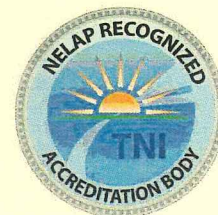




OREGON

Environmental Laboratory Accreditation Program



NELAP Recognized

Friedman & Bruya, Inc

WA100005

3012 16th Avenue West

Seattle, WA 98119

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

Air	Drinking Water	Non Potable Water	Solids and Chem. Waste	Tissue
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 : 04/6/2020

EXPIRATION DATE : 04/5/2021

Certificate No : WA100005 - 017





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Environmental Laboratory Accreditation Program

ORELAP Fields of Accreditation

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MATRIX	Reference	Code	Analyte	Code	Description
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Air

EPA TO-15		10248803	VOCs collected in Canisters by GC/MS		
	5160		1,1,1-Trichloroethane		
	5110		1,1,2,2-Tetrachloroethane		
	5195		1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)		
	5165		1,1,2-Trichloroethane		
	4630		1,1-Dichloroethane		
	4640		1,1-Dichloroethylene		
	5155		1,2,4-Trichlorobenzene		
	5210		1,2,4-Trimethylbenzene		
	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		
	4620		1,4-Dichlorobenzene		
	4735		1,4-Dioxane (1,4- Diethyleneoxide)		
	4836		1-Propene (Propylene)		
	5220		2,2,4-Trimethylpentane		
	4410		2-Butanone (Methyl ethyl ketone, MEK)		
	4535		2-Chlorotoluene		
	4860		2-Hexanone (MBK)		
	4542		4-Ethyltoluene		
	4995		4-Methyl-2-pentanone (MIBK)		
	4315		Acetone		
	4325		Acrolein (Propenal)		
	4355		Allyl chloride (3-Chloropropene)		
	4375		Benzene		
	5635		Benzyl chloride		
	4395		Bromodichloromethane		
	4400		Bromoform		
	4450		Carbon disulfide		
	4455		Carbon tetrachloride		
	4475		Chlorobenzene		
	4575		Chlorodibromomethane		
	4485		Chloroethane (Ethyl chloride)		



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Air	EPA TO-15		
	4505	Chloroform	
	4645	cis-1,2-Dichloroethylene	
	4680	cis-1,3-Dichloropropene	
	4555	Cyclohexane	
	4625	Dichlorodifluoromethane (Freon-12)	
	4750	Ethanol	
	4755	Ethyl acetate	
	4765	Ethylbenzene	
	9408	Gasoline range organics (GRO)	
	4835	Hexachlorobutadiene	
	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)	
	4975	Methylene chloride (Dichloromethane)	
	5005	Naphthalene	
	5007	n-Butane	
	4825	n-Heptane	
	4855	n-Hexane	
	5026	n-Nonane	
	5028	n-Pentane	
	5090	n-Propylbenzene	
	5250	o-Xylene	
	5100	Styrene	
	4420	tert-Butyl alcohol	
	5115	Tetrachloroethylene (Perchloroethylene)	
	5120	Tetrahydrofuran (THF)	
	5140	Toluene	
	4700	trans-1,2-Dichloroethylene	
	4685	trans-1,3-Dichloropropylene	
	5170	Trichloroethene (Trichloroethylene)	
	5175	Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	
	5225	Vinyl acetate	
	5230	Vinyl bromide (Bromoethane)	
	5235	Vinyl chloride	
	EPA TO-17		10312206 Determination of Volatile Organic Compounds in Ambient Air Using Active Sampling Onto Sorbent Tubes
		5105	1,1,1,2-Tetrachloroethane
		5160	1,1,1-Trichloroethane



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Air	EPA TO-17	5110	1,1,2,2-Tetrachloroethane
		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
		5155	1,2,4-Trichlorobenzene
		5210	1,2,4-Trimethylbenzene
		4570	1,2-Dibromo-3-chloropropane (DBCP)
		4585	1,2-Dibromoethane (EDB, Ethylene dibromide)
		4610	1,2-Dichlorobenzene
		4635	1,2-Dichloroethane (Ethylene dichloride)
		4655	1,2-Dichloropropane
		5215	1,3,5-Trimethylbenzene
		4615	1,3-Dichlorobenzene
		4660	1,3-Dichloropropane
		4620	1,4-Dichlorobenzene
		6380	1-Methylnaphthalene
		4665	2,2-Dichloropropane
		4410	2-Butanone (Methyl ethyl ketone, MEK)
		4535	2-Chlorotoluene
		4860	2-Hexanone (MBK)
		6385	2-Methylnaphthalene
		4540	4-Chlorotoluene
		4910	4-Isopropyltoluene (p-Cymene)
		4995	4-Methyl-2-pentanone (MIBK)
		4375	Benzene
		4385	Bromobenzene
		4395	Bromodichloromethane
		4400	Bromoform
		4455	Carbon tetrachloride
		4475	Chlorobenzene
		4575	Chlorodibromomethane
		4505	Chloroform
		4645	cis-1,2-Dichloroethylene
		4680	cis-1,3-Dichloropropene
		4595	Dibromomethane (Methylene bromide)
		4625	Dichlorodifluoromethane (Freon-12)
		4765	Ethylbenzene
		4835	Hexachlorobutadiene
		4895	Isopropyl alcohol (2-Propanol, Isopropanol)



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Air	EPA TO-17	4900	Isopropylbenzene (Cumene)
		5240	m+p-xylene
		5000	Methyl tert-butyl ether (MTBE)
		5005	Naphthalene
		4855	n-Hexane
		5090	n-Propylbenzene
		5250	o-Xylene
		4440	sec-Butylbenzene
		5100	Styrene
		4420	tert-Butyl alcohol
		4445	tert-Butylbenzene
		5115	Tetrachloroethylene (Perchloroethylene)
		5140	Toluene
		4700	trans-1,2-Dichloroethylene
		4685	trans-1,3-Dichloropropylene
		5170	Trichloroethene (Trichloroethylene)
		5235	Vinyl chloride
		5260	Xylene (total)
	MADEP APH	90017188	Air-Phase Petroleum Hydrocarbons
		3792	APH Aliphatics C5-C8
		3793	APH Aliphatics C9-C12
		3794	APH Aromatics C9-C10
Drinking Water	EPA 524.2 4.1	10088809	Volatile Organic Compounds GC/MS Capillary Column
		9375	Di-isopropylether (DIPE)
		4770	Ethyl-t-butylether (ETBE) (2-Ethoxy-2-methylpropane)
		5000	Methyl tert-butyl ether (MTBE)
		4370	T-amylmethylether (TAME)
		4420	tert-Butyl alcohol
Non-Potable Water	AK101 GRO	90015002	Determination of Gasoline Range Organics - Alaska Department of Environmental Conservation
		9408	Gasoline range organics (GRO)
	AK102 DRO	90015206	Determination of Diesel Range Organics - Alaska Department of Environmental Conservation
		9369	Diesel range organics (DRO)
	AK103 RRO	90015400	Determination of Residual Range Organics - Alaska Department of Environmental Conservation
		9499	Motor Oil



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Non-Potable Water	EPA 1631E	10237204	Mercury in Water by Oxidation, Purge & Trap, and Cold Vapor Atomic Fluorescence
	1095 Mercury		
	EPA 200.8 5.5	10014809	Metals by ICP-MS
	1005 Antimony		
	1010 Arsenic		
	1015 Barium		
	1020 Beryllium		
	1030 Cadmium		
	1040 Chromium		
	1050 Cobalt		
	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 3005A	10133207	Acid Digestion of waters for Total Recoverable or Dissolved Metals
	8031 Extraction/Preparation		
	EPA 3510C	10138202	Separatory Funnel Liquid-liquid extraction
	9822 Extraction/Preparation		
	EPA 3630C	10146802	Silica gel cleanup
	9822 Extraction/Preparation		
	EPA 5030C	10284603	Purge-and-Trap for Aqueous Samples
	9822 Extraction/Preparation		
	EPA 6020B 2	10156420	Inductively Coupled Plasma-Mass Spectrometry
	1005 Antimony		
	1010 Arsenic		
	1015 Barium		
	1020 Beryllium		
	1030 Cadmium		
	1040 Chromium		
	1050 Cobalt		
	1055 Copper		



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EPA 6020B 2	1070	Iron	
	1075	Lead	
	1090	Manganese	
	1095	Mercury	
	1100	Molybdenum	
	1105	Nickel	
	1140	Selenium	
	1150	Silver	
	1165	Thallium	
	1185	Vanadium	
	1190	Zinc	
EPA 8011			10173009 1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and GC/ECD
	4585	1,2-Dibromoethane (EDB, Ethylene dibromide)	
EPA 8021B			10174808 Aromatic and Halogenated Volatiles by GC with PID and/or ECD Purge & Trap
	4375	Benzene	
	4765	Ethylbenzene	
	5140	Toluene	
	5260	Xylene (total)	
EPA 8081B			10178811 Organochlorine Pesticides by Gas Chromatography
	7355	4,4'-DDD	
	7360	4,4'-DDE	
	7365	4,4'-DDT	
	7025	Aldrin	
	7110	alpha-BHC (alpha-Hexachlorocyclohexane)	
	7115	beta-BHC (beta-Hexachlorocyclohexane)	
	7240	cis-chlordane (alpha-Chlordane)	
	7105	delta-BHC	
	7470	Dieldrin	
	7510	Endosulfan I	
	7515	Endosulfan II	
	7520	Endosulfan sulfate	
	7540	Endrin	
	7530	Endrin aldehyde	
	7535	Endrin ketone	
	7120	gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	
	7685	Heptachlor	
	7690	Heptachlor epoxide	
	7810	Methoxychlor	



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EPA 8081B	8250	Toxaphene (Chlorinated camphene)
	7245	trans-chlordane (gamma-Chlordane)
EPA 8082A	10179358	Polychlorinated Biphenyls (PCBs) by GC/ECD
	8880	Aroclor-1016 (PCB-1016)
	8885	Aroclor-1221 (PCB-1221)
	8890	Aroclor-1232 (PCB-1232)
	8895	Aroclor-1242 (PCB-1242)
	8900	Aroclor-1248 (PCB-1248)
	8905	Aroclor-1254 (PCB-1254)
	8910	Aroclor-1260 (PCB-1260)
	8912	Aroclor-1262 (PCB-1262)
	8913	Aroclor-1268 (PCB-1268)
EPA 8260C	10307003	Volatile Organics: GC/MS (capillary column)
	5105	1,1,1,2-Tetrachloroethane
	5160	1,1,1-Trichloroethane
	5110	1,1,2,2-Tetrachloroethane
	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
	5155	1,2,4-Trichlorobenzene
	5210	1,2,4-Trimethylbenzene
	4570	1,2-Dibromo-3-chloropropane (DBCP)
	4585	1,2-Dibromoethane (EDB, Ethylene dibromide)
	4610	1,2-Dichlorobenzene
	4635	1,2-Dichloroethane (Ethylene dichloride)
	4655	1,2-Dichloropropane
	5215	1,3,5-Trimethylbenzene
	4615	1,3-Dichlorobenzene
	4660	1,3-Dichloropropane
	4620	1,4-Dichlorobenzene
	4665	2,2-Dichloropropane
	4410	2-Butanone (Methyl ethyl ketone, MEK)
	4535	2-Chlorotoluene
	4860	2-Hexanone (MBK)
	4540	4-Chlorotoluene
	4910	4-Isopropyltoluene (p-Cymene)
	4995	4-Methyl-2-pentanone (MIBK)
	4315	Acetone



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EPA 8260C	4375	Benzene
	4385	Bromobenzene
	4395	Bromodichloromethane
	4400	Bromoform
	4455	Carbon tetrachloride
	4475	Chlorobenzene
	4575	Chlorodibromomethane
	4485	Chloroethane (Ethyl chloride)
	4505	Chloroform
	4645	cis-1,2-Dichloroethylene
	4680	cis-1,3-Dichloropropene
	4595	Dibromomethane (Methylene bromide)
	4625	Dichlorodifluoromethane (Freon-12)
	9375	Di-isopropylether (DIPE)
	4765	Ethylbenzene
	4770	Ethyl-t-butylether (ETBE) (2-Ethoxy-2-methylpropane)
	4835	Hexachlorobutadiene
	4900	Isopropylbenzene (Cumene)
	5240	m+p-xylene
	4950	Methyl bromide (Bromomethane)
	4960	Methyl chloride (Chloromethane)
	5000	Methyl tert-butyl ether (MTBE)
	4975	Methylene chloride (Dichloromethane)
	5005	Naphthalene
	4855	n-Hexane
	5090	n-Propylbenzene
	5250	o-Xylene
	4440	sec-Butylbenzene
	5100	Styrene
	4370	T-amylmethylether (TAME)
	4420	tert-Butyl alcohol
	4445	tert-Butylbenzene
	5115	Tetrachloroethylene (Perchloroethylene)
	5140	Toluene
	4700	trans-1,2-Dichloroethylene
	4685	trans-1,3-Dichloropropylene
	5170	Trichloroethene (Trichloroethylene)
	5175	Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)
	5235	Vinyl chloride

EPA 8260C
SIM

10307105

Volatile Organic Compounds by
GC/MS-SIM

4735 1,4-Dioxane (1,4- Diethyleneoxide)



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Non-Potable Water

EPA 8260D

10307127

Volatile Organic Compounds By GC/MS

- 5105 1,1,1,2-Tetrachloroethane
- 5160 1,1,1-Trichloroethane
- 5110 1,1,1,2-Tetrachloroethane
- 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
- 5155 1,2,4-Trichlorobenzene
- 5210 1,2,4-Trimethylbenzene
- 4570 1,2-Dibromo-3-chloropropane (DBCP)
- 4585 1,2-Dibromoethane (EDB, Ethylene dibromide)
- 4610 1,2-Dichlorobenzene
- 4635 1,2-Dichloroethane (Ethylene dichloride)
- 4655 1,2-Dichloropropane
- 5215 1,3,5-Trimethylbenzene
- 4615 1,3-Dichlorobenzene
- 4660 1,3-Dichloropropane
- 4620 1,4-Dichlorobenzene
- 4665 2,2-Dichloropropane
- 4410 2-Butanone (Methyl ethyl ketone, MEK)
- 4535 2-Chlorotoluene
- 4860 2-Hexanone (MBK)
- 4540 4-Chlorotoluene
- 4910 4-Isopropyltoluene (p-Cymene)
- 4995 4-Methyl-2-pentanone (MIBK)
- 4315 Acetone
- 4375 Benzene
- 4385 Bromobenzene
- 4395 Bromodichloromethane
- 4400 Bromoform
- 4455 Carbon tetrachloride
- 4475 Chlorobenzene
- 4575 Chlorodibromomethane
- 4485 Chloroethane (Ethyl chloride)
- 4505 Chloroform
- 4645 cis-1,2-Dichloroethylene
- 4680 cis-1,3-Dichloropropene
- 4595 Dibromomethane (Methylene bromide)
- 4625 Dichlorodifluoromethane (Freon-12)



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EPA 8260D	9375	Di-isopropylether (DIPE)	
	4765	Ethylbenzene	
	4770	Ethyl-t-butylether (ETBE) (2-Ethoxy-2-methylpropane)	
	4835	Hexachlorobutadiene	
	4900	Isopropylbenzene (Cumene)	
	5240	m+p-xylene	
	4950	Methyl bromide (Bromomethane)	
	4960	Methyl chloride (Chloromethane)	
	5000	Methyl tert-butyl ether (MTBE)	
	4975	Methylene chloride (Dichloromethane)	
	5005	Naphthalene	
	4855	n-Hexane	
	5090	n-Propylbenzene	
	5250	o-Xylene	
	4440	sec-Butylbenzene	
	5100	Styrene	
	4370	T-amylmethylether (TAME)	
	4420	tert-Butyl alcohol	
	4445	tert-Butylbenzene	
	5115	Tetrachloroethylene (Perchloroethylene)	
	5140	Toluene	
	4700	trans-1,2-Dichloroethylene	
	4685	trans-1,3-Dichloropropylene	
	5170	Trichloroethene (Trichloroethylene)	
	5175	Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	
	5235	Vinyl chloride	
EPA 8260D SIM			10307138 Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry Selected Ion Monitoring (GC/MS SIM)
	4735	1,4-Dioxane (1,4-Diethyleneoxide)	
EPA 8270D			10186002 Semivolatile Organic compounds by GC/MS
	5155	1,2,4-Trichlorobenzene	
	4610	1,2-Dichlorobenzene	
	6221	1,2-Diphenylhydrazine	
	4615	1,3-Dichlorobenzene	
	4620	1,4-Dichlorobenzene	
	6380	1-Methylnaphthalene	
	4659	2,2-Oxybis(1-chloropropane)	
	6835	2,4,5-Trichlorophenol	
	6840	2,4,6-Trichlorophenol	
	6000	2,4-Dichlorophenol	
	6130	2,4-Dimethylphenol	



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EPA 8270D

- 6175 2,4-Dinitrophenol
- 6185 2,4-Dinitrotoluene (2,4-DNT)
- 6190 2,6-Dinitrotoluene (2,6-DNT)
- 5795 2-Chloronaphthalene
- 5800 2-Chlorophenol
- 6360 2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)
- 6385 2-Methylnaphthalene
- 6400 2-Methylphenol (o-Cresol)
- 6460 2-Nitroaniline
- 6490 2-Nitrophenol
- 6412 3 & 4 Methylphenol
- 5945 3,3'-Dichlorobenzidine
- 6465 3-Nitroaniline
- 5660 4-Bromophenyl phenyl ether (BDE-3)
- 5700 4-Chloro-3-methylphenol
- 5745 4-Chloroaniline
- 5825 4-Chlorophenyl phenylether
- 6470 4-Nitroaniline
- 6500 4-Nitrophenol
- 5500 Acenaphthene
- 5505 Acenaphthylene
- 5555 Anthracene
- 5575 Benzo(a)anthracene
- 5580 Benzo(a)pyrene
- 5590 Benzo(g,h,i)perylene
- 5600 Benzo(k)fluoranthene
- 5585 Benzo[b]fluoranthene
- 5610 Benzoic acid
- 5630 Benzyl alcohol
- 5760 bis(2-Chloroethoxy)methane
- 5765 bis(2-Chloroethyl) ether
- 5670 Butyl benzyl phthalate
- 5680 Carbazole
- 5855 Chrysene
- 6065 Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)
- 5895 Dibenz(a,h) anthracene
- 5905 Dibenzofuran
- 6070 Diethyl phthalate
- 6135 Dimethyl phthalate
- 5925 Di-n-butyl phthalate
- 6200 Di-n-octyl phthalate
- 6265 Fluoranthene



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ORELAP Fields of Accreditation

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Non-Potable Water

EPA 8270D	6270	Fluorene	
	6275	Hexachlorobenzene	
	4835	Hexachlorobutadiene	
	6285	Hexachlorocyclopentadiene	
	4840	Hexachloroethane	
	6315	Indeno(1,2,3-cd) pyrene	
	6320	Isophorone	
	5005	Naphthalene	
	5015	Nitrobenzene	
	6530	n-Nitrosodimethylamine	
	6545	n-Nitrosodi-n-propylamine	
	6535	n-Nitrosodiphenylamine	
	6605	Pentachlorophenol	
	6615	Phenanthrene	
	6625	Phenol	
	6665	Pyrene	
EPA 8270D SIM	10242509	Semivolatile Organic compounds by GC/MS Selective Ion Monitoring	
	6380	1-Methylnaphthalene	
	6385	2-Methylnaphthalene	
	5500	Acenaphthene	
	5505	Acenaphthylene	
	5555	Anthracene	
	5575	Benzo(a)anthracene	
	5580	Benzo(a)pyrene	
	5590	Benzo(g,h,i)perylene	
	5600	Benzo(k)fluoranthene	
	5585	Benzo[b]fluoranthene	
	5855	Chrysene	
	5895	Dibenz(a,h)anthracene	
	6265	Fluoranthene	
	6270	Fluorene	
	6315	Indeno(1,2,3-cd) pyrene	
	5005	Naphthalene	
	6605	Pentachlorophenol	
	6615	Phenanthrene	
	6665	Pyrene	
EPA 8270E	10242543	Semivolatile Organic compounds by GC/MS	
	5155	1,2,4-Trichlorobenzene	
	4610	1,2-Dichlorobenzene	
	6221	1,2-Diphenylhydrazine	
	4615	1,3-Dichlorobenzene	
	4620	1,4-Dichlorobenzene	



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Non-Potable Water

EPA 8270E

- 6380 1-Methylnaphthalene
- 4659 2,2-Oxybis(1-chloropropane)
- 6835 2,4,5-Trichlorophenol
- 6840 2,4,6-Trichlorophenol
- 6000 2,4-Dichlorophenol
- 6130 2,4-Dimethylphenol
- 6175 2,4-Dinitrophenol
- 6185 2,4-Dinitrotoluene (2,4-DNT)
- 6190 2,6-Dinitrotoluene (2,6-DNT)
- 5795 2-Chloronaphthalene
- 5800 2-Chlorophenol
- 6360 2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)
- 6385 2-Methylnaphthalene
- 6400 2-Methylphenol (o-Cresol)
- 6460 2-Nitroaniline
- 6490 2-Nitrophenol
- 6412 3 & 4 Methylphenol
- 5945 3,3'-Dichlorobenzidine
- 6465 3-Nitroaniline
- 5660 4-Bromophenyl phenyl ether (BDE-3)
- 5700 4-Chloro-3-methylphenol
- 5745 4-Chloroaniline
- 5825 4-Chlorophenyl phenylether
- 6470 4-Nitroaniline
- 6500 4-Nitrophenol
- 5500 Acenaphthene
- 5505 Acenaphthylene
- 5555 Anthracene
- 5575 Benzo(a)anthracene
- 5580 Benzo(a)pyrene
- 5590 Benzo(g,h,i)perylene
- 5600 Benzo(k)fluoranthene
- 5585 Benzo[b]fluoranthene
- 5610 Benzoic acid
- 5630 Benzyl alcohol
- 5760 bis(2-Chloroethoxy)methane
- 5765 bis(2-Chloroethyl) ether
- 5670 Butyl benzyl phthalate
- 5680 Carbazole
- 5855 Chrysene
- 6065 Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)
- 5895 Dibenz(a,h) anthracene



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Non-Potable Water

EPA 8270E	5905	Dibenzofuran
	6070	Diethyl phthalate
	6135	Dimethyl phthalate
	5925	Di-n-butyl phthalate
	6200	Di-n-octyl phthalate
	6265	Fluoranthene
	6270	Fluorene
	6275	Hexachlorobenzene
	4835	Hexachlorobutadiene
	6285	Hexachlorocyclopentadiene
	4840	Hexachloroethane
	6315	Indeno(1,2,3-cd) pyrene
	6320	Isophorone
	5005	Naphthalene
	5015	Nitrobenzene
	6530	n-Nitrosodimethylamine
	6545	n-Nitrosodi-n-propylamine
	6535	n-Nitrosodiphenylamine
	6605	Pentachlorophenol
	6615	Phenanthrene
	6625	Phenol
	6665	Pyrene

EPA 8270E SIM

10242565

Semivolatile Organic compounds by Gas Chromatography/Mass Spectrometry (GC/MS-SIM)

6380	1-Methylnaphthalene
6385	2-Methylnaphthalene
5500	Acenaphthene
5505	Acenaphthylene
5555	Anthracene
5575	Benzo(a)anthracene
5580	Benzo(a)pyrene
5590	Benzo(g,h,i)perylene
5600	Benzo(k)fluoranthene
5585	Benzo[b]fluoranthene
5855	Chrysene
5895	Dibenz(a,h) anthracene
6265	Fluoranthene
6270	Fluorene
6315	Indeno(1,2,3-cd) pyrene
5005	Naphthalene
6605	Pentachlorophenol
6615	Phenanthrene
6665	Pyrene



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Non-Potable Water

EPA RSK-175 (GC-FID)		10212905	Methane, Ethane, and Ethene in water by Headspace GC/FID
	4747 Ethane		
	4752 Ethene		
	4926 Methane		
NWTPH-Dx		90018409	Oregon DEQ TPH Diesel Range
	9369 Diesel range organics (DRO)		
NWTPH-Gx		90018603	Oregon DEQ TPH Gasoline Range Organics by GC/FID-PID Purge & Trap
	9408 Gasoline range organics (GRO)		
SM 2340 B 22nd Ed		20046417	Hardness - Hardness by Calculation
	1760 Hardness (calc.)		

Solids

AK101 GRO		90015002	Determination of Gasoline Range Organics - Alaska Department of Environmental Conservation
	9408 Gasoline range organics (GRO)		
AK102 DRO		90015206	Determination of Diesel Range Organics - Alaska Department of Environmental Conservation
	9369 Diesel range organics (DRO)		
AK103 RRO		90015400	Determination of Residual Range Organics - Alaska Department of Environmental Conservation
	9499 Motor Oil		
EPA 1631E		10237204	Mercury in Water by Oxidation, Purge & Trap, and Cold Vapor Atomic Fluorescence
	1095 Mercury		
EPA 200.8 5.5		10014809	Metals by ICP-MS
	1005 Antimony		
	1010 Arsenic		
	1015 Barium		
	1020 Beryllium		
	1030 Cadmium		
	1040 Chromium		
	1050 Cobalt		
	1055 Copper		
	1075 Lead		
	1090 Manganese		
	1095 Mercury		
	1100 Molybdenum		
	1105 Nickel		
	1140 Selenium		
	1150 Silver		



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Solids

EPA 200.8 5.5	1165	Thallium	10135601	Acid Digestion of Sediments, Sludges, and soils
	1185	Vanadium		
	1190	Zinc		
EPA 3050B	8031	Extraction/Preparation	10142004	Ultrasonic Extraction
EPA 3550C	9822	Extraction/Preparation	10146802	Silica gel cleanup
EPA 3630C	9822	Extraction/Preparation	10154004	Closed-System Purge-and-Trap and Extraction for Volatile Organics in Soil and Waste Samples
EPA 5035	8031	Extraction/Preparation	10156420	Inductively Coupled Plasma-Mass Spectrometry
EPA 6020B 2	1005	Antimony		
	1010	Arsenic		
	1015	Barium		
	1020	Beryllium		
	1030	Cadmium		
	1040	Chromium		
	1050	Cobalt		
	1055	Copper		
	1075	Lead		
	1090	Manganese		
	1095	Mercury		
	1100	Molybdenum		
	1105	Nickel		
	1140	Selenium		
	1150	Silver		
	1165	Thallium		
	1185	Vanadium		
	1190	Zinc		
EPA 8021B	4375	Benzene	10174808	Aromatic and Halogenated Volatiles by GC with PID and/or ECD Purge & Trap
	4765	Ethylbenzene		
	5140	Toluene		
	5260	Xylene (total)		
EPA 8081B	7355	4,4'-DDD	10178811	Organochlorine Pesticides by Gas Chromatography
	7360	4,4'-DDE		



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Field	Method	Parameter
Solids	EPA 8081B	7365 4,4'-DDT
		7025 Aldrin
		7110 alpha-BHC (alpha-Hexachlorocyclohexane)
		7115 beta-BHC (beta-Hexachlorocyclohexane)
		7240 cis-chlordane (alpha-Chlordane)
		7105 delta-BHC
		7470 Dieldrin
		7510 Endosulfan I
		7515 Endosulfan II
		7520 Endosulfan sulfate
		7540 Endrin
		7530 Endrin aldehyde
		7535 Endrin ketone
		7120 gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)
		7685 Heptachlor
		7690 Heptachlor epoxide
		7810 Methoxychlor
		8250 Toxaphene (Chlorinated camphene)
		7245 trans-chlordane (gamma-Chlordane)
		EPA 8082A
	8880	Aroclor-1016 (PCB-1016)
	8885	Aroclor-1221 (PCB-1221)
	8890	Aroclor-1232 (PCB-1232)
	8895	Aroclor-1242 (PCB-1242)
	8900	Aroclor-1248 (PCB-1248)
	8905	Aroclor-1254 (PCB-1254)
	8910	Aroclor-1260 (PCB-1260)
	8912	Aroclor-1262 (PCB-1262)
	8913	Aroclor-1268 (PCB-1268)
EPA 8260C	10307003	Volatile Organics: GC/MS (capillary column)
	5105	1,1,1,2-Tetrachloroethane
	5160	1,1,1-Trichloroethane
	5110	1,1,2,2-Tetrachloroethane
	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
	5155	1,2,4-Trichlorobenzene



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Solids	EPA 8260C	5210	1,2,4-Trimethylbenzene
		4570	1,2-Dibromo-3-chloropropane (DBCP)
		4585	1,2-Dibromoethane (EDB, Ethylene dibromide)
		4610	1,2-Dichlorobenzene
		4635	1,2-Dichloroethane (Ethylene dichloride)
		4655	1,2-Dichloropropane
		5215	1,3,5-Trimethylbenzene
		4615	1,3-Dichlorobenzene
		4660	1,3-Dichloropropane
		4620	1,4-Dichlorobenzene
		4665	2,2-Dichloropropane
		4410	2-Butanone (Methyl ethyl ketone, MEK)
		4535	2-Chlorotoluene
		4860	2-Hexanone (MBK)
		4540	4-Chlorotoluene
		4910	4-Isopropyltoluene (p-Cymene)
		4995	4-Methyl-2-pentanone (MIBK)
		4315	Acetone
		4375	Benzene
		4385	Bromobenzene
		4395	Bromodichloromethane
		4400	Bromoform
		4455	Carbon tetrachloride
		4475	Chlorobenzene
		4575	Chlorodibromomethane
		4485	Chloroethane (Ethyl chloride)
		4505	Chloroform
		4645	cis-1,2-Dichloroethylene
		4680	cis-1,3-Dichloropropene
		4595	Dibromomethane (Methylene bromide)
		4625	Dichlorodifluoromethane (Freon-12)
		9375	Di-isopropylether (DIPE)
		4765	Ethylbenzene
		4770	Ethyl-t-butylether (ETBE) (2-Ethoxy-2-methylpropane)
		4835	Hexachlorobutadiene
		4900	Isopropylbenzene (Cumene)
		5240	m+p-xylene
		4950	Methyl bromide (Bromomethane)
		4960	Methyl chloride (Chloromethane)
		5000	Methyl tert-butyl ether (MTBE)
		4975	Methylene chloride (Dichloromethane)
		5005	Naphthalene



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Solids

EPA 8260C	4855	n-Hexane		
	5090	n-Propylbenzene		
	5250	o-Xylene		
	4440	sec-Butylbenzene		
	5100	Styrene		
	4370	T-amylmethylether (TAME)		
	4420	tert-Butyl alcohol		
	4445	tert-Butylbenzene		
	5115	Tetrachloroethylene (Perchloroethylene)		
	5140	Toluene		
	4700	trans-1,2-Dichloroethylene		
	4685	trans-1,3-Dichloropropylene		
	5170	Trichloroethene (Trichloroethylene)		
	5175	Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)		
	5235	Vinyl chloride		
EPA 8260C SIM			10307105	Volatile Organic Compounds by GC/MS-SIM
	4735	1,4-Dioxane (1,4- Diethyleneoxide)		
EPA 8260D			10307127	Volatile Organic Compounds By GC/MS
	5105	1,1,1,2-Tetrachloroethane		
	5160	1,1,1-Trichloroethane		
	5110	1,1,2,2-Tetrachloroethane		
	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		
	5155	1,2,4-Trichlorobenzene		
	5210	1,2,4-Trimethylbenzene		
	4570	1,2-Dibromo-3-chloropropane (DBCP)		
	4585	1,2-Dibromoethane (EDB, Ethylene dibromide)		
	4610	1,2-Dichlorobenzene		
	4635	1,2-Dichloroethane (Ethylene dichloride)		
	4655	1,2-Dichloropropane		
	5215	1,3,5-Trimethylbenzene		
	4615	1,3-Dichlorobenzene		
	4660	1,3-Dichloropropane		
	4620	1,4-Dichlorobenzene		
	4665	2,2-Dichloropropane		
	4410	2-Butanone (Methyl ethyl ketone, MEK)		
	4535	2-Chlorotoluene		



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Solids	EPA 8260D	4860	2-Hexanone (MBK)
		4540	4-Chlorotoluene
		4910	4-Isopropyltoluene (p-Cymene)
		4995	4-Methyl-2-pentanone (MIBK)
		4315	Acetone
		4375	Benzene
		4385	Bromobenzene
		4395	Bromodichloromethane
		4400	Bromoform
		4455	Carbon tetrachloride
		4475	Chlorobenzene
		4575	Chlorodibromomethane
		4485	Chloroethane (Ethyl chloride)
		4505	Chloroform
		4645	cis-1,2-Dichloroethylene
		4680	cis-1,3-Dichloropropene
		4595	Dibromomethane (Methylene bromide)
		4625	Dichlorodifluoromethane (Freon-12)
		9375	Di-isopropylether (DIPE)
		4765	Ethylbenzene
		4770	Ethyl-t-butylether (ETBE) (2-Ethoxy-2-methylpropane)
		4835	Hexachlorobutadiene
		4900	Isopropylbenzene (Cumene)
		5240	m+p-xylene
		4950	Methyl bromide (Bromomethane)
		4960	Methyl chloride (Chloromethane)
		5000	Methyl tert-butyl ether (MTBE)
		4975	Methylene chloride (Dichloromethane)
		5005	Naphthalene
		4855	n-Hexane
		5090	n-Propylbenzene
		5250	o-Xylene
		4440	sec-Butylbenzene
		5100	Styrene
		4370	T-amylmethylether (TAME)
		4420	tert-Butyl alcohol
		4445	tert-Butylbenzene
		5115	Tetrachloroethylene (Perchloroethylene)
		5140	Toluene
		4700	trans-1,2-Dichloroethylene
		4685	trans-1,3-Dichloropropylene
		5170	Trichloroethene (Trichloroethylene)



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Method	Parameter	Method	Parameter
Solids	EPA 8260D 5175 Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	10307138	Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry Selected Ion Monitoring (GC/MS SIM)
	5235 Vinyl chloride		
EPA 8260D SIM	4735 1,4-Dioxane (1,4-Diethyleneoxide)	10186002	Semivolatile Organic compounds by GC/MS
EPA 8270D	5155 1,2,4-Trichlorobenzene		
	4610 1,2-Dichlorobenzene		
	6221 1,2-Diphenylhydrazine		
	4615 1,3-Dichlorobenzene		
	4620 1,4-Dichlorobenzene		
	6380 1-Methylnaphthalene		
	4659 2,2-Oxybis(1-chloropropane)		
	6835 2,4,5-Trichlorophenol		
	6840 2,4,6-Trichlorophenol		
	6000 2,4-Dichlorophenol		
	6130 2,4-Dimethylphenol		
	6175 2,4-Dinitrophenol		
	6185 2,4-Dinitrotoluene (2,4-DNT)		
	6190 2,6-Dinitrotoluene (2,6-DNT)		
	5795 2-Chloronaphthalene		
	5800 2-Chlorophenol		
	6360 2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)		
	6385 2-Methylnaphthalene		
	6400 2-Methylphenol (o-Cresol)		
	6460 2-Nitroaniline		
	6490 2-Nitrophenol		
	6412 3 & 4 Methylphenol		
	5945 3,3'-Dichlorobenzidine		
	6465 3-Nitroaniline		
	5660 4-Bromophenyl phenyl ether (BDE-3)		
	5700 4-Chloro-3-methylphenol		
	5745 4-Chloroaniline		
	5825 4-Chlorophenyl phenylether		
	6470 4-Nitroaniline		
	6500 4-Nitrophenol		
	5500 Acenaphthene		
	5505 Acenaphthylene		
	5555 Anthracene		
	5575 Benzo(a)anthracene		
	5580 Benzo(a)pyrene		



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Solids

EPA 8270D

- 5590 Benzo(g,h,i)perylene
- 5600 Benzo(k)fluoranthene
- 5585 Benzo[b]fluoranthene
- 5610 Benzoic acid
- 5630 Benzyl alcohol
- 5760 bis(2-Chloroethoxy)methane
- 5765 bis(2-Chloroethyl) ether
- 5670 Butyl benzyl phthalate
- 5680 Carbazole
- 5855 Chrysene
- 6065 Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)
- 5895 Dibenz(a,h) anthracene
- 5905 Dibenzofuran
- 6070 Diethyl phthalate
- 6135 Dimethyl phthalate
- 5925 Di-n-butyl phthalate
- 6200 Di-n-octyl phthalate
- 6265 Fluoranthene
- 6270 Fluorene
- 6275 Hexachlorobenzene
- 4835 Hexachlorobutadiene
- 6285 Hexachlorocyclopentadiene
- 4840 Hexachloroethane
- 6315 Indeno(1,2,3-cd) pyrene
- 6320 Isophorone
- 5005 Naphthalene
- 5015 Nitrobenzene
- 6530 n-Nitrosodimethylamine
- 6545 n-Nitrosodi-n-propylamine
- 6535 n-Nitrosodiphenylamine
- 6605 Pentachlorophenol
- 6615 Phenanthrene
- 6625 Phenol
- 6665 Pyrene

EPA 8270D
SIM

10242509

Semivolatle Organic compounds by
GC/MS Selective Ion Monitoring

- 6380 1-Methylnaphthalene
- 6385 2-Methylnaphthalene
- 5500 Acenaphthene
- 5505 Acenaphthylene
- 5555 Anthracene
- 5575 Benzo(a)anthracene
- 5580 Benzo(a)pyrene



OREGON

Environmental Laboratory Accreditation Program



ORELAP Fields of Accreditation

ORELAP ID: WA100005

EPA CODE: WA00112

Certificate: WA100005 - 017

Friedman & Bruya, Inc

3012 16th Avenue West

Seattle, WA 98119

Issue Date: 4/6/2020 Expiration Date: 4/5/2021

As of 4/6/2020 this list supersedes all previous lists for this certificate number.

Solids

EPA 8270D	5590	Benzo(g,h,i)perylene
SIM	5600	Benzo(k)fluoranthene
	5585	Benzo[b]fluoranthene
	5855	Chrysene
	5895	Dibenz(a,h) anthracene
	6265	Fluoranthene
	6270	Fluorene
	6315	Indeno(1,2,3-cd) pyrene
	5005	Naphthalene
	6605	Pentachlorophenol
	6615	Phenanthrene
	6665	Pyrene

EPA 8270E

10242543

Semivolatile Organic compounds by GC/MS

5155	1,2,4-Trichlorobenzene
4610	1,2-Dichlorobenzene
6221	1,2-Diphenylhydrazine
4615	1,3-Dichlorobenzene
4620	1,4-Dichlorobenzene
6380	1-Methylnaphthalene
4659	2,2-Oxybis(1-chloropropane)
6835	2,4,5-Trichlorophenol
6840	2,4,6-Trichlorophenol
6000	2,4-Dichlorophenol
6130	2,4-Dimethylphenol
6175	2,4-Dinitrophenol
6185	2,4-Dinitrotoluene (2,4-DNT)
6190	2,6-Dinitrotoluene (2,6-DNT)
5795	2-Chloronaphthalene
5800	2-Chlorophenol
6360	2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)
6385	2-Methylnaphthalene
6400	2-Methylphenol (o-Cresol)
6460	2-Nitroaniline
6490	2-Nitrophenol
6412	3 & 4 Methylphenol
5945	3,3'-Dichlorobenzidine
6465	3-Nitroaniline
5660	4-Bromophenyl phenyl ether (BDE-3)
5700	4-Chloro-3-methylphenol
5745	4-Chloroaniline
5825	4-Chlorophenyl phenylether
6470	4-Nitroaniline



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Solids

EPA 8270E

- 6500 4-Nitrophenol
- 5500 Acenaphthene
- 5505 Acenaphthylene
- 5555 Anthracene
- 5575 Benzo(a)anthracene
- 5580 Benzo(a)pyrene
- 5590 Benzo(g,h,i)perylene
- 5600 Benzo(k)fluoranthene
- 5585 Benzo[b]fluoranthene
- 5610 Benzoic acid
- 5630 Benzyl alcohol
- 5760 bis(2-Chloroethoxy)methane
- 5765 bis(2-Chloroethyl) ether
- 5670 Butyl benzyl phthalate
- 5680 Carbazole
- 5855 Chrysene
- 6065 Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)
- 5895 Dibenz(a,h) anthracene
- 5905 Dibenzofuran
- 6070 Diethyl phthalate
- 6135 Dimethyl phthalate
- 5925 Di-n-butyl phthalate
- 6200 Di-n-octyl phthalate
- 6265 Fluoranthene
- 6270 Fluorene
- 6275 Hexachlorobenzene
- 4835 Hexachlorobutadiene
- 6285 Hexachlorocyclopentadiene
- 4840 Hexachloroethane
- 6315 Indeno(1,2,3-cd) pyrene
- 6320 Isophorone
- 5005 Naphthalene
- 5015 Nitrobenzene
- 6530 n-Nitrosodimethylamine
- 6545 n-Nitrosodi-n-propylamine
- 6535 n-Nitrosodiphenylamine
- 6605 Pentachlorophenol
- 6615 Phenanthrene
- 6625 Phenol
- 6665 Pyrene



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Solids	EPA 8270E SIM	10242565	Semivolatile Organic compounds by Gas Chromatography/Mass Spectrometry (GC/MS-SIM)
	6380	1-Methylnaphthalene	
	6385	2-Methylnaphthalene	
	5500	Acenaphthene	
	5505	Acenaphthylene	
	5555	Anthracene	
	5575	Benzo(a)anthracene	
	5580	Benzo(a)pyrene	
	5590	Benzo(g,h,i)perylene	
	5600	Benzo(k)fluoranthene	
	5585	Benzo[b]fluoranthene	
	5855	Chrysene	
	5895	Dibenz(a,h) anthracene	
	6265	Fluoranthene	
	6270	Fluorene	
	6315	Indeno(1,2,3-cd) pyrene	
	5005	Naphthalene	
	6605	Pentachlorophenol	
	6615	Phenanthrene	
	6665	Pyrene	
NWTPH-Dx		90018409	Oregon DEQ TPH Diesel Range
	9369	Diesel range organics (DRO)	
NWTPH-Gx		90018603	Oregon DEQ TPH Gasoline Range Organics by GC/FID-PID Purge & Trap
	9408	Gasoline range organics (GRO)	