Chapter 3

State-Specific Information

State-specific Sampling Information

Connecticut
Department of Public Health Laboratory

March 6, 2000

P.O. Box 1689
10 Clinton Street
Hartford, CT. 06106

Contact Number (24 hrs.): 860-509-8500
Fax Number: 860-509-8697

General Information

The Connecticut Department of Public Health (DPH) Laboratory is open from 8 A.M. to 4 P.M, Monday thru Friday (**See special instructions for microbiology**). Parking is available under the building where there is direct access to the Receiving Room. Samples may be accepted on an emergency basis outside of normal working hours by contacting the appropriate department of the laboratory. Please refer to the *New England States' Drinking Water Sample Collection & Preservation* manual included with this document for detailed sample collection and preservation instructions for each of the biological and chemical substances for which public water supplies must test. This document summarizes national guidelines and procedures in accordance with stringent federal regulations. It is imperative that you comply with these instructions.

The Laboratory will supply sample collection containers and these should be used unless special arrangements have been made. Once collected, samples should be hand delivered or mailed to the Laboratory.

Field reagent blanks and duplicates (if included) are essential elements of our quality assurance program to insure the integrity, validity, accuracy and precision of laboratory results. You are not charged for these samples.

Please be sure to accurately and thoroughly complete the sample requisition form containing the sample identification, date of collection and other pertinent information. This form must have an appropriate address/account label.

* See manual refers to the *New England States' Drinking Water Sample Collection & Preservation Manual.*

Environmental Microbiology
Robert Howard: 860-509-8562

Test: Coliform/E. coli – Instructions

1. Collector must use sample container (250 ml. sterile drinking water bottle) provided by the Connecticut DPH Laboratory.
2. To ensure processing that day, drinking water and source water samples must be submitted by 3 PM Monday through Friday.
3. Source water must be analyzed within 8 hours of collection.
4. Source water must be shipped and held below 10° C.

Test: Heterotrophic Plate Count -- Instructions

1. Collector must use sample container (250 ml. sterile drinking water bottle) provided by the Connecticut DPH Laboratory.
2. Samples must be submitted by 3 P.M. Monday through Friday to ensure processing that day.
3. Drinking water must be analyzed within 8 hours of collection.
4. Drinking water must be shipped and held below 10° C.

Inorganic Chemistry
Stephen Gudernatch: 860-509-8543

Metals – Instructions

Follow instructions in Chapter 2 **except:** Proceed from step 4d to 4h. The pH will be checked at the laboratory and adjusted if necessary.

Cyanide -- Instructions

See Chapter 2.

Nitrate & Nitrite -- Instructions.

See Chapter 2.

Inorganics -- Instructions

See Chapter 2.

Industrial Hygiene / Radiation
Taras Tuczkewycz: 860-509-8525

EPA Method 600/4-83-043
Substance: Asbestos
Instructions: See Chapter 2.

EPA Methods 78-1 & 913.0
Substance: Radon in water
Holding time: Maximum holding time is 4 days.
Instructions:
1. Sample is collected according to methodology described in EPA/EERF (Eastern Environmental Radiation Facilty) Manual 78-1.
2. Sample vial with scintillation solution and a syringe for sampling will be provided by the DPH Laboratory.
3. Proper identification, including date and **time of collection** (crucial) must be submitted. Put identification on cap with marking pen but not on glass scintillation vial.
4. Deliver to laboratory the same day if possible.

EPA Methods 900.0, 903,0, 902.0, 904.0 908.0, 905.0 906.0
Substance: gross alpha (900), gross beta (900), iodine 131 (902), radium 226 & 228 (903,904), strontium 89 & 90 (905), tritium (906), uranium(908).
Instructions: See Chapter 2.

Residue Chemistry
Russell Spencer: 860-509-8547

EPA Method 505
Compounds: Organochlorine Pesticides, Triazines and Polychlorinated Biphenyls (PCBs)
Instructions: See Chapter 2.

EPA Method 531.1
Compounds: N-methylcarbamoyloximes, N-methyl carbamates (e.g. aldicarb, oxamyl, carbofuran, etc.)
Instructions: See Chapter 2.

EPA Method 547
Compound: glyphosate
Instructions: See Chapter 2.

EPA Method 549.1
Compound: diquat
Instructions: See Chapter 2.

EPA Method 552.1
Compounds: haloacetic acids & dalapon (e,g. dichloroacetic acid, etc.)
Instructions: See Chapter 2.

EPA Method 555
Compounds: Chlorinated acid herbicides (e.g. 2,4-D, Silvex, pentachlorophenol, picloram, etc.)
Instructions: See Chapter 2.

GC/MS
Ronald Michaud: 860-509-8522

EPA Method 504.1
Compounds: EDB and DBCP and 1,2,3-TCP
Instructions: See Chapter 2.

EPA Method 524.2
Compounds: Volatile Organic Compounds (VOCs - Quantity: 60 and MTBE)
Instructions: See Chapter 2.

EPA Method 525.2
Compounds: Polynuclear Aromatic Hydrocarbons (PAHs) including benzo(a) pyrene, bis (2-ethylhexyl) phthalate and bis (2-ethylhexyl) adipate
Instructions: See Chapter 2.

EPA Method 548.1
Compound: endothall
Instructions: See Chapter 2.

State-specific Sampling Information

Massachusetts
Department of Environmental Protection

July 21, 2000

Routine Compliance Monitoring Samples

Massachusetts-certified commercial and municipal laboratories perform the analysis of all drinking water samples collected for routine compliance monitoring purposes in the Commonwealth of Massachusetts. Massachusetts public water suppliers, and other entities requiring drinking water analysis must contract a commercial or municipal laboratory certified by the Massachusetts Department of Environmental Protection (MADEP), Laboratory Certification Office (LCO), Division of Environmental Analysis (DEA), Senator William X. Wall Experiment Station (WES), to perform these analyses. A list of certified laboratories can be obtained by contacting the LCO at (978) 682-5237. The list of Massachusetts-certified laboratories can also be downloaded from the DEP World Wide Web site (DEA Publications) at:

http://www.state.ma.us/dep/bspt/wes/weshome.htm

The certified laboratory contracted to perform the analysis of drinking water samples will provide all the necessary sample containers, preservation reagents, and sampling instructions. The sampling instructions provided to sample collectors will be those in Chapter 2 of this Manual.

Special Compliance Monitoring and Enforcement Samples

All drinking water samples collected by Massachusetts DEP regional and program staff for special compliance monitoring purposes or enforcement actions are analyzed by the DEA/WES, Lawrence, MA. MADEP regions and programs needing such analytical services from DEA/WES must contact via telephone or e-mail (preferred) Robert Serabian (DEA/WES Quality Assurance Officer), Kenneth Hulme (DEA/WES Deputy Director), or Dr. Oscar Pancorbo (DEA/WES Director) to schedule the work in the MADEP Laboratory. Once the project has been scheduled, DEA/WES will prepare the appropriate sample containers, required sample preservation reagents, sample ID tags, sample tracking/chain-of-custody form, sample cooler, any other sampling equipment needed, and sampling instructions. The sampling instructions provided will be those in Chapter 2 of this Manual. The cooler with the necessary supplies and instructions are then either picked up at DEA/WES in Lawrence, or sent by MADEP courier or by private courier service to the MADEP regional or Boston office in time for the sampling event. Ice and ice packs are available at the MADEP regional and Boston offices. Once the samples are collected, the coolers with the samples are driven by MADEP regional or program staff, sent by MADEP courier, or sent by private overnight courier service to DEA/WES (Lawrence) for laboratory analysis.

State-specific Sampling Information

Maine
Department of Human Services
Division of Health Engineering
Drinking Water Program

July 31, 2000

Contact number: 207-287-2070

General Instructions

All samples submitted to the Health and Environmental Testing Laboratory (HETL) for analysis must be in HETL containers unless prior arrangements have been made. The information on the sample data sheets must be as complete as possible and the sheets returned with the samples. **Be sure to indicate the date and time the sample was collected.**

Sample kits may be purchased or samples may be sent to the laboratory through the mail. Sample kits may also be purchased and delivered to the lab in person. Laboratory hours are Monday through Friday 7:30 AM-5:00 p.m.

If you plan to mail your samples, check with the post office before sampling to determine what time the mail is picked up. Take and mail the samples as close to the pick-up time as possible because the age of a water sample has direct bearing on the accuracy of the laboratory results. Samples should be shipped by mail on Monday, Tuesday, or Wednesday to avoid possible weekend delay. Samples may be brought to the laboratory at 221 State Street anytime Monday through Friday between the hours of 7:30 AM and 5:00 p.m. Samples requiring microbiological analysis should, whenever possible, be delivered before 4:00 p.m.

Water samples for microbiological analysis which arrive at the laboratory 30 hours or more after sample collection will not give a true representation of the microbiological quality of the water. If your microbiological sample arrives 30 hours or more after collection, you will be required to purchase a replacement kit and take a new sample.

Specific Instructions

1. Coliform Sampling

   Samples must be collected at locations as specified in the water systems' "Sample Site Plan". Samples not collected from the correct site will not be accepted. Please call this office if you need to complete a Sample Site Plan. All coliform recheck samples are collected by Drinking Water Program staff. Please contact Lindy Moceus at the Drinking Water Program before collecting any follow up (to coliform positive) samples.

2. Volatile Organics

   Maine has a standard for MTBE. All Volatile Organic samples (VOCs) must be analyzed utilizing EPA Method 524.2. This is the only acceptable method for VOCs.

3. Herbicides, Pesticides, PCBs and Semi-volatile organics

   Do not collect any herbicide, pesticide, PCB or semi-volatile organics (SVOC) samples without first contacting Jeff Folger at the Drinking Water Program. Maine has a waiver program for these tests.

4. Lead and Copper

   All lead and copper testing must be accompanied by a 141 form, even if the laboratory calculates your 90th percentiles. Please contact your lab or Dana Ivers at the Drinking Water Program if you need a 141 form.

5. Sample collection locations.

   Coliform, lead and copper, and disinfection by-products samples are collected in the water system. All other samples are collected after treatment and before disinfection. Please call Mike Corbin at the Drinking Water Program if you are not sure where to collect a sample.

State-specific Sampling Information

New Hampshire
Department of Environmental Services

January 3, 2000

Based on the New England Common Sampling Manual, the State of New Hampshire has prepared a separate, state-specific document called the New Hampshire Drinking Water Sampling Manual. The NH edition draws on the common manual as a template, but incorporates state-specific details such as chemical groupings and State Laboratory-specific details into the body of the document. The water supply program has requested that the private laboratories in NH edit each of the test templates relative to their lab's specific scheduling, bottle and preservative criteria. New Hampshire's Sampling Manual will be used at system operator training sessions given by the Water Supply Engineering Bureau, while the private laboratories will distribute their laboratory-specific versions to their clients.

Copies of the New Hampshire Drinking Water Sampling Manual are available through the NH Water Supply Engineering Bureau by calling 603-271-2513 or from the Department of Environmental Services, Laboratory Services Unit at 603-271-3445. The manual can also be downloaded from the web at http://www.des.state.nh.us/wseb.

State-specific Sampling Information

Vermont
Department of Health

December 3, 1999

Generally the laboratory must supply all sample containers unless other arrangements have been made with the Program Chief or Laboratory Director.

1. **For coliform sampling instructions**

Samples must be received by the laboratory as soon as possible, but no more than 30 hours after collection. Samples must be received by the laboratory Monday through Friday by 4 p.m. If you wish to get next-day results, samples must be received before 12 noon Monday through Thursday. Results for samples received before noon are available after 3 p.m. the following day.

You may purchase test kits and send samples to the lab through the mail. You are welcome to come to the laboratory in person to purchase kits or drop off samples. Business hours are Monday through Friday, 7:45 a.m. to 4:30 p.m.

If you are sending more than one sample, each sample must have its own Water Sample Collection Information form filled out. Make sure each bottle is labeled with its sampling location or some other identifying mark ("Sample A", "Sample B", etc.). Put the same identifying information as you put on the bottled, in the "submitter remarks" section.

2. **For all other instructions**

Samples must be received before 4 p.m. Monday through Friday.

You may purchase test kits and send samples to the lab through the mail. You are welcome to come to the laboratory in person to purchase kits or drop off samples. Business hours are Monday through Friday, 7:45 a.m. to 4:30 p.m.

If you are sending more than one sample, each sample must have its own Water Sample Collection Information form filled out. Make sure each bottle is labeled with its sampling location or some other identifying mark ("Sample A", "Sample B", etc.). Put the same identifying information as you put on the bottled, in the "submitter remarks" section.

Some testing is offered only on certain dates during the year. The laboratory will communicate those times to interested water supplies by our annual "Drinking Water Test Kit Descriptions " or in specific mailings when orders are received.

Generally the laboratory must supply all sample containers unless other arrangements have been made with Program Chief of Laboratory Director.

State-Specific Sampling Information

Rhode Island
Department of Health
Office of Drinking Water Quality

January 25, 2001

Contact number: 401 222-6867

General Instructions

All samples submitted to the Rhode Island Health Laboratory (HL) for analysis must be in HL containers unless prior arrangements have been made. The information on the sample data sheets, Form A's, must be as complete as is appropriate, to clearly identify the sampling location, collector, type of sample and analysis requested. A Form "A" must be returned with the samples. **Be sure to indicate the date and time the sample was collected.**

Drinking Water Quality staff must return the samples directly to the laboratory at 50 Orms Street unless prior arrangements have been made. Laboratory hours are Monday through Friday 8:30 a.m. - 4:30 p.m. unless prior arrangements have been made. Samples for nitrates will not be accepted on Friday. **All water** samples must be returned to the laboratory **on the day that they were collected** unless prior arrangements have been made directly with the laboratory supervisor and approved by your supervisor.

All samples submitted to the Health Laboratory will be billed by Drinking Water Quality at the end of each month.

Specific Instructions

1. **Coliform Sampling**

   Samples must be collected at locations as specified in the water systems' "Sample Site Plan" for the required parameters as noted on the current compliance schedule. Make appropriate arrangements with the water system official to gain access to the designated sampling location, if necessary. Collect appropriate quality control samples as directed by the laboratory. If there are any questions concerning the sampling plan, contact Donna Pytel at Drinking Water Office.

2. **Volatile Organics**

   All Volatile Organic samples (VOCs) must be analyzed utilizing EPA Method 524.2. Samples must be collected at locations and for the required parameters as noted on the current compliance schedule. Make appropriate arrangements with the water

system official to gain access to the designated sampling location, if necessary. Collect appropriate quality control samples as directed by the laboratory. If there are any questions concerning the sampling, contact Donna Pytel at Drinking Water Office.

3. **Herbicides, Pesticides, PCBs and Semi-volatile Organics**

   All samples collected for herbicide, pesticide, PCB or semi-volatile organics (SVOC) testing must be collected at locations and for the required parameters as noted on the current compliance schedule. Make appropriate arrangements with the water system official to gain access to the designated sampling location, if necessary. Collect appropriate quality control samples as directed by the laboratory. If there are any questions concerning the sampling plan, contact Donna Pytel at Drinking Water Office

4. **Lead and Copper**

   Collect samples at the highlighted locations provided in the lead and copper sampling kit. A Form "A" must accompany each lead and copper sample. Complete all highlighted item on this form. Deliveries to the laboratory must be made in accordance with the instructions provided with the sample bottles. If there are any questions concerning the sampling, contact Romeo Mendes at Drinking Water Office.

5. **All Other Sampling**

   All samples must be collected in accordance with the current compliance-monitoring schedule, at the approved locations identified in the current compliance schedule, and with prior approval of the Chief Sanitarian. Collect appropriate quality control samples as directed by the laboratory. If there are any questions concerning the sampling plan, contact Donna Pytel at Drinking Water Office.

6. **Bottle Orders**

   DWQ staff must place bottle orders and confirmation orders for SOC testing with the appropriate laboratory via the e-mail at the end of the business day prior to sampling, if possible.

State-specific Sampling Information

Vermont
Department of Health

September 14, 2000

Generally the laboratory must supply all sample containers unless other arrangements have been made with Program Chief or Laboratory Director.

Contact numbers: 802-863-7335
800-660-9997 (within Vermont only)

1. **Instructions for coliform sampling**

Samples must be received by the laboratory as soon as possible, but no more than 30 hours after collection. Samples must be received by the laboratory Monday through Friday by 4 p.m. If you wish to get next-day results, samples must be received before 12 noon Monday through Thursday. Results for samples received before noon are available after 3 p.m. the following day.

You may purchase test kits and send samples to the lab through the mail. You are welcome to come to the laboratory in person to purchase kits or drop off samples. Business hours are Monday through Friday, 7:45 a.m. to 4:30 p.m.

If you are sending more than one sample, each sample must have its own Water Sample Collection Information form filled out. Make sure each bottle is labeled with its sampling location or some other identifying mark ("Sample A", "Sample B", etc.). Be sure to put the same identifying information on the form in the "submitter remarks" section.

2. **Instructions for all other sampling**

Samples must be received before 4 p.m. Monday through Friday.

You may purchase test kits and send samples to the lab through the mail. You are welcome to come to the laboratory in person to purchase kits or drop off samples. Business hours are Monday through Friday, 7:45 a.m. to 4:30 p.m.

If you are sending more than one sample, each sample must have its own Water Sample Collection Information form filled out. Make sure each bottle is labeled with its sampling location or some other identifying mark ("Sample A", "Sample B", etc.). Be sure to put the same identifying information on the form in the "submitter remarks" section.

Some testing is offered only on certain dates during the year. The laboratory will communicate those times to interested water supplies in our annual "Drinking Water Test Kit Descriptions" or in specific mailings when orders are received.

Generally the laboratory must supply all sample containers unless other arrangements have been made with Program Chief or Laboratory Director.

Appendix A

New England Certification Officers
(Including Certification Program Web Sites)
9/13/00

	Name & Address	Phone Number	Fax Number
CT	Mr. Nicholas Macelletti Dept. of Public Health Certification Officer 450 Capitol Ave. MS#51-LAD P.O. Box 340308 Hartford, CT 06134-0308 **Web site:** http://www.state.ct.us/dph	860-509-7386	860-509-7378
MA	Ms. Ann Marie Allen Dept. of Environmental Protection Certification Officer 37 Shattuck St. Lawrence, MA 01843 **Web site:** http://www.state.ma.us/dep/bspt/wes/wespubs.htm	978-682-5237	978-688-0352
ME	Mr. John Nims Department of Human Services Certification Officer 12 State House Station Augusta, ME 04333	207-287-2727	207-287-6832
NH	Mr. Charles N. Dyer Department of Environmental Services Certification Officer P. O. Box 95 Concord, NH 03302-0095 **Web site:** http://www.des.state.nh.us/nhelap	603-271-2991	603-271-2997
RI	Dr. Ewa King, Ph.D Dept. of Health Laboratory QA/Certification Officer 50 Orms St. Providence, RI 02904-2283	401-222-5600	401-222-6985
VT	Mr. George Mills Department of Health Certification Officer & Program Chief 195 Colchester Ave. Burlington, VT 05401	802-863-7335	802-863-7632