



Laboratory Certificates need to accurately reflect the methods performed and reported by the laboratory, including the version designation.

Clean Water Program

All methods identified as approved in 40 CFR 136.3 will be accepted by the Minnesota Pollution Control Agency (MPCA) for the following parameters:

Bacteria

Coliform- fecal
Coliform - fecal with chlorine present
Coliform- total
Coliform- total with chlorine present
Escherichia coli
Fecal streptococci

Inorganic

Acidity, as CaCO ₃	Fluoride	Residue-total
Alkalinity as CaCO ₃	Hardness- Total as CaCO ₃	Residue-filterable (TDS)
Ammonia as N	Kjeldahl Nitrogen –Total	Residue-non-filterable (TSS)
Biochemical oxygen demand	Nitrate as N	Residue-settleable
Bromide	Nitrate-nitrite	Residue-volatile
Carbonaceous BOD, CBOD	Nitrite as N	Silica-dissolved
Chemical oxygen demand	Oil & Grease	Specific conductance
Chloride	Organic Carbon- Total	Sulfate
Chromium VI	Organic nitrogen	Sulfide
Color	Orthophosphate as P	Sulfite-SO ₃
Cyanide- Total	Phenols	Surfactants
Cyanide- Available	Phosphorus- Total	Turbidity

Metals

Aluminum	Cobalt	Potassium
Antimony	Copper	Selenium
Arsenic	Iron	Silica-dissolved
Barium	Lead	Silver
Beryllium	Magnesium	Sodium
Boron	Manganese	Thallium
Cadmium	Mercury	Tin
Calcium	Molybdenum	Vanadium
Chromium- Total	Nickel	Zinc

Organics, Semi-volatile

Acenaphthene	3,3'-Dichlorobenzidine	Naphthalene
Acenaphthylene	2,4-Dichlorophenol	Nitrobenzene
Anthracene	Diethyl phthalate	2-Nitrophenol
Benzidine	2,4-Dimethylphenol	4-Nitrophenol
Benzo(a)anthracene	Dimethyl phthalate	n-Nitrosodimethylamine
Benzo(a)pyrene	Di-n-butyl phthalate	n-Nitrosodi-n-propylamine
Benzo[b]fluoranthene	Di-n-octyl phthalate	n-Nitrosodiphenylamine
Benzo(g,h,i)perylene	2,4-Dinitrophenol (typo in 136.3 as 2,3-Dinitrophenol)	bis(2-Chloroisopropyl) ether
Benzo(k)fluoranthene	2,4-Dinitrotoluene (2,4-DNT)	Pentachlorophenol
Benzyl butyl phthalate	2,6-Dinitrotoluene (2,6-DNT)	Phenanthrene
bis(2-Chloroethoxy)methane	Fluoranthene	Phenol
bis(2-Chloroethyl) ether	Fluorene	Pyrene
bis(2-Ethylhexyl)phthalate (Di(2-ethylhexyl) phthalate)	Hexachlorobenzene	1,2,4-Trichlorobenzene
4-Bromophenyl phenyl ether	Hexachlorobutadiene	2,4,6-Trichlorophenol
4-Chloro-3-methylphenol	Hexachlorocyclopentadiene	Aroclor-1016 (PCB-1016)
2-Chloronaphthalene	Hexachloroethane	Aroclor-1221 (PCB-1221)
2-Chlorophenol	Indeno(1,2,3-cd) pyrene	Aroclor-1232 (PCB-1232)
4-Chlorophenyl phenylether	Isophorone	Aroclor-1242 (PCB-1242)
Chrysene	2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	Aroclor-1248 (PCB-1248)
Dibenzo(a,h) anthracene		Aroclor-1254 (PCB-1254)
		Aroclor-1260 (PCB-1260)

Organics, Volatile

*Acrolein (Propenal)	Chloromethane (Methyl chloride)	trans-1,3-Dichloropropene
*Acrylonitrile	Dibromochloromethane	Ethylbenzene
Benzene	1,2-Dichlorobenzene	Methylene chloride
Bromodichloromethane	1,3-Dichlorobenzene	1,1,2,2-Tetrachloroethane
Bromoform	1,4-Dichlorobenzene	Tetrachloroethene (Perchloroethylene)
Bromomethane (Methyl bromide)	1,1-Dichloroethane	Toluene
Carbon tetrachloride	1,2-Dichloroethane	1,1,1-Trichloroethane
Chlorobenzene	1,1-Dichloroethene	1,1,2-Trichloroethane
Chloroethane (Ethyl chloride)	trans-1,2-Dichloroethene	Trichloroethene
2-Chloroethyl vinyl ether	1,2-Dichloropropane	Trichlorofluoromethane
Chloroform	cis-1,3-Dichloropropene	Vinyl chloride

* These compounds can be screened by 624. If known to be present, they should be analyzed by 603 or 1624B.

Organics, Dioxins and Furans

1,2,3,4,6,7,8-Heptachlorodibenzofuran (1,2,3,4,6,7,8-hpcdf)
1,2,3,4,7,8,9-Heptachlorodibenzofuran (1,2,3,4,7,8,9-hpcdf)
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (1,2,3,4,6,7,8-hpcdd)
1,2,3,4,7,8-Hexachlorodibenzofuran (1,2,3,4,7,8-Hxcdf)
1,2,3,6,7,8-Hexachlorodibenzofuran (1,2,3,6,7,8-Hxcdf)
1,2,3,7,8,9-Hexachlorodibenzofuran (1,2,3,7,8,9-Hxcdf)
2,3,4,6,7,8-Hexachlorodibenzofuran
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (1,2,3,4,7,8-Hxcdd)
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin(1,2,3,6,7,8-Hxcdd)
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (1,2,3,7,8,9-Hxcdd)
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)

Organics, Dioxins and Furans (continued)

1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)
1,2,3,7,8-Pentachlorodibenzofuran (1,2,3,7,8-Pecdf)
2,3,4,7,8-Pentachlorodibenzofuran
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (1,2,3,7,8-Pecdd)
2,3,7,8-Tetrachlorodibenzofuran
2,3,7,8-Tetrachlorodibenzo- p-dioxin (2,3,7,8-TCDD)
Total HpCDD
Total HpCDF
Total HxCDD
Total HxCDF
Total PeCDD
Total PeCDF
Total TCDD
Total TCDF

Organics, Pesticides

Aldrin	Dieldrin
alpha-BHC (alpha-Hexachlorocyclohexane)	Endosulfan I
beta-BHC (beta-Hexachlorocyclohexane)	Endosulfan II
delta-BHC	Endosulfan sulfate
gamma-BHC (Lindane)	Endrin
Chlordane (tech.)	Endrin aldehyde
4,4'-DDD	Heptachlor
4,4'-DDE	Heptachlor epoxide
4,4'-DDT	Toxaphene (Chlorinated camphene)

Analyses of dissolved oxygen, pH, temperature and total residual oxidants (chlorine, bromine) do **not** need to be completed by a certified laboratory but shall comply with manufacturer's specifications for equipment calibration and use.

Analytes and methods available for certification but not on this MPCA list do not require certification by the MPCA at this time. This list will be reviewed yearly and any changes will be made by July 1 of each year. A laboratory that wishes to perform analyses of the newly added compounds or methods for National Pollutant Discharge Elimination System (NPDES) permits or data that could potentially be submitted to the MPCA, will need to make these additions to their certification effective the following January 1.

There may be analytes available for certification by the multi-analyte methods that are not listed as part of the reference method and not specifically listed as EPA 136.3 parameters for that particular method. An example of this is 1,2,4-trichlorobenzene by method 624. The compound 1,2,4-trichlorobenzene is not listed as an analyte in method 624 and EPA 136.3 does not list 624 as an appropriate method for this analyte, although it may be possible to analyze 1,2,4-trichlorobenzene by method 624. The MPCA, therefore, does not require labs to be certified for 1,2,4-trichlorobenzene by method 624.

Whole Effluent Toxicity is reviewed by the MPCA due to technical requirements or specialties that are found within the MPCA and therefore does not require laboratory certification.

Resource Conservation and Recovery Act (RCRA)

All methods identified as final in the SW-846 Methods Status Table will be accepted by the MPCA. Laboratories must be Certified for the individual analytes and matrix categories by the methods they are performing. See the MPCA Laboratory Quality Control (QC) and Data Policy for requirements on demonstrating appropriate performance at the concentration of interest.

Method	Analyte
6010 6010C required as of January 1, 2012	Applicable for all elements and matrices if appropriate performance at the concentration of interest is demonstrated.
6020 6020A required as of January 1, 2012	Applicable for all elements and matrices if appropriate performance at the concentration of interest is demonstrated.
7196A	Chromium VI
7470A	Mercury
7471A 7471B required as of January 1, 2012	Mercury
7473	Mercury
8021B	Applicable for aromatic and halogenated volatile compounds in a variety of matrices. Appropriate performance at the concentration of interest must be demonstrated.
8081A 8081B required as of January 1, 2012	Applicable for organochlorine pesticides. Appropriate performance at the concentration of interest must be demonstrated.
8082 8082A required as of January 1, 2012	Applicable for the determination of polychlorinated biphenyls (PCBs). Currently MPCA regulations assume PCBs are calculated as Aroclors.
8260 B	The following list of compounds defines the default analytes the MPCA wants to see for this analysis if no specific list is requested: Benzene Bromobenzene Bromochloromethane Bromodichloromethane Bromoform Bromomethane (Methyl bromide) n-Butylbenzene sec-Butylbenzene tert-Butylbenzene Carbon tetrachloride Chlorobenzene Chloroethane (Ethyl chloride) Chloroform Chloromethane (Methyl chloride) Dibromochloromethane 1,2-Dibromo-3-chloropropane (DBCP) 1,2-Dibromoethane (EDB) Dibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene

The following list of compounds defines the default analytes the MPCA wants to see for this analysis if no specific list is requested (8260B continued from previous page):

Dichlorodifluoromethane	1,1,1,2-Tetrachloroethane
1,1-Dichloroethane	1,1,2,2-Tetrachloroethane
1,2-Dichloroethane	Tetrachloroethene (Perchloroethylene)
1,1-Dichloroethene	Toluene
cis-1,2-Dichloroethene	1,2,3-Trichlorobenzene
trans-1,2-Dichloroethene	1,2,4-Trichlorobenzene
1,1-Dichloropropene	1,1,1-Trichloroethane
1,2-Dichloropropane	1,1,2-Trichloroethane
1,3-Dichloropropane	1,2,3,-Trichloropropane
2,2-Dichloropropane	Trichloroethene
cis-1,3-Dichloropropene	Trichlorofluoromethane
trans-1,3-Dichloropropene	1,2,4-Trimethylbenzene
2-Chlorotoluene	1,3,5-Trimethylbenzene
4-Chlorotoluene	m+p-xylene
Ethylbenzene	o-xylene
Hexachlorobutadiene	Vinyl chloride
Isopropylbenzene	2-Butanone (Methyl ethyl ketone, MEK)
4-Isopropyltoluene	4-Methyl-2-pentanone (MIBK)
Methylene chloride (Dichloromethane)	Acetone
Naphthlene	Allyl chloride
n-Propylbenzene	Diethyl ether
Styrene	Methyl tert-butyl ether (MTBE)
	*Tetrahydrofuran (THF)
	*1,1,2-trichloro-1,2,2-trifluoroethane (Freon 113)
	*Dichlorofluoromethane

*The MPCA recognizes these three compounds are not currently available for Certification by the Minnesota Department of Health (MDH) at this time for Method 8260B.

Other compounds may be required on a project specific basis. As long as a laboratory has Certification for this method and the base analytes listed above, the MPCA will not require labs to be certified for additional analytes requested on a project specific basis, unless required by a program, permit or Quality Assurance Project Plan (QAPP), as long as the laboratory maintains records demonstrating proficiency in the analysis of the additional analyte(s). See the MPCA Laboratory QC and Data Policy for requirements.

Method

Analyte

8270C

8270D required as of January 1, 2012

The following list of compounds defines the default analytes the MPCA wants to see for analysis if no specific list is requested:

Acenaphthene
 Acenaphthylene
 Aniline
 Anthracene
 Benzidine
 Benzo(a)anthracene
 Benzo(b)fluoranthene
 Benzo(k)fluoranthene
 Benzo(a)pyrene
 Benzo(g,h,i)perylene
 Benzoic acid
 Benzyl alcohol
 Butyl benzyl phthalate

The following list of compounds defines the default analytes the MPCA wants to see for analysis if no specific list is requested
(8270 C or D continued from previous page):

bis(2-Chloroethoxy)methane	Hexachlorobenzene
bis(2-Chloroethyl) ether	Hexachlorobutadiene
bis(2-Chloroisopropyl) ether	Hexachlorocyclopentadiene
bis(2-Ethylhexyl)phthalate	Hexachloroethane
4-Bromophenyl phenyl ether	Indeno(1,2,3-cd) pyrene
*Carbazole	Isophorone
4-Chloro-3-methylphenol	2-Methyl-4,6-dinitrophenol
2-Chloronaphthalene	2-Methylnaphthalene
2-Chlorophenol	2-Methylphenol (o-Cresol)
4-Chlorophenyl phenylether	4-Methylphenol (p-Cresol)
Chrysene	Naphthalene
Dibenzo(a,h) anthracene	2-Nitroaniline
Dibenzofuran	3-Nitroaniline
Di-n-butyl phthalate	4-Nitroaniline
1,2-Dichlorobenzene	Nitrobenzene
1,3-Dichlorobenzene	2-Nitrophenol
1,4-Dichlorobenzene	4-Nitrophenol
3,3'-Dichlorobenzidine	n-Nitrosodi-n-propylamine
2,4-Dichlorophenol	n-Nitrosodimethylamine
2,6-Dichlorophenol	n-Nitrosodiphenylamine
Diethyl phthalate	Phenanthrene
2,4-Dimethylphenol	Pentachlorophenol
Dimethyl phthalate	Phenol
2,4-Dinitrophenol	Pyrene
2,4-Dinitrotoluene (2,4-DNT)	Pyridine
2,6-Dinitrotoluene (2,6-DNT)	2,3,4,6-Tetrachlorophenol
Di-n-octyl phthalate	1,2,4-Trichlorobenzene
1,2-Diphenylhydrazine (analyzed as Azobenzene)	2,4,5-Trichlorophenol
Fluoranthene	2,4,6-Trichlorophenol
Fluorene	

*The MPCA recognizes that this compound is not currently available for MDH Certification by SW-846 Method 8270C.

Other compounds may be required on a project specific basis. As long as a laboratory has Certification for this method and the base analytes listed above, the MPCA will not require labs to be certified for additional analytes requested on a project specific basis, unless required by a program, permit or QAPP, as long as the laboratory maintains records demonstrating proficiency in the analysis of the additional analyte(s). See the MPCA Laboratory QC and Data Policy for requirements.

Method

Analyte

8270C SIM

8270D SIM required as of January 1, 2012

The following list of compounds defines the default analytes the MPCA wants to see for this analysis if no specific list is requested:

Benzo(a)anthracene	*Acenaphthene
Benzo(a)pyrene	*Acenaphthylene
Benzo(b)fluoranthene	*Anthracene
Benzo(k)fluoranthene	*Benzo(g,h,i)perylene
Dibenz(a,h) anthracene	*Chrysene
Fluoranthene	*Fluorene
Indeno(1,2,3-cd) pyrene	*Naphthalene
Pyrene	*Phenanthrene

*The MPCA recognizes that these compounds are not presently available for MDH Certification by SW-846 Method 8270C SIM.

Method	Analyte
9012B	Cyanide
9045D	pH
9056A	Bromide Chloride Fluoride Nitrate Sulfate Phosphate

Underground Storage Tank Program

TO-15	See MPCA Petroleum Remediation Guidance Document 4-01a for the current list of analytes and requirements.
WI(95) DRO	Diesel range organics (DRO)
WI(95) GRO	Gasoline range organics (GRO) Petroleum Volatile Organic Compounds (PVOC)

Other

EPA 600/4-81-045	PCBs
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The following methods have been deleted in the SW-846 Method Status Table and are no longer recognized by the MPCA as valid for work reported to the Agency:

Method	Analyte
7060A	Arsenic
7130	Cadmium
7190	Chromium
7210	Copper
7420	Lead
7481	Molybdenum
7520	Nickel
7610	Potassium
7740	Selenium
7760A	Silver
7950	Zinc