

Appendix G
New Hampshire Small MS4 Permit Monitoring Requirements
For Discharges into Impaired Waters - Parameters and Methods

Pollutant Causing Impairment ¹	Monitoring Parameter ²	EPA or Approved Method Nos.
2-Methylnaphthalene	2-Methylnaphthalene and all other PAHs	8270
Acenaphthene	Acenaphthene and all other PAHs	610 ; 1625
Acenaphthylene	Acenaphthylene and all other PAHs	610 ; 1625
Aluminum	Aluminum, Total	200.7 ; 200.8 ; 200.9
Ammonia (Un-ionized)	Ammonia – Nitrogen	350.1
Anthracene	Anthracene and all other PAHs	610 ; 1625
Arsenic	Arsenic, Total	200.7 ; 200.8 ; 200.9
Benthic-Macroinvertebrate Bioassessments (Streams)	Contact NHDES Watershed Management Bureau for requirements	--
Benzo[a]anthracene	Benzo[a]anthracene and all other PAHs	610 ; 1625
Benzo[a]pyrene	Benzo[a]pyrene and all other PAHs	610 ; 1625
Benzo[b]fluoranthene	Benzo[b]fluoranthene and all other PAHs	610 ; 1625
Benzo[g,h,i] perylene	Benzo[g,h,i] perylene and all other PAHs	610 ; 1625
Benzo[k]fluoranthene	Benzo[k]fluoranthene and all other PAHs	610 ; 1625
Biphenyl	Biphenyl and all other PAHs	1625
BOD, Biochemical oxygen demand	NMR	--
Cadmium	Cadmium, Total	200.7 ; 200.8 ; 200.9
Chloride	Chloride	300.0
Chlorophyll-a	Total Phosphorus (freshwater) Total Nitrogen (marine waters)	365.1 ; 365.2 ; 365.3 351.1/351.2 + 353.2
Chromium	Chromium, Total	200.7 ; 200.8 ; 200.9
Chrysene	Chrysene (C1-C4) and all other PAHs	610 ; 1625
Copper	Copper, Total	200.7 ; 200.8 ; 200.9
Cyanobacteria hepatotoxic microcystins	Total Phosphorus (freshwater) Total Nitrogen (marine waters)	365.1 ; 365.2 ; 365.3 351.1/351.2 + 353.2
DDD	NMR	608 ; 625
DDE	NMR	608 ; 625
DDT	NMR	608 ; 625
Dibenz[a,h]anthracene	Dibenz[a,h]anthracene and all other PAHs	610 ; 1625
Dieldrin	Dieldrin	608 ; 625
Dioxin (including 2,3,7,8-TCDD)	NMR	613
Dissolved oxygen saturation	Dissolved Oxygen Temperature BOD ₅ Total Phosphorus (freshwater) Total Nitrogen (marine waters)	360.1; 360.2 SM-2550 SM-5210 365.1 ; 365.2 ; 365.3 351.1/351.2 + 353.2
E. coli	E. coli	1103.1 ; 1603
Endrin	Endrin	608 ; 625
Enterococcus	Enterococcus	1106.1 ; 1600
Estuarine Bioassessments	Total Nitrogen	351.1/351.2 + 353.2
Excess Algal Growth	Total Phosphorus (freshwater) Total Nitrogen (marine waters)	365.1 ; 365.2 ; 365.3 351.1/351.2 + 353.2
Fecal Coliform	Fecal Coliform	1680 ; 1681
Fishes Bioassessments (Streams)	Contact NHDES Watershed Management Bureau for requirements	--

Available at: www.epa.gov/NE/npdes/stormwater/index.html

Fluoranthene	Fluoranthene and all other PAHs	610 ; 1625
Fluorene	Fluorene and all other PAHs	610 ; 1625
Foam/Flocs/Scum/Oil Slicks	Contact NHDES Watershed Management Bureau for requirements	--
Habitat Assessment (Streams)	Contact NHDES Watershed Management Bureau for requirements	--
Heptachlor	Heptachlor	608 ; 625
Indeno[1,2,3-cd]pyrene	Indeno[1, 2, 3-cd] pyrene and all other PAHs	610 ; 1625
Invasive Aquatic Algae	Total Phosphorus (freshwater) Total Nitrogen (marine waters)	365.1 ; 365.2 ; 365.3 ; 351.1/351.2 + 353.2
Iron	Iron, Total	200.7 ; 200.8 ; 200.9
Lead	Lead, Total	200.7 ; 200.8 ; 200.9
Lindane	Lindane	608 ; 625
Low flow alterations	NMR	--
Manganese	Total Manganese	200.7 ; 200.8 ; 200.9
Mercury	NMR unless potentially present such (e.g., salvage yards crushing vehicles with Hg switches)	200.7 ; 200.8 ; 200.9
Napthalene	Napthalene and all other PAHs	610 ; 1625
Nitrogen (Total)	Nitrogen, Total	351.1/351.2 + 353.2
Non-Native (Aquatic) Plants	NMR	--
Other flow regime alterations	NMR	--
Oxygen, Dissolved	Dissolved Oxygen Temperature BOD ₅ Total Phosphorus (freshwater) Total Nitrogen (marine waters)	360.1; 360.2 SM-2550 SM-5210 365.1 ; 365.2 ; 365.3 351.1/351.2 + 353.2
pH	pH	150.2
Phenanthrene	Phenanthrene and all other PAHs	610 ; 1625
Phosphorus (Total)	Phosphorus, Total	365.1 ; 365.2 ; 365.3 ; SM 4500-P-E
Physical substrate habitat alterations	Contact NHDES Watershed Management Bureau for requirements	--
Polychlorinated biphenyls	NMR	--
Pyrene	Pyrene and all other PAHs	610 ; 1625
Sedimentation/Siltation	Total Suspended Solids	160.2
Taste, odor, color	NMR	--
Turbidity	Total Suspended Solids and Turbidity	160.2 , 180.1
Zinc	Zinc, Total	200.7 ; 200.8 ; 200.9

¹ [New Hampshire 2008 Section 305\(b\) and 303\(d\) Surface Water Quality Report](#)

² "NMR" indicates no monitoring required

"Total Phosphorus (freshwater)" indicates monitor for total phosphorus where a stormwater discharges to a water body that is freshwater

"Total Nitrogen (marine water)" indicates monitor for total nitrogen where a stormwater discharges to a water body that is a marine or estuarine water