

The State of  
Department



Washington  
of Ecology

UL LLC  
South Bend, IN

has complied with provisions set forth in Chapter 173-50 WAC and is hereby recognized by the Department of Ecology as an ACCREDITED LABORATORY for the analytical parameters listed on the accompanying Scope of Accreditation. This certificate is effective January 1, 2012 and shall expire December 31, 2012.

Witnessed under my hand on December 19, 2011

Alan D. Rue  
Lab Accreditation Unit Supervisor

Laboratory ID  
C837

# WASHINGTON STATE DEPARTMENT OF ECOLOGY

## ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM

### SCOPE OF ACCREDITATION

#### UL LLC

#### South Bend, IN

is accredited for the analytes listed below using the methods indicated. Full accreditation is granted unless stated otherwise in a note. Accreditation for U.S. Environmental Protection Agency (EPA) "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods" (SW-846) is for the latest version of the method. SM refers to EPA approved editions of "Standard Methods for the Examination of Water and Wastewater." ASTM is the American Society for Testing and Materials. Other references are described in notes.

Matrix/Analyte	Method	Notes
<b>Drinking Water</b>		
Turbidity	EPA 180.1	1
Bromide	EPA 300.0	1
Chlorate	EPA 300.0	1
Chloride	EPA 300.0	1
Chlorite	EPA 300.0	1
Fluoride	EPA 300.0	1
Nitrate	EPA 300.0	1
Sulfate	EPA 300.0	1
Bromate	EPA 300.1	1
Perchlorate	EPA 314.0	1
Bromate	EPA 317.0	1
Perchlorate	EPA 331.0	1
Cyanide, Total	EPA 335.4	1
Nitrate	EPA 353.2	1
Nitrite	EPA 353.2	1
Cyanide, Total	Lachat 10-204-00-1-X Rev 2.1 (2000)	1
Color	SM 2120 B 20th ED (1998)	1
Alkalinity as CaCO <sub>3</sub>	SM 2320 B 21st ED (2005)	1
Hardness (calc.)	SM 2340 B 21st ED (2005)	1

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Matrix/Analyte	Method	Notes
Conductivity	SM 2510 B 21st ED (2005)	1
Residue-filterable (TDS)	SM 2540 C 21st ED (2005)	1
Fluoride	SM 4500-F C	1
Orthophosphate as P	SM 4500-P E 21st ED (2005)	1
Total organic carbon	SM 5310 C 21st ED (2005)	1
UV 254	SM 5910 B 21st ED (2005)	1
Fluoride	Tech 380-75WE	1
Aluminum	EPA 200.7_4.4_1994	1
Calcium	EPA 200.7_4.4_1994	1
Iron	EPA 200.7_4.4_1994	1
Magnesium	EPA 200.7_4.4_1994	1
Manganese	EPA 200.7_4.4_1994	1
Silica as SiO <sub>2</sub>	EPA 200.7_4.4_1994	1
Silver	EPA 200.7_4.4_1994	1
Sodium	EPA 200.7_4.4_1994	1
Aluminum	EPA 200.8_5.4_1994	1
Antimony	EPA 200.8_5.4_1994	1
Arsenic	EPA 200.8_5.4_1994	1
Barium	EPA 200.8_5.4_1994	1
Beryllium	EPA 200.8_5.4_1994	1
Cadmium	EPA 200.8_5.4_1994	1
Chromium	EPA 200.8_5.4_1994	1
Copper	EPA 200.8_5.4_1994	1
Lead	EPA 200.8_5.4_1994	1
Manganese	EPA 200.8_5.4_1994	1
Nickel	EPA 200.8_5.4_1994	1
Selenium	EPA 200.8_5.4_1994	1
Silver	EPA 200.8_5.4_1994	1
Thallium	EPA 200.8_5.4_1994	1
Uranium	EPA 200.8_5.4_1994	1
Zinc	EPA 200.8_5.4_1994	1
Chromium, Hexavalent	EPA 218.6_3.3_1994	1

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Matrix/Analyte	Method	Notes
Mercury	EPA 245.1_3_1994	1
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 504.1_1.1_1995	1
Chlordane (tech.)	EPA 505_2.1_1995	1
PCBs	EPA 505_2.1_1995	1
Toxaphene (Chlorinated camphene)	EPA 505_2.1_1995	1
2,4,5-T	EPA 515.3_1_1996	1
2,4-D	EPA 515.3_1_1996	1
2,4-DB	EPA 515.3_1_1996	1
3,5-Dichlorobenzoic acid	EPA 515.3_1_1996	1
Acifluorfen	EPA 515.3_1_1996	1
Bentazon	EPA 515.3_1_1996	1
Dalapon	EPA 515.3_1_1996	1
Dicamba	EPA 515.3_1_1996	1
Dichlorprop	EPA 515.3_1_1996	1
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	EPA 515.3_1_1996	1
Pentachlorophenol	EPA 515.3_1_1996	1
Picloram	EPA 515.3_1_1996	1
Silvex (2,4,5-TP)	EPA 515.3_1_1996	1
Aldicarb (Temik)	EPA 531.1_3.1_1995	1
Aldicarb sulfone	EPA 531.1_3.1_1995	1
Aldicarb sulfoxide	EPA 531.1_3.1_1995	1
Carbaryl (Sevin)	EPA 531.1_3.1_1995	1
Carbofuran (Furaden)	EPA 531.1_3.1_1995	1
Methiocarb (Mesurol)	EPA 531.1_3.1_1995	1
Methomyl (Lannate)	EPA 531.1_3.1_1995	1
Oxamyl	EPA 531.1_3.1_1995	1
Propoxur (Baygon)	EPA 531.1_3.1_1995	1
3-Hydroxycarbofuran	EPA 531.2_1_2001	1
Aldicarb (Temik)	EPA 531.2_1_2001	1
Aldicarb sulfone	EPA 531.2_1_2001	1
Aldicarb sulfoxide	EPA 531.2_1_2001	1
Carbaryl (Sevin)	EPA 531.2_1_2001	1
Carbofuran (Furaden)	EPA 531.2_1_2001	1
Methiocarb (Mesurol)	EPA 531.2_1_2001	1
Methomyl (Lannate)	EPA 531.2_1_2001	1
Oxamyl	EPA 531.2_1_2001	1

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Matrix/Analyte	Method	Notes
Propoxur (Baygon)	EPA 531.2_1_2001	1
Glyphosate	EPA 547_1990	1
Diquat	EPA 549.2_1_1997	1
Paraquat	EPA 549.2_1_1997	1
Trihalomethanes	EPA 551.1_1_1995	1
Bromoacetic acid	EPA 552.2_1_1995	1
Bromochloroacetic acid	EPA 552.2_1_1995	1
Chloroacetic acid	EPA 552.2_1_1995	1
Dibromoacetic acid	EPA 552.2_1_1995	1
Dichloroacetic acid	EPA 552.2_1_1995	1
Total haloacetic acids	EPA 552.2_1_1995	1
Trichloroacetic acid	EPA 552.2_1_1995	1
2,3,7,8-TCDD	EPA 1613_B_1994	1,2
1,2-Dibromo-3-chloropropane (DBCP)	EPA 504.1_1.1_1995	1
1,1,1,2-Tetrachloroethane	EPA 524.2_4.1_1995	1
1,1,1-Trichloroethane	EPA 524.2_4.1_1995	1
1,1,2,2-Tetrachloroethane	EPA 524.2_4.1_1995	1
1,1,2-Trichloroethane	EPA 524.2_4.1_1995	1
1,1-Dichloroethane	EPA 524.2_4.1_1995	1
1,1-Dichloroethylene	EPA 524.2_4.1_1995	1
1,1-Dichloropropene	EPA 524.2_4.1_1995	1
1,2,3-Trichlorobenzene	EPA 524.2_4.1_1995	1
1,2,3-Trichloropropane	EPA 524.2_4.1_1995	1
1,2,4-Trichlorobenzene	EPA 524.2_4.1_1995	1
1,2,4-Trimethylbenzene	EPA 524.2_4.1_1995	1
1,2-Dichlorobenzene	EPA 524.2_4.1_1995	1
1,2-Dichloroethane	EPA 524.2_4.1_1995	1
1,2-Dichloropropane	EPA 524.2_4.1_1995	1
1,3,5-Trimethylbenzene	EPA 524.2_4.1_1995	1
1,3-Dichloropropane	EPA 524.2_4.1_1995	1
1,4-Dichlorobenzene	EPA 524.2_4.1_1995	1
2,2-Dichloropropane	EPA 524.2_4.1_1995	1
Benzene	EPA 524.2_4.1_1995	1
Bromobenzene	EPA 524.2_4.1_1995	1
Bromochloromethane	EPA 524.2_4.1_1995	1
Bromodichloromethane	EPA 524.2_4.1_1995	1

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Matrix/Analyte	Method	Notes
Bromoform	EPA 524.2_4.1_1995	1
Carbon tetrachloride	EPA 524.2_4.1_1995	1
Chlorobenzene	EPA 524.2_4.1_1995	1
cis-1,2-Dichloroethylene	EPA 524.2_4.1_1995	1
cis-1,3-Dichloropropene	EPA 524.2_4.1_1995	1
Dibromochloromethane	EPA 524.2_4.1_1995	1
Dibromomethane	EPA 524.2_4.1_1995	1
Dichlorodifluoromethane	EPA 524.2_4.1_1995	1
Dichloromethane (DCM, Methylene chloride)	EPA 524.2_4.1_1995	1
Ethylbenzene	EPA 524.2_4.1_1995	1
Hexachlorobutadiene	EPA 524.2_4.1_1995	1
Hexachloroethane	EPA 524.2_4.1_1995	1
Isopropylbenzene	EPA 524.2_4.1_1995	1
Methyl bromide (Bromomethane)	EPA 524.2_4.1_1995	1
Methyl chloride (Chloromethane)	EPA 524.2_4.1_1995	1
Naphthalene	EPA 524.2_4.1_1995	1
n-Butylbenzene	EPA 524.2_4.1_1995	1
sec-Butylbenzene	EPA 524.2_4.1_1995	1
Styrene	EPA 524.2_4.1_1995	1
tert-Butylbenzene	EPA 524.2_4.1_1995	1
Tetrachloroethylene (Perchloroethylene)	EPA 524.2_4.1_1995	1
Toluene	EPA 524.2_4.1_1995	1
Total trihalomethanes	EPA 524.2_4.1_1995	1
trans-1,2-Dichloroethylene	EPA 524.2_4.1_1995	1
Trichloroethene (Trichloroethylene)	EPA 524.2_4.1_1995	1
Trichlorofluoromethane	EPA 524.2_4.1_1995	1
Vinyl chloride	EPA 524.2_4.1_1995	1
Xylene (total)	EPA 524.2_4.1_1995	1
4,4'-DDD	EPA 525.2_2_1995	1
4,4'-DDE	EPA 525.2_2_1995	1
4,4'-DDT	EPA 525.2_2_1995	1
Acenaphthylene	EPA 525.2_2_1995	1
Alachlor	EPA 525.2_2_1995	1
Aldrin	EPA 525.2_2_1995	1
Anthracene	EPA 525.2_2_1995	1
Atrazine	EPA 525.2_2_1995	1

<b>Matrix/Analyte</b>	<b>Method</b>	<b>Notes</b>
Benzo(a)anthracene	EPA 525.2_2_1995	1
Benzo(a)pyrene	EPA 525.2_2_1995	1
Benzo(g,h,i)perylene	EPA 525.2_2_1995	1
Benzo(k)fluoranthene	EPA 525.2_2_1995	1
Benzo[b]fluoranthene	EPA 525.2_2_1995	1
bis(2-Ethylhexyl) phthalate (DEHP)	EPA 525.2_2_1995	1
Bromacil	EPA 525.2_2_1995	1
Butachlor	EPA 525.2_2_1995	1
Chrysene	EPA 525.2_2_1995	1
Di(2-ethylhexyl)adipate	EPA 525.2_2_1995	1
Dibenz(a,h) anthracene	EPA 525.2_2_1995	1
Dieldrin	EPA 525.2_2_1995	1
Diethyl phthalate	EPA 525.2_2_1995	1
Dimethyl phthalate	EPA 525.2_2_1995	1
Di-n-butyl phthalate	EPA 525.2_2_1995	1
Endrin	EPA 525.2_2_1995	1
EPTC (Eptam, s-ethyl-dipropyl thio carbamate)	EPA 525.2_2_1995	1
Fluorene	EPA 525.2_2_1995	1
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	EPA 525.2_2_1995	1
Heptachlor	EPA 525.2_2_1995	1
Heptachlor epoxide	EPA 525.2_2_1995	1
Hexachlorobenzene	EPA 525.2_2_1995	1
Hexachlorocyclopentadiene	EPA 525.2_2_1995	1
Methoxychlor	EPA 525.2_2_1995	1
Metolachlor	EPA 525.2_2_1995	1
Metribuzin	EPA 525.2_2_1995	1
Molinate	EPA 525.2_2_1995	1
Phenanthrene	EPA 525.2_2_1995	1
Prometryn	EPA 525.2_2_1995	1
Pronamide (Kerb)	EPA 525.2_2_1995	1
Propachlor (Ramrod)	EPA 525.2_2_1995	1
Pyrene	EPA 525.2_2_1995	1
Simazine	EPA 525.2_2_1995	1
Simetryn	EPA 525.2_2_1995	1
Terbacil	EPA 525.2_2_1995	1
Trifluralin (Treflan)	EPA 525.2_2_1995	1

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Matrix/Analyte	Method	Notes
Endothall	EPA 548.1_1_1992	1
Tritium	EPA 906.0	1
Gross-alpha	SM 7110 B (GPC) 21st ED (2005)	1
Gross-beta	SM 7110 B (GPC) 21st ED (2005)	1
Gross-alpha	SM 7110 C (GPC) 21st ED (2005)	1
Radium-226	SM 7500-Ra B (GPC) 21st ED (2005)	1
Radium 226/228	SM 7500-Ra D 21st ED (2005)	1
Radon	SM 7500-Rn B	1
Heterotrophic plate count	IDEXX SimPlate	1
Heterotrophic plate count	SM 9215 B	1
Total Coli/Ecoli - detect	SM 9215 C	1
Total Coli/Ecoli - count Colilert	SM 9223 B Colilert Q	1

**Accredited Parameter Note Detail**

(1) Accreditation based in part on recognition of Florida NELAP accreditation. (2) Method is modified to use GC-MS-MS. All positives are confirmed by another NELAP accredited lab using HRGC-MS.



12/28/2011

Authentication Signature  
 Alan D. Rue, Lab Accreditation Unit Supervisor

Date