V. Storm Water Discharges Associated With Industrial Activity From Textile

Product Manufacturing Facilities1. Discharges Covered Under This Section

Mills, Apparel, and Other Fabric

Special permit conditions have been developed for textile mills, apparel, and other fabric product manufacturing facilities. The conditions in this section apply to storm water discharges from textile related operations located at any of the facilities covered under the storm water application regulations [40 Code of Federal Regulations (CFR) 122.26] and applying for coverage under this permit.

The storm water application regulations define storm water discharges associated with industrial activity at 40 CFR 122.26(b)(14). Category (xi) of this definition includes facilities under Standard Industrial Classifications 22 and 23. The conditions in this section apply to storm water discharges from the Textile Mill Products, of and regarding facilities and establishments engaged in the preparation of fiber and subsequent manufacturing of yarn, thread, braids, twine, and cordage, the manufacturing of broadwoven fabrics, narrow woven fabrics, knit fabrics, and carpets and rugs from yarn; processes involved in the dyeing and finishing of fibers, yarn fabrics, and knit apparel; the integrated manufacturing of knit apparel and other finished articles of yarn; the manufacturing of felt goods (wool), lace goods, nonwoven fabrics, miscellaneous textiles, and other apparel products.

Textile Mill Product facilities (SIC major group 22) typically receive and prepare fibers, transform these materials into fabric or related products, and finish the materials before packaging. Apparel facilities (SIC major group 23) typically receive woven or knitted fabric for cutting, sewing, and packaging. For more information on the industrial activities at textile facilities, consult EPA's "Development Document for Effluent Limitations Guidelines and Standards for the Textile Mills" (Document EPA 440/1–79/0226, October 1979).

When an industrial facility, described by the above coverage provisions of this section, has industrial activities being

conducted onsite that meet the description(s) of industrial activities in another section(s), that industrial facility shall comply with any and all applicable monitoring and pollution prevention plan requirements of the other section(s) in addition to all applicable requirements in this section. The monitoring and pollution prevention plan terms and conditions of this multi-sector permit are additive for industrial activities being conducted at the same industrial facility (co-located industrial activities). The operator of the facility shall determine which other monitoring and pollution prevention plan section(s) of this permit (if any) are applicable to the facility.

2. Pollutants in Storm Water Discharges Associated with the Manufacture of Textile Products

Based on group application information and data, and the "Development Document for Effluent Limitation Guidelines and Standards for the Textile Mills," EPA has identified the storm water pollutants and sources resulting from textile manufacturers in Table V–1.

TABLE V–1.

Activity	Pollutant source	Pollutant				
Raw material storage and handling	Wool, cotton, synthetics, rayon, other fibers, coal/wood piles, fuels, oil, lubricants.	TSS, pH, oil and grease, COD, BOD ₅ , lead, chromium, benzene.				
Storage and handling of materials for dyeing	Dyes, dye preservatives, pigments	Copper, phenols, lead, chromium, zinc, alu- minum, acids.				
Storage and handling of materials for scouring and cleaning.	Wool, scouring agents, detergents	BOD ₅ , COD, TSS, oil and grease, sulfides, phenols, pH, chromium.				
Storage and handling of materials for bleach- ing, printing, finishing, and other activities.	Dyes, bleaches, detergents, finishing agents, printing products.	BOD ₅ , COD, TSS, oil and grease, sulfides, phenols, pH, chromium, hydrogen peroxide, acids.				

Based on the wide variety of industrial activities and significant materials at the facilities included in this sector, EPA believes it is appropriate to divide the textile mills, apparel, and other fabric product manufacturing industry into subsectors to properly analyze sampling data and determine monitoring requirements. As a result, this sector has been divided into the following subsectors: textile mills and apparel and other finished products made from fabrics. Table V–2 below includes data for the eight pollutants that all facilities were required to monitor for under Form 2F. The table also lists those parameters that EPA has determined may merit further monitoring. A table has not been included for the apparel and other finished products made from fabrics subsector because less than 3 facilities submitted data.

TABLE V–2.—STATISTICS FOR SELECTED POLLUTANTS REPORTED BY TEXTILE MILL PRODUCTS FACILITIES SUBMITTING PART II SAMPLING DATAⁱ (mg/L)

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Pollutant sample type	No. of facili- ties		No. of samples		Mean		Minimum		Maximum		Median		95th percentile		99th percentile	
		Comp ⁱⁱ	Grab	Comp	Grab	Comp	Grab	Comp	Grab	Comp	Grab	Comp	Grab	Comp	Grab	Comp
BOD5	51 51	49 49	96 96	93 93	10.4 61.9	9.53 46.25	0.0 0.0	0.0 0.0	50.0 306.0	50.2 212.0	7.0 41.0	7.0 36.0	29.8 194.0	26.02 132.1	51.1 365.0	43.2 228.8
Nitrate + Nitrite Nitrogen Total Kjeldahl Nitrogen	51 51	49 49	96 96	93 93	1.35 1.98 3.2	1.22 1.71 N/A	0.00 0.00	0.0 0.0 N/A	71.00 7.40	65.0 8.30 N/A	0.30 1.64	0.34 1.50 N/A	3.17 5.54	2.71 4.38	6.80 9.03	5.74 6.76
Oil & Grease pH	51 48 51	N/A N/A 49	97 91 96	N/A N/A 93	3.2 N/A 0.28	N/A N/A 0.29	0.0 4.0 0.00	N/A N/A 0.0	42.0 10.2 11.00	N/A N/A 11.0	0.0 6.9 0.12	N/A N/A 0.11	17.8 9.1 0.66	N/A N/A 0.66	35.9 10.4 1.29	N/A N/A 1.30
Total Phosphorus Total Suspended Solids Zinc, Total	51	49 49 6	96 96 16	93 93 14	126 0.328	0.29 75 0.296	0	0.0 0.0 0.070	1888	1675 0.880	38 0.19	20 0.21	591 1.079	261	1860	694 1.269

ⁱ Applications that did not report the units of measurement for the reported values of pollutants were not included in these statistics. Values reported as non-detect or below detection limit were assumed to be 0. "Composite samples.

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