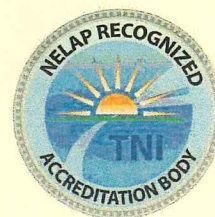


OREGON

Environmental Laboratory Accreditation Program



NELAP Recognized

RJ Lee Group, Inc./Columbia Basin Analytical Laboratories

4061

2710 N. 20th Ave.

Pasco, WA 99301

IS GRANTED APPROVAL BY ORELAP UNDER THE 2009 TNI STANDARDS, TO PERFORM ANALYSES ON ENVIRONMENTAL SAMPLES IN MATRICES AS LISTED BELOW :

<i>Air</i>	<i>Drinking Water</i>	<i>Non Potable Water</i>	<i>Solids and Chem. Waste</i>	<i>Tissue</i>
Chemistry	Chemistry	Chemistry	Chemistry	

AND AS RECORDED IN THE LIST OF APPROVED ANALYTES, METHODS, ANALYTICAL TECHNIQUES, AND FIELDS OF TESTING ISSUED CONCURRENTLY WITH THIS CERTIFICATE AND REVISED AS NECESSARY.

ACCREDITED STATUS DEPENDS ON SUCCESSFUL ONGOING PARTICIPATION IN THE PROGRAM AND CONTINUED COMPLIANCE WITH THE STANDARDS.

CUSTOMERS ARE URGED TO VERIFY THE LABORATORY'S CURRENT ACCREDITATION STATUS IN OREGON.

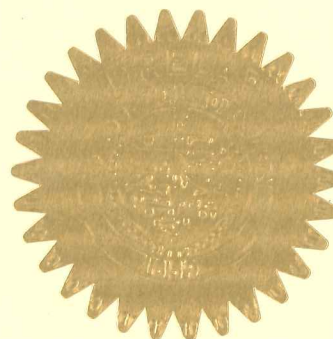
Stephanie Ringsage

Stephanie Ringsage
Oregon State Public Health Laboratory
ORELAP Program Manager
7202 NE Evergreen Parkway, Suite 100
Hillsboro, OR 97124

EFFECTIVE DATE : 02/24/2020

EXPIRATION DATE : 02/23/2021

Certificate No : 4061 - 007





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ORELAP Fields of Accreditation

ORELAP ID: 4061

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MATRIX	Reference	Code	Analyte	Code	Description
--------	-----------	------	---------	------	-------------

Air

EPA TO-11A				10311805	Determination of Formaldehyde in Ambient Air Using Adsorbent Cartridge Followed by High Performance Liquid Chromatography (HPLC)
	6110		2,5-Dimethylbenzaldehyde		
	4300		Acetaldehyde		
	4315		Acetone		
	4325		Acrolein (Propenal)		
	5570		Benzaldehyde		
	4430		Butylaldehyde (Butanal)		
	4545		Crotonaldehyde		
	4815		Formaldehyde		
	3825		Hexanaldehyde (Hexanal)		
	6330		Isovaleraldehyde		
	5125		m-Tolualdehyde (1,3-Tolualdehyde)		
	6755		o-Tolualdehyde (1,2-Tolualdehyde)		
	3965		Propionaldehyde (Propanal)		
	6760		p-Tolualdehyde (1,4-Tolualdehyde)		
	4040		Valeraldehyde (Pentanal, Pentanaldehyde)		
EPA TO-15				10248803	VOCs collected in Canisters by GC/MS
	5105		1,1,1,2-Tetrachloroethane		
	5195		1,1,1-Trichloro-2,2,2-trifluoroethane (Freon 113a)		
	5160		1,1,1-Trichloroethane		
	5110		1,1,2,2-Tetrachloroethane		
	5185		1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)		
	5165		1,1,2-Trichloroethane		
	4630		1,1-Dichloroethane		
	4640		1,1-Dichloroethylene		
	4670		1,1-Dichloropropene		
	5150		1,2,3-Trichlorobenzene		
	5180		1,2,3-Trichloropropane		
	5182		1,2,3-Trimethylbenzene		
	5155		1,2,4-Trichlorobenzene		
	5210		1,2,4-Trimethylbenzene		
	4570		1,2-Dibromo-3-chloropropane (DBCP)		
	4585		1,2-Dibromoethane (EDB, Ethylene dibromide)		
	4695		1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon-114)		



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Air

EPA TO-15

- 4610 1,2-Dichlorobenzene
- 4635 1,2-Dichloroethane (Ethylene dichloride)
- 4655 1,2-Dichloropropane
- 9396 1,2-Epoxybutane
- 5215 1,3,5-Trimethylbenzene
- 9318 1,3-Butadiene
- 4615 1,3-Dichlorobenzene
- 4660 1,3-Dichloropropane
- 4676 1,3-Diethylbenzene
- 9576 1,3-Propane sultone
- 4620 1,4-Dichlorobenzene
- 4735 1,4-Dioxane (1,4- Diethyleneoxide)
- 4917 1-Butene
- 4477 1-Chloro-1,2,2-trifluoroethane (Freon 133)
- 4830 1-Heptene
- 4832 1-Hexene
- 4833 1-Pentene
- 4836 1-Propene (Propylene)
- 5220 2,2,4-Trimethylpentane
- 5222 2,2-Dichloro-1,1,1-trifluoroethane (Freon 123)
- 4665 2,2-Dichloropropane
- 4666 2,2-Dimethylbutane
- 4667 2,3,4-Trimethylpentane
- 4669 2,3-Dimethylbutane
- 4687 2,3-Dimethylheptane
- 4671 2,3-Dimethylpentane
- 4672 2,4-Dimethylpentane
- 6026 2,5-Dimethylfuran
- 4410 2-Butanone (Methyl ethyl ketone, MEK)
- 4535 2-Chlorotoluene
- 4538 2-Ethyltoluene
- 4860 2-Hexanone (MBK)
- 4863 2-Hexene
- 4934 2-Methyl-2-Butene
- 4937 2-Methylbutadiene (Isoprene)
- 4938 2-Methylbutane (Isopentane)
- 4939 2-Methylheptane
- 4946 2-Methylhexane
- 6385 2-Methylnaphthalene
- 4941 2-Methylpentane (Isohexane)
- 6400 2-Methylphenol (o-Cresol)
- 4942 2-methylpropane (Isobutane)



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Air

EPA TO-15

- 5020 2-Nitropropane
- 4531 3-Ethyltoluene (1-Methyl-3-ethylbenzene)
- 4529 3-Methyl-1-Butene
- 4532 3-Methylheptane
- 4533 3-Methylhexane
- 4534 3-Methylpentane
- 4540 4-Chlorotoluene
- 4542 4-Ethyltoluene
- 4910 4-Isopropyltoluene (p-Cymene)
- 4913 4-Methyl-1-Pentene
- 4995 4-Methyl-2-pentanone (MIBK)
- 5001 4-Phenylcyclohexane (4-PCH)
- 4300 Acetaldehyde
- 4315 Acetone
- 4320 Acetonitrile
- 5510 Acetophenone
- 4323 Acetylene
- 4325 Acrolein (Propenal)
- 4330 Acrylamide
- 4335 Acrylic acid
- 4340 Acrylonitrile
- 4355 Allyl chloride (3-Chloropropene)
- 4357 alpha-Methylstyrene
- 6698 alpha-Pinene
- 3792 APH Aliphatics C5-C8
- 3793 APH Aliphatics C9-C12
- 3794 APH Aromatics C9-C10
- 4375 Benzene
- 5635 Benzyl chloride
- 5075 beta-Propiolactone
- 5765 bis(2-Chloroethyl) ether
- 5780 bis(2-Chloroisopropyl) ether
- 4515 bis(Chloromethyl)ether
- 4385 Bromobenzene
- 4390 Bromochloromethane
- 4395 Bromodichloromethane
- 4398 Bromoethene
- 4400 Bromoform
- 4403 Butyl acetate
- 4450 Carbon disulfide
- 4455 Carbon tetrachloride
- 7215 Carbonyl sulfide
- 7235 Catechol



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Air

EPA TO-15

- 9336 Chloroacetic acid
- 4475 Chlorobenzene
- 4575 Chlorodibromomethane
- 4577 Chlorodifluoromethane (Freon-22)
- 4485 Chloroethane (Ethyl chloride)
- 4505 Chloroform
- 4525 Chloroprene (2-Chloro-1,3-butadiene)
- 4705 cis & trans-1,2-Dichloroethene
- 4645 cis-1,2-Dichloroethylene
- 4680 cis-1,3-Dichloropropene
- 4602 cis-2-Butene
- 4604 cis-2-Hexene
- 4603 cis-2-pentene
- 7325 Cresol/Cresylic acid (mixed isomers)
- 4555 Cyclohexane
- 4560 Cyclohexanone
- 4562 Cyclopentane
- 4563 Cyclopentene
- 4595 Dibromomethane (Methylene bromide)
- 4625 Dichlorodifluoromethane (Freon-12)
- 4627 Dichlorofluoromethane (Freon 21)
- 4725 Diethyl ether
- 6080 Diethyl sulfate
- 9375 Di-isopropylether (DIPE)
- 7480 Dimethyl carbamoyl chloride
- 7485 Dimethyl sulfate
- 6208 d-Limonene
- 4745 Epichlorohydrin (1-Chloro-2,3-epoxypropane)
- 4747 Ethane
- 4750 Ethanol
- 4752 Ethene
- 4755 Ethyl acetate
- 4760 Ethyl acrylate
- 6250 Ethyl carbamate (Urethane)
- 4765 Ethylbenzene
- 4795 Ethylene oxide
- 4770 Ethyl-t-butylether (ETBE) (2-Ethoxy-2-methylpropane)
- 4815 Formaldehyde
- 9408 Gasoline range organics (GRO)
- 4835 Hexachlorobutadiene
- 4840 Hexachloroethane
- 9427 Hexamethylcyclotrisiloxane



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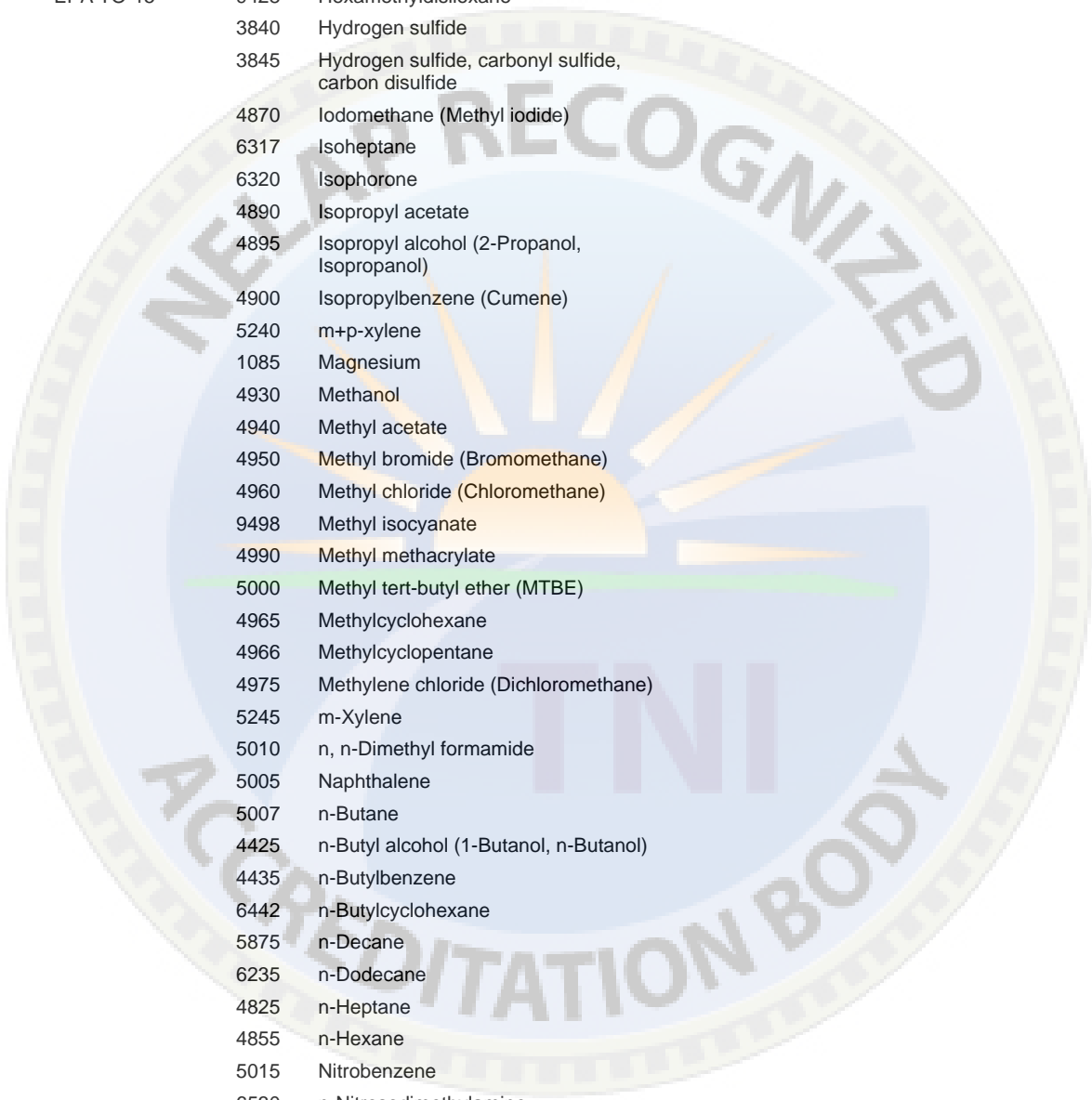
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Air

EPA TO-15

- 9428 Hexamethyldisiloxane
- 3840 Hydrogen sulfide
- 3845 Hydrogen sulfide, carbonyl sulfide, carbon disulfide
- 4870 Iodomethane (Methyl iodide)
- 6317 Isoheptane
- 6320 Isophorone
- 4890 Isopropyl acetate
- 4895 Isopropyl alcohol (2-Propanol, Isopropanol)
- 4900 Isopropylbenzene (Cumene)
- 5240 m+p-xylene
- 1085 Magnesium
- 4930 Methanol
- 4940 Methyl acetate
- 4950 Methyl bromide (Bromomethane)
- 4960 Methyl chloride (Chloromethane)
- 9498 Methyl isocyanate
- 4990 Methyl methacrylate
- 5000 Methyl tert-butyl ether (MTBE)
- 4965 Methylcyclohexane
- 4966 Methylcyclopentane
- 4975 Methylene chloride (Dichloromethane)
- 5245 m-Xylene
- 5010 n, n-Dimethyl formamide
- 5005 Naphthalene
- 5007 n-Butane
- 4425 n-Butyl alcohol (1-Butanol, n-Butanol)
- 4435 n-Butylbenzene
- 6442 n-Butylcyclohexane
- 5875 n-Decane
- 6235 n-Dodecane
- 4825 n-Heptane
- 4855 n-Hexane
- 5015 Nitrobenzene
- 6530 n-Nitrosodimethylamine
- 6555 n-Nitrosomorpholine
- 6520 n-Nitroso-n-methylurea
- 5026 n-Nonane
- 5027 n-Octane
- 5028 n-Pentane
- 5029 n-Propane
- 5055 n-Propanol
- 5090 n-Propylbenzene





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Air	EPA TO-15	6747	n-Undecane	10312217	Hydrocarbons in Ambient Air Using WMS Passive Sampling Tubes
		7522	Octamethylcyclotetrasiloxane		
		9613	Octamethyltrisiloxane		
		5250	o-Xylene		
		5253	p-Diethylbenzene		
		9614	Pentamethyldisiloxane		
		7983	Petroleum Volatile Organic Compounds (PVOC)		
		6625	Phenol		
		7995	Phosgene		
		6935	Propanal (Propionaldehyde)		
		9579	Propylene oxide		
		5255	p-Xylene		
		4440	sec-Butylbenzene		
		5100	Styrene		
		9594	Styrene oxide		
		4370	T-amylmethylether (TAME)		
		4420	tert-Butyl alcohol		
		4445	tert-Butylbenzene		
		5115	Tetrachloroethylene (Perchloroethylene)		
		5120	Tetrahydrofuran (THF)		
5140	Toluene				
1908	Total Phosphate				
4700	trans-1,2-Dichloroethylene				
4685	trans-1,3-Dichloropropylene				
4605	trans-1,4-Dichloro-2-butene				
4607	trans-2-Butene				
4606	trans-2-Hexene				
4608	trans-2-pentene				
5170	Trichloroethene (Trichloroethylene)				
5175	Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)				
5202	Trifluoromethane (Freon 23)				
5225	Vinyl acetate				
5230	Vinyl bromide (Bromoethane)				
5235	Vinyl chloride				
5260	Xylene (total)				
	EPA TO-17 Modified 2				
		5105	1,1,1,2-Tetrachloroethane		
		5160	1,1,1-Trichloroethane		
		5110	1,1,2,2-Tetrachloroethane		
		5185	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)		
		5165	1,1,2-Trichloroethane		



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Air

EPA TO-17
Modified 2

- 4630 1,1-Dichloroethane
- 4640 1,1-Dichloroethylene
- 4670 1,1-Dichloropropene
- 5150 1,2,3-Trichlorobenzene
- 5180 1,2,3-Trichloropropane
- 5155 1,2,4-Trichlorobenzene
- 5210 1,2,4-Trimethylbenzene
- 4570 1,2-Dibromo-3-chloropropane (DBCP)
- 4585 1,2-Dibromoethane (EDB, Ethylene dibromide)
- 4695 1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon-114)
- 4610 1,2-Dichlorobenzene
- 4635 1,2-Dichloroethane (Ethylene dichloride)
- 4655 1,2-Dichloropropane
- 5215 1,3,5-Trimethylbenzene
- 9318 1,3-Butadiene
- 4615 1,3-Dichlorobenzene
- 4660 1,3-Dichloropropane
- 4620 1,4-Dichlorobenzene
- 4735 1,4-Dioxane (1,4- Diethyleneoxide)
- 9546 1,4-Dithiane
- 6380 1-Methylnaphthalene
- 5812 2- Chloropropane
- 5220 2,2,4-Trimethylpentane
- 4665 2,2-Dichloropropane
- 4410 2-Butanone (Methyl ethyl ketone, MEK)
- 4500 2-Chloroethyl vinyl ether
- 4535 2-Chlorotoluene
- 4860 2-Hexanone (MBK)
- 4938 2-Methylbutane (Isopentane)
- 6385 2-Methylnaphthalene
- 4540 4-Chlorotoluene
- 4542 4-Ethyltoluene
- 4910 4-Isopropyltoluene (p-Cymene)
- 4995 4-Methyl-2-pentanone (MIBK)
- 5500 Acenaphthene
- 5505 Acenaphthylene
- 4300 Acetaldehyde
- 4315 Acetone
- 4320 Acetonitrile
- 4340 Acrylonitrile
- 4355 Allyl chloride (3-Chloropropene)
- 6698 alpha-Pinene



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Air

EPA TO-17
Modified 2

- 5555 Anthracene
- 4375 Benzene
- 5635 Benzyl chloride
- 4385 Bromobenzene
- 4390 Bromochloromethane
- 4395 Bromodichloromethane
- 4400 Bromoform
- 4450 Carbon disulfide
- 4455 Carbon tetrachloride
- 4475 Chlorobenzene
- 4575 Chlorodibromomethane
- 4485 Chloroethane (Ethyl chloride)
- 4505 Chloroform
- 4645 cis-1,2-Dichloroethylene
- 4680 cis-1,3-Dichloropropene
- 4600 cis-1,4-Dichloro-2-butene
- 4555 Cyclohexane
- 4595 Dibromomethane (Methylene bromide)
- 4625 Dichlorodifluoromethane (Freon-12)
- 9375 Di-isopropylether (DIPE)
- 6208 d-Limonene
- 4750 Ethanol
- 4755 Ethyl acetate
- 4760 Ethyl acrylate
- 4765 Ethylbenzene
- 4770 Ethyl-t-butylether (ETBE) (2-Ethoxy-2-methylpropane)
- 6265 Fluoranthene
- 6270 Fluorene
- 6774 Halothane (2-Bromo-2-chloro-1,1,1-trifluoroethane)
- 4835 Hexachlorobutadiene
- 4870 Iodomethane (Methyl iodide)
- 4895 Isopropyl alcohol (2-Propanol, Isopropanol)
- 4900 Isopropylbenzene (Cumene)
- 5240 m+p-xylene
- 4950 Methyl bromide (Bromomethane)
- 4960 Methyl chloride (Chloromethane)
- 4990 Methyl methacrylate
- 5000 Methyl tert-butyl ether (MTBE)
- 4965 Methylcyclohexane
- 4975 Methylene chloride (Dichloromethane)
- 5005 Naphthalene



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Air	EPA TO-17 Modified 2	5007	n-Butane
		4435	n-Butylbenzene
		4825	n-Heptane
		4855	n-Hexane
		5027	n-Octane
		5090	n-Propylbenzene
		5250	o-Xylene
		6615	Phenanthrene
		6935	Propanal (Propionaldehyde)
		307	Propylene
		6665	Pyrene
		4440	sec-Butylbenzene
		5100	Styrene
		4370	T-amylmethylether (TAME)
		4420	tert-Butyl alcohol
		4445	tert-Butylbenzene
		5115	Tetrachloroethylene (Perchloroethylene)
		5120	Tetrahydrofuran (THF)
		5140	Toluene
		4700	trans-1,2-Dichloroethylene
		4685	trans-1,3-Dichloropropylene
		4605	trans-1,4-Dichloro-2-butene
		5170	Trichloroethene (Trichloroethylene)
		5175	Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)
		5225	Vinyl acetate
		5230	Vinyl bromide (Bromoethane)
		5235	Vinyl chloride
		5260	Xylene (total)

Drinking Water

EPA 120.1	10006209	Conductance - Specific @ 25 C
	1610	Conductivity
EPA 200.7 4.4	10013806	ICP - metals
	1000	Aluminum
	1005	Antimony
	1010	Arsenic
	1015	Barium
	1020	Beryllium
	1025	Boron
	1030	Cadmium
	1040	Chromium
	1050	Cobalt
	1070	Iron



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Drinking Water

EPA 200.7 4.4

- 1075 Lead
- 1090 Manganese
- 1095 Mercury
- 1100 Molybdenum
- 1105 Nickel
- 1140 Selenium
- 1150 Silver
- 1160 Strontium
- 1175 Tin
- 1185 Vanadium
- 1190 Zinc

EPA 200.8

10014401

ICP/MS - metals

- 1000 Aluminum
- 1005 Antimony
- 1010 Arsenic
- 1015 Barium
- 1020 Beryllium
- 1025 Boron
- 1030 Cadmium
- 1040 Chromium
- 1055 Copper
- 1070 Iron
- 1075 Lead
- 1090 Manganese
- 1095 Mercury
- 1100 Molybdenum
- 1105 Nickel
- 1140 Selenium
- 1150 Silver
- 1165 Thallium
- 1185 Vanadium
- 1190 Zinc

EPA 300.0

10053006

Ion chromatography - anions.

- 1575 Chloride
- 1730 Fluoride
- 1810 Nitrate as N
- 1820 Nitrate plus Nitrite as N
- 1870 Orthophosphate as P
- 2000 Sulfate

EPA 6010

10155201

ICP - AES

- 1000 Aluminum
- 1005 Antimony



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Drinking Water

EPA 6010	1010	Arsenic	10156000	Inductively Coupled Plasma-Mass Spectrometry
	1015	Barium		
	1020	Beryllium		
	1025	Boron		
	1030	Cadmium		
	1040	Chromium		
	1050	Cobalt		
	1070	Iron		
	1075	Lead		
	1090	Manganese		
	1100	Molybdenum		
	1105	Nickel		
	1140	Selenium		
	1150	Silver		
	1185	Vanadium		
1190	Zinc			
EPA 6020	1000	Aluminum	10244607	Soil and Waste pH
	1005	Antimony		
	1010	Arsenic		
	1015	Barium		
	1020	Beryllium		
	1030	Cadmium		
	1040	Chromium		
	1055	Copper		
	1075	Lead		
	1090	Manganese		
	1095	Mercury		
	1100	Molybdenum		
	1140	Selenium		
	1150	Silver		
	1165	Thallium		
1185	Vanadium			
1190	Zinc			
EPA 9045D	1900	pH	10199005	Determination of Inorganic Anions by Ion Chromatography
EPA 9056	1575	Chloride	10199005	Determination of Inorganic Anions by Ion Chromatography
	1730	Fluoride		
	1805	Nitrate		
	1870	Orthophosphate as P		
	2000	Sulfate		



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Drinking Water

EPA 9056	1825	Total nitrate+nitrite		
SM 2510 B 18th ED			20047807	Conductivity by Probe
	1610	Conductivity		
SM 4500-H+ B 18th ED			20022406	pH by Electrometric Method
	1900	pH		

Non-Potable Water

EPA 120.1			10006209	Conductance - Specific @ 25 C
	1610	Conductivity		
EPA 180.1			10011402	Turbidity - Nephelometric
	2055	Turbidity		
EPA 200.7 4.4			10013806	ICP - metals

- 1000 Aluminum
- 1005 Antimony
- 1010 Arsenic
- 1015 Barium
- 1020 Beryllium
- 1025 Boron
- 1030 Cadmium
- 1040 Chromium
- 1055 Copper
- 1070 Iron
- 1075 Lead
- 1090 Manganese
- 1095 Mercury
- 1100 Molybdenum
- 1105 Nickel
- 1140 Selenium
- 1150 Silver
- 1165 Thallium
- 3035 Uranium
- 1185 Vanadium
- 1190 Zinc

EPA 200.8 5.4			10014605	Metals by ICP-MS
---------------	--	--	----------	------------------

- 1000 Aluminum
- 1005 Antimony
- 1010 Arsenic
- 1015 Barium
- 1020 Beryllium
- 1025 Boron
- 1030 Cadmium
- 1040 Chromium



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Non-Potable Water

EPA 200.8 5.4

- 1050 Cobalt
- 1055 Copper
- 1070 Iron
- 1075 Lead
- 1085 Magnesium
- 1090 Manganese
- 1095 Mercury
- 1100 Molybdenum
- 1105 Nickel
- 1125 Potassium
- 1140 Selenium
- 1145 Silicon
- 1150 Silver
- 1155 Sodium
- 1160 Strontium
- 1165 Thallium
- 1175 Tin
- 1185 Vanadium
- 1190 Zinc

EPA 6010C
EPA 6010C

10155905

Inductively Coupled Plasma - Atomic Emission Spectrometry

- 1000 Aluminum
- 1005 Antimony
- 1010 Arsenic
- 1015 Barium
- 1020 Beryllium
- 1025 Boron
- 1030 Cadmium
- 1035 Calcium
- 1040 Chromium
- 1050 Cobalt
- 1055 Copper
- 1063 Indium
- 1070 Iron
- 1075 Lead
- 1085 Magnesium
- 1090 Manganese
- 1095 Mercury
- 1100 Molybdenum
- 1105 Nickel
- 1125 Potassium
- 1140 Selenium
- 1150 Silver
- 1155 Sodium



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Non-Potable Water

EPA 6010C	1160	Strontium		
EPA 6010C	2017	Sulfur		
	1165	Thallium		
	1175	Tin		
	1180	Titanium		
	1185	Vanadium		
	1190	Zinc		
EPA 6020	10156000		Inductively Coupled Plasma-Mass Spectrometry	
	1000	Aluminum		
	1005	Antimony		
	1010	Arsenic		
	1015	Barium		
	1020	Beryllium		
	1025	Boron		
	1030	Cadmium		
	1040	Chromium		
	1050	Cobalt		
	1055	Copper		
	1070	Iron		
	1075	Lead		
	1085	Magnesium		
	1090	Manganese		
	1095	Mercury		
	1100	Molybdenum		
	1105	Nickel		
	1125	Potassium		
	1140	Selenium		
	1150	Silver		
	1155	Sodium		
	1160	Strontium		
	1165	Thallium		
	1175	Tin		
	1180	Titanium		
	1185	Vanadium		
	1190	Zinc		
EPA 7196A	10162400		Chromium Hexavalent colorimetric	
	1045	Chromium VI		
SM 2130 B 18th ED	20042006		Turbidity by Nephelometric Determination	
	2055	Turbidity		
SM 2510 B 18th ED	20047807		Conductivity by Probe	
	1610	Conductivity		



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Non-Potable	SM 3500-Cr B-2011	20066266	Chromium by Colorimetric Method
	1045 Chromium VI		
Solids	EPA 120.1	10006209	Conductance - Specific @ 25 C
	1610 Conductivity		
	EPA 1311	10118806	Toxicity Characteristic Leaching Procedure
	8031 Extraction/Preparation		
	EPA 180.1	10011402	Turbidity - Nephelometric
	2055 Turbidity		
	EPA 200.7 4.4	10013806	ICP - metals
	1000 Aluminum		
	1005 Antimony		
	1010 Arsenic		
	1015 Barium		
	1020 Beryllium		
	1025 Boron		
	1030 Cadmium		
	1035 Calcium		
	1040 Chromium		
	1050 Cobalt		
	1055 Copper		
	1070 Iron		
	1075 Lead		
	1085 Magnesium		
1095 Mercury			
1100 Molybdenum			
1105 Nickel			
1125 Potassium			
1140 Selenium			
1150 Silver			
1155 Sodium			
1160 Strontium			
1165 Thallium			
1175 Tin			
1180 Titanium			
1755 Total hardness as CaCO3			
1185 Vanadium			
1190 Zinc			
EPA 200.7 5	10014003	ICP - metals	
1000 Aluminum			



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Solids

EPA 200.7 5

- 1005 Antimony
- 1010 Arsenic
- 1015 Barium
- 1020 Beryllium
- 1023 Bismuth
- 1025 Boron
- 1030 Cadmium
- 1035 Calcium
- 1034 Cerium
- 1040 Chromium
- 1045 Chromium VI
- 1050 Cobalt
- 1055 Copper
- 1060 Gold
- 1760 Hardness (calc.)
- 1063 Indium
- 1070 Iron
- 1075 Lead
- 1080 Lithium
- 1085 Magnesium
- 1090 Manganese
- 1095 Mercury
- 1100 Molybdenum
- 1105 Nickel
- 1910 Phosphorus, total
- 1125 Potassium
- 1140 Selenium
- 1990 Silica as SiO₂
- 1145 Silicon
- 1150 Silver
- 1155 Sodium
- 1160 Strontium
- 1165 Thallium
- 1170 Thorium
- 1175 Tin
- 1180 Titanium
- 3035 Uranium
- 1185 Vanadium
- 1190 Zinc
- 1192 Zirconium

EPA 200.8 5.4

10014605

Metals by ICP-MS

- 1000 Aluminum
- 1005 Antimony



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Solids

EPA 200.8 5.4	1010	Arsenic		
	1015	Barium		
	1020	Beryllium		
	1025	Boron		
	1030	Cadmium		
	1040	Chromium		
	1050	Cobalt		
	1055	Copper		
	1070	Iron		
	1075	Lead		
	1090	Manganese		
	1095	Mercury		
	1100	Molybdenum		
	1105	Nickel		
	1140	Selenium		
	1145	Silicon		
	1150	Silver		
	1160	Strontium		
	1165	Thallium		
	1175	Tin		
	1180	Titanium		
	3035	Uranium		
	1185	Vanadium		
	1190	Zinc		
EPA 300.0			10053006	Ion chromatography - anions.
	1575	Chloride		
	1730	Fluoride		
	1810	Nitrate as N		
	1820	Nitrate plus Nitrite as N		
	1870	Orthophosphate as P		
	2000	Sulfate		
EPA 3005A			10133207	Acid Digestion of waters for Total Recoverable or Dissolved Metals
	8031	Extraction/Preparation		
EPA 3050B			10135601	Acid Digestion of Sediments, Sludges, and soils
	8031	Extraction/Preparation		
EPA 6010C			10155905	Inductively Coupled Plasma - Atomic Emission Spectrometry
EPA 6010C				
	1000	Aluminum		
	1005	Antimony		
	1010	Arsenic		
	1015	Barium		
	1020	Beryllium		



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Solids

EPA 6010C
EPA 6010C

- 1025 Boron
- 1030 Cadmium
- 1035 Calcium
- 1040 Chromium
- 1050 Cobalt
- 1055 Copper
- 1070 Iron
- 1075 Lead
- 1085 Magnesium
- 1090 Manganese
- 1095 Mercury
- 1100 Molybdenum
- 1105 Nickel
- 1125 Potassium
- 1140 Selenium
- 1150 Silver
- 1155 Sodium
- 1160 Strontium
- 1165 Thallium
- 1175 Tin
- 1180 Titanium
- 1185 Vanadium
- 1190 Zinc

EPA 6010D 4

10155916

Metals by ICP - AES

- 1040 Chromium
- 1050 Cobalt

EPA 6020A 1

10156419

Inductively Coupled Plasma -Mass Spectrometry

- 1760 Hardness (calc.)

EPA 6020B 2

10156420

Inductively Coupled Plasma-Mass Spectrometry

- 1000 Aluminum
- 1005 Antimony
- 1010 Arsenic
- 1015 Barium
- 1020 Beryllium
- 1025 Boron
- 1030 Cadmium
- 1035 Calcium
- 1040 Chromium
- 1050 Cobalt
- 1055 Copper
- 1070 Iron
- 1075 Lead



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Issue Date: 4/22/2020 Expiration Date: 2/23/2021

Solids

EPA 6020B 2	1080	Lithium		
	1085	Magnesium		
	1090	Manganese		
	1095	Mercury		
	1100	Molybdenum		
	1105	Nickel		
	1910	Phosphorus, total		
	1125	Potassium		
	1140	Selenium		
	1150	Silver		
	1155	Sodium		
	1160	Strontium		
	1165	Thallium		
	1170	Thorium		
	1175	Tin		
	1180	Titanium		
	1183	Tungsten		
3035	Uranium			
3055	Uranium (activity)			
1185	Vanadium			
1190	Zinc			
1192	Zirconium			
EPA 7196A			10162400	Chromium Hexavalent colorimetric
	1045	Chromium VI		
EPA 9045D			10244607	Soil and Waste pH
	1900	pH		
EPA 9056			10199005	Determination of Inorganic Anions by Ion Chromatography
	1575	Chloride		
	1730	Fluoride		
	1805	Nitrate		
	1835	Nitrite		
	1870	Orthophosphate as P		
	2000	Sulfate		
	1825	Total nitrate+nitrite		
SM 2130 B 18th ED			20042006	Turbidity by Nephelometric Determination
	2055	Turbidity		
SM 2510 B 18th ED			20047807	Conductivity by Probe
	1610	Conductivity		
SM 3500-Cr B-2001			20066028	Chromium - Colorimetric Method
	1045	Chromium VI		



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Solids

SM 4500-H+ B
18th ED

1900 pH

20022406

pH by Electrometric Method

