1	3731,3732	Ship and Boat Building or Repairing Yards

**R.1 Covered Storm water Discharges.**

The requirements in Subpart R apply to storm water discharges associated with industrial activity from Ship and Boat Building and Repair Yards as identified by the SIC Codes specified under Attachment 2 of this permit.

**R.2 Limitations on Coverage.**

R.2.1 *Prohibition of Non-Storm water Discharges.* Discharges containing bilge and ballast water, sanitary wastes, pressure wash water, and cooling water originating from vessels are not covered by this permit.

**R.3 Additional Technology-Based Effluent Limits.**

R.3.1 *Good Housekeeping Measures.*

R.3.1.1 *Pressure Washing Area.* If pressure washing is used to remove marine growth from vessels, the discharged water must be permitted as a process wastewater by a separate NPDES permit.

R.3.1.2 *Blasting and Painting Area.* Minimize the potential for spent abrasives, paint chips, and overspray to discharging into the receiving water or the storm sewer systems. Contain all blasting and painting activities, or use other measures to prevent the discharge of the contaminants (e.g., hanging plastic barriers or tarpaulins during blasting or painting operations to contain debris). When necessary, regularly clean storm water conveyances of deposits of abrasive blasting debris and paint chips.

R.3.1.3 *Material Storage Areas.* Store and plainly label all containerized materials (e.g., fuels, paints, solvents, waste oil, antifreeze, batteries) in a protected, secure location away from drains. Minimize the contamination of precipitation or surface runoff from the storage areas. If abrasive blasting is performed, discuss the storage and disposal of spent abrasive materials generated at the facility. Implement an inventory control plan to limit the presence of potentially hazardous materials onsite.

R.3.1.4 *Engine Maintenance and Repair Areas.* Minimize the contamination of precipitation or surface runoff from all areas used for engine maintenance

and repair. Implement appropriate control measures, such as the following (or their equivalents): performing all maintenance activities indoors, maintaining an organized inventory of materials used in the shop, draining all parts of fluid prior to disposal, prohibiting the practice of hosing down the shop floor, using dry cleanup methods, and treating and/or recycling storm water runoff collected from the maintenance area.

- R.3.1.5 *Material Handling Area.* Minimize the contamination of precipitation or surface runoff from material handling operations and areas (e.g., fueling, paint and solvent mixing, disposal of process wastewater streams from vessels). Implement appropriate control measures, such as the following (or their equivalents): covering fueling areas, using spill and overflow protection, mixing paints and solvents in a designated area (preferably indoors or under a shed), and minimizing storm water run-on to material handling areas.
- R.3.1.6 *Dry-dock Activities.* Routinely maintain and clean the dry-dock to minimize pollutants in storm water runoff. Clean accessible areas of the dry-dock prior to flooding and final cleanup following removal of the vessel and raising the dock. Include procedures for cleaning up oil, grease, or fuel spills occurring on the dry-dock. Implement appropriate control measures, such as the following (or their equivalents): sweeping rather than hosing off debris and spent blasting material from accessible areas of the dry-dock prior to flooding, and having absorbent materials and oil containment booms readily available to clean up and contain any spills.
- R.3.2 *Employee Training.* As part of your employee training program, address, at a minimum, the following activities (as applicable): used oil management, spent solvent management, disposal of spent abrasives, disposal of vessel wastewaters, spill prevention and control, fueling procedures, general good housekeeping practices, painting and blasting procedures, and used battery management.
- R.3.4 *Preventive Maintenance.* As part of your preventive maintenance program, perform timely inspection and maintenance of storm water management devices (e.g., cleaning oil and water separators and sediment traps to ensure that spent abrasives, paint chips, and solids will be intercepted and retained prior to entering the storm drainage system), as well as inspecting and testing facility equipment and systems to uncover conditions that could cause breakdowns or failures resulting in discharges of pollutants to surface waters.

**R.4 Additional SWPPP Requirements.**

- R.4.1 *Drainage Area Site Map.* Document in your SWPPP where any of the following may be exposed to precipitation or surface runoff: fueling; engine maintenance or repair; vessel maintenance or repair; pressure washing; painting; sanding; blasting; welding; metal fabrication; loading and unloading areas; treatment, storage, and waste disposal areas; liquid storage tanks; liquid storage areas (e.g., paint, solvents, resins); and material storage areas (e.g., blasting media, aluminum, steel, scrap iron).
- R.4.2 *Potential Pollutant Sources.* Document in your SWPPP the following additional sources and activities that have potential pollutants associated with them (if applicable): outdoor manufacturing or processing activities (e.g., welding, metal fabricating) and significant dust or particulate generating processes (e.g., abrasive blasting, sanding, and painting).

## Attachment 1

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R.4.3 *Documentation of Good Housekeeping Measures.* Document in your SWPPP any good housekeeping measures implemented to meet the effluent limits in Part R.3.

R.4.3.1 *Blasting and Painting Areas.* Document in the SWPPP any standard operating practices relating to blasting and painting (e.g., prohibiting uncontained blasting and painting over open water or prohibiting blasting and painting during windy conditions, which can render containment ineffective).

R.4.3.2 *Storage Areas.* Specify in your SWPPP which materials are stored indoors, and contain or enclose or use other measures for those stored outdoors.

### **R.5 Additional Inspection Requirements.**

(See also Part 3.1) Include the following in all quarterly routine facility inspections: pressure washing area; blasting, sanding, and painting areas; material storage areas; engine maintenance and repair areas; material handling areas; dry-dock area; and general yard area.

**Subpart S – Sector S – Air Transportation.**

You must comply with sector-specific requirements associated with your primary industrial activity and any co-located industrial activities, as specified below. 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.

<b>SECTOR S: AIR TRANSPORTATION FACILITIES</b>		
<b>Subsector (May be subject to more than one sector/subsector)</b>	<b>SIC Code or Activity Code</b>	<b>Activity Represented</b>
S1	5412-4581	Air Transportation Facilities

**S.1 Covered Storm water Discharges.**

The requirements in Subpart S apply to storm water discharges associated with industrial activity from Air Transportation facilities identified by the SIC Codes specified under Attachment 2 of this permit.

**S.2 Limitation on Coverage**

S.2.1 *Limitations on Coverage.* This permit authorizes storm water discharges from only those portions of the air transportation facility that are involved in vehicle maintenance (including vehicle rehabilitation, mechanical repairs, painting, fueling and lubrication), equipment cleaning operations or deicing operations.

*Note: "deicing" will generally be used to imply both deicing (removing frost, snow or ice) and anti-icing (preventing accumulation of frost, snow or ice) activities, unless specific mention is made regarding anti-icing and/or deicing activities.*

S.2.2 *Prohibition of Non-Storm water Discharges.* This permit does not authorize the discharge of aircraft, ground vehicle, runway and equipment wash waters; nor the dry weather discharge of deicing chemicals. Such discharges must be covered by separate NPDES permit(s). Note that a discharge resulting from snowmelt is not a dry weather discharge.

**S.3 Additional Technology-Based Effluent Limits.**

S.3.1 *Good Housekeeping Measures.*

S.3.1.1 *Aircraft, Ground Vehicle and Equipment Maintenance Areas.* Minimize the contamination of storm water runoff from all areas used for aircraft, ground vehicle and equipment maintenance (including the maintenance conducted on the terminal apron and in dedicated hangars). Implement appropriate control measures, such as the following practices (or their equivalents): performing maintenance activities indoors; maintaining an organized inventory of material used in the maintenance areas; draining all parts of fluids prior to disposal; prohibiting the practice of hosing down the apron or hanger floor; using dry cleanup methods; and collecting the storm

## Attachment 1

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- water runoff from the maintenance area and providing treatment or recycling.
- S.3.1.2 Aircraft, Ground Vehicle and Equipment Cleaning Areas. (See also Part S.3.6) Clearly demarcate these areas on the ground using signage or other appropriate means. Minimize the contamination of storm water runoff from cleaning areas.
- S.3.1.3 Aircraft, Ground Vehicle and Equipment Storage Areas. Store all aircraft, ground vehicles and equipment awaiting maintenance in designated areas only and minimize the contamination of storm water runoff from these storage areas. Implement appropriate control measures, such as the following, including any BMPs (or their equivalents): storing aircraft and ground vehicles indoors; using drip pans for the collection of fluid leaks; and perimeter drains, dikes or berms surrounding the storage areas.
- S.3.1.4 Material Storage Areas. Maintain the vessels of stored materials (e.g., used oils, hydraulic fluids, spent solvents, and waste aircraft fuel) in good condition, to prevent or minimize contamination of storm water. Also plainly label the vessels (e.g., "used oil," "Contaminated Jet A," etc.). Minimize contamination of precipitation/runoff from these areas. Implement appropriate control measures, such as the following (or their equivalents): storing materials indoors; storing waste materials in a centralized location; and installing berms/dikes around storage areas.
- S.3.1.5 Airport Fuel System and Fueling Areas. Minimize the discharge of fuel to the storm sewer/surface waters resulting from fuel servicing activities or other operations conducted in support of the airport fuel system. Implement appropriate control measures, such as the following control measures (or their equivalents): implementing spill and overflow practices (e.g., placing absorptive materials beneath aircraft during fueling operations); using only dry cleanup methods; and collecting storm water runoff.
- S.3.1.6 Source Reduction. Minimize, and where practicable eliminate, the use of urea and glycol-based deicing chemicals, in order to reduce the aggregate amount of deicing chemicals used and/or lessen the environmental impact. Chemical options to replace ethylene glycol, propylene glycol and urea include: potassium acetate; magnesium acetate; calcium acetate; and anhydrous sodium acetate.
- S.3.1.6.1 Runway Deicing Operation: Minimize contamination of storm water runoff from runways as a result of deicing operations. Evaluate whether over-application of deicing chemicals occurs by analyzing application rates, and adjust as necessary, consistent with considerations of flight safety. Implement appropriate control measures, such as the following options (or their equivalents): metered application of chemicals; pre-wetting dry chemical constituents prior to application; installing a runway ice detection system; implementing anti-icing operations as a preventive measure against ice buildup.
- S.3.1.6.2 Aircraft Deicing Operations. Minimize contamination of storm water runoff from aircraft deicing operations. Determine whether excessive application of deicing chemicals occurs and adjust as

necessary, consistent with considerations of flight safety. This evaluation should be carried out by the personnel most familiar with the particular aircraft and flight operations in question (versus an outside entity such as the airport authority). Use benign alternative deicing/anti-icing techniques and agents as well as containment measures for all applied chemicals where practicable. Implement appropriate control measures, such as the following options (or their equivalents) for reducing deicing fluid use: forced-air deicing systems, computer-controlled fixed-gantry systems, infrared technology, hot water, varying glycol content to air temperature, enclosed-basket deicing trucks, mechanical methods, solar radiation, hangar storage, aircraft covers, and thermal blankets for MD-80s and DC-9s. Use ice-detection systems and airport traffic flow strategies and departure slot allocation systems where practicable.

S.3.1.7 Management of Runoff. Where deicing operations occur, implement a program to control or manage contaminated runoff to minimize the amount of pollutants being discharged from the site. Where practicable, install a centralized deicing pad to recover deicing fluid following application, or where impracticable, use vacuum/collection trucks (glycol recovery vehicles). Also, consider these control measure options (or their equivalents): a dedicated deicing facility with a runoff collection/ recovery system; using vacuum/collection trucks; storing contaminated storm water/deicing fluids in tanks and releasing controlled amounts to a publicly owned treatment works; collecting contaminated runoff in a wet pond for biochemical decomposition (be aware of attracting wildlife that may prove hazardous to flight operations); and directing runoff into vegetative swales or other infiltration measures. Recover deicing materials when these materials are applied during non-precipitation events (e.g., covering storm sewer inlets, using booms, installing absorptive interceptors in the drains, etc.) to prevent these materials from later becoming a source of storm water contamination. Used deicing fluid should be recycled whenever possible.

S.3.2 *Deicing Season.* You must determine the seasonal timeframe (e.g., December-February, October - March) during which deicing activities typically occur at the facility. Implementation of control measures, including any BMPs, facility inspections and monitoring must be conducted with particular emphasis throughout the defined deicing season. If you meet the deicing chemical usage thresholds of 100,000 gallons glycol and/or 100 tons of urea, the deicing season you identified is the timeframe during which you must obtain the four required benchmark monitoring event results for deicing-related parameters, i.e., BOD, COD, ammonia and pH. See also Part S.6.

#### **S.4 Additional SWPPP Requirements.**

An airport authority and tenants of the airport are encouraged to work in partnership in the development of a SWPPP. If an airport tenant obtains authorization under this permit and develops a SWPPP for discharges from his own areas of the airport, prior to authorization, that SWPPP must be coordinated and integrated with the SWPPP for the entire airport. Tenants of the airport facility include air passenger or cargo companies, fixed based operators and other parties who have contracts with the airport authority to conduct business operations on airport property and whose operations result in storm water discharges associated with industrial activity.



## Attachment 1

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- S.4.1 *Drainage Area Site Map.* Document in the SWPPP the following areas of the facility and indicate whether activities occurring there may be exposed to precipitation/surface runoff: aircraft and runway deicing operations; fueling stations; aircraft, ground vehicle and equipment maintenance/cleaning areas; storage areas for aircraft, ground vehicles and equipment awaiting maintenance.
- S.4.2 *Potential Pollutant Sources.* (See also Part 5.2.3) In your inventory of exposed materials, describe in your SWPPP the potential for the following activities and facility areas to contribute pollutants to storm water discharges: aircraft, runway, ground vehicle and equipment maintenance and cleaning; aircraft and runway deicing operations (including apron and centralized aircraft deicing stations, runways, taxiways and ramps). If you use deicing chemicals, you must maintain a record of the types (including the Material Safety Data Sheets [MSDS]) used and the monthly quantities, either as measured or, in the absence of metering, as estimated to the best of your knowledge. This includes all deicing chemicals, not just glycols and urea (e.g., potassium acetate), because large quantities of these other chemicals can still have an adverse impact on receiving waters. Tenants or other fixed-based operations that conduct deicing operations must provide the above information to the airport authority for inclusion with any comprehensive airport SWPPPs.
- S.4.3 *Vehicle and Equipment Wash water Requirements.* Attach to or reference in your SWPPP, a copy of the NPDES permit issued for vehicle/equipment wash water or, if an NPDES permit has not been issued, a copy of the pending application. If an industrial user permit is issued under a local pretreatment program, include a copy in your SWPPP. In any case, if you are subject to another permit, describe your control measures for implementing all non-storm water discharge permit conditions or pretreatment requirements in your SWPPP. If wash water is handled in another manner (e.g., hauled offsite, retained onsite), describe the disposal method and attach all pertinent documentation/information (e.g., frequency, volume, destination, etc.) in your SWPPP.
- S.4.4 *Documentation of Control Measures Used for Management of Runoff:* Document in your SWPPP the control measures used for collecting or containing contaminated melt water from collection areas used for disposal of contaminated snow.

### **8.S.5 Additional Inspection Requirements.**

At a minimum conduct facility inspections at least monthly during the deicing season (e.g., October through April for most mid-latitude airports). If your facility needs to deice before or after this period, expand the monthly inspections to include all months during which deicing chemicals may be used. The Director may specifically require you to increase inspection frequencies.

### **S.6 Sector-Specific Benchmarks.**

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

Table S-1.		
Subsector (You may be subject to requirements for more than one sector/subsector)	Parameter	Benchmark Monitoring Concentration
For airports where a single permittee, or a combination of permitted facilities use more than 100,000 gallons of glycol-based deicing chemicals and/or 100 tons or more of urea on an average annual basis, monitor the first four parameters in ONLY those outfalls that collect runoff from areas where deicing activities occur (SIC 4512-4581).	Biochemical Oxygen Demand (BOD <sub>5</sub> ) <sup>1</sup>	30 mg/L
	Chemical Oxygen Demand (COD) <sup>1</sup>	120 mg/L
	Ammonia <sup>1</sup>	2.14 mg/L
	pH <sup>1</sup>	6.0 - 9.0 s.u.

<sup>1</sup> These are deicing-related parameters. Collect the four benchmark samples, and any required follow-up benchmark samples, during the timeframe defined in Part 8.S.3.2 when deicing activities are occurring.

### S.7 Effluent Limitations Based on Effluent Limitations Guidelines

- S.7.1 *Airfield Pavement Deicing.* Existing and new primary airports with 1,000 or more annual jet departures ("non-propeller aircraft") that discharge wastewater associated with airfield pavement deicing commingled with storm water must either use non-urea-containing deicers or meet the effluent limit in Table S-2.
- S.7.2 *Aircraft Deicing.* Airports meeting the definition of a new source ("new airports") with 10,000 annual departures located in cold climate zones must collect 60 percent of aircraft deicing fluid after deicing. See 40 CFR 449.11 for the Airport Effluent Limitation Guidelines requirements for this new source category. Discharges of the collected aircraft deicing fluid directly to waters of the U.S. are not eligible for coverage under this permit.
- S.7.3 *Monitoring, Reporting and Recordkeeping.* For new airports subject to the effluent limitations in S.7.2, you must comply with the monitoring, reporting and recordkeeping requirements outlined in 40 CFR 449.20(a)(1) and (2).

Attachment 1

<b>Table S-2</b>		
<b>Industrial Activity</b>	<b>Parameter</b>	<b>Effluent Limit</b>
Existing and new primary airports with 1,000 or more annual jet departures that discharge wastewater associated with airfield pavement deicing that contains urea commingled with storm water	Ammonia as Nitrogen	14.7 mg/L, daily maximum

**Subpart T – Sector T – Treatment Works.**

You must comply with sector-specific requirements associated with your primary industrial activity and any co-located industrial activities, as specified below. 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.

<b>SECTOR T: TREATMENT WORKS</b>		
<b>Subsector (May be subject to more than one Sector/subsector)</b>	<b>SIC Code or Activity Code</b>	<b>Activity Represented</b>
T1	TW	Treatment works treating domestic sewage or any other 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 a an approved pretreatment program under 40 CFR Part 403. Not included are farm lands, lands used for domestic gardens or lands used for sludge management where sludge is beneficially reused and are not physically located within the confines of the facility or areas that are in compliance with Section 405 of the CWA

**T.1 Covered Storm water Discharges.**

The requirements in Subpart T apply to storm water discharges associated with industrial activity from Treatment Works as identified by the Activity Code specified under Attachment 2 of this permit.

**T.2 Industrial Activities Covered by Sector T.**

The requirements listed under this part apply to all existing point source storm water discharges associated with the following activities:

- T.2.1 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 a facility with a design flow of 1.0 million gallons per day (MGD) or more; or are required to have an approved pretreatment program under 40 CFR Part 403.
- T.2.2 The following are not required to have permit coverage: farm lands, domestic gardens or lands used for sludge management where sludge is beneficially reused and which are not physically located within the facility, or areas that are in compliance with Section 405 of the CWA.

**T.3 Limitations on Coverage.**

- T.3.1 *Prohibition of Non-Storm water Discharges.* Sanitary and industrial wastewater and equipment and vehicle wash water are not authorized by this permit.

**T.4 Additional Technology-Based Effluent Limits.**

- T.4.1 *Control Measures.* In addition to the other control measures, evaluate implementation of the following additional control measures: routing storm water to the treatment works; or covering exposed materials (i.e., from the following areas: grit, screenings, and other solids handling, storage, or disposal areas; sludge drying beds; dried sludge piles; compost piles; and septage or hauled waste receiving station).
- T.4.2 *Employee Training.* At a minimum, training must address the following areas when applicable to a facility: petroleum product management; process chemical management; spill prevention and controls; fueling procedures; general good housekeeping practices; and proper procedures for using fertilizer, herbicides, and pesticides.

**T.5 Additional SWPPP Requirements.**

- T.5.1 *Site Map.* Document in your SWPPP where any of the following may be exposed to precipitation or surface runoff: grit, screenings, and other solids handling, storage, or disposal areas; sludge drying beds; dried sludge piles; compost piles; septage or hauled waste receiving station; and storage areas for process chemicals, petroleum products, solvents, fertilizers, herbicides, and pesticides.
- T.5.2 *Potential Pollutant Sources.* Document in your SWPPP the following additional sources and activities that have potential pollutants associated with them, as applicable: grit, screenings, and other solids handling, storage, or disposal areas; sludge drying beds; dried sludge piles; compost piles; septage or hauled waste receiving station; and access roads and rail lines.
- T.5.3 *Wastewater and Wash water Requirements.* Keep a copy of all your current NPDES permits issued for wastewater and industrial, vehicle and equipment wash water discharges or, if an NPDES permit has not yet been issued, a copy of the pending application(s) with your SWPPP. If the wash water is handled in another manner, the disposal method must be described and all pertinent documentation must be retained onsite.

**T.6 Additional Inspection Requirements.**

Include the following areas in all inspections: access roads and rail lines; grit, screenings, and other solids handling, storage, or disposal areas; sludge drying beds; dried sludge piles; compost piles; and septage or hauled waste receiving station.

**Subpart U – Sector U – Food and Kindred Products.**

You must comply with sector-specific requirements associated with your primary industrial activity and any co-located industrial activities, as specified below. 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.

<b>SECTOR U: FOOD AND KINDRED PRODUCTS</b>		
<b>Subsector (May be subject to more than one sector/subsector)</b>	<b>SIC Code or Activity Code</b>	<b>Activity Represented</b>
U1	2041-2048	Grain Mill Products
U2	2074-2079	Fats and Oils Products
U3	2011-2015	Meat Products
	2021-2026	Dairy Products
	2032-2038	Canned, Frozen, 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

**U.1 Covered Storm water Discharges.**

The requirements in Subpart U apply to storm water discharges associated with industrial activity from Food and Kindred Products facilities as identified by the SIC Codes specified in Attachment 2 of this permit.

**U.2 Limitations on Coverage.**

U.2.1 *Prohibition of Non-Storm water Discharges.* The following discharges are not authorized by this permit: discharges containing boiler blowdown, cooling tower overflow and blowdown, ammonia refrigeration purging, and vehicle washing and clean-out operations.

**U.3 Additional Technology-Based Limitations.**

U.3.1 *Employee Training.* Address pest control in your employee training program.

**U.4 Additional SWPPP Requirements.**

U.4.1 *Drainage Area Site Map.* Document in your SWPPP the locations of the following activities if they are exposed to precipitation or runoff: vents and stacks from cooking,

## Attachment 1

drying, and similar operations; dry product vacuum transfer lines; animal holding pens; spoiled product; and broken product container storage areas.

U.4.2 *Potential Pollutant Sources.* Document in your SWPPP, in addition to food and kindred products processing-related industrial activities, application and storage of pest control chemicals (e.g., rodenticides, insecticides, fungicides) used on plant grounds.

### U.5 Additional Inspection Requirements.

Inspect on a quarterly basis, at a minimum, the following areas where the potential for exposure to storm water exists: loading and unloading areas for all significant materials; storage areas, including associated containment areas; waste management units; vents and stacks emanating from industrial activities; spoiled product and broken product container holding areas; animal holding pens; staging areas; and air pollution control equipment.

### U.6 Sector-Specific Benchmarks.

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

<b>Table U-1.</b>		
<b>Subsector (You may be subject to requirements for more than one Sector / Subsector)</b>	<b>Parameter</b>	<b>Benchmark Monitoring Concentration</b>
<b>Subsector U1.</b> Grain Mill Products (SIC 2041-2048)	Total Suspended Solids (TSS)	100 mg/L
<b>Subsector U2.</b> Fats and Oils Products (SIC 2074-2079)	Biochemical Oxygen Demand (BOD <sub>5</sub> )	30 mg/L
	Chemical Oxygen Demand (COD)	120 mg/L
	Nitrate plus Nitrite Nitrogen	0.68 mg/L
	Total Suspended Solids (TSS)	100 mg/L

**Subpart V – Sector V – Textile Mills, Apparel, and Other Fabric Products.**

You must comply with sector-specific requirements associated with your primary industrial activity and any co-located industrial activities, as specified below. 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.

<b>SECTOR V: TEXTILE MILLS, APPAREL, AND OTHER FABRIC MANUFACTURING; LEATHER AND LEATHER PRODUCTS</b>		
<b>Subsector (May be subject to more than one sector/subsector)</b>	<b>SIC Code or Activity Code</b>	<b>Activity Represented</b>
V1	211-2299	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)

**V.1 Covered Storm water Discharges.**

The requirements in Subpart V apply to storm water discharges associated with industrial activity from Textile Mills, Apparel, and Other Fabric Product manufacturing as identified by the SIC Codes specified under attachment 2 of this permit.

**V.2 Limitations on Coverage.**

V.2.1 *Prohibition of Non-Storm water Discharges.* The following are not authorized by this permit: discharges of wastewater (e.g., wastewater resulting from wet processing or from any processes relating to the production process), reused or recycled water, and waters used in cooling towers. If you have these types of discharges from your facility, you must cover them under a separate NPDES permit.

**V.3 Additional Technology-Based Limitations.**

V.3.1 *Good Housekeeping Measures.*

V.3.1.1 *Material Storage Areas.* Plainly label and store all containerized materials (e.g., fuels, petroleum products, solvents, and dyes) in a protected area, away from drains. Minimize contamination of the storm water runoff from such storage areas. Also consider an inventory control plan to prevent excessive purchasing of potentially hazardous substances. For storing empty chemical drums or containers, ensure that the drums and containers are clean (consider triple-rinsing) and that there is no contact of residuals with precipitation or runoff. Collect and dispose of wash water from these cleanings properly.

V.3.1.2 *Material Handling Areas.* Minimize contamination of storm water runoff from material handling operations and areas. Implement appropriate control measures, such as the following (or their equivalents): use of spill and overflow



protection; covering fueling areas; and covering or enclosing areas where the transfer of material may occur. When applicable, address the replacement or repair of leaking connections, valves, transfer lines, and pipes that may carry chemicals, dyes, or wastewater.

V.3.1.3 *Fueling Areas.* Minimize contamination of storm water runoff from fueling areas. Implement appropriate control measures, such as the following (or their equivalents): covering the fueling area, using spill and overflow protection, minimizing run-on of storm water to the fueling areas, using dry cleanup methods, and treating and/or recycling storm water runoff collected from the fueling area.

V.3.1.4 *Above-Ground Storage Tank Area.* Minimize contamination of the storm water runoff from above-ground storage tank areas, including the associated piping and valves. Implement appropriate control measures, such as the following (or their equivalents): regular cleanup of these areas; including measures for tanks, piping and valves explicitly in your SPCC program; minimizing runoff of storm water from adjacent areas; restricting access to the area; inserting filters in adjacent catch basins; providing absorbent booms in unbermed fueling areas; using dry cleanup methods; and permanently sealing drains within critical areas that may discharge to a storm drain.

V.3.2 *Employee Training.* As part of your employee training program, address, at a minimum, the following activities (as applicable): use of reused and recycled waters, solvents management, proper disposal of dyes, proper disposal of petroleum products and spent lubricants, spill prevention and control, fueling procedures, and general good housekeeping practices.

#### **V.4 Additional SWPPP Requirements.**

V.4.1 *Potential Pollutant Sources.* Document in your SWPPP the following additional sources and activities that have potential pollutants associated with them: industry-specific significant materials and industrial activities (e.g., backwinding, beaming, bleaching, backing bonding, carbonizing, carding, cut and sew operations, desizing, drawing, dyeing locking, fulling, knitting, mercerizing, opening, packing, plying, scouring, slashing, spinning, synthetic-felt processing, textile waste processing, tufting, turning, weaving, web forming, winging, yarn spinning, and yarn texturing).

V.4.2 *Description of Good Housekeeping Measures for Material Storage Areas.* Document in the SWPPP your containment area or enclosure for materials stored outdoors in connection with Part V.3.1.1 above.

#### **V.5 Additional Inspection Requirements.**

Inspect, at least monthly, the following activities and areas (at a minimum): transfer and transmission lines, spill prevention, good housekeeping practices, management of process waste products, and all structural and nonstructural management practices.

**Subpart W – Sector W – Furniture and Fixtures.**

You must comply with sector-specific requirements associated with your primary industrial activity and any co-located industrial activities, as specified below: 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.

<b>SECTOR W: FURNITURE AND FIXTURES</b>		
Subsector (May be subject to more than one sector/subsector)	SIC Code or Activity Code	Activity Represented
W1	2434	Wood Kitchen Cabinets
	2511-2599	Furniture and Fixtures

**W.1 Covered Storm water Discharges.**

The requirements in Subpart W apply to storm water discharges associated with industrial activity from Furniture and Fixtures facilities as identified by the SIC Codes specified under Attachment 2 of this permit.

**W.2 Additional SWPPP Requirements.**

W.2.1 *Drainage Area Site Map.* Document in your SWPPP where any of the following may be exposed to precipitation or surface runoff: material storage (including tanks or other vessels used for liquid or waste storage) areas; outdoor material processing areas; areas where wastes are treated, stored, or disposed of; access roads; and rail spurs.

**Subpart X – Sector X – Printing and Publishing.**

You must comply with Part 8 sector-specific requirements associated with your primary industrial activity and any co-located industrial activities, as specified below. 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.

<b>SECTOR X: PRINTING AND PUBLISHING</b>		
<b>Sector (May be subject to more than one sector/subsector)</b>	<b>SIC Code or Activity Code</b>	<b>Activity Represented</b>
X1	2711-2796	Printing, Publishing, and Allied Industries

**X.1 Covered Storm water Discharges.**

The requirements in Subpart X apply to storm water discharges associated with industrial activity from Printing and Publishing facilities as identified by the SIC Codes specified under Attachment 2 of this permit.

**X.2 Additional Technology-Based Effluent Limits.**X.2.1 *Good Housekeeping Measures.*

X.2.1.1 *Material Storage Areas.* Plainly label and store all containerized materials (e.g., skids, pallets, solvents, bulk inks, hazardous waste, empty drums, portable and mobile containers of plant debris, wood crates, steel racks, and fuel oil) in a protected area, away from drains. Minimize contamination of the storm water runoff from such storage areas. Also consider an inventory control plan to prevent excessive purchasing of potentially hazardous substances.

X.2.1.2 *Material Handling Area.* Minimize contamination of storm water runoff from material handling operations and areas (e.g., blanket wash, mixing solvents, loading and unloading materials). Implement appropriate control measures, such as the following (or their equivalents): using spill and overflow protection, covering fueling areas, and covering or enclosing areas where the transfer of materials may occur. When applicable, address the replacement or repair of leaking connections, valves, transfer lines, and pipes that may carry chemicals or wastewater.

X.2.1.3 *Fueling Areas.* Minimize contamination of storm water runoff from fueling areas. Implement appropriate control measures, such as the following (or their equivalents): covering the fueling area, using spill and overflow protection, minimizing runoff of storm water to the fueling areas, using dry cleanup methods, and treating and/or recycling storm water runoff collected from the fueling area.

X.2.1.4 *Above Ground Storage Tank Area.* Minimize contamination of the storm water runoff from above-ground storage tank areas, including the associated piping and valves. Consider the following (or their equivalents): regularly cleaning these areas, explicitly addressing tanks, piping and valves in the SPCC program, minimizing storm water runoff from adjacent areas, restricting

## Attachment 1

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access to the area, inserting filters in adjacent catch basins, providing absorbent booms in unbermed fueling areas, using dry cleanup methods, and permanently sealing drains within critical areas that may discharge to a storm drain.

X.2.2 *Employee Training.* As part of your employee training program, address, at a minimum, the following activities (as applicable): spent solvent management, spill prevention and control, used oil management, fueling procedures, and general good housekeeping practices.

### **X.3 Additional SWPPP Requirements.**

X.3.1 *Description of Good Housekeeping Measures for Material Storage Areas.* In connection with Part X.2.1.1, describe in the SWPPP the containment area or enclosure for materials stored outdoors.

Attachment 1

**Subpart Y – Sector Y – Rubber, Miscellaneous Plastic Products, and Miscellaneous Manufacturing Industries.**

You must comply with sector-specific requirements associated with your primary industrial activity and any co-located industrial activities, as specified below. 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.

<b>SECTOR Y: RUBBER, MISCELLANEOUS PLASTIC PRODUCTS, AND MISCELLANEOUS MANUFACTURING INDUSTRIES</b>		
<b>Subsector (May be subject to more than one sector/subsector)</b>	<b>SIC Code or Activity Code</b>	<b>Activity Represented</b>
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 artist's materials
	3961,3965	Costume Jewelry, Costume Novelties, Buttons, and Miscellaneous Notions, Except Precious Metals
	3991-3999	Miscellaneous Manufacturing Industries

**Y.1 Covered Storm water Discharges.**

The requirements in Subpart Y apply to storm water discharges associated with industrial activity from Rubber, Miscellaneous Plastic Products, and Miscellaneous Manufacturing Industries facilities as identified by the SIC Codes specified under Attachment 2 of this permit.

**Y.2 Additional Technology-Based Effluent Limits.**

Y.2.1 *Controls for Rubber Manufacturers.* Minimize the discharge of zinc in your storm water discharges. Parts 8.Y.2.1.1 to 8.Y.2.1.5 give possible sources of zinc to be reviewed and list some specific control measures to be implemented (or their equivalents). In addition to these control measures the following include some additional general control

## Attachment 1

measure options to be evaluated for implementation: using chemicals purchased in pre-weighed, sealed polyethylene bags; storing in-use materials in sealable containers, ensuring an airspace between the container and the cover to minimize “puffing” losses when the container is opened, and using automatic dispensing and weighing equipment.

- Y2.1.1 *Zinc Bags.* Ensure proper handling and storage of zinc bags at your facility. Following are some control measure options: employee training on the handling and storage of zinc bags, indoor storage of zinc bags, cleanup of zinc spills without washing the zinc into the storm drain, and the use of 2,500-pound sacks of zinc rather than 50- to 100-pound sacks.
  - Y.2.1.2 *Dumpsters.* Minimize discharges of zinc from dumpsters. Following are some control measure options: covering the dumpster, moving the dumpster indoors, or providing a lining for the dumpster.
  - Y.2.1.3 *Dust Collectors and Baghouses.* Minimize contributions of zinc to storm water from dust collectors and baghouses. Replace or repair, as appropriate, improperly operating dust collectors and baghouses.
  - Y.2.1.4 *Grinding Operations.* Minimize contamination of storm water as a result of dust generation from rubber grinding operations. One control measure option is to install a dust collection system.
  - Y.2.1.5 *Zinc Stearate Coating Operations.* Minimize the potential for storm water contamination from drips and spills of zinc stearate slurry that may be released to the storm drain. One control measure option is to use alternative compounds to zinc stearate.
  - Y.2.2 *Controls for Plastic Products Manufacturers.* Minimize the discharge of plastic resin pellets in your storm water discharges. Control measures to be implemented (or their equivalents) include minimizing spills, cleaning up of spills promptly and thoroughly, sweeping thoroughly, pellet capturing, employee education, and disposal precautions.
- Y.3 Additional SWPPP Requirements.**
- Y.3.1 *Potential Pollutant Sources for Rubber Manufacturers.* Document in your SWPPP the use of zinc at your facility and the possible pathways through which zinc may be discharged in storm water runoff.

**Y.4 Sector-Specific Benchmarks.**

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

<b>Table Y-1.</b>		
<b>Subsector (You may be subject to requirements for more than one sector/subsector)</b>	<b>Parameter</b>	<b>Benchmark Monitoring Concentration</b>
<b>Subsector Y1.</b> Rubber Products Manufacturing (SIC 3011, 3021, 3052, 3053, 3061, 3069)	Total Zinc (freshwater) <sup>2</sup> Total Zinc (saltwater) <sup>1</sup>	Hardness Dependent  0.09 mg/L

Attachment 1

<b>Table Y-1.</b>		
<b>Subsector (You may be subject to requirements for more than one sector/subsector)</b>	<b>Parameter</b>	<b>Benchmark Monitoring Concentration</b>

<sup>1</sup>Saltwater benchmark values apply to storm water discharges into saline waters where indicated.

<sup>2</sup> 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 Attachment 3, "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:

<b>Freshwater Hardness Range</b>	<b>Zinc (mg/L)</b>
0-24.99 mg/L	0.04
25-49.99 mg/L	0.05
50-74.99 mg/L	0.08
75-99.99 mg/L	0.11
100-124.99 mg/L	0.13
125-149.99 mg/L	0.16
150-174.99 mg/L	0.18
175-199.99 mg/L	0.20
200-224.99 mg/L	0.23
225-249.99 mg/L	0.25
250+ mg/L	0.26

**Subpart Z – Sector Z – Leather Tanning and Finishing.**

You must comply with sector-specific requirements associated with your primary industrial activity and any co-located industrial activities, as specified below. 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.

<b>SECTOR Z: LEATHER TANNING AND FINISHING</b>		
<b>Subsector (May be subject to more than one sector/subsector)</b>	<b>SIC Code of Activity Code</b>	<b>Activity Represented</b>
Z1	3111	Leather Tanning and Finishing

**Z.1 Covered Storm water Discharges.**

The requirements in Subpart Z apply to storm water discharges associated with industrial activity from Leather Tanning and Finishing facilities as identified by the SIC Code specified under Attachment 2 of this permit.

**Z.2 Additional Technology-Based Effluent Limits.****Z.2.3 Good Housekeeping Measures.**

**Z.2.3.1 Storage Areas for Raw, Semi-processed, or Finished Tannery By-products.** Minimize contamination of storm water runoff from pallets and bales of raw, semi-processed, or finished tannery by-products (e.g., splits, trimmings, shavings). Store or protect indoors with polyethylene wrapping, tarpaulins, roofed storage, etc. where practicable. Place materials on an impermeable surface and enclose or put berms (or equivalent measures) around the area to prevent storm water run-on and runoff where practicable.

**Z.2.3.2 Material Storage Areas.** Label storage containers of all materials (e.g., specific chemicals, hazardous materials, spent solvents, waste materials) and minimize contact of such materials with storm water.

**Z.2.3.3 Buffing and Shaving Areas.** Minimize contamination of storm water runoff with leather dust from buffing and shaving areas. Implement dust collection enclosures, preventive inspection and maintenance programs, or other appropriate preventive measures where practicable.

**Z.2.3.4 Receiving, Unloading, and Storage Areas.** Minimize contamination of storm water runoff from receiving, unloading, and storage areas. If these areas are exposed, implement appropriate control measures, such as the following (or their equivalents): covering all hides and chemical supplies, diverting drainage to the process sewer, or grade berming or curbing the area to prevent storm water runoff.

**Z.2.3.5 Outdoor Storage of Contaminated Equipment.** Minimize contact of storm water with contaminated equipment. Implement appropriate control measures, such as the following (or their equivalents): covering equipment,



diverting drainage to the process sewer, and cleaning thoroughly prior to storage.

- Z.2.3.6 *Waste Management.* Minimize contamination of storm water runoff from waste storage areas. Implement appropriate control measures, such as the following (or their equivalents): covering dumpsters, moving waste management activities indoors, covering waste piles with temporary covering material such as tarpaulins or polyethylene, and minimizing storm water runoff by enclosing the area or building berms around the area.

**Z.3 Additional SWPPP Requirements.**

- Z.3.1 *Drainage Area Site Map.* Identify in your SWPPP where any of the following may be exposed to precipitation or surface runoff: processing and storage areas of the beamhouse, tanyard, and re-tan wet finishing and dry finishing operations.

- Z.3.2 *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 (as appropriate): temporary or permanent storage of fresh and brine-cured hides; extraneous hide substances and hair; leather dust, scraps, trimmings, and shavings.

**Subpart AA – Sector AA – Fabricated Metal Products**

You must comply with sector-specific requirements associated with your primary industrial activity and any co-located industrial activities, as specified below. 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.

<b>SECTOR AA: FABRICATED METAL PRODUCTS</b>		
<b>Subsector (May be subject to more than one sector/subsector)</b>	<b>SIC Code or Activity Code</b>	<b>Activity Represented</b>
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

**AA.1 Covered Storm water Discharges.**

The requirements in Subpart AA apply to storm water discharges associated with industrial activity from Fabricated Metal Products facilities as identified by the SIC Codes specified under Attachment 2 of this permit.

**AA.2 Additional Technology-Based Effluent Limits.**AA.2.1 *Good Housekeeping Measures.*

AA.2.1.1 *Raw Steel Handling Storage.* Minimize the generation of and/or recover and properly manage scrap metals, fines, and iron dust. Include measures for containing materials within storage handling areas.

AA.2.1.2 *Paints and Painting Equipment.* Minimize exposure of paint and painting equipment to storm water.

AA.2.2 *Spill Prevention and Response Procedures.* Ensure that the necessary equipment to implement a cleanup is available to personnel. The following areas should be addressed

AA.2.2.1 *Metal Fabricating Areas.* Maintain clean, dry, orderly conditions in these areas. Use dry clean-up techniques where practicable.

AA.2.2.2 *Storage Areas for Raw Metal.* Keep these areas free of conditions that could cause, or impede appropriate and timely response to, spills or leakage of materials. Implement appropriate control measures, such as the following (or their equivalents): maintaining storage areas so that there is easy access in the event of a spill, and labeling stored materials to aid in identifying spill contents.

AA.2.2.3 *Metal Working Fluid Storage Areas.* Minimize the potential for storm water contamination from storage areas for metal working fluids.

## Attachment 1

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- AA.2.2.4 *Cleaners and Rinse Water.* Control and clean up spills of solvents and other liquid cleaners, control sand buildup and disbursement from sand-blasting operations, and prevent exposure of recyclable wastes. Substitute environmentally benign cleaners when possible.
- AA.2.2.5 *Lubricating Oil and Hydraulic Fluid Operations.* Minimize the potential for storm water contamination from lubricating oil and hydraulic fluid operations. Use monitoring equipment or other devices to detect and control leaks and overflows where practicable. Install perimeter controls such as dikes, curbs, grass filter strips, or equivalent measures where practicable.
- AA.2.2.6 *Chemical Storage Areas.* Minimize storm water contamination and accidental spillage in chemical storage areas. Include a program to inspect containers and identify proper disposal methods.
- AA.2.3 *Spills and Leaks.* In your spill prevention and response procedures pay attention to the following materials (at a minimum): chromium, toluene, pickle liquor, sulfuric acid, zinc and other water priority chemicals, and hazardous chemicals and wastes.

### **AA.3 Additional SWPPP Requirements.**

- AA.3.1 *Drainage Area Site Map.* Document in your SWPPP where any of the following may be exposed to precipitation or surface runoff: raw metal storage areas; finished metal storage areas; scrap disposal collection sites; equipment storage areas; retention and detention basins; temporary and permanent diversion dikes or berms; right-of-way or perimeter diversion devices; sediment traps and barriers; processing areas, including outside painting areas; wood preparation; recycling; and raw material storage.
- AA.3.2 *Potential Pollutant Sources.* Document in your SWPPP the following additional sources and activities that have potential pollutants associated with them: loading and unloading operations for paints, chemicals, and raw materials; outdoor storage activities for raw materials, paints, empty containers, corn cobs, chemicals, and scrap metals; outdoor manufacturing or processing activities such as grinding, cutting, degreasing, buffing, and brazing; onsite waste disposal practices for spent solvents, sludge, pickling baths, shavings, ingot pieces, and refuse and waste piles.

### **AA.4 Additional Inspection Requirements**

- AA.4.1 *Inspections.* At a minimum, include the following areas in all inspections: raw metal storage areas, finished product storage areas, material and chemical storage areas, spent solvents and chemical storage areas, recycling areas, loading and unloading areas, equipment storage areas, paint areas, drainage from roof and vehicle fueling and maintenance areas. Potential pollutants include chromium, zinc, lubricating oil, solvents, aluminum, oil and grease, methyl ethyl ketone, steel, and related materials.

**AA.5 Sector-Specific Benchmarks.**

<b>Table AA-1</b>		
<b>Subsector (You may be subject to requirements for more than one sector/subsector)</b>	<b>Parameter</b>	<b>Benchmark Monitoring Concentration</b>
<b>Subsector AA1.</b> Fabricated Metal Products, except Coating (SIC 3411-3499; 3911-3915)	Total Aluminum	0.75 mg/L
	Total Iron	1.0 mg/L
	Total Zinc (freshwater) <sup>2</sup> Total Zinc (saltwater) <sup>1</sup>	Hardness Dependent 0.09 mg/L
	Nitrate plus Nitrite Nitrogen	0.68 mg/L
<b>Subsector AA2.</b> Fabricated Metal Coating and Engraving (SIC 3479)	Total Zinc (freshwater) <sup>2</sup> Total Zinc (saltwater) <sup>1</sup>	Hardness Dependent 0.09 mg/L
	Nitrate plus Nitrite Nitrogen	0.68 mg/L

<sup>1</sup>Saltwater benchmark values apply to storm water discharges into saline waters where indicated.

<sup>2</sup> 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 Attachment 3, "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:

<b>Freshwater Hardness Range</b>	<b>Zinc (mg/L)</b>
0-24.99 mg/L	0.04
25-49.99 mg/L	0.05
50-74.99 mg/L	0.08
75-99.99 mg/L	0.11
100-124.99 mg/L	0.13
125-149.99 mg/L	0.16
150-174.99 mg/L	0.18
175-199.99 mg/L	0.20
200-224.99 mg/L	0.23
225-249.99 mg/L	0.25
250+ mg/L	0.26

**Subpart AB – Sector AB – Transportation Equipment, Industrial or Commercial Machinery Facilities.**

You must comply with Part 8 sector-specific requirements associated with your primary industrial activity and any co-located industrial activities, as specified below. 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.

SECTOR AB: TRANSPORTATION EQUIPMENT, INDUSTRIAL or COMMERCIAL MACHINERY		
Subsector (May be subject to more than one sector/subsector)	SIC Code or Activity Code	Activity Represented
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)

**AB.1 Covered Storm water Discharges.**

The requirements in Subpart AB apply to storm water discharges associated with industrial activity from Transportation Equipment, Industrial or Commercial Machinery facilities as identified by the SIC Codes specified in Attachment 2 of this permit.

**AB.2 Additional SWPPP Requirements.**

AB.2.1 *Drainage Area Site Map.* Identify in your SWPPP where any of the following may be exposed to precipitation or surface runoff: vents and stacks from metal processing and similar operations.

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**Subpart AC– Sector AC –Electronic and Electrical Equipment and Components, Photographic and Optical Goods.**

You must comply with sector-specific requirements associated with your primary industrial activity and any co-located industrial activities, as specified below. 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.

<b>SECTOR AC: ELECTRONIC, ELECTRICAL, PHOTOGRAPHIC AND OPTICAL GOODS</b>		
<b>Sector (May be subject to one or more sectors/subsectors)</b>	<b>SIC Code or Activity Code</b>	<b>Activity Represented</b>
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

**AC.1 Covered Storm water Discharges.**

The requirements in Subpart AC apply to storm water discharges associated with industrial activity from facilities that manufacture Electronic and Electrical Equipment and Components, Photographic and Optical goods as identified by the SIC Codes specified in Attachment 2 of this permit.

**AC.2 Additional Requirements.**

No additional sector-specific requirements apply.

**Subpart AD – Sector AD – Storm water Discharges Designated by the Director as Requiring Permits.**

You must comply with sector-specific requirements associated with your primary industrial activity and any co-located industrial activities, as specified below. 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.

<b>SECTOR AD: NONCLASSIFIED FACILITIES</b>	
AD1	Other storm water discharges designated by the Director as needing a permit (see 40 CFR 122.26(a)(9)(i)(C) & (D) or any facility discharging storm water not described by any of Sectors A-AC. NOTE: Facilities may not elect to be covered under Section AD. Only the Director may assign a facility to Sector AD

**AD.1 Covered Storm water Discharges.**

Sector AD is used to provide permit coverage for facilities designated by the Director as needing a storm water permit, and any discharges of storm water associated with industrial activity that do not meet the description of an industrial activity covered by Sectors A-AC.

AD.1.1 *Eligibility for Permit Coverage.* Because this sector is primarily intended for use by discharges designated by the Director as needing a storm water permit (which is an atypical circumstance), and your facility may or may not normally be discharging storm water associated with industrial activity, you must obtain the Director's written permission to use this permit prior to submitting an NOI. If you are authorized to use this permit, you will still be required to ensure that your discharges meet the basic eligibility provisions of this permit at Part 1.1.

**AD.2 Sector-Specific Benchmarks and Effluent Limits.**

The Director will establish any additional monitoring and reporting requirements for your facility prior to authorizing you to be covered by this permit. Additional monitoring requirements would be based on the nature of activities at your facility and your storm water discharges.