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Membership Number: 1352

Laboratory Name: Enviro-Test Laboratories (Edmonton)

Parent Institution: ETL Chemspec Analytical Ltd.

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Standard: Conforms with requirements of CAN-P-4D (ISO/IEC 17025)

Clients Served: All Interested Parties

Revised On: December 19, 2005

Valid To: January 03, 2008

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Scope of Accreditation

Air
 Dustfall - Air (120)
 ISOP 127; based on AB ENVIRONMENT 32020
 GRAVIMETRIC
 Dustfall, Fixed
 Dustfall, Total

RDL Range

Air
 Volatiles/Carbotrap Tubes - Air (121)
 HSOP2; based on NIOSH 2549, EPA TO-17
 GC/MS - THERMAL DESORPTION
 1-Butene
 1-Hexene
 1-Pentene
 1,1-Dichloroethane
 1,1-Dichloroethene
 1,1,1-Trichloroethane
 1,1,2-Trichloroethane
 1,1,2,2-Tetrachloroethane
 1,2-Dibromoethane
 1,2-Dichlorobenzene
 1,2-Dichloroethane
 1,2-Dichloropropane
 1,2,4-Trichlorobenzene
 1,2,4-Trimethylbenzene

RDL Range

1,3-Dichlorobenzene
 1,3,5-Trimethylbenzene
 1,4-Dichlorobenzene
 Benzene
 Bromomethane
 Carbon tetrachloride
 Chlorobenzene
 Chloroform
 Chloromethane
 cis-1,2-Dichloroethylene
 cis-1,3-Dichloropropene
 Dichloromethane
 Ethyl chloride
 Ethylbenzene
 Halocarbon 11
 Halocarbon 113
 Halocarbon 114
 Halocarbon 12
 Hexachloro-1,3-butadiene
 m/p-xylene
 n-Butane
 n-Hexane
 n-Pentane
 o-xylene
 Styrene
 Tetrachloroethylene
 Toluene
 trans-1,3-Dichloropropene
 Trichlorethylene
 Vinyl Chloride

Air

Volatiles/Canisters - Air (122)

HSOP55; based on EPA TO-15

GC/MS

RDL Range

1-Butene
 1-Hexene
 1-Pentene
 1,1-Dichloroethane
 1,1-Dichloroethene
 1,1,1-Trichloroethane
 1,1,2-Trichloroethane
 1,1,2,2-Tetrachloroethane
 1,2-Dibromoethane
 1,2-Dichlorobenzene
 1,2-Dichloroethane
 1,2-Dichloropropane
 1,2,4-Trichlorobenzene
 1,2,4-Trimethylbenzene
 1,3-Dichlorobenzene
 1,3,5-Trimethylbenzene
 1,4-Dichlorobenzene
 Benzene
 Bromomethane
 Carbon tetrachloride
 Chlorobenzene
 Chloroform
 Chloromethane
 cis-1,2-Dichloroethylene
 cis-1,3-Dichloropropene
 Dichloromethane
 Ethyl chloride
 Ethylbenzene
 Halocarbon 11
 Halocarbon 113
 Halocarbon 114

Halocarbon 12
 Hexachloro-1,3-butadiene
 m/p-xylene
 n-Butane
 n-Hexane
 n-Pentane
 o-xylene
 Styrene
 Tetrachloroethylene
 Toluene
 trans-1,3-Dichloropropene
 Trichlorethylene
 Vinyl Chloride

Air Filter

Metals - Air (016)

ISOP 32 / ISOP 96; based on EPA 3051/200.8

ICP/MS - DIGESTION

RDL Range

Aluminum

Barium

Beryllium

Cadmium

Calcium

Chromium

Cobalt

Copper

Iron

Lead

Magnesium

Manganese

Mercury

Molybdenum

Nickel

Potassium

Silver

Sodium

Strontium

Thallium

Tin

Vanadium

Zinc

Air (Occupational Health)

Asbestos - Air (Occupational Health) (113)

HSOP 36; based on NIOSH 7400

PCM FIBRE COUNTING

RDL Range

Asbestos- Ha Nguyen

Asbestos-Mr. Sivan Nair

Biological

Dioxins/Furans - Biological (086)

UTCSOP18; based on EPA 1613, EPS 1/RM/19

HRGC/HRMS - EXTRACTION

RDL Range

1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

1,2,3,4,6,7,8-Heptachlorodibenzofuran

1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

1,2,3,4,7,8-Hexachlorodibenzofuran

1,2,3,4,7,8,9-Heptachlorodibenzofuran

1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

1,2,3,6,7,8-Hexachlorodibenzofuran

1,2,3,7,8-Pentachlorodibenzofuran

1,2,3,7,8-Pentachlorodibenzo-p-dioxin

1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

1,2,3,7,8,9-Hexachlorodibenzofuran

2,3,4,6,7,8-Hexachlorodibenzofuran

2,3,4,7,8-Pentachlorodibenzofuran

2,3,7,8-Tetrachlorodibenzo-p-dioxin

2,3,7,8-Tetrachlorodibenzofuran

Heptachlorodibenzo-p-dioxins (Total)
Heptachlorodibenzofurans (Total)
Hexachlorodibenzo-p-dioxins (Total)
Hexachlorodibenzofurans (Total)
Octachlorodibenzo-p-dioxin
Octachlorodibenzofuran
Pentachlorodibenzo-p-dioxins (Total)
Pentachlorodibenzofurans (Total)
Tetrachlorodibenzo-p-dioxins (Total)
Tetrachlorodibenzofurans (Total)

Biological

Mercury - Biological (054)

ISOP 52 / ISOP 12; based on SM 2711/1599

COLD VAPOR AA - DIGESTION

RDL Range

Mercury

Biological

Metals - Biological (060)

ISOP 77 / ISOP 96; based on EPA 3051/200.8

ICP/MS - DIGEST

RDL Range

Aluminum

Antimony

Arsenic

Barium

Beryllium

Cadmium

Calcium

Chromium

Cobalt

Copper

Iron

Lead

Lithium

Magnesium

Manganese

Mercury

Molybdenum

Nickel

Potassium

Selenium

Silver

Sodium

Strontium

Thallium

Uranium

Vanadium

Zinc

Biological

Polychlorinated Biphenyls (PCB) - Biological (089)

UTCSOP18; based on EPA 1668A

HRGC/HRMS - EXTRACTION

RDL Range

PCB 1

PCB 101

PCB 104

PCB 105

PCB 110

PCB 114

PCB 118

PCB 119

PCB 123

PCB 126

PCB 128

PCB 137

PCB 138

PCB 146

PCB 149

PCB 15
PCB 151
PCB 153
PCB 155
PCB 156
PCB 157
PCB 158
PCB 167
PCB 168
PCB 169
PCB 170
PCB 172
PCB 177
PCB 178
PCB 18
PCB 180
PCB 183
PCB 187
PCB 188
PCB 189
PCB 19
PCB 191
PCB 194
PCB 195
PCB 196/206
PCB 199
PCB 201
PCB 202
PCB 205
PCB 206
PCB 208
PCB 209
PCB 28
PCB 3
PCB 33
PCB 37
PCB 4
PCB 44
PCB 49
PCB 52
PCB 54
PCB 56
PCB 66
PCB 70
PCB 74
PCB 77
PCB 8
PCB 81
PCB 87
PCB 99
Total DiCBs
Total HpCBs
Total HxCBs
Total NoCBs
Total OcCBs
Total PCBs
Total PeCBs
Total TeCBs
Total TrCBs

Oil
Total PCB - Oil (002)
MSOP 8; based on EPA 8080, ASTM D4059
GC/ECD - EXTRACTION
Total PCB

RDL Range

Soil/Sediment

Chlorinated and Non-Chlorinated Phenolics - Soil (077)

MSOP70; based on EPA 8270/3540

GC/MS - EXTRACTION

RDL Range

2-Chlorophenol
 2-Methylphenol (o-Cresol)
 2-Nitrophenol
 2,3-Dichlorophenol
 2,3,4-Trichlorophenol
 2,3,4,5-Tetrachlorophenol
 2,3,4,6 Tetrachlorophenol
 2,3,5-Trichlorophenol
 2,3,5,6-Tetrachlorophenol
 2,3,6-Trichlorophenol
 2,4 & 2,5-Dichlorophenol
 2,4-Dimethylphenol
 2,4-Dinitrophenol
 2,4,5-Trichlorophenol
 2,4,6-Trichlorophenol
 2,6-Dichlorophenol
 3-Chlorophenol
 3-Methylphenol (m-Cresol)
 3,4-Dichlorophenol
 3,4,5-Trichlorophenol
 3,5-Dichlorophenol
 4-Chloro-3-methylphenol
 4-Chlorophenol
 4-Methylphenol (p-Cresol)
 4-Nitrophenol
 4,6-Dinitro-2-methylphenol
 Pentachlorophenol
 Phenol

Soil/Sediment

Dioxins/Furans - Soil/Sediment (085)

UTC SOP18; based on EPA 1613, EPS 1/RM/19

HRGC/HRMS - EXTRACTION

RDL Range

1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
 1,2,3,4,6,7,8-Heptachlorodibenzofuran
 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
 1,2,3,4,7,8-Hexachlorodibenzofuran
 1,2,3,4,7,8,9-Heptachlorodibenzofuran
 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
 1,2,3,6,7,8-Hexachlorodibenzofuran
 1,2,3,7,8-Pentachlorodibenzofuran
 1,2,3,7,8-Pentachlorodibenzo-p-dioxin
 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
 1,2,3,7,8,9-Hexachlorodibenzofuran
 2,3,4,6,7,8-Hexachlorodibenzofuran
 2,3,4,7,8-Pentachlorodibenzofuran
 2,3,7,8-Tetrachlorodibenzo-p-dioxin
 2,3,7,8-Tetrachlorodibenzofuran
 Heptachlorodibenzo-p-dioxins (Total)
 Heptachlorodibenzofurans (Total)
 Hexachlorodibenzo-p-dioxins (Total)
 Hexachlorodibenzofurans (Total)
 Octachlorodibenzo-p-dioxin
 Octachlorodibenzofuran
 Pentachlorodibenzo-p-dioxins (Total)
 Pentachlorodibenzofurans (Total)
 Tetrachlorodibenzo-p-dioxins (Total)
 Tetrachlorodibenzofurans (Total)

Soil/Sediment

Extractable Petroleum Hydrocarbons (EPH) - Soil (109)

MSOP 119; based on BC MELP EPH IN SOLIDS BY GC/FID

GC/FID - EXTRACTION

RDL Range

EPH 10-19

EPH 19-32

HEPH

LEPH

Soil/Sediment

Grain Size - Soil (028)

ISOP 68; based on ASTM D422-63

SIEVING

RDL Range

Grain Size

Soil/Sediment

Hydride Metals - Soil (024)

ISOP 52 / ISOP 53; based on SM 3114 C

HYDRIDE AA - DIGESTION

RDL Range

Antimony

Arsenic

Selenium

Soil/Sediment

Mercury - Soil (025)

ISOP 52 / ISOP 12; based on SM 3112 B, 2711, 1599

COLD VAPOUR AA - DIGESTION

RDL Range

Mercury

Soil/Sediment

Metals - Soil (023)

ISOP 50 / ISOP 96; based on EPA 3051/6020

ICP/MS - DIGESTION

RDL Range

Aluminum

Barium

Beryllium

Cadmium

Calcium

Chromium

Cobalt

Copper

Iron

Lead

Magnesium

Manganese

Mercury

Molybdenum

Nickel

Phosphorus

Potassium

Silver

Sodium

Strontium

Thallium

Tin

Titanium

Vanadium

Zinc

Soil/Sediment

Oil And Grease - Soil (029)

ISOP 13; based on EPA 5520

GRAVIMETRIC - EXTRACTION

RDL Range

Oil and Grease

Soil/Sediment

Particle Size - Soil (110)

ETLSOP7_1; based on CARTER - HYDROMETER

PARTICLE SIZE

RDL Range

% Clay

% Sand

% Silt

Soil/Sediment

Petroleum Hydrocarbons (PHC) - Soil (072)

MSOP 142; based on ISBN 1-896997-01-5

GC/MS/FID - EXTRACTION

RDL Range

Benzene
Ethylbenzene
m/p-xylene
o-xylene
Toluene

Soil/Sediment

Petroleum Hydrocarbons (PHC) - Soil (073)

MSOP 139; based on ISBN 1-896997-01-5

GC/FID - EXTRACTION

RDL Range

F2: C10-C16

F3: C16-C34

F4: C34-C50

Soil/Sediment

Petroleum Hydrocarbons (PHC) - Soil (129)

MSOP139; CCME

GC/FID - EXTRACTION

RDL Range

F2: C10-C16

F3: C16-C34

F4: C34-C50

Soil/Sediment

Petroleum Hydrocarbons (PHC) - Soil (130)

MSOP139; CCME

GRAVIMETRIC

RDL Range

F4G-SG: Gravimetric Heavy Hydrocarbons - Silica

Soil/Sediment

Petroleum Hydrocarbons (PHC) - Soil (133)

MSOP 142; based on ISBN 1-896997-01-5

GC/FID - PURGE AND TRAP

RDL Range

F1: C6-C10

Soil/Sediment

pH/Conductivity - Soil (099)

ISOP 49 / ISOP 18 / ISOP19 / ISOP26; based on MCKEAGUE 3.21, based on CARTER CSSS 18.4

SATURATED PASTE, METER

RDL Range

Conductivity

pH

SAR

Soil/Sediment

pH/Conductivity - Soil (100)

ISOP 18 / ISOP 19; based on CARTER CSSS 16.2

1:2 EXTRACTION, METER

RDL Range

Conductivity

pH

Soil/Sediment

Polychlorinated Biphenyls (PCB) - Soil/Sediment (088)

UTCSOP18; based on EPA 1668A

HRGC/HRMS - EXTRACTION

RDL Range

PCB 1

PCB 101

PCB 104

PCB 105

PCB 110

PCB 114

PCB 118

PCB 119

PCB 123

PCB 126

PCB 128

PCB 137

PCB 138

PCB 146

PCB 149

PCB 15

PCB 151

PCB 153

PCB 155

PCB 156
PCB 157
PCB 158
PCB 167
PCB 168
PCB 169
PCB 170
PCB 172
PCB 177
PCB 178
PCB 18
PCB 180
PCB 183
PCB 187
PCB 188
PCB 189
PCB 19
PCB 191
PCB 194
PCB 195
PCB 196/206
PCB 199
PCB 201
PCB 202
PCB 205
PCB 206
PCB 208
PCB 209
PCB 28
PCB 3
PCB 33
PCB 37
PCB 4
PCB 44
PCB 49
PCB 52
PCB 54
PCB 56
PCB 66
PCB 70
PCB 74
PCB 77
PCB 8
PCB 81
PCB 87
PCB 99
Total DiCBs
Total HpCBs
Total HxCBs
Total NoCBs
Total OcCBs
Total PCBs
Total PeCBs
Total TeCBs
Total TrCBs

Soil/Sediment

Polycyclic Aromatic Hydrocarbons (PAH) - Soil (064)

MSOP 143; based on EPA 8270/3540

GC/MS - EXTRACTION	RDL Range
1,3-Dimethylnaphthalene	
1,3-Methylnaphthalene	
2-Methylantracene	
2-Methylnaphthalene	
3-Methylcholanthrene	
Acenaphthene	

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

Soil/Sediment

Total PCB - Soil (097)

MSOP 7; based on EPA 3550/8082

GC/ECD - EXTRACTION

RDL Range

Total PCB

Soil/Sediment

Volatile Organic Compounds (VOC) - Soil (101)

MSOP 50; based on EPA SW846 METHODS 5021/8260B

GC/MS - HEADSPACE

RDL Range

1,1-Dichloroethane

1,1-Dichloroethylene

1,1,1 - Trichloroethane

1,1,2,2-Tetrachloroethane

1,2-Dibromomethane

1,2-Dichlorobenzene

1,2-Dichloroethane

1,2-Dichloropropane

1,2,3-Trichloropropane

1,3-Dichlorobenzene

1,4-Dichlorobenzene

2-Butanone (MEK)

2-Hexanone

4-Methyl-2-Pentanone (MIBK)

Acetone

Acrylonitrile

Benzene

Bromodichloromethane

Bromoform

Bromomethane

Carbon Disulphide

Carbon Tetrachloride

Chlorobenzene

Chlorodibromomethane

Chloroethane

Chloroform

Chloromethane

cis-1,3-Dichloropropene

cis-1,4-Dichloro-2-Butene

Dibromomethane

Dichlorodifluoromethane

Dichloromethane

Ethyl Alcohol

Ethyl Methacrylate

Ethylbenzene

m/p-xylene

Methyl Iodide

o-xylene

Tetrachlorethylene
 Thiophene
 Toluene
 trans 1,2-Dichloroethene
 trans 1,3-Dichloropropene
 trans-1,4-Dichloro-2-butene
 Trichlorethylene
 Trichlorfluoromethane
 Vinyl Chloride

Waste		
Flashpoint - Waste (055)		
ISOP 48; ASTM 93-D		
PENSKE-MARTEN CLOSED CUP		RDL Range
Flashpoint		
Water (Inorganic)		
Alkalinity - Water (004)		
ISOP 117; based on SM 2320 B		
TITRIMETRIC		RDL Range
Alkalinity (pH 4.5)		5 - 25 mg/L
Water (Inorganic)		
Ammonia - Water (050)		
ISOP 106; based on EPA 300.7		
ION CHROMATOGRAPHY		RDL Range
Ammonia		.05 - .25 mg/L
Water (Inorganic)		
Biochemical Oxygen Demand (BOD) - Water (013)		
ISOP 28; based on SM 5210B		
D.O. METER		RDL Range
BOD (5 day)		
Water (Inorganic)		
Carbon - Water (118)		
ISOP 6; based on SM 5310 B		
IR - COMBUSTION		RDL Range
Dissolved Inorganic Carbon (DIC)		
DOC		1 - 5 mg/L
Total Carbon (TC)		
Total Inorganic Carbon (TIC)		
Total Organic Carbon (TOC)		
Water (Inorganic)		
Chemical Oxygen Demand (COD) - Water (051)		
ISOP 30; based on SM 5220 D		
COLOR - DIGESTION		RDL Range
COD		5 - 25 mg/L
Water (Inorganic)		
Chlorate/Chlorite - Water (056)		
ISOP 24; based on EPA 300.B		
ION CHROMATOGRAPHY		RDL Range
Chlorate		
Chlorite		
Water (Inorganic)		
Chlorine - Water (123)		
ISOP124; based on SM 4500 CL-A,F,G		
COLORIMETRIC		RDL Range
Chlorine, Free		
Residual Chlorine		.1 - .5 mg/L
Water (Inorganic)		
Chromium (Hexavalent) - Water (035)		
ISOP 108; based on SM 3500-CR,C		
ION CHROMATOGRAPHY		RDL Range
Chromium (Hexavalent)		
Water (Inorganic)		
Chromium - Water (111)		
ISOP 122; based on APHA 3113 B		
AA GRAPHITE - FILTRATION		RDL Range
Dissolved Chromium		.0001 - .0005 mg/L

Water (Inorganic)		
Colour - Water (037)		
ISOP 87; based on CPP H.5P		
COLORIMETRIC		RDL Range
Colour		
Water (Inorganic)		
Conductivity - Water (006)		
ISOP 117; based on SM 2510 B		
CONDUCTIVITY METER		RDL Range
Conductivity (25°C)		.1 - .5 µs/cm
Water (Inorganic)		
Dissolved Metals - Water (007)		
ISOP 96; based on EPA 6020		
ICP/MS		RDL Range
Dissolved Aluminum		.01 - .05 mg/L
Dissolved Barium		.0001 - .0005 mg/L
Dissolved Beryllium		.0005 - .0025 mg/L
Dissolved Boron		.001 - .005 mg/L
Dissolved Cadmium		.0001 - .0005 mg/L
Dissolved Chromium		.0001 - .0005 mg/L
Dissolved Cobalt		.0001 - .0005 mg/L
Dissolved Copper		.0005 - .0025 mg/L
Dissolved Lead		.0001 - .0005 mg/L
Dissolved Mercury		
Dissolved Molybdenum		.0001 - .0005 mg/L
Dissolved Nickel		.0001 - .0005 mg/L
Dissolved Silver		.0001 - .0005 mg/L
Dissolved Strontium		.0001 - .0005 mg/L
Dissolved Thallium		.00005 - .00025 mg/L
Dissolved Tin		.0001 - .0005 mg/L
Dissolved Vanadium		.0001 - .0005 mg/L
Dissolved Zinc		.001 - .005 mg/L
Water (Inorganic)		
Fluoride - Water (008)		
ISOP 117; based on SM 4500-F,C		
SELECTIVE ION ELECTRODE		RDL Range
Fluoride		.05 - .25 mg/L
Water (Inorganic)		
Hydride Metals - Water (036)		
ISOP 51 / ISOP 53; based on SM 3114 C		
HYDRIDE FLAME AA - DIGESTION		RDL Range
Total Antimony		.1 - .5 µg/L
Total Arsenic		.1 - .5 µg/L
Total Selenium		.1 - .5 µg/L
Water (Inorganic)		
Major Ions - Water (005)		
ISOP 46 / ISOP 29; based on SM 4110 B		
ION CHROMATOGRAPHY		RDL Range
Bromide		.1 - .5 mg/L
Chloride		.1 - .5 mg/L
Nitrate		.01 - .05 mg/L
Phosphate		.05 - .25 mg/L
Sulfate		.5 - 2.5 mg/L
Water (Inorganic)		
Mercury - Water (034)		
ISOP 67 / ISOP 12; based on SM 3112 B		
COLD VAPOUR AA - DIGESTION		RDL Range
Mercury		.1 - .5 µg/L
Water (Inorganic)		
Metals (Ultra Trace) - Water (061)		
ISOP 96; based on EPA 6020		
ICP/MS		RDL Range
Calcium		
Dissolved Aluminum		
Dissolved Barium		

Dissolved Beryllium
 Dissolved Boron
 Dissolved Cadmium
 Dissolved Chromium
 Dissolved Cobalt
 Dissolved Copper
 Dissolved Iron
 Dissolved Lead
 Dissolved Manganese
 Dissolved Molybdenum
 Dissolved Nickel
 Dissolved Silver
 Dissolved Thallium
 Dissolved Tin
 Dissolved Vanadium
 Dissolved Zinc
 Magnesium
 Mercury
 Potassium
 Sodium
 Strontium
 Total Antimony
 Total Arsenic
 Total Selenium
 Uranium

Water (Inorganic)

Nitrate/Nitrite - Water (057)

ISOP 22 / ISOP 23; based on SM 4500-NO₂,B / SM 4500-NO₃,H

COLOR	RDL Range
Nitrate plus Nitrite	.1 - .5 mg/L
Nitrite	.05 - .25 mg/L

Water (Inorganic)

Oil and Grease - Water (038)

ISOP 14; based on SM 5520 A,B,F

GRAVIMETRIC - SHAKE	RDL Range
Total Oil and Grease	

Water (Inorganic)

Oil and Grease - Water (059)

ISOP 41; based on EPA 1664, SM 5520

GRAVIMETRIC	RDL Range
Total Oil and Grease	

Water (Inorganic)

Orthophosphate - Water (084)

ISOP 99; based on SM 4500-P

COLORIMETRIC	RDL Range
Phosphate	.01 - .05 mg/L

Water (Inorganic)

pH - Water (015)

ISOP 117; based on SM 4500-H,B

pH METER	RDL Range
pH	

Water (Inorganic)

Phosphorus - Water (011)

ISOP 99; based on SM 4500-P,B,E

COLOR - DIGESTION	RDL Range
Total Dissolved Phosphorus	
Total Phosphorus	.01 - .05 mg/L

Water (Inorganic)

Phosphorus - Water (119)

ISOP93, ISOP 128; based on SM 4500-P B, E

COLORIMETRIC	RDL Range
Inorganic Phosphorus	

Water (Inorganic)

Routine Metals - Water (083)

ISOP 26 / ISOP 100; based on SM 3120B

ICP	RDL Range
Calcium	
Dissolved Calcium	.5 - 2.5 mg/L
Dissolved Iron	.005 - .025 mg/L
Dissolved Magnesium	.1 - .5 mg/L
Dissolved Manganese	.001 - .005 mg/L
Iron	
Magnesium	
Manganese	
Potassium	.1 - .5 mg/L
Sodium	1 - 5 mg/L

Water (Inorganic)

Solids - Water (012)

ISOP 21; based on SM 2540 A,B,C,D,E

GRAVIMETRIC	RDL Range
Total Dissolved Solids	
Total Suspended Solids	1 - 5 mg/L

Water (Inorganic)

Sulfide - Water (033)

ISOP 2; based on SM 4500-S2 A, D,E

COLORIMETRIC	RDL Range
Sulfide	

Water (Inorganic)

Total Chromium - Water (115)

ISOP 7 / ISOP 122; based on APHA 3113 B

AA GRAPHITE - FILTRATION	RDL Range
Total Chromium	

Water (Inorganic)

Total Kjeldahl Nitrogen (TKN) - Water (010)

ISOP 79; based on AB ENVIR. 235

COLOR - DIGESTION	RDL Range
Total Kjeldahl Nitrogen	.1 - .5 mg/L

Water (Inorganic)

Total Metals - Water (081)

ISOP 7 / ISOP 100; based on EPA 3015/6010

ICP - DIGESTION	RDL Range
Total Calcium	
Total Iron	
Total Magnesium	
Total Manganese	
Total Potassium	
Total Silicon	
Total Sodium	
Total Sulfur	

Water (Inorganic)

Total Metals - Water (082)

ISOP 7 / ISOP 96; based on EPA 3015/6020

ICP/MS - DIGESTION	RDL Range
Total Aluminum	
Total Barium	
Total Beryllium	
Total Boron	
Total Cadmium	
Total Chromium	
Total Cobalt	
Total Copper	
Total Lead	
Total Mercury	
Total Molybdenum	
Total Nickel	
Total Silver	
Total Strontium	
Total Thallium	
Total Tin	
Total Vanadium	

Total Zinc

Water (Inorganic)

Turbidity - Water (078)

ISOP 38; based on SM 2130 A,B

TURBIDIMETRIC

RDL Range

Turbidity

.1 - .5 NTU

Water (Organic)

Base/Neutral Extractables - Water (117)

MSOP 161; based on EPA 3510/8270

GC/MS - EXTRACTION

RDL Range

1,2,3-Trichlorobenzene

1,2,4-Trichlorobenzene

2-Chloronaphthalene

2,4-Dinitrotoluene

2,6-Dinitrotoluene

Hexachlorobenzene

Hexachlorobutadiene

Hexachlorocyclopentadiene

Hexachloroethane

Pentachlorobenzene

Water (Organic)

Chlorinated and Non-Chlorinated Phenolics - Water (076)

MSOP71; based on EPA 8270/3510

GC/MS - EXTRACTION

RDL Range

2-Chlorophenol

2-Methylphenol (o-Cresol)

2-Nitrophenol

2,3-Dichlorophenol

2,3,4-Trichlorophenol

2,3,4,5-Tetrachlorophenol

2,3,4,6 Tetrachlorophenol

2,3,5-Trichlorophenol

2,3,5,6-Tetrachlorophenol

2,3,6-Trichlorophenol

2,4 & 2,5-Dichlorophenol

2,4-Dimethylphenol

2,4-Dinitrophenol

2,4,5-Trichlorophenol

2,4,6-trichlorophenol

2,6-Dichlorophenol

3-Chlorophenol

3-Methylphenol (m-Cresol)

3,4-Dichlorophenol

3,4,5-Trichlorophenol

3,5-Dichlorophenol

4-Chloro-3-methylphenol

4-Chlorophenol

4-Methylphenol (p-Cresol)

4-Nitrophenol

4,6-Dinitro-2-methylphenol

Pentachlorophenol

Phenol

Water (Organic)

Chlorophenols - Water (019)

MSOP 42; based on EPA 1653 AND ALBERTA ENVIRONMENT 130.0

GC/MS - EXTRACTION

RDL Range

2-Chlorophenol

2-Chlorosyringaldehyde

2,4,5-Trichlorophenol

2,6-Dichlorophenol

2,6-Dichlorosyringaldehyde

3,4-Dichlorocatechol

3,4-Dichloroguaiacol

3,4,5-Trichlorocatechol

3,4,5-Trichloroguaiacol

3,4,5-Trichloroveratrole
 3,4,6-Trichlorocatechol
 3,4,6-Trichloroguaiacol
 3,5-Dichlorocatechol
 3,6-Dichlorocatechol
 4-Chlorocatechol
 4-Chloroguaiacol
 4-Chlorophenol
 4,5-Dichlorocatechol
 4,5-Dichloroguaiacol
 4,5-Dichloroveratrole
 4,5,6-Trichloroguaiacol
 4,5,6-Trichlorosyringol
 4,6-Dichloroguaiacol
 5-Chlorovanillin
 5,6-Dichlorovanillin
 6-Chlorovanillin
 Tetrachlorocatechol
 Tetrachloroguaiacol
 Tetrachloroveratrole
 Trichlorotrimethoxybenzene

Water (Organic)

Dioxins/Furans - Water (049)

UTC SOP 17; based on EPA 1613, EPS 1/RM/19

GC/HRMS - EXTRACTION

RDL Range

1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
 1,2,3,4,6,7,8-Heptachlorodibenzofuran
 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
 1,2,3,4,7,8-Hexachlorodibenzofuran
 1,2,3,4,7,8,9-Heptachlorodibenzofuran
 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
 1,2,3,6,7,8-Hexachlorodibenzofuran
 1,2,3,7,8-Pentachlorodibenzo-p-dioxin
 1,2,3,7,8-Pentachlorodibenzofuran
 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
 1,2,3,7,8,9-Hexachlorodibenzofuran
 2,3,4,6,7,8-Hexachlorodibenzofuran
 2,3,4,7,8-Pentachlorodibenzofuran
 2,3,7,8-Tetrachlorodibenzo-p-dioxin
 2,3,7,8-Tetrachlorodibenzofuran
 Heptachlorodibenzo-p-dioxins (Total)
 Heptachlorodibenzofurans (Total)
 Hexachlorodibenzo-p-dioxins (Total)
 Hexachlorodibenzofurans (Total)
 Octachlorodibenzo-p-dioxin
 Octachlorodibenzofuran
 Pentachlorodibenzo-p-dioxins (Total)
 Pentachlorodibenzofurans (Total)
 Tetrachlorodibenzo-p-dioxins (Total)
 Tetrachlorodibenzofurans (Total)

Water (Organic)

Extractable Petroleum Hydrocarbons (EPH) - Water (108)

MSOP 125; based on BC MELP EPH IN WATER BY GC/FID

GC/FID - EXTRACTION

RDL Range

EPH 10-19
 EPH 19-32
 HEPH
 LEPH

Water (Organic)

Formaldehyde - Water (116)

MSOP47; based on ENVIRONMENTAL SCIENCE AND TECHNOLOGY, 1989, 23:838-847

GC/MS - EXTRACTION

RDL Range

Formaldehyde

Water (Organic)

Pesticides - Water (066)

PSOP 101; based on JOAC VOL. 74, #3, 1991

GC/MS - EXTRACTION/DERIV

RDL Range

2,4-dichlorophenoxyacetic acid

2,4,5-trichlorophenoxyacetic acid

Bromoxynil

Dicamba

Diclofop-methyl (as free acid)

Dinoseb

Picloram

Water (Organic)

Petroleum Hydrocarbons (PHC) - Water (074)

MSOP 142; based on EPA 5030/8015

GC/FID - PURGE AND TRAP

RDL Range

F1: C6-C10

Water (Organic)

Petroleum Hydrocarbons (PHC) - Water (075)

MSOP 141; based on EPA 3510/8015

GC/FID - EXTRACTION

RDL Range

F2: C10-C16

Water (Organic)

Polychlorinated Biphenyls (PCB) - Water (087)

UTCSOP17; based on EPA 1668 A

HRGC/HRMS - EXTRACTION

RDL Range

PCB 1

PCB 101

PCB 104

PCB 105

PCB 110

PCB 114

PCB 118

PCB 119

PCB 123

PCB 126

PCB 128

PCB 137

PCB 138

PCB 146

PCB 149

PCB 15

PCB 151

PCB 153

PCB 155

PCB 156

PCB 157

PCB 158

PCB 167

PCB 168

PCB 169

PCB 170

PCB 172

PCB 177

PCB 178

PCB 18

PCB 180

PCB 183

PCB 187

PCB 188

PCB 189

PCB 19

PCB 191

PCB 194

PCB 195

PCB 196/206

PCB 199

PCB 201

PCB 202
PCB 205
PCB 206
PCB 208
PCB 209
PCB 28
PCB 3
PCB 33
PCB 37
PCB 4
PCB 44
PCB 49
PCB 52
PCB 54
PCB 56
PCB 66
PCB 70
PCB 74
PCB 77
PCB 8
PCB 81
PCB 87
PCB 99
Total DiCBs
Total HpCBs
Total HxCBs
Total NoCBs
Total OcCBs
Total PeCBs
Total TeCBs
Total TrCBs

Water (Organic)

Polycyclic Aromatic Hydrocarbons (PAH) - Water (003)

MSOP 5; based on EPA 8270/3510

GC/MS - EXTRACTION

RDL Range

1-Methylnaphthalene
1,3-Dimethylnaphthalene
2-Methylanthracene
2-Methylnaphthalene
3-Methylcholanthrene
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Fluoranthene
Fluorene
Indeno (1,2,3 - cd) pyrene
Naphthalene
Phenanthrene
Pyrene

Water (Organic)

Resin and Fatty Acids - Water (020)

MSOP 26; based on ALBERTA ENVIRONMENT 129.0

GC/MS - EXTRACTION

RDL Range

12-Chlorodehydroabietic Acid
12,14-Dichlorodehydroabietic Acid
14-Chlorodehydroabietic Acid

9,10-Dichlorostearic Acid
Abietic Acid
Arachidic Acid
Dehydroabietic Acid
Isopimaric Acid
Levopimaric Acid
Linolenic Acid
Myristic Acid
Neoabietic Acid
Oleic Acid
Palmitic Acid
Palustric Acid
Pimaric Acid
Sandaracopimaric Acid
Stearic Acid

Water (Organic)

Resin and Fatty Acids - Water (132)

MSOP26; ALBERTA ENVIRONMENT 129.0

GC/MS - EXTRACTION

RDL Range

12-Chlorodehydroabietic acid
12,14-Dichlorodehydroabietic acid
14-Chlorodehydroabietic acid
9,10-Dichlorostearic acid
Abietic acid
Arachidic acid
Dehydroabietic Acid
Isopimaric acid
Levopimaric acid
Linoleic Acid
Linolenic Acid
Myristic acid
Neoabietic acid
Oleic Acid
Palmitic Acid
Palustric acid
Pimaric acid
Sandaracopimaric acid
Stearic Acid

Water (Organic)

Total PCB - Water (096)

MSOP4; based on EPA 3510/8082

GC/ECD - EXTRACTION

RDL Range

Total PCB

Water (Organic)

Volatile Organic Compounds (VOC) - Water (009)

MSOP 12; based on EPA 8240/5030

GC/MS - PURGE & TRAP

RDL Range

1,1-Dichloroethane
1,1-dichloroethylene
1,1,1-Trichloroethane
1,1,2-Trichloroethane
1,1,2,2-Tetrachloroethane
1,2-Dibromoethane
1,2-dichlorobenzene
1,2-dichloroethane
1,2-Dichloropropane
1,2,3-Trichloropropane
1,3-Dichlorobenzene
1,4-dichlorobenzene
2-Butanone (MEK)
2-Hexanone
4-Methyl-2-Pentanone (MIBK)
Acetone
Acrylonitrile
Benzene

Bromodichloromethane
 Bromoform
 Bromomethane
 Carbon Disulphide
 Carbon Tetrachloride
 Chlorobenzene
 Chlorodibromomethane
 Chloroethane
 Chloroform
 Chloromethane
 cis-1,3-Dichloropropene
 cis-1,4-Dichloro-2-Butene
 Dibromomethane
 Dichlorodifluoromethane
 Dichloromethane
 Ethyl Alcohol
 Ethyl Methacrylate
 Ethylbenzene
 m/p-xylene
 Methyl Iodide
 o-xylene
 Styrene
 Tetrachloroethylene
 Toluene
 trans-1,2-Dichloroethene
 trans-1,3-Dichloropropene
 trans-1,4-Dichloro-2-Butene
 Trichloroethylene
 Trichlorofluoromethane
 Vinyl Chloride

Water (Organic)

Volatiles - Water (114)

MSOP 50; based on EPA SW846 METHOD 8260 B

GC/MS - HEADSPACE

RDL Range

1,1-Dichloroethane
 1,1-dichloroethylene
 1,1,1-Trichloroethane
 1,1,2-Trichloroethane
 1,1,2,2-Tetrachloroethane
 1,2-Dibromoethane
 1,2-dichlorobenzene
 1,2-dichloroethane
 1,2-Dichloropropane
 1,2,3-Trichloropropane
 1,3-Dichlorobenzene
 1,4-dichlorobenzene
 2-Butanone (MEK)
 2-Hexanone
 4-Methyl-2-Pentanone (MIBK)
 Acetone
 Acrylonitrile
 Benzene
 Bromodichloromethane
 Bromoform
 Bromomethane
 Carbon Disulphide
 Carbon Tetrachloride
 Chlorobenzene
 Chlorodibromomethane
 Chloroethane
 Chloroform
 Chloromethane
 cis-1,3-Dichloropropene
 cis-1,4-Dichloro-2-Butene
 Dibromomethane

Dichlorodifluoromethane
Dichloromethane
Ethyl Alcohol
Ethyl Methacrylate
Ethylbenzene
m/p-xylene
Methyl Iodide
o-xylene
Styrene
Tetrachloroethylene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
trans-1,4-Dichloro-2-Butene
Trichloroethylene
Trichlorofluoromethane
Vinyl Chloride
