

The State of
Department



Washington
of Ecology

**Enthalpy Analytical, Inc.
(dba Curtis & Tompkins, Ltd.)
Berkeley, CA**

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 December 16, 2017 and shall expire December 15, 2018.

Witnessed under my hand on December 5, 2017

Rebecca Wood
Lab Accreditation Unit Supervisor

Laboratory ID
C600

WASHINGTON STATE DEPARTMENT OF ECOLOGY

ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM

SCOPE OF ACCREDITATION

Enthalpy Analytical, Inc. (dba Curtis & Tompkins, Ltd.)

Berkeley, CA

is accredited for the analytes listed below using the methods indicated. Full accreditation is granted unless stated otherwise in a note. EPA is the U.S. Environmental Protection Agency. SM is "Standard Methods for the Examination of Water and Wastewater." SM refers to EPA approved method versions. ASTM is the American Society for Testing and Materials. USGS is the U.S. Geological Survey. AOAC is the Association of Official Analytical Chemists. Other references are described in notes.

Matrix/Analyte	Method	Notes
Air		
1,1,1-Trichloroethane	EPA TO-15 Rev. 2 (1999)	1
1,1,2,2-Tetrachloroethane	EPA TO-15 Rev. 2 (1999)	1
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA TO-15 Rev. 2 (1999)	1
1,1,2-Trichloroethane	EPA TO-15 Rev. 2 (1999)	1
1,1-Dichloroethane	EPA TO-15 Rev. 2 (1999)	1
1,1-Dichloroethylene	EPA TO-15 Rev. 2 (1999)	1
1,2,4-Trichlorobenzene	EPA TO-15 Rev. 2 (1999)	1
1,2,4-Trimethylbenzene	EPA TO-15 Rev. 2 (1999)	1
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA TO-15 Rev. 2 (1999)	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	EPA TO-15 Rev. 2 (1999)	1
1,2-Dichlorobenzene	EPA TO-15 Rev. 2 (1999)	1
1,2-Dichloroethane (Ethylene dichloride)	EPA TO-15 Rev. 2 (1999)	1
1,2-Dichloropropane	EPA TO-15 Rev. 2 (1999)	1
1,3,5-Trimethylbenzene	EPA TO-15 Rev. 2 (1999)	1
1,3-Butadiene	EPA TO-15 Rev. 2 (1999)	1
1,3-Dichlorobenzene	EPA TO-15 Rev. 2 (1999)	1
1,4-Dichlorobenzene	EPA TO-15 Rev. 2 (1999)	1
1-Propene	EPA TO-15 Rev. 2 (1999)	1
2-Butanone (Methyl ethyl ketone, MEK)	EPA TO-15 Rev. 2 (1999)	1
2-Hexanone	EPA TO-15 Rev. 2 (1999)	1
4-Ethyltoluene	EPA TO-15 Rev. 2 (1999)	1
4-Methyl-2-pentanone (MIBK)	EPA TO-15 Rev. 2 (1999)	1

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Matrix/Analyte	Method	Notes
Acetone	EPA TO-15 Rev. 2 (1999)	1
Acrolein (Propenal)	EPA TO-15 Rev. 2 (1999)	1
Benzene	EPA TO-15 Rev. 2 (1999)	1
Benzyl chloride	EPA TO-15 Rev. 2 (1999)	1
Bromodichloromethane	EPA TO-15 Rev. 2 (1999)	1
Bromoform	EPA TO-15 Rev. 2 (1999)	1
Carbon disulfide	EPA TO-15 Rev. 2 (1999)	1
Carbon tetrachloride	EPA TO-15 Rev. 2 (1999)	1
Chlorobenzene	EPA TO-15 Rev. 2 (1999)	1
Chlorodibromomethane	EPA TO-15 Rev. 2 (1999)	1
Chloroform	EPA TO-15 Rev. 2 (1999)	1
cis-1,2-Dichloroethylene	EPA TO-15 Rev. 2 (1999)	1
cis-1,3-Dichloropropene	EPA TO-15 Rev. 2 (1999)	1
Cyclohexane	EPA TO-15 Rev. 2 (1999)	1
Dichlorodifluoromethane (Freon-12)	EPA TO-15 Rev. 2 (1999)	1
Ethyl acetate	EPA TO-15 Rev. 2 (1999)	1
Ethyl chloride	EPA TO-15 Rev. 2 (1999)	1
Ethylbenzene	EPA TO-15 Rev. 2 (1999)	1
Hexachlorobutadiene	EPA TO-15 Rev. 2 (1999)	1
Hexane	EPA TO-15 Rev. 2 (1999)	1
m+p-xylene	EPA TO-15 Rev. 2 (1999)	1
Methyl bromide (Bromomethane)	EPA TO-15 Rev. 2 (1999)	1
Methyl chloride (Chloromethane)	EPA TO-15 Rev. 2 (1999)	1
Methyl tert-butyl ether (MTBE)	EPA TO-15 Rev. 2 (1999)	1
Methylene chloride (Dichloromethane)	EPA TO-15 Rev. 2 (1999)	1
Naphthalene	EPA TO-15 Rev. 2 (1999)	1
n-Heptane	EPA TO-15 Rev. 2 (1999)	1
o-Xylene	EPA TO-15 Rev. 2 (1999)	1
Styrene	EPA TO-15 Rev. 2 (1999)	1
Tetrachloroethylene (Perchloroethylene)	EPA TO-15 Rev. 2 (1999)	1
Tetrahydrofuran (THF)	EPA TO-15 Rev. 2 (1999)	1
Toluene	EPA TO-15 Rev. 2 (1999)	1
trans-1,2-Dichloroethylene	EPA TO-15 Rev. 2 (1999)	1
trans-1,3-Dichloropropylene	EPA TO-15 Rev. 2 (1999)	1
Trichloroethene (Trichloroethylene)	EPA TO-15 Rev. 2 (1999)	1
Trichlorofluoromethane (Freon 11)	EPA TO-15 Rev. 2 (1999)	1

Matrix/Analyte	Method	Notes
Vinyl acetate	EPA TO-15 Rev. 2 (1999)	1
Vinyl chloride	EPA TO-15 Rev. 2 (1999)	1
Non-Potable Water		
Chloride	EPA 300.0_2.1_1993	1
Nitrate	EPA 300.0_2.1_1993	1
Nitrite	EPA 300.0_2.1_1993	1
Sulfate	EPA 300.0_2.1_1993	1
Cyanide, Total	SM 4500-CN ⁻ E-2011	1,88
Total Organic Carbon	SM 5310 C-2011	1,88
Solid and Chemical Materials		
Cyanide, Total	EPA 9014_1996	1
Antimony	EPA 6010C_(2/07)	1
Arsenic	EPA 6010C_(2/07)	1
Barium	EPA 6010C_(2/07)	1
Beryllium	EPA 6010C_(2/07)	1
Cadmium	EPA 6010C_(2/07)	1
Chromium	EPA 6010C_(2/07)	1
Cobalt	EPA 6010C_(2/07)	1
Copper	EPA 6010C_(2/07)	1
Lead	EPA 6010C_(2/07)	1
Molybdenum	EPA 6010C_(2/07)	1
Nickel	EPA 6010C_(2/07)	1
Selenium	EPA 6010C_(2/07)	1
Silver	EPA 6010C_(2/07)	1
Thallium	EPA 6010C_(2/07)	1
Vanadium	EPA 6010C_(2/07)	1
Zinc	EPA 6010C_(2/07)	1
Antimony	EPA 6020A_(2/07)	1
Arsenic	EPA 6020A_(2/07)	1
Barium	EPA 6020A_(2/07)	1
Beryllium	EPA 6020A_(2/07)	1
Cadmium	EPA 6020A_(2/07)	1
Chromium	EPA 6020A_(2/07)	1
Cobalt	EPA 6020A_(2/07)	1
Copper	EPA 6020A_(2/07)	1

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Matrix/Analyte	Method	Notes
Lead	EPA 6020A_(2/07)	1
Molybdenum	EPA 6020A_(2/07)	1
Nickel	EPA 6020A_(2/07)	1
Selenium	EPA 6020A_(2/07)	1
Silver	EPA 6020A_(2/07)	1
Thallium	EPA 6020A_(2/07)	1
Vanadium	EPA 6020A_(2/07)	1
Zinc	EPA 6020A_(2/07)	1
Mercury, Liquid Waste	EPA 7470A_1_1994	1
Mercury, Solid Waste	EPA 7471B_(1/98)	1
4,4'-DDD	EPA 8081B_(2/07)	1
4,4'-DDE	EPA 8081B_(2/07)	1
4,4'-DDT	EPA 8081B_(2/07)	1
Aldrin	EPA 8081B_(2/07)	1
alpha-BHC (alpha-Hexachlorocyclohexane)	EPA 8081B_(2/07)	1
alpha-Chlordane	EPA 8081B_(2/07)	1
beta-BHC (beta-Hexachlorocyclohexane)	EPA 8081B_(2/07)	1
Chlordane (tech.)	EPA 8081B_(2/07)	1
delta-BHC	EPA 8081B_(2/07)	1
Dieldrin	EPA 8081B_(2/07)	1
Endosulfan I	EPA 8081B_(2/07)	1
Endosulfan II	EPA 8081B_(2/07)	1
Endosulfan sulfate	EPA 8081B_(2/07)	1
Endrin	EPA 8081B_(2/07)	1
Endrin aldehyde	EPA 8081B_(2/07)	1
Endrin ketone	EPA 8081B_(2/07)	1
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	EPA 8081B_(2/07)	1
gamma-Chlordane	EPA 8081B_(2/07)	1
Heptachlor	EPA 8081B_(2/07)	1
Heptachlor epoxide	EPA 8081B_(2/07)	1
Methoxychlor	EPA 8081B_(2/07)	1
Toxaphene (Chlorinated camphene)	EPA 8081B_(2/07)	1
Aroclor-1016 (PCB-1016)	EPA 8082A_(2/07)	1
Aroclor-1221 (PCB-1221)	EPA 8082A_(2/07)	1
Aroclor-1232 (PCB-1232)	EPA 8082A_(2/07)	1
Aroclor-1242 (PCB-1242)	EPA 8082A_(2/07)	1

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Matrix/Analyte	Method	Notes
Aroclor-1248 (PCB-1248)	EPA 8082A_(2/07)	1
Aroclor-1254 (PCB-1254)	EPA 8082A_(2/07)	1
Aroclor-1260 (PCB-1260)	EPA 8082A_(2/07)	1
1,1,1,2-Tetrachloroethane	EPA 8260C_(8/06)	1
1,1,1-Trichloroethane	EPA 8260C_(8/06)	1
1,1,2,2-Tetrachloroethane	EPA 8260C_(8/06)	1
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260C_(8/06)	1
1,1,2-Trichloroethane	EPA 8260C_(8/06)	1
1,1-Dichloroethane	EPA 8260C_(8/06)	1
1,1-Dichloroethylene	EPA 8260C_(8/06)	1
1,1-Dichloropropene	EPA 8260C_(8/06)	1
1,2,3-Trichlorobenzene	EPA 8260C_(8/06)	1
1,2,3-Trichloropropane	EPA 8260C_(8/06)	1
1,2,4-Trichlorobenzene	EPA 8260C_(8/06)	1
1,2,4-Trimethylbenzene	EPA 8260C_(8/06)	1
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260C_(8/06)	1
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260C_(8/06)	1
1,2-Dichlorobenzene	EPA 8260C_(8/06)	1
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260C_(8/06)	1
1,2-Dichloropropane	EPA 8260C_(8/06)	1
1,3,5-Trimethylbenzene	EPA 8260C_(8/06)	1
1,3-Dichlorobenzene	EPA 8260C_(8/06)	1
1,3-Dichloropropane	EPA 8260C_(8/06)	1
1,4-Dichlorobenzene	EPA 8260C_(8/06)	1
2,2-Dichloropropane	EPA 8260C_(8/06)	1
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260C_(8/06)	1
2-Chlorotoluene	EPA 8260C_(8/06)	1
2-Hexanone	EPA 8260C_(8/06)	1
4-Chlorotoluene	EPA 8260C_(8/06)	1
4-Isopropyltoluene (p-Cymene)	EPA 8260C_(8/06)	1
4-Methyl-2-pentanone (MIBK)	EPA 8260C_(8/06)	1
Acetone	EPA 8260C_(8/06)	1
Benzene	EPA 8260C_(8/06)	1
Bromobenzene	EPA 8260C_(8/06)	1
Bromochloromethane	EPA 8260C_(8/06)	1
Bromodichloromethane	EPA 8260C_(8/06)	1

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Matrix/Analyte	Method	Notes
Bromoform	EPA 8260C_(8/06)	1
Carbon disulfide	EPA 8260C_(8/06)	1
Carbon tetrachloride	EPA 8260C_(8/06)	1
Chlorobenzene	EPA 8260C_(8/06)	1
Chlorodibromomethane	EPA 8260C_(8/06)	1
Chloroethane (Ethyl chloride)	EPA 8260C_(8/06)	1
Chloroform	EPA 8260C_(8/06)	1
cis-1,2-Dichloroethylene	EPA 8260C_(8/06)	1
cis-1,3-Dichloropropene	EPA 8260C_(8/06)	1
Dibromomethane	EPA 8260C_(8/06)	1
Dichlorodifluoromethane (Freon-12)	EPA 8260C_(8/06)	1
Di-isopropylether (DIPE)	EPA 8260C_(8/06)	1
Ethylbenzene	EPA 8260C_(8/06)	1
Ethyl-t-butylether (ETBE)	EPA 8260C_(8/06)	1
Hexachlorobutadiene	EPA 8260C_(8/06)	1
Isopropylbenzene	EPA 8260C_(8/06)	1
m+p-xylene	EPA 8260C_(8/06)	1
Methyl bromide (Bromomethane)	EPA 8260C_(8/06)	1
Methyl chloride (Chloromethane)	EPA 8260C_(8/06)	1
Methyl tert-butyl ether (MTBE)	EPA 8260C_(8/06)	1
Methylene chloride (Dichloromethane)	EPA 8260C_(8/06)	1
Naphthalene	EPA 8260C_(8/06)	1
n-Butylbenzene	EPA 8260C_(8/06)	1
n-Propylbenzene	EPA 8260C_(8/06)	1
o-Xylene	EPA 8260C_(8/06)	1
sec-Butylbenzene	EPA 8260C_(8/06)	1
Styrene	EPA 8260C_(8/06)	1
tert-amylmethylether (TAME)	EPA 8260C_(8/06)	1
tert-Butyl alcohol	EPA 8260C_(8/06)	1
tert-Butylbenzene	EPA 8260C_(8/06)	1
Tetrachloroethylene (Perchloroethylene)	EPA 8260C_(8/06)	1
Toluene	EPA 8260C_(8/06)	1
trans-1,2-Dichloroethylene	EPA 8260C_(8/06)	1
trans-1,3-Dichloropropylene	EPA 8260C_(8/06)	1
Trichloroethene (Trichloroethylene)	EPA 8260C_(8/06)	1
Trichlorofluoromethane (Freon 11)	EPA 8260C_(8/06)	1

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Matrix/Analyte	Method	Notes
Vinyl acetate	EPA 8260C_(8/06)	1
Vinyl chloride	EPA 8260C_(8/06)	1
1,2,4-Trichlorobenzene	EPA 8270D_5_(7/14)	1
1,2-Dichlorobenzene	EPA 8270D_5_(7/14)	1
1,3-Dichlorobenzene	EPA 8270D_5_(7/14)	1
1,4-Dichlorobenzene	EPA 8270D_5_(7/14)	1
1,4-Dioxane (1,4- Diethyleneoxide)	EPA 8270D_5_(7/14)	1
1-Methylnaphthalene	EPA 8270D_5_(7/14)	1
2,4,5-Trichlorophenol	EPA 8270D_5_(7/14)	1
2,4,6-Trichlorophenol	EPA 8270D_5_(7/14)	1
2,4-Dimethylphenol	EPA 8270D_5_(7/14)	1
2,4-Dinitrophenol	EPA 8270D_5_(7/14)	1
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270D_5_(7/14)	1
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270D_5_(7/14)	1
2-Chloronaphthalene	EPA 8270D_5_(7/14)	1
2-Chlorophenol	EPA 8270D_5_(7/14)	1
2-Methylnaphthalene	EPA 8270D_5_(7/14)	1
2-Methylphenol (o-Cresol)	EPA 8270D_5_(7/14)	1
2-Nitroaniline	EPA 8270D_5_(7/14)	1
2-Nitrophenol	EPA 8270D_5_(7/14)	1
3,3'-Dichlorobenzidine	EPA 8270D_5_(7/14)	1
3-Nitroaniline	EPA 8270D_5_(7/14)	1
4,6-Dinitro-2-methylphenol	EPA 8270D_5_(7/14)	1
4-Bromophenyl phenyl ether (BDE-3)	EPA 8270D_5_(7/14)	1
4-Chloro-3-methylphenol	EPA 8270D_5_(7/14)	1
4-Chloroaniline	EPA 8270D_5_(7/14)	1
4-Chlorophenyl phenylether	EPA 8270D_5_(7/14)	1
4-Methylphenol (p-Cresol)	EPA 8270D_5_(7/14)	1
4-Nitroaniline	EPA 8270D_5_(7/14)	1
4-Nitrophenol	EPA 8270D_5_(7/14)	1
Acenaphthene	EPA 8270D_5_(7/14)	1
Acenaphthylene	EPA 8270D_5_(7/14)	1
Anthracene	EPA 8270D_5_(7/14)	1
Benzo(a)anthracene	EPA 8270D_5_(7/14)	1
Benzo(a)pyrene	EPA 8270D_5_(7/14)	1
Benzo(g,h,i)perylene	EPA 8270D_5_(7/14)	1

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Matrix/Analyte	Method	Notes
Benzo(k)fluoranthene	EPA 8270D_5_(7/14)	1
Benzo[b]fluoranthene	EPA 8270D_5_(7/14)	1
Benzoic acid	EPA 8270D_5_(7/14)	1
Benzyl alcohol	EPA 8270D_5_(7/14)	1
bis(2-Chloroethoxy)methane	EPA 8270D_5_(7/14)	1
bis(2-Chloroethyl) ether	EPA 8270D_5_(7/14)	1
bis(2-Chloroisopropyl) ether	EPA 8270D_5_(7/14)	1
Butyl benzyl phthalate	EPA 8270D_5_(7/14)	1
Chrysene	EPA 8270D_5_(7/14)	1
Di(2-ethylhexyl)phthalate	EPA 8270D_5_(7/14)	1
Dibenz(a,h) anthracene	EPA 8270D_5_(7/14)	1
Dibenzofuran	EPA 8270D_5_(7/14)	1
Diethyl phthalate	EPA 8270D_5_(7/14)	1
Dimethyl phthalate	EPA 8270D_5_(7/14)	1
Di-n-butyl phthalate	EPA 8270D_5_(7/14)	1
Di-n-octyl phthalate	EPA 8270D_5_(7/14)	1
Fluoranthene	EPA 8270D_5_(7/14)	1
Fluorene	EPA 8270D_5_(7/14)	1
Hexachlorobenzene	EPA 8270D_5_(7/14)	1
Hexachlorobutadiene	EPA 8270D_5_(7/14)	1
Hexachlorocyclopentadiene	EPA 8270D_5_(7/14)	1
Hexachloroethane	EPA 8270D_5_(7/14)	1
Indeno(1,2,3-cd) pyrene	EPA 8270D_5_(7/14)	1
Isophorone	EPA 8270D_5_(7/14)	1
Naphthalene	EPA 8270D_5_(7/14)	1
Nitrobenzene	EPA 8270D_5_(7/14)	1
N-Nitrosodimethylamine	EPA 8270D_5_(7/14)	1
N-Nitroso-di-n-propylamine	EPA 8270D_5_(7/14)	1
N-Nitrosodiphenylamine	EPA 8270D_5_(7/14)	1
Pentachlorophenol	EPA 8270D_5_(7/14)	1
Phenanthrene	EPA 8270D_5_(7/14)	1
Phenol	EPA 8270D_5_(7/14)	1
Pyrene	EPA 8270D_5_(7/14)	1

Matrix/Analyte

Method

Notes

Accredited Parameter Note Detail

(1) Accreditation based in part on recognition of ANSI-ASQ National Accreditation Board DoD-ELAP accreditation.
(88) Interim Washington accreditation pending receipt of an updated Scope from your other recognized accreditor ANSI-ASQ National Accreditation Board, DoD-ELAP. This accreditation is based in part on recognition of your currently held accreditations for previous method versions.



12/05/2017

Authentication Signature

Date

Rebecca Wood, Acting Lab Accreditation Unit Supervisor