

<b>SUBJECT</b> Approved Methods: Air and Emissions	<b>DATE</b> 03/14/2022	<b>PAGE</b> 1 of 19	<b>Item No.</b> 180.4
---	---------------------------	------------------------	--------------------------

***Autonomous Detection Systems***

Analyte	Technology	Method Name	ELAP Method Number
<b>Biological Critical Agents</b>	99	NYSDOH Approved Method	9900
<b>Chemical Critical Agents</b>	99	NYSDOH Approved Method	9900
<b>Radioactive Critical Agents</b>	99	NYSDOH Approved Method	9900

***Mineral***

Analyte	Technology	Method Name	ELAP Method Number
<b>Fluoride, Total</b>	99	EPA 14A	4389
	COLOR	EPA 13B	4511
	IC	EPA 26	4390
	POT	EPA 13A	4591

***Chlorinated Hydrocarbons***

Analyte	Technology	Method Name	ELAP Method Number
<b>Hexachlorobutadiene</b>	GC-ELCD	40 CFR PART 60 1984 Method 18	4531
	GC-MS	EPA TO-14A	5060
	GC-MS	EPA TO-15	5062
	GC-MS	EPA TO-17	1401
<b>Hexachloroethane</b>	GC-ELCD	40 CFR PART 60 1984 Method 18	4531
	GC-MS	EPA TO-14A	5060
	GC-MS	EPA TO-15	5062
	GC-MS	EPA TO-17	1401
<b>1,2,4-Trichlorobenzene</b>	GC-ELCD	40 CFR PART 60 1984 Method 18	4531
	GC-MS	EPA TO-14A	5060
	GC-MS	EPA TO-15	5062
	GC-MS	EPA TO-17	1401

<b>SUBJECT</b>	<b>DATE</b>	<b>PAGE</b>	<b>Item No.</b>
Approved Methods: Air and Emissions	03/14/2022	2 of 19	180.4

***Metals I***

Analyte	Technology	Method Name	ELAP Method Number
<b>Lead, Total</b>	CVAAS	EPA 29	4387
	FAAS	EPA 29	4385
	FAAS	NIOSH 7082	1103
	GFAAS	EPA 29	4386
	GFAAS	EPA 7010	7010
	ICP-AES	EPA 29 (6010)	4383
	ICP-AES	NIOSH 7300	4505
	ICP-AES	NIOSH 7303	4593
	ICP-MS	40 CFR PART 50 2013 APP G	4079
	ICP-MS	EPA 29 (6020)	4384
	ICP-MS	Inter-Mountain TSP Lead	1208
	PREP	40 CFR PART 50 APP G	4500

***Priority Pollutant Phenols***

Analyte	Technology	Method Name	ELAP Method Number
<b>Pentachlorophenol</b>	GC-ECD	EPA TO-4A	1184
<b>Phenol</b>	GC-MS	EPA TO-15	5062

***Chlorinated Hydrocarbon Pesticides***

Analyte	Technology	Method Name	ELAP Method Number
<b>Alachlor</b>	GC-ECD	EPA TO-10A	1113
	GC-ECD	EPA TO-4A	1184
<b>Aldrin</b>	GC-ECD	EPA TO-10A	1113
	GC-ECD	EPA TO-4A	1184
<b>alpha-BHC</b>	GC-ECD	EPA TO-10A	1113
	GC-ECD	EPA TO-4A	1184
<b>beta-BHC</b>	GC-ECD	EPA TO-10A	1113
	GC-ECD	EPA TO-4A	1184

<b>SUBJECT</b>	<b>DATE</b>	<b>PAGE</b>	<b>Item No.</b>
Approved Methods: Air and Emissions	03/14/2022	3 of 19	180.4

***Chlorinated Hydrocarbon Pesticides***

Analyte	Technology	Method Name	ELAP Method Number
<b>Lindane</b>	GC-ECD	EPA TO-10A	1113
	GC-ECD	EPA TO-4A	1184
<b>Chlordane Total</b>	GC-ECD	EPA TO-10A	1113
	GC-ECD	EPA TO-4A	1184
	GC-ECD	NIOSH 5510	4397
<b>4,4'-DDD</b>	GC-ECD	EPA TO-10A	1113
	GC-ECD	EPA TO-4A	1184
<b>4,4'-DDE</b>	GC-ECD	EPA TO-10A	1113
	GC-ECD	EPA TO-4A	1184
<b>4,4'-DDT</b>	GC-ECD	EPA TO-10A	1113
	GC-ECD	EPA TO-4A	1184
<b>Dieldrin</b>	GC-ECD	EPA TO-10A	1113
	GC-ECD	EPA TO-4A	1184
<b>Endrin</b>	GC-ECD	EPA TO-4A	1184
<b>Heptachlor</b>	GC-ECD	EPA TO-10A	1113
	GC-ECD	EPA TO-4A	1184
<b>Heptachlor epoxide</b>	GC-ECD	EPA TO-10A	1113
	GC-ECD	EPA TO-4A	1184
<b>Metolachlor</b>	GC-ECD	EPA TO-10A	1113
	GC-ECD	EPA TO-4A	1184
<b>Trifluralin</b>	GC-ECD	EPA TO-10A	1113
	GC-ECD	EPA TO-4A	1184

***Metals II***

Analyte	Technology	Method Name	ELAP Method Number
<b>Mercury, Total</b>	CVAAS	40 CFR 61 Method 101	4513
	CVAAS	40 CFR 61 Method 101A	4528

<b>SUBJECT</b> Approved Methods: Air and Emissions	<b>DATE</b> 03/14/2022	<b>PAGE</b> 4 of 19	<b>Item No.</b> 180.4
---	---------------------------	------------------------	--------------------------

***Metals II***

Analyte	Technology	Method Name	ELAP Method Number
<b>Mercury, Total</b>	CVAAS	EPA 102	4370
	CVAAS	EPA 105	4371
	CVAAS	NIOSH 6009	4503
	CVAFS	EPA 30B	1225
	CVAFS	Frontier Sorbent Total Mercury	1026
<b>Beryllium, Total</b>	FAAS	40 CFR 61 1984 Method 104	4510
	ICP-AES	NIOSH 7300	4505
	ICP-AES	NIOSH 7303	4593

***Metals III***

Analyte	Technology	Method Name	ELAP Method Number
<b>Chromium, Total</b>	FAAS	40 CFR 63.344C METH 425	4571
	FAAS	40 CFR PART 60 1984 APP. A METH 3	4569
	GFAAS	40 CFR PART 63 APP A 306	4570
	ICP-AES	40 CFR PART 63 APP A 306	4573
	ICP-AES	NIOSH 7300	4505
	ICP-AES	NIOSH 7303	4593
	ICP-MS	40 CFR PART 60 1984 APP. A METH 3	4559

***Polychlorinated Biphenyls***

Analyte	Technology	Method Name	ELAP Method Number
<b>PCBs and Aroclors</b>	GC-ECD	EPA TO-10A	1113
	GC-ECD	EPA TO-4A	1184
	GC-ECD	NIOSH 5503	4406
	GC-ECD	NYS DOH 311-1	4507

<b>SUBJECT</b> Approved Methods: Air and Emissions	<b>DATE</b> 03/14/2022	<b>PAGE</b> 5 of 19	<b>Item No.</b> 180.4
---	---------------------------	------------------------	--------------------------

**Purgeable Halocarbons**

Analyte	Technology	Method Name	ELAP Method Number
<b>Bromochloromethane</b>	GC-MS	EPA TO-17	1401
<b>Bromodichloromethane</b>	GC-MS	EPA TO-14A	5060
	GC-MS	EPA TO-15	5062
	GC-MS	EPA TO-17	1401
<b>Bromoform</b>	GC-MS	EPA TO-15	5062
	GC-MS	EPA TO-17	1401
<b>Bromomethane</b>	GC-MS	EPA TO-14A	5060
	GC-MS	EPA TO-15	5062
<b>Carbon tetrachloride</b>	GC-ELCD	40 CFR PART 60 1984 Method 18	4531
	GC-MS	EPA TO-1	1031
	GC-MS	EPA TO-14A	5060
	GC-MS	EPA TO-15	5062
	GC-MS	EPA TO-17	1401
	GC-MS	EPA TO-2	1032
<b>Chloroform</b>	GC-ELCD	40 CFR PART 60 1984 Method 18	4531
	GC-ELCD	EPA TO-3	5063
	GC-MS	EPA TO-1	1031
	GC-MS	EPA TO-14A	5060
	GC-MS	EPA TO-15	5062
	GC-MS	EPA TO-17	1401
	GC-MS	EPA TO-2	1032
<b>Chloroethane</b>	GC-MS	EPA TO-14A	5060
	GC-MS	EPA TO-15	5062
<b>Chloromethane</b>	GC-MS	EPA TO-14A	5060
	GC-MS	EPA TO-15	5062
<b>3-Chloropropene (Allyl chloride)</b>	GC-MS	EPA TO-15	5062

<b>SUBJECT</b> Approved Methods: Air and Emissions	<b>DATE</b> 03/14/2022	<b>PAGE</b> 6 of 19	<b>Item No.</b> 180.4
---	---------------------------	------------------------	--------------------------

***Purgeable Halocarbons***

Analyte	Technology	Method Name	ELAP Method Number
<b>3-Chloropropene (Allyl chloride)</b>	GC-MS	EPA TO-17	1401
<b>Dibromochloromethane</b>	GC-MS	EPA TO-15	5062
	GC-MS	EPA TO-17	1401
<b>Dichlorodifluoromethane</b>	GC-MS	EPA TO-14A	5060
	GC-MS	EPA TO-15	5062
	GC-MS	EPA TO-17	1401
<b>Dibromomethane</b>	GC-MS	EPA TO-17	1401
<b>1,2-Dibromoethane</b>	GC-MS	EPA TO-14A	5060
	GC-MS	EPA TO-15	5062
	GC-MS	EPA TO-17	1401
<b>1,2-Dibromo-3-chloropropane</b>	GC-MS	EPA TO-14A	5060
	GC-MS	EPA TO-15	5062
	GC-MS	EPA TO-17	1401
<b>1,1-Dichloroethane</b>	GC-ELCD	40 CFR PART 60 1984 Method 18	4531
	GC-MS	EPA TO-14A	5060
	GC-MS	EPA TO-15	5062
	GC-MS	EPA TO-17	1401
<b>1,2-Dichloroethane</b>	GC-ELCD	40 CFR PART 60 1984 Method 18	4531
	GC-ELCD	EPA TO-3	5063
	GC-MS	EPA TO-1	1031
	GC-MS	EPA TO-14A	5060
	GC-MS	EPA TO-15	5062
	GC-MS	EPA TO-17	1401
	GC-MS	EPA TO-2	1032
<b>1,1-Dichloroethene</b>	GC-ELCD	40 CFR PART 60 1984 Method 18	4531
	GC-ELCD	EPA TO-3	5063

<b>SUBJECT</b> Approved Methods: Air and Emissions	<b>DATE</b> 03/14/2022	<b>PAGE</b> 7 of 19	<b>Item No.</b> 180.4
---	---------------------------	------------------------	--------------------------

**Purgeable Halocarbons**

Analyte	Technology	Method Name	ELAP Method Number
<b>1,1-Dichloroethene</b>	GC-MS	EPA TO-14A	5060
	GC-MS	EPA TO-15	5062
	GC-MS	EPA TO-17	1401
	GC-MS	EPA TO-2	1032
<b>cis-1,2-Dichloroethene</b>	GC-ELCD	40 CFR PART 60 1984 Method 18	4531
	GC-MS	EPA TO-14A	5060
	GC-MS	EPA TO-15	5062
	GC-MS	EPA TO-17	1401
<b>trans-1,2-Dichloroethene</b>	GC-MS	EPA TO-14A	5060
	GC-MS	EPA TO-15	5062
	GC-MS	EPA TO-17	1401
<b>1,2-Dichloropropane</b>	GC-ELCD	40 CFR PART 60 1984 Method 18	4531
	GC-MS	EPA TO-1	1031
	GC-MS	EPA TO-14A	5060
	GC-MS	EPA TO-15	5062
	GC-MS	EPA TO-17	1401
<b>1,3-Dichloropropane</b>	GC-MS	EPA TO-17	1401
<b>1,1-Dichloropropene</b>	GC-MS	EPA TO-17	1401
<b>2,2-Dichloropropane</b>	GC-MS	EPA TO-17	1401
<b>cis-1,3-Dichloropropene</b>	GC-MS	EPA TO-14A	5060
	GC-MS	EPA TO-15	5062
	GC-MS	EPA TO-17	1401
<b>trans-1,3-Dichloropropene</b>	GC-MS	EPA TO-14A	5060
	GC-MS	EPA TO-15	5062
	GC-MS	EPA TO-17	1401
<b>Methylene chloride</b>	GC-ELCD	40 CFR PART 60 1984 Method 18	4531

<b>SUBJECT</b> Approved Methods: Air and Emissions	<b>DATE</b> 03/14/2022	<b>PAGE</b> 8 of 19	<b>Item No.</b> 180.4
---	---------------------------	------------------------	--------------------------

***Purgeable Halocarbons***

Analyte	Technology	Method Name	ELAP Method Number	
<b>Methylene chloride</b>	GC-MS	EPA TO-14A	5060	
	GC-MS	EPA TO-15	5062	
	GC-MS	EPA TO-17	1401	
	GC-MS	EPA TO-2	1032	
<b>1,1,1,2-Tetrachloroethane</b>	GC-MS	EPA TO-17	1401	
<b>1,1,2,2-Tetrachloroethane</b>	GC-ELCD	40 CFR PART 60 1984 Method 18	4531	
	GC-MS	EPA TO-14A	5060	
	GC-MS	EPA TO-15	5062	
	GC-MS	EPA TO-17	1401	
<b>Tetrachloroethene</b>	GC-ELCD	40 CFR PART 60 1984 Method 18	4531	
	GC-ELCD	EPA TO-3	5063	
	GC-ELCD	NYS DOH METH 311-7	5049	
	GC-ELCD	NYS DOH METH 311-9	5061	
	GC-MS	EPA TO-1	1031	
	GC-MS	EPA TO-14A	5060	
	GC-MS	EPA TO-15	5062	
	GC-MS	EPA TO-17	1401	
	<b>1,1,1-Trichloroethane</b>	GC-ELCD	40 CFR PART 60 1984 Method 18	4531
		GC-MS	EPA TO-14A	5060
		GC-MS	EPA TO-15	5062
		GC-MS	EPA TO-17	1401
	<b>1,1,2-Trichloroethane</b>	GC-ELCD	40 CFR PART 60 1984 Method 18	4531
GC-MS		EPA TO-14A	5060	
GC-MS		EPA TO-15	5062	
GC-MS		EPA TO-17	1401	
<b>Trichloroethene</b>	GC-ELCD	40 CFR PART 60 1984 Method 18	4531	



<b>SUBJECT</b> Approved Methods: Air and Emissions	<b>DATE</b> 03/14/2022	<b>PAGE</b> 9 of 19	<b>Item No.</b> 180.4
---	---------------------------	------------------------	--------------------------

***Purgeable Halocarbons***

Analyte	Technology	Method Name	ELAP Method Number
<b>Trichloroethene</b>	GC-ELCD	NYS DOH METH 311-9	5061
	GC-MS	EPA TO-14A	5060
	GC-MS	EPA TO-15	5062
	GC-MS	EPA TO-17	1401
<b>Trichlorofluoromethane</b>	GC-MS	EPA TO-14A	5060
	GC-MS	EPA TO-15	5062
	GC-MS	EPA TO-17	1401
<b>1,2,3-Trichloropropane</b>	GC-MS	EPA TO-17	1401
<b>1,1,2-Trichloro-1,2,2-Trifluoroethane</b>	GC-MS	EPA TO-14A	5060
	GC-MS	EPA TO-15	5062
	GC-MS	EPA TO-17	1401
<b>Vinyl bromide</b>	GC-MS	EPA TO-15	5062
	GC-MS	EPA TO-17	1401
<b>Vinyl chloride</b>	GC-ELCD	40 CFR PART 60 1984 Method 18	4531
	GC-ELCD	40 CFR, PART 61 1984 APP. B METH 1	4532
	GC-MS	EPA TO-14A	5060
	GC-MS	EPA TO-15	5062
	GC-MS	EPA TO-17	1401
	GC-MS	EPA TO-2	1032

***Volatile Chlorinated Organics***

Analyte	Technology	Method Name	ELAP Method Number
<b>Benzyl chloride</b>	GC-ELCD	40 CFR PART 60 1984 Method 18	4531
	GC-MS	EPA TO-14A	5060
	GC-MS	EPA TO-15	5062
<b>Epichlorohydrin</b>	GC-ELCD	40 CFR PART 60 1984 Method 18	4531
	GC-MS	EPA TO-15	5062

<b>SUBJECT</b> Approved Methods: Air and Emissions	<b>DATE</b> 03/14/2022	<b>PAGE</b> 10 of 19	<b>Item No.</b> 180.4
---	---------------------------	-------------------------	--------------------------

***Polynuclear Aromatics***

Analyte	Technology	Method Name	ELAP Method Number
<b>Acenaphthene</b>	GC-MS	EPA TO-13A	1063
<b>Acenaphthylene</b>	GC-MS	EPA TO-13A	1063
<b>Anthracene</b>	GC-MS	EPA TO-13A	1063
<b>Benzo(a)anthracene</b>	GC-MS	EPA TO-13A	1063
<b>Benzo(b)fluoranthene</b>	GC-MS	EPA TO-13A	1063
<b>Benzo(g,h,i)perylene</b>	GC-MS	EPA TO-13A	1063
<b>Benzo(k)fluoranthene</b>	GC-MS	EPA TO-13A	1063
<b>Benzo(a)pyrene</b>	GC-MS	EPA TO-13A	1063
	GC-MS	EPA TO-14A	5060
<b>Chrysene</b>	GC-MS	EPA TO-13A	1063
<b>Dibenzo(a,h)anthracene</b>	GC-MS	EPA TO-13A	1063
<b>Fluoranthene</b>	GC-MS	EPA TO-13A	1063
<b>Fluorene</b>	GC-MS	EPA TO-13A	1063
<b>Indeno(1,2,3-cd)pyrene</b>	GC-MS	EPA TO-13A	1063
<b>Naphthalene</b>	GC-ELCD	40 CFR PART 60 1984 Method 18	4531
	GC-FID	NIOSH 1501	4405
	GC-MS	EPA TO-13A	1063
	GC-MS	EPA TO-14A	5060
	GC-MS	EPA TO-15	5062
	GC-MS	EPA TO-17	1401
<b>Phenanthrene</b>	GC-MS	EPA TO-13A	1063
<b>Pyrene</b>	GC-MS	EPA TO-13A	1063

***Purgeable Aromatics***

Analyte	Technology	Method Name	ELAP Method Number
<b>Benzene</b>	GC-ELCD	40 CFR PART 60 1984 Method 18	4531
	GC-ELCD	EPA TO-3	5063

<b>SUBJECT</b> Approved Methods: Air and Emissions	<b>DATE</b> 03/14/2022	<b>PAGE</b> 11 of 19	<b>Item No.</b> 180.4
---	---------------------------	-------------------------	--------------------------

***Purgeable Aromatics***

Analyte	Technology	Method Name	ELAP Method Number
<b>Benzene</b>	GC-FID	NIOSH 1501	4405
	GC-MS	EPA TO-1	1031
	GC-MS	EPA TO-14A	5060
	GC-MS	EPA TO-15	5062
	GC-MS	EPA TO-17	1401
	GC-MS	EPA TO-2	1032
<b>Bromobenzene</b>	GC-MS	EPA TO-17	1401
<b>Chlorobenzene</b>	GC-ELCD	40 CFR PART 60 1984 Method 18	4531
	GC-ELCD	EPA TO-3	5063
	GC-MS	EPA TO-14A	5060
	GC-MS	EPA TO-15	5062
	GC-MS	EPA TO-17	1401
<b>2-Chlorotoluene</b>	GC-MS	EPA TO-15	5062
	GC-MS	EPA TO-17	1401
<b>4-Chlorotoluene</b>	GC-MS	EPA TO-17	1401
<b>1,2-Dichlorobenzene</b>	GC-ELCD	40 CFR PART 60 1984 Method 18	4531
	GC-MS	EPA TO-14A	5060
	GC-MS	EPA TO-15	5062
	GC-MS	EPA TO-17	1401
<b>1,3-Dichlorobenzene</b>	GC-MS	EPA TO-14A	5060
	GC-MS	EPA TO-15	5062
	GC-MS	EPA TO-17	1401
<b>1,4-Dichlorobenzene</b>	GC-ELCD	40 CFR PART 60 1984 Method 18	4531
	GC-MS	EPA TO-14A	5060
	GC-MS	EPA TO-15	5062
	GC-MS	EPA TO-17	1401

<b>SUBJECT</b> Approved Methods: Air and Emissions	<b>DATE</b> 03/14/2022	<b>PAGE</b> 12 of 19	<b>Item No.</b> 180.4
---	---------------------------	-------------------------	--------------------------

***Purgeable Aromatics***

Analyte	Technology	Method Name	ELAP Method Number
<b>Ethyl benzene</b>	GC-ELCD	40 CFR PART 60 1984 Method 18	4531
	GC-FID	NIOSH 1501	4405
	GC-MS	EPA TO-1	1031
	GC-MS	EPA TO-14A	5060
	GC-MS	EPA TO-15	5062
	GC-MS	EPA TO-17	1401
<b>Isopropylbenzene</b>	GC-MS	EPA TO-15	5062
	GC-MS	EPA TO-17	1401
<b>p-Isopropyltoluene (P-Cymene)</b>	GC-MS	EPA TO-17	1401
<b>n-Butylbenzene</b>	GC-MS	EPA TO-17	1401
<b>n-Propylbenzene</b>	GC-MS	EPA TO-17	1401
<b>sec-Butylbenzene</b>	GC-MS	EPA TO-17	1401
<b>tert-Butylbenzene</b>	GC-MS	EPA TO-17	1401
<b>Styrene</b>	GC-FID	NIOSH 1501	4405
	GC-MS	EPA TO-14A	5060
	GC-MS	EPA TO-15	5062
	GC-MS	EPA TO-17	1401
<b>Toluene</b>	GC-ELCD	40 CFR PART 60 1984 Method 18	4531
	GC-FID	NIOSH 1501	4405
	GC-MS	EPA TO-1	1031
	GC-MS	EPA TO-14A	5060
	GC-MS	EPA TO-15	5062
	GC-MS	EPA TO-17	1401
	GC-MS	EPA TO-2	1032
<b>Total Xylenes</b>	GC-ELCD	40 CFR PART 60 1984 Method 18	4531
	GC-FID	NIOSH 1501	4405

<b>SUBJECT</b> Approved Methods: Air and Emissions	<b>DATE</b> 03/14/2022	<b>PAGE</b> 13 of 19	<b>Item No.</b> 180.4
---	---------------------------	-------------------------	--------------------------

***Purgeable Aromatics***

Analyte	Technology	Method Name	ELAP Method Number
<b>Total Xylenes</b>	GC-MS	EPA TO-1	1031
	GC-MS	EPA TO-14A	5060
	GC-MS	EPA TO-15	5062
	GC-MS	EPA TO-17	1401
<b>o-Xylene</b>	GC-FID	NIOSH 1501	4405
	GC-MS	EPA TO-15	5062
	GC-MS	EPA TO-17	1401
<b>m/p-Xylenes</b>	GC-FID	NIOSH 1501	4405
	GC-MS	EPA TO-15	5062
	GC-MS	EPA TO-17	1401
<b>1,2,3-Trichlorobenzene</b>	GC-MS	EPA TO-17	1401
<b>1,2,4-Trimethylbenzene</b>	GC-MS	EPA TO-14A	5060
	GC-MS	EPA TO-15	5062
	GC-MS	EPA TO-17	1401
<b>1,3,5-Trimethylbenzene</b>	GC-MS	EPA TO-14A	5060
	GC-MS	EPA TO-15	5062
	GC-MS	EPA TO-17	1401

***Chlorophenoxy Acid Pesticides***

Analyte	Technology	Method Name	ELAP Method Number
<b>2,4-D</b>	GC-ECD	EPA TO-10A	1113
	GC-ECD	EPA TO-4A	1184

***Miscellaneous***

Analyte	Technology	Method Name	ELAP Method Number
<b>Asbestos</b>	TEM	40 CFR 763 APX A No. III	4588
	TEM	NIOSH 7402	4592
	TEM	YAMATE,AGARWAL GIBB	4590

<b>SUBJECT</b> Approved Methods: Air and Emissions	<b>DATE</b> 03/14/2022	<b>PAGE</b> 14 of 19	<b>Item No.</b> 180.4
---	---------------------------	-------------------------	--------------------------

**Miscellaneous**

Analyte	Technology	Method Name	ELAP Method Number
<b>Fibers</b>	PCM	NIOSH 7400 A RULES	4587
<b>Formaldehyde</b>	GC-MS	EPA TO-15	5062
	HPLC-FLUOR	EPA IP-6A	1112
<b>Nitrogen Dioxide</b>	HPLC-UV	EPA TO-11A	1400
	COLOR	40 CFR 60 Method 7	4514
	COLOR	40 CFR 60 Method 7B	4392
	COLOR	40 CFR 60 Method 7C	4393
	COLOR	40 CFR 60 Method 7E	4701
	IC	40 CFR 60 Method 7A	4515
	IC	40 CFR 60 Method 7D	4394
<b>Nitrogen Oxide</b>	COLOR	40 CFR 60 Method 7	4514
	COLOR	40 CFR 60 Method 7B	4392
	COLOR	40 CFR 60 Method 7C	4393
	COLOR	40 CFR 60 Method 7E	4701
	IC	40 CFR 60 Method 7A	4515
<b>Sulfuric Acid</b>	IC	40 CFR 60 Method 7D	4394
	TITR	40 CFR 60 Method 8	1036
<b>Sulfur Dioxide</b>	COLOR	40 CFR 60 Method 6C	6046
	GRAV	40 CFR 60 Method 6A	4381
	GRAV	40 CFR 60 Method 6B	4382
	TITR	40 CFR 60 Method 6	4517
	TITR	40 CFR 60 Method 8	1036
<b>Particulate Matter</b>	GRAV	40 CFR 60 APP A Method 5	4516
	GRAV	40 CFR PART 50 APP B	4064
	GRAV	40 CFR PART 50 APP J (PM10)	4071
	GRAV	40 CFR PART 50 APP L (PM2.5)	4545

<b>SUBJECT</b> Approved Methods: Air and Emissions	<b>DATE</b> 03/14/2022	<b>PAGE</b> 15 of 19	<b>Item No.</b> 180.4
---	---------------------------	-------------------------	--------------------------

**Miscellaneous**

Analyte	Technology	Method Name	ELAP Method Number
<b>Particulate Matter</b>	GRAV	40 CFR PART 50 APP O (PM10-2.5)	4546
	GRAV	EPA 17	9930
	GRAV	EPA 201	9927
	GRAV	EPA 201A	9928
	GRAV	EPA 5	9929
	GRAV	NIOSH 0500	4535
<b>Radon</b>	99	Alpha Track	7035
	PROP CNT	Charcoal canister	7036
	PROP CNT	Continuous Radon Monitor	7037
	PROP CNT	Continuous Working level monitor	7038
	SCIN CNT	Charcoal - Liquid Scintillation	7033
	VOLT	Electret	7034

**Fuels**

Analyte	Technology	Method Name	ELAP Method Number
<b>B.T.U.</b>	99	ASTM D1989	1106
	99	ASTM D2015-77	4527
	99	ASTM D240	1105
	99	ASTM D5865	5865
	TITR	ASTM D4239	1104
<b>Percent Sulfur</b>	TITR	ASTM D1552	4530
	TITR	ASTM D4239	1104
	XRF	ASTM D2622	2653
	XRF	ASTM D4294	2493

**Volatile Organics**

Analyte	Technology	Method Name	ELAP Method Number
<b>Acetaldehyde</b>	GC-ELCD	40 CFR PART 60 1984 Method 18	4531

<b>SUBJECT</b> Approved Methods: Air and Emissions	<b>DATE</b> 03/14/2022	<b>PAGE</b> 16 of 19	<b>Item No.</b> 180.4
---	---------------------------	-------------------------	--------------------------

***Volatile Organics***

Analyte	Technology	Method Name	ELAP Method Number
<b>Acetaldehyde</b>	GC-MS	EPA TO-15	5062
	GC-MS	EPA TO-17	1401
	HPLC-UV	EPA TO-11A	1400
<b>Acetone</b>	GC-ELCD	40 CFR PART 60 1984 Method 18	4531
	GC-MS	EPA TO-15	5062
	GC-MS	EPA TO-17	1401
	HPLC-UV	EPA TO-11A	1400
<b>Acrolein (Propenal)</b>	GC-MS	EPA TO-15	5062
	HPLC-UV	EPA TO-11A	1400
<b>Benzaldehyde</b>	HPLC-UV	EPA TO-11A	1400
<b>1,3-Butadiene</b>	GC-MS	EPA TO-14A	5060
	GC-MS	EPA TO-15	5062
	GC-MS	EPA TO-17	1401
<b>2-Butanone (Methylethyl ketone)</b>	GC-MS	EPA TO-15	5062
	GC-MS	EPA TO-17	1401
<b>Butyraldehyde</b>	HPLC-UV	EPA TO-11A	1400
<b>Carbon Disulfide</b>	GC-MS	EPA TO-15	5062
	GC-MS	EPA TO-17	1401
<b>Crotonaldehyde</b>	HPLC-UV	EPA TO-11A	1400
<b>Cyclohexane</b>	GC-MS	EPA TO-15	5062
	GC-MS	EPA TO-17	1401
<b>1,2-Dichlorotetrafluoroethane</b>	GC-MS	EPA TO-14A	5060
	GC-MS	EPA TO-15	5062
<b>2,5-Dimethylbenzaldehyde</b>	HPLC-UV	EPA TO-11A	1400
<b>1,4-Dioxane</b>	GC-ELCD	40 CFR PART 60 1984 Method 18	4531
	GC-MS	EPA TO-15	5062



<b>SUBJECT</b> Approved Methods: Air and Emissions	<b>DATE</b> 03/14/2022	<b>PAGE</b> 17 of 19	<b>Item No.</b> 180.4
---	---------------------------	-------------------------	--------------------------

***Volatile Organics***

Analyte	Technology	Method Name	ELAP Method Number
<b>1,4-Dioxane</b>	GC-MS	EPA TO-17	1401
<b>Ethylene oxide</b>	GC-MS	EPA TO-15	5062
<b>Hexanaldehyde</b>	HPLC-UV	EPA TO-11A	1400
<b>Hexane</b>	GC-ELCD	40 CFR PART 60 1984 Method 18	4531
	GC-MS	EPA TO-15	5062
	GC-MS	EPA TO-17	1401
<b>n-Heptane</b>	GC-MS	EPA TO-15	5062
<b>Isopropanol</b>	GC-MS	EPA TO-15	5062
	GC-MS	EPA TO-17	1401
<b>Isovaleraldehyde</b>	HPLC-UV	EPA TO-11A	1400
<b>Methanol</b>	GC-ELCD	40 CFR PART 60 1984 Method 18	4531
	GC-MS	EPA TO-15	5062
	GC-MS	EPA TO-17	1401
<b>Methyl iodide</b>	GC-MS	EPA TO-15	5062
<b>4-Methyl-2-Pentanone</b>	GC-MS	EPA TO-15	5062
	GC-MS	EPA TO-17	1401
<b>Methyl tert-butyl ether</b>	GC-MS	EPA TO-15	5062
	GC-MS	EPA TO-17	1401
<b>Nitrobenzene</b>	GC-MS	EPA TO-15	5062
	GC-MS	EPA TO-17	1401
<b>Propionaldehyde</b>	GC-MS	EPA TO-15	5062
	HPLC-UV	EPA TO-11A	1400
<b>tert-butyl alcohol</b>	GC-MS	EPA TO-15	5062
<b>2,2,4-Trimethylpentane</b>	GC-MS	EPA TO-15	5062
	GC-MS	EPA TO-17	1401
<b>m-Tolualdehyde</b>	HPLC-UV	EPA TO-11A	1400

<b>SUBJECT</b> Approved Methods: Air and Emissions	<b>DATE</b> 03/14/2022	<b>PAGE</b> 18 of 19	<b>Item No.</b> 180.4
---	---------------------------	-------------------------	--------------------------

***Volatile Organics***

Analyte	Technology	Method Name	ELAP Method Number
<b>o-Tolualdehyde</b>	HPLC-UV	EPA TO-11A	1400
<b>p-Tolualdehyde</b>	HPLC-UV	EPA TO-11A	1400
<b>Valeraldehyde</b>	HPLC-UV	EPA TO-11A	1400
<b>Vinyl acetate</b>	GC-MS	EPA TO-15	5062

***Acrylates***

Analyte	Technology	Method Name	ELAP Method Number
<b>Acetonitrile</b>	GC-ELCD	40 CFR PART 60 1984 Method 18	4531
	GC-MS	EPA TO-15	5062
	GC-MS	EPA TO-17	1401
<b>Acrylonitrile</b>	GC-MS	EPA TO-15	5062
	GC-MS	EPA TO-17	1401
<b>Ethyl acrylate</b>	GC-MS	EPA TO-15	5062
	GC-MS	EPA TO-17	1401
<b>Methyl methacrylate</b>	GC-MS	EPA TO-15	5062
	GC-MS	EPA TO-17	1401

***Dioxins and Furans***

Analyte	Technology	Method Name	ELAP Method Number
<b>2,3,7,8-Tetrachlorodibenzofuran</b>	GC-HRMS	EPA 23	4340
<b>2,3,4,7,8-Pentachlorodibenzofuran</b>	GC-HRMS	EPA 23	4340
<b>1,2,3,7,8-Pentachlorodibenzofuran</b>	GC-HRMS	EPA 23	4340
<b>1,2,3,4,7,8-Hexachlorodibenzofuran</b>	GC-HRMS	EPA 23	4340
<b>1,2,3,6,7,8-Hexachlorodibenzofuran</b>	GC-HRMS	EPA 23	4340
<b>1,2,3,7,8,9-Hexachlorodibenzofuran</b>	GC-HRMS	EPA 23	4340
<b>2,3,4,6,7,8-Hexachlorodibenzofuran</b>	GC-HRMS	EPA 23	4340
<b>1,2,3,4,6,7,8-Heptachlorodibenzofuran</b>	GC-HRMS	EPA 23	4340
<b>1,2,3,4,7,8,9-Heptachlorodibenzofuran</b>	GC-HRMS	EPA 23	4340

<b>SUBJECT</b> Approved Methods: Air and Emissions	<b>DATE</b> 03/14/2022	<b>PAGE</b> 19 of 19	<b>Item No.</b> 180.4
---	---------------------------	-------------------------	--------------------------

***Dioxins and Furans***

Analyte	Technology	Method Name	ELAP Method Number
<b>1,2,3,4,6,7,8,9-Octachlorodibenzofuran</b>	GC-HRMS	EPA 23	4340
<b>2,3,7,8-Tetrachlorodibenzo-p-dioxin</b>	GC-HRMS	EPA 23	4340
<b>1,2,3,7,8-Pentachlorodibenzo-p-dioxin</b>	GC-HRMS	EPA 23	4340
<b>1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin</b>	GC-HRMS	EPA 23	4340
<b>1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin</b>	GC-HRMS	EPA 23	4340
<b>1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin</b>	GC-HRMS	EPA 23	4340
<b>1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin</b>	GC-HRMS	EPA 23	4340
<b>1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin</b>	GC-HRMS	EPA 23	4340