



STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH
REGULATORY SERVICES BRANCH
ENVIRONMENTAL HEALTH SECTION
ENVIRONMENTAL LABORATORY CERTIFICATION PROGRAM

APPLICATION FOR BIENNIAL RENEWAL OF AN ENVIRONMENTAL LABORATORY

Areas of approval are:

Chemical and Microbiological Environmental Examination of Drinking Water, Non-Potable Water/Wastewater, Solid Waste/Soil and Asbestos

Mail Completed Application and Supporting Documents to:

**Connecticut Department of Public Health
Environmental Laboratory Certification Program
Environmental Health Section, MS# 51 LAB
410 Capitol Avenue, P.O. Box 340308
Hartford, CT 06134-0308**

For Overnight Mail Send To:

**Connecticut Department of Public Health
Environmental Laboratory Certification Program
Environmental Health Section, MS# 51 LAB
410 Capitol Avenue
Hartford, CT 06106**

In order for a laboratory to renew its approval in the State of Connecticut, it is first necessary for the proposed Director, if not previously approved, to meet regulatory requirements. The laboratory must be maintained and operated in a manner acceptable to the Connecticut Department of Public Health and must conform to the requirements set forth in General Statutes 19a-29a and Public Health Code Sections 19-4-1 and 19a-36-A25 through A33 and A57 through A63 inclusive.

The approval of an Environmental Laboratory can be withdrawn at any time if, in the opinion of the Department, its continued operation represents a public health hazard or is not in the best interest of the persons it serves.

Program Telephone (860) 509-7389

Fax (860) 509-7295

<http://www.ct.gov/dph/environmentallabs>

ver. 1.13



*Phone: (860) 509-7389
Telephone Device for the Deaf (860) 509-7191
410 Capitol Avenue - MS # 51LAB
P.O. Box 340308 Hartford, CT 06134-0308
An Equal Opportunity Employer*

STATE OF CONNECTICUT
ENVIRONMENTAL LABORATORY CERTIFICATION PROGRAM

RENEWAL PACKAGE CHECKLIST

Typically half of the laboratories omit items needed to process the renewal application. This checklist was prepared to aid laboratories in preparing the renewal package.

ALL LABORATORIES

_____ Check for \$1250.00 payable to “Treasurer State of Connecticut.”

_____ Completed Application signed by Laboratory Director and Registrant/Authorized Agent.

_____ Methods of analysis (e.g. SM2340C, 8270, etc.) filled in the blanks on the application (do not just “check off” analytes).

_____ For drinking water organic analytes, copies of MDL spreadsheet summaries listing the replicate concentrations, standard deviation, and statistical MDL for each method requested in accordance with Appendix B to 40 CFR Part 136.

_____ For any change in the laboratory director or co-director a completed laboratory director’s application. Note as per the application, there are educational and experience requirements and official transcripts are required.

OUT OF STATE LABORATORIES

_____ In addition to the above items, copies of your primary accrediting authority’s list of approved analytes and any other state/federal certifications (e.g. NVLAP, AIHA).

FAILURE TO SUBMIT ANY OF THE ABOVE ITEMS WILL RESULT IN A DELAY IN PROCESSING YOUR APPLICATION AND MAY RESULT IN A TEMPORARY LOSS OF CERTIFICATION.

STATE OF CONNECTICUT
ENVIRONMENTAL LABORATORY CERTIFICATION PROGRAM

DATE: _____ REGISTRATION NO. PH- _____

NAME OF LABORATORY: _____

Physical Address

STREET ADDRESS: _____

CITY, STATE & ZIP _____

Mailing Address (Leave Blank if the Same)

STREET ADDRESS _____

CITY, STATE & ZIP _____

FEDERAL EMPLOYEE IDENTIFICATION NUMBER (FEIN) _____

EMAIL ADDRESS _____

PHONE NUMBER 1. _____ 2. _____

FAX NUMBER _____

1. TYPE OF OWNERSHIP

Private Individual _____

Corporation (Profit) _____

Corporation (Non-Profit) _____

Government _____

Partnership _____

Other (Specify) _____

Please supply name of officers and Board of Directors. Use additional sheets, if necessary.

NAME: _____

STREET ADDRESS: _____

CITY, STATE & ZIP _____

2. Note here any changes in Name, Address, Director, Registered Owner/Authorized Agent.

3. Specify here individual who, in the occasional absence of the director, supervises laboratory operations:

Name _____ Degree _____

Years Experience: _____

Specialty Areas _____

STATE OF CONNECTICUT
ENVIRONMENTAL LABORATORY CERTIFICATION PROGRAM

4. Specialist Personnel employed in your laboratory.

Name _____ Degree _____

Years Experience: _____

Specialty Areas _____

Name _____ Degree _____

Years Experience: _____

Specialty Areas _____

Name _____ Degree _____

Years Experience: _____

Specialty Areas _____

5. Number of Personnel employed with the degree indicated

Associate Degree _____ BA/BS _____ MS/MA _____

Ph. D. _____ Technical Personnel without Degrees _____

6. Working Hours at Laboratory

Director: _____ to _____ Co-Director: _____ to _____

Q.A. Manager: _____ to _____ Supervisor: _____ to _____

7. Subcontract Labs within Connecticut (list name and registration number)

Name: _____ PH-0 _____

Name: _____ PH-0 _____

Name: _____ PH-0 _____

Name: _____ PH-0 _____

8. Subcontract Labs outside Connecticut (list name and registration number)

Name: _____ PH-0 _____

Name: _____ PH-0 _____

Name: _____ PH-0 _____

Name: _____ PH-0 _____

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We, the undersigned, individually and jointly certify that the information that has been provided in this application is to the best of our knowledge and belief accurate and correct.

If registration and approval of this laboratory is granted by the Commissioner of Public Health, we agree to comply fully with all regulations of the State of Connecticut and directives pursuant thereto that may be issued by the Commissioner of Public Health or his representatives.

We fully understand that the Commissioner of Public Health may at any time revoke or suspend the registration and approval of this laboratory if, in his opinion, the laboratory has violated any regulation of the State of Connecticut or directive pursuant thereto, or if the continued operation of the laboratory is not in the best interest of the health and safety of the citizens of the State of Connecticut.

In witness whereof, we have hereunto set our hands and seal this _____ day of _____, 20____.

Signature of Director

Signature of Registered Owner/Authorized Agent

Signature of Co-Director

State of _____

County of _____

Then personally appeared before me _____
(Print Name of Notary)

duly qualified to administer oaths -

Registered Owner/Authorized Agent: _____
print or type

Director: _____
print or type

Co-Director: _____
print or type

and subscribed and made oath to the truth of the foregoing affidavit.

Notary Public

STATE OF CONNECTICUT
ENVIRONMENTAL LABORATORY CERTIFICATION PROGRAM

DRINKING (POTABLE) WATER MICROBIOLOGY

Circle All Methods for Tests for which Approval is Sought.

Total Coliforms

Membrane Filter Methods	SM9222B	MI Medium	M-ColiBlue24
	Coliscan		Chromocult

Fermentation Broth Methods	SM9221B	SM9221D
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Enzyme Substrate Methods	SM9223(Colilert P/A)	SM9223 (Colilert Enumeration)	SM9223(Colisure)
E-Colite Test	Readycult or Fluorocult LMX	Colitag	

Fecal Coliforms

Membrane Filter Methods	SM9222D
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Fermentation Broth Methods	SM9221E (EC Broth)	SM9221E (A-1 Broth)
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Escherichia coli

Membrane Filter Methods	SM9222G	m-ColiBlue24	MI Medium
	Coliscan		Chromocult

Enzyme Substrate Methods	SM9223(Colilert P/A)	SM9223 (Colilert Enumeration)	
	SM9223(Colisure)	E-Colite Test	
	SM9221F	Readycult or Fluorocult LMX	Colitag

Heterotrophic Bacteria	SM9215B	SM9215C	SM9215D	SimPlate	R2A
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List Methods in the Spaces Provided

Cryptosporidium _____

Giardia _____

Legionella _____

Plankton _____

Microscopic Particulate Analysis _____

Other _____

STATE OF CONNECTICUT
ENVIRONMENTAL LABORATORY CERTIFICATION PROGRAM

DRINKING (POTABLE) WATER ANALYTES

CHEMISTRY

INORGANIC CHEMICALS (Specify Methods for All Tests for which Approval is Sought in the Spaces Provided)

Physicals

Color	_____	pH	_____
Conductivity	_____	Temperature	_____
Odor	_____	Turbidity	_____

Minerals

Alkalinity	_____	Fluoride	_____
Bromide	_____	Hardness, Calcium	_____
Chloride	_____	Hardness, Total	_____
Chlorine (Free)	_____	Sulfate	_____
Chlorine (Total)	_____	Corrosivity	_____

Inorganic Disinfection Byproducts

Bromate	_____	Chlorite	_____
Chlorate	_____		

Metals

Aluminum	_____	Magnesium	_____
Antimony	_____	Manganese	_____
Arsenic	_____	Mercury	_____
Barium	_____	Molybendum	_____
Beryllium	_____	Nickel	_____
Boron	_____	Potassium	_____
Cadmium	_____	Selenium	_____
Calcium	_____	Silver	_____
Chromium	_____	Sodium	_____
Cobalt	_____	Thallium	_____
Copper	_____	Tin	_____
Iron	_____	Vanadium	_____
Lead	_____	Zinc	_____

STATE OF CONNECTICUT
ENVIRONMENTAL LABORATORY CERTIFICATION PROGRAM

INORGANIC CHEMICALS (Specify Methods for All Tests for which Approval is Sought in the Spaces

Provided)

Nutrients

Ammonia		Nitrite	
Nitrate		ortho-Phosphate	

Miscellaneous

Cyanide		Total Organic Carbon	
Perchlorate		Total Diss. Solids	
Silica		Total Solids	
Surfactants (MBAS)			

ORGANIC CHEMICALS

(Specify Methods for All Tests for which Approval is Sought in the Spaces Provided)

Total Trihalomethanes*

Bromoform	Chloroform
Bromodichloromethane	Chlorodibromomethane

Volatile Organics*

Benzene	Bromobenzene	Bromochloromethane
Bromomethane	n-Butylbenzene	sec-Butylbenzene
tert-Butylbenzene	Carbon Tetrachloride	Chlorobenzene
Chloroethane	Chloromethane	o-Chlorotoluene
p-Chlorotoluene	Dibromomethane	1,2-Dichlorobenzene
1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane
1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene
cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane
1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene
1,3-Dichloropropene	Ethylbenzene	Hexachlorobutadiene
Isopropylbenzene	p-Isopropyltoluene	Methylene Chloride
Methyl-tert-butylether	Naphthalene	n-Propylbenzene
Styrene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane
Tetrachloroethene	Toluene	1,2,3-Trichlorobenzene
1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane
Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane
1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride
Xylenes (Total)		

EDB and DBCP

1,2-Dibromo-3-chloropropane*	Ethylene Dibromide (EDB)*

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DRINKING (POTABLE) WATER ANALYTES

ORGANIC CHEMICALS (con't)

(Specify Methods for All Tests for which Approval is Sought)

Carbamates

Aldicarb*	_____	3-Hydroxycarbofuran	_____
Aldicarb Sulfoxide*	_____	EPTC	_____
Aldicarb Sulfone*	_____	Molinate	_____
Carbaryl	_____	Methomyl	_____
Carbofuran*	_____	Oxamyl (Vydate)*	_____

Chlorinated Herbicides

2,4-D*	_____	2,4,5-TP (Silvex)*	_____
Acetochlor	_____	Dalapon*	_____
DCPA	_____	Dicamba	_____
Dinoseb*	_____	Endothall*	_____
Metolachlor	_____	Picloram*	_____
Pentachlorophenol*	_____	Terbacil	_____

Chlorinated Pesticides/PCB's

Aldrin	_____	Lindane (γ -BHC)*	_____
Chlordane (tech.)*	_____	Methoxychlor*	_____
Dieldrin	_____	Toxaphene*	_____
Endrin*	_____	PCB's (qualitative)#	_____
Heptachlor*	_____	PCB's as DCB (quant)*	_____
Heptachlor Epoxide*	_____		

Nitrogen-Phosphorus Compounds

Alachlor*	_____	Glyphosphate*	_____
Atrazine*	_____	Metribuzin	_____
Butachlor	_____	Propachlor	_____
Diquat*	_____	Simazine*	_____

Organic Disinfection Byproducts

Bromochloroacetic Acid_____	Monobromoacetic Acid	_____
Dibromoacetic Acid_____	Monochloroacetic Acid	_____
Dichloroacetic Acid_____	Trichloroacetic Acid	_____

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DRINKING (POTABLE) WATER ANALYTES

ORGANIC CHEMICALS (con't)

(Specify Methods for All Tests for which Approval is Sought)

Miscellaneous SVOC's

Benzo(a)pyrene*	_____	bis(2-ethylhexyl)phthalate*	_____
bis(2-ethylhexyl)adipate*	_____	2,4-Dinitrotoluene	_____
2,6-Dinitrotoluene	_____	Hexachlorobenzene*	_____
Hexachlorocyclopentadiene*	_____	Nitrobenzene	_____

DIOXIN

2,3,7,8-TCDD (Dioxin)* _____

*Indicates these compounds have minimum MDL requirements. MDL study summaries (tables with all replicates) must be submitted with application.

PCB concentrations may only be reported as decachlorobiphenyl (DCB). Individual aroclors are for qualitative identification only.

Radiochemistry

Cesium-134	_____	Radium-226	_____
Cesium-137	_____	Radium-228	_____
Cobalt-60	_____	Radon	_____
Gross Alpha	_____	Strontium-89	_____
Gross Beta	_____	Strontium-90	_____
Iodine-131	_____	Tritium	_____
Nickel-65	_____	Uranium	_____
Gamma (Photon) Emitters	_____		

STATE OF CONNECTICUT
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WASTEWATER/ NON-POTABLE WATER ANALYTES

MICROBIOLOGY (Circle All Methods for Tests for which Approval is Sought)

Total Coliforms

Membrane Filter Method	SM9222B			
.....				
Fermentation Broth Method	SM9221B			

Fecal Coliforms

Membrane Filter Method	SM9222D			
.....				
Fermentation Broth Method	SM9221E			

Escherichia coli

Membrane Filter Method	SM9222G	SM9213D	EPA 1603	EPA 1604
	m-ColiBlue24	EPA1103.1		
.....				
Enzyme Substrate Method	SM9221B/F	SM9223B (Colilert Enumeration Only)		

Fecal Streptococcus

Membrane Filter Method	SM9230C			
.....				
Fermentation Broth Method	SM9230B			
.....				

Enterococci

Membrane Filter Method	SM9230C/EPA 1106.1	EPA1600		
.....				
Fermentation Broth Method	SM9230B			
.....				
Enzyme Substrate Method	Enterolert			
.....				

<u>Heterotrophic Bacteria</u>	SM9215B	SM9215C	SM9215D
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<u>Cryptosporidium</u>	EPA 1622	EPA1623
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<u>Giardia</u>	EPA 1623
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List Methods in the Spaces Provided

Legionella _____ Plankton _____

Microscopic Particulate Analysis _____

Other _____

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WASTEWATER/ NON-POTABLE WATER ANALYTES

CHEMISTRY

INORGANIC CHEMICALS (Specify Methods for All Tests for which Approval is Sought in the Spaces Provided)

Physicals

Color	_____	pH	_____
Conductivity	_____	Temperature	_____
Odor	_____	Turbidity	_____

Minerals

Acidity	_____	Fluoride	_____
Alkalinity	_____	Hardness, Calcium	_____
Bromide	_____	Hardness, Total	_____
Chloride	_____	Sulfate	_____
Chlorine (Free)	_____	Sulfide	_____
Chlorine (Total)	_____	Sulfite	_____

Inorganic Disinfection Byproducts

Bromate	_____	Chlorite	_____
Chlorate	_____		

Nutrients

Ammonia	_____	Nitrite	_____
Nitrate	_____	ortho-Phosphate	_____
Kjeldahl Nitrogen	_____	Phosphorus, Total	_____

Miscellaneous

Chromium, Hexavalent	_____	Surfactants (MBAS)	_____
Cyanide	_____	Total Organic Halides	_____
Oil & Grease (HEM)	_____	Total Dissolved Solids	_____
PHC (HEM/Silica Gel)	_____	Total Solids	_____
Perchlorate	_____	Total Suspended Solids	_____
Phenolics, Total	_____	Total Volatile Solids	_____
Silica	_____	Connecticut ETPH	_____
MA Volatile Petroleum Hydrocarbons _____		MA Extractable Petroleum Hydrocarbons _____	

Demands

BOD	_____	Chemical Oxygen Demand	_____
Carbonaceous BOD	_____	Total Organic Carbon	_____

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WASTEWATER/ NON-POTABLE WATER ANALYTES

CHEMISTRY

INORGANIC CHEMICALS (Specify Methods for All Tests for which Approval is Sought in the Spaces Provided)

Metals

Aluminum _____	Manganese _____
Arsenic _____	Mercury _____
Antimony _____	Molybdenum _____
Barium _____	Nickel _____
Beryllium _____	Potassium _____
Boron _____	Selenium _____
Cadmium _____	Silver _____
Calcium _____	Sodium _____
Chromium _____	Strontium _____
Cobalt _____	Thallium _____
Copper _____	Tin _____
Iron _____	Titanium _____
Lead _____	Vanadium _____
Magnesium _____	Zinc _____

ORGANIC CHEMICALS

(Specify Methods for All Tests for which Approval is Sought in the Spaces Provided)

Acid Extractables _____

4-Chloro-3-methylphenol	3&4-Methylphenol
2-Chlorophenol	2-Nitrophenol
2,4-Dichlorophenol	4-Nitrophenol
2,6-Dichlorophenol	Pentachlorophenol
2,4-Dimethylphenol	Phenol
2,4-Dinitrophenol	2,4,5-Trichlorophenol
2-Methyl-4,6-dinitrophenol	2,4,6-Trichlorophenol
2-Methylphenol	

Benzidines _____

Benzidine	3,3'-Dichlorobenzidine
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Chlorinated Hydrocarbons _____

1-Chloronaphthalene	Hexachloroethane
2-Chloronaphthalene	Hexachlorocyclopentadiene
Hexachlorobenzene	1,2,4-Trichlorobenzene
Hexachlorobutadiene	

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ENVIRONMENTAL LABORATORY CERTIFICATION PROGRAM

WASTEWATER/ NON-POTABLE WATER ANALYTES

CHEMISTRY

ORGANIC CHEMICALS

(Specify Methods for All Tests for which Approval is Sought in the Spaces Provided)

Haloethers

bis(2-chloroethyl)ether	_____	4-Bromophenyl phenyl ether
bis(2-chloroethoxy)methane		4-Chlorophenyl phenyl ether
bis(2-chloroisopropyl)ether (or 2,2'-oxybis(1-chloropropane)		

Nitroaromatics/Isophorone

4-Chloroaniline	_____	3-Nitroaniline
2,4-Dinitrotoluene		4-Nitroaniline
2,6-Dinitrotoluene		Nitrobenzene
Isophorone		Pyridine
2-Nitroaniline		Carbazole

Nitrosamines

N-Nitrosodimethylamine	_____	N-Nitroso-di-n-propylamine
N-Nitrosodiphenylamine		

Phthalates

bis(2-ethylhexyl)phthalate	_____	Diethyl phthalate
Butylbenzyl phthalate		Dimethylphthalate
Di-n-butyl phthalate		Di-n-octyl phthalate

Polynuclear Aromatic Hydrocarbons

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

Miscellaneous Organics

Simazine	_____	Alachlor	_____
Aldicarb	_____	Atrazine	_____
2,3,7,8-TCDD (Dioxin)	_____		
Polychlorinated Dioxins and Dibenzofurans	_____		

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WASTEWATER/ NON-POTABLE WATER ANALYTES

CHEMISTRY

ORGANIC CHEMICALS (con't)

(Specify Methods for All Tests for which Approval is Sought in the Spaces Provided)

Organochlorine Pesticides

Aldrin	4,4'-DDD	Endrin Aldehyde
α-BHC	4,4'-DDE	Endrin Ketone
β-BHC	4,4'-DDT	Heptachlor
δ-BHC	Dieldrin	Heptachlor Epoxide
γ-BHC (Lindane)	Endosulfan I	Methoxychlor
α-Chlordane	Endosulfan II	Toxaphene
γ-Chlordane	Endosulfan Sulfate	
Chlordane, technical	Endrin	

Polychlorinated Biphenyls (PCB's)

Aroclor-1016	Aroclor-1242	Aroclor-1260
Aroclor-1221	Aroclor-1248	
Aroclor-1232	Aroclor-1254	

Chlorinated Herbicides

2,4-D	Dalapon	MCPA
2,4-DB	Dicamba	MCPP
2,4,5-TP (Silvex)	Dichloroprop	4-Nitrophenol
2,4,5-T	Dinoseb	Pentachlorophenol

Volatile Organic Compounds (VOC's)

Acetone	1,2-Dichlorobenzene	n-Propylbenzene
Acrolein	1,3-Dichlorobenzene	Styrene
Acrylonitrile	1,4-Dichlorobenzene	1,1,1,2-Tetrachloroethane
Benzene	1,4-Dichlorobutene	1,1,2,2-Tetrachloroethane
n-Butylbenzene	1,1-Dichloroethane	Tetrachloroethene
sec-Butylbenzene	1,2-Dichloroethane	Toluene
tert-Butylbenzene	1,1-Dichloroethene	1,1,1-Trichloroethane
Bromodichloromethane	cis-1,2-Dichloroethene	1,1,2-Trichloroethane
Bromoform	trans-1,2-Dichloroethene	Trichloroethene
Bromomethane	1,2-Dichloropropane	Trichlorofluoromethane
2-Butanone (MEK)	cis-1,3-Dichloropropene	1,2,4-Trimethylbenzene
Carbon Disulfide	trans-1,3-Dichloropropene	1,3,5-Trimethylbenzene
Carbon Tetrachloride	Ethylbenzene	Vinyl Chloride
Chlorobenzene	2-Hexanone	Xylenes
Chlorodibromomethane	Isopropylbenzene	
Chloroethane	p-Isopropyltoluene	Trichlorotrifluoroethane(1)
Chloroform	4-Isopropyltoluene	
Chloromethane	Methylene Chloride	(1) Freon 113
2-Chlorotoluene	4-Methyl-2-pentanone(MIBK)	Ethylene Dibromide
4-Chlorotoluene	Methyl-tert-butylether(MTBE)	1,2-DBC

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WASTEWATER/ NON-POTABLE WATER ANALYTES

CHEMISTRY

Radiochemistry

Cesium-134	_____	Radium-226	_____
Cesium-137	_____	Radium-228	_____
Cobalt-60	_____	Radon	_____
Gross Alpha	_____	Strontium-89	_____
Gross Beta	_____	Strontium-90	_____
Iodine-131	_____	Tritium	_____
Nickel-65	_____	Uranium	_____
Gamma (Photon) Emitters	_____		

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ENVIRONMENTAL LABORATORY CERTIFICATION PROGRAM

SOLID WASTE/ SOIL ANALYTES

CHEMISTRY

INORGANIC CHEMICALS (Specify Methods for All Tests for which Approval is Sought in the Spaces Provided)

Wet Chemistry and Miscellaneous

Chromium, Hexavalent	_____	Sulfide	_____
Cyanide	_____	Total Solids	_____
PH	_____	Total Volatile Solids	_____
Oil & Grease (HEM)	_____	Total Organic Carbon	_____
PHC (HEM/Silica Gel)	_____	Total Organic Halides	_____
Phenolics, Total	_____	Connecticut ETPH	_____
Total Kjeldahl Nitrogen	_____	Total Phosphorus	_____
Ammonia-nitrogen	_____	MA Volatile Petroleum Hydrocarbons	_____
MA Extractable Petroleum Hydrocarbons	_____		

Metals

Aluminum	_____	Manganese	_____
Arsenic	_____	Mercury	_____
Antimony	_____	Molybdenum	_____
Barium	_____	Nickel	_____
Beryllium	_____	Potassium	_____
Boron	_____	Selenium	_____
Cadmium	_____	Silver	_____
Calcium	_____	Sodium	_____
Chromium	_____	Strontium	_____
Cobalt	_____	Thallium	_____
Copper	_____	Tin	_____
Iron	_____	Titanium	_____
Lead	_____	Vanadium	_____
Magnesium	_____	Zinc	_____

ORGANIC CHEMICALS

Acid Extractables

4-Chloro-3-methylphenol	_____	3&4-Methylphenol	_____	2,4-Dinitrophenol	_____
2-Chlorophenol	_____	2-Nitrophenol	_____	2-Methyl-4,6-dinitrophenol	_____
2,4-Dichlorophenol	_____	4-Nitrophenol	_____	2-Methylphenol	_____
2,6-Dichlorophenol	_____	Pentachlorophenol	_____	2,4,5-Trichlorophenol	_____
2,4-Dimethylphenol	_____	Phenol	_____	2,4,6-Trichlorophenol	_____

STATE OF CONNECTICUT
ENVIRONMENTAL LABORATORY CERTIFICATION PROGRAM

SOLID WASTE/ SOIL ANALYTES

CHEMISTRY

ORGANIC CHEMICALS

(Specify Methods for All Tests for which Approval is Sought in the Spaces Provided)

Benzidines

Benzidine _____
3,3'-Dichlorobenzidine

Chlorinated Hydrocarbons

1-Chloronaphthalene _____
Hexachloroethane
2-Chloronaphthalene _____
Hexachlorocyclopentadiene
Hexachlorobenzene _____
1,2,4-Trichlorobenzene
Hexachlorobutadiene _____

Haloethers

bis(2-chloroethyl)ether _____
4-Bromophenyl phenyl ether
bis(2-chloroethoxy)methane _____
4-Chlorophenyl phenyl ether
bis(2-chloroisopropyl)ether (or 2,2'-oxybis(1-chloropropane)) _____

Nitroaromatics/Isophorone

4-Chloroaniline _____
3-Nitroaniline
2,4-Dinitrotoluene _____
4-Nitroaniline
2,6-Dinitrotoluene _____
Nitrobenzene
Isophorone _____
Pyridine
2-Nitroaniline _____
Carbazole

Nitrosamines

N-Nitrosodimethylamine _____
N-Nitroso-di-n-propylamine
N-Nitrosodiphenylamine _____

Phthalates

bis(2-ethylhexyl)phthalate _____
Diethyl phthalate
Butylbenzyl phthalate _____
Dimethylphthalate
Di-n-butyl phthalate _____
Di-n-octyl phthalate

Polynuclear Aromatic Hydrocarbons

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

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Pyrene
SOLID WASTE/ SOIL ANALYTES

CHEMISTRY

ORGANIC CHEMICALS (Specify Methods for All Tests for which Approval is Sought in the Spaces Provided)

Miscellaneous Organics

Atrazine _____	Alachlor _____	
Simazine _____	Aldicarb _____	
2,3,7,8-TCDD (Dioxin) _____		
Polychlorinated Dioxins and Dibenzofurans _____		

Organochlorine Pesticides

Aldrin	4,4'-DDD	Endrin Aldehyde
α -BHC	4,4'-DDE	Endrin Ketone
β -BHC	4,4'-DDT	Heptachlor
δ -BHC	Dieldrin	Heptachlor Epoxide
γ -BHC (Lindane)	Endosulfan I	Methoxychlor
α -Chlordane	Endosulfan II	Toxaphene
γ -Chlordane	Endosulfan Sulfate	
Chlordane, technical	Endrin	

Polychlorinated Biphenyls (PCB's)

Aroclor-1016	Aroclor-1242	Aroclor-1260
Aroclor-1221	Aroclor-1248	
Aroclor-1232	Aroclor-1254	

Chlorinated Herbicides

2,4-D	Dalapon	MCPA
2,4-DB	Dicamba	MCPP
2,4,5-TP (Silvex)	Dichloroprop	4-Nitrophenol
2,4,5-T	Dinoseb	Pentachlorophenol

Volatile Organic Compounds (VOC's)

Acetone	1,2-Dichlorobenzene	n-Propylbenzene
Acrolein	1,3-Dichlorobenzene	Styrene
Acrylonitrile	1,4-Dichlorobenzene	1,1,1,2-Tetrachloroethane
Benzene	1,4-Dichlorobutene	1,1,2,2-Tetrachloroethane
n-Butylbenzene	1,1-Dichloroethane	Tetrachloroethene
sec-Butylbenzene	1,2-Dichloroethane	Toluene
tert-Butylbenzene	1,1-Dichloroethene	1,1,1-Trichloroethane
Bromodichloromethane	cis-1,2-Dichloroethene	1,1,2-Trichloroethane
Bromoform	trans-1,2-Dichloroethene	Trichloroethene
Bromomethane	1,2-Dichloropropane	Trichlorofluoroethane(1)

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SOLID WASTE/ SOIL ANALYTES

CHEMISTRY

ORGANIC CHEMICALS

(Specify Methods for All Tests for which Approval is Sought in the Spaces Provided)

Volatile Organic Compounds (VOC's) (con't)

2-Butanone (MEK)	cis-1,3-Dichloropropene	Trichlorofluoromethane
Carbon Disulfide	trans-1,3-Dichloropropene	1,2,4-Trimethylbenzene
Carbon Tetrachloride	Ethylbenzene	1,3,5-Trimethylbenzene
Chlorobenzene	2-Hexanone	Vinyl Chloride
Chlorodibromomethane	Isopropylbenzene	Xylenes
Chloroethane	p-Isopropyltoluene	Ethylene Dibromide
Chloroform	4-Isopropyltoluene	1,2-DBC
Chloromethane	Methylene Chloride	
2-Chlorotoluene	4-Methyl-2-pentanone(MIBK)	
4-Chlorotoluene	Methyl-tert-butylether(MTBE)	

(1) Freon 113

Radiochemistry

Cesium-134	_____	Radium-226	_____
Cesium-137	_____	Radium-228	_____
Cobalt-60	_____	Radon	_____
Gross Alpha	_____	Strontium-89	_____
Gross Beta	_____	Strontium-90	_____
Iodine-131	_____	Tritium	_____
Nickel-65	_____	Uranium	_____
Gamma (Photon) Emitters	_____		

RCRA Characteristics

Corrosivity (pH)	_____	SPLP Leaching	_____
Ignitability	_____	TCLP Leaching	_____
Reactivity(2)	_____		

(2) Requires cyanide and sulfide approval.

Environmental Lead

Soil _____ Dust Wipes _____ Paint Chips _____

Requires AIHA PT Participation or equivalent.

STATE OF CONNECTICUT
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ASBESTOS CERTIFICATION

The Environmental Laboratory Certification Program offers four areas of approval for determination of asbestos:

1. Asbestos in Bulk Materials.
2. Asbestos in Water.
3. Asbestos in Air to meet post abatement/reoccupancy criteria or air samples analyzed to determine completion of response actions.
4. Asbestos in air samples (General) for other purposes than described in 3.

In order to obtain approval for post abatement/reoccupancy samples or samples analyzed to determine completion of response actions, laboratories shall be accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) to conduct asbestos determination in air analysis using transmission electron microscopy (TEM) or; laboratories shall be accredited by the American Industrial Hygiene Association, or other certifying agency acceptable to the Department of Public Health, for asbestos determination in air by optical microscopy or electron microscopy; or individuals shall be listed in the American Industrial Hygiene Association's Asbestos Analyst's Registry (AAR). Any analyst who performs asbestos determinations in the field, (e.g. not in a fixed laboratory), for post abatement/reoccupancy criteria (PAC) or to determine completion of response actions shall be listed in the AAR.

Please list the methods used in the appropriate spaces

Asbestos in Bulk Materials	_____
Asbestos in Water	_____
Asbestos in Air (General)	_____
Asbestos in Air for PAC/response action Completion	_____

Please list accreditations for post abatement/reoccupancy and completion of response actions for your laboratory:
