

STANDARD MONITORING PLAN FOR GROUND WATER SYSTEMS SERVING 500 - 9,999 PEOPLE

SECTION I: GENERAL INFORMATION

A. Public Water System Information	B. Date Submitted:
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Public Water System ID Number (PWSID): _____

System Name: _____

System Address: _____

City, State, Zip Code: _____

Population served by your system (Not the number of taps or service connections, or the population of the largest system in your Combined Distribution System): _____

System Type (Check One)	Source Water Type (Check One)	Buying/Selling Relationships (Check all that apply)
<input checked="" type="checkbox"/> Community Water System (CWS) <input type="checkbox"/> Non-Transient Non-Community Water System (NTNCWS)	<input type="checkbox"/> Surface Water or Ground Water Under the Direct Influence of Surface Water <input checked="" type="checkbox"/> Ground Water	<input type="checkbox"/> Purchase Water (Consecutive System) <input type="checkbox"/> Sell Water to other systems (Wholesale System) <input type="checkbox"/> Neither Buy nor Sell

C. PWS Operations

Residual Disinfectant Type Chlorine Chloramines Other: _____

Number of Disinfected Sources	Surface Water: _____ Ground Water Under the Direct Influence of Surface Water: _____ Ground Water: _____ Purchased Surface Water: _____ Purchased Ground Water: _____
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D. Contact Person

Name: _____

Title: _____

E-mail Address: _____

Phone No: _____ Cell No: _____ Fax No: _____

SECTION II: IDSE STANDARD MONITORING REQUIREMENTS

A. Number of Sampling Sites	B. Schedule	C. Standard Monitoring Frequency
Total: _____ Near Entry Point: _____ Average Residence Time: _____ High TTHM: _____ High HAA5: _____	<input type="checkbox"/> Schedule 1 <input type="checkbox"/> Schedule 2 <input type="checkbox"/> Schedule 3 <input checked="" type="checkbox"/> Schedule 4	<input type="checkbox"/> During Peak Historical Month (1 monitoring period) <input checked="" type="checkbox"/> Every 90 days (4 monitoring periods) <input type="checkbox"/> Every 60 days (6 monitoring periods)

STANDARD MONITORING PLAN FOR GROUND WATER SYSTEMS SERVING 500 - 9,999 PEOPLE

III. SELECTING STANDARD MONITORING SITES

A. Data Evaluated: Check all boxes corresponding to the data or information you used to select each type of Standard Monitoring site (Check all boxes that apply)

Data or Information Used to Pick Your Sites	TYPE OF SITE	
	High TTHM Site	High HAA5 Site
System Configuration		
Pipe layout, locations of storage facilities	<input type="checkbox"/>	<input type="checkbox"/>
Locations of sources and consecutive system entry points	<input type="checkbox"/>	<input type="checkbox"/>
Pressure zones	<input type="checkbox"/>	<input type="checkbox"/>
Information on population densities	<input type="checkbox"/>	<input type="checkbox"/>
Locations of large customers	<input type="checkbox"/>	<input type="checkbox"/>
Water Quality and Operational Data and Information		
Disinfectant residual data	<input type="checkbox"/>	<input type="checkbox"/>
Stage 1 TTHM and HAA5 data	<input type="checkbox"/>	<input type="checkbox"/>
Other TTHM and HAA5 data	<input type="checkbox"/>	<input type="checkbox"/>
Coliform monitoring, Heterotrophic Plate Count (HPC)	<input type="checkbox"/>	<input type="checkbox"/>
Tank level data, pump run times	<input type="checkbox"/>	<input type="checkbox"/>
Customer billing records	<input type="checkbox"/>	<input type="checkbox"/>
Advanced Tools		
Water distribution system model	<input type="checkbox"/>	<input type="checkbox"/>
Tracer study	<input type="checkbox"/>	<input type="checkbox"/>

B. Summary of Data: Provide a summary description of the data and information that you used to pick your Standard Monitoring sites (or attach a separate sheet with your summary):

STANDARD MONITORING PLAN FOR GROUND WATER SYSTEMS SERVING 500 - 9,999 PEOPLE

IV. JUSTIFICATION OF STANDARD MONITORING SITES

DESCRIBE HOW AND WHY YOU PICKED EACH SITE. YOUR SAMPLING SITE JUSTIFICATIONS ARE THE MOST IMPORTANT INFORMATION IN YOUR STANDARD MONITORING PLAN – BE AS SPECIFIC AS POSSIBLE (ATTACH ADDITIONAL SHEETS IF NECESSARY).

High TTHM Example: This site is in the southeastern portion of this system on a 6 inch line, before the last group of connections, near the end of the distribution system, and receives water from the Hometown Storage Tank. We believe this area has high water age, because of the relatively large pipe and low demand. Chlorine residuals during the summer months are low or non-detectable. (Additional examples are included in the Standard Monitoring Plan Attachment).

Standard Monitoring Site ID (Use same ID to identify these sites on your schematic)	Standard Monitoring Site Type and Site Justification (Check the box for site type and provide your justification for selecting the site)			
	High TTHM: Site where you would expect to find the highest TTHM levels			
	High HAA5: Site where you would expect to find the highest HAA5 levels			
SM-1	<input type="checkbox"/> Near Entry Point	<input type="checkbox"/> Avg Res Time	<input checked="" type="checkbox"/> High TTHM	<input type="checkbox"/> High HAA5
SM-1 JUSTIFICATION:				
SM-2	<input type="checkbox"/> Near Entry Point	<input type="checkbox"/> Avg Res Time	<input type="checkbox"/> High TTHM	<input checked="" type="checkbox"/> High HAA5
SM-2 JUSTIFICATION:				

NOTE: Make sure to use your Standard Monitoring Site IDs to label these monitoring locations on your distribution system schematic.

STANDARD MONITORING PLAN FOR GROUND WATER SYSTEMS SERVING 500 - 9,999 PEOPLE

SECTION V: PEAK HISTORICAL MONTH AND PROPOSED STANDARD MONITORING SCHEDULE

A. Peak Historical Month: _____

Your peak historical month will usually be the month during which you consistently have the highest TTHM & HAA5 levels during normal operating conditions. If you do not have any TTHM/HAA5 data, your peak historical month would be the month of warmest water temperature.

B. Source Used to Determine Peak Historical Month: _____

If you have more than one source, indicate the source that you used in determining your peak historical month. For example, if you have a surface source and a ground water source, and your highest TTHM values were associated with the surface source, you would indicate 'surface source'. If you only have one source, write N/A:

C. What did you determine your peak historical month based on:

- High TTHM
 High HAA5
 Month of Warmest Water Temperature

If you used other information other than TTHM/HAA5 or water temperature to select your peak historical month, attach a sheet with an explanation of how and why you selected your Peak Historical Month.

D. Proposed Standard Monitoring Schedule

Standard Monitoring Site ID

If your Peak Historical Month is July, Aug or Sept, use the STANDARD MONITORING DATES table above to select your Projected Sampling dates. You must either specify dates which fall within the months indicated below and which are 90 days apart, or enter the same week during each month in which you must monitor.

Example: A system with a Peak Historical Month of July could enter "1st wk, Apr 2009", "1st wk July 2009", "1st wk Oct 2009", and "1st wk Jan 2010" for the projected sampling periods below.

	Projected Sampling Dates			
	Period 1	Period 2	Period 3	Period 4
SM-1				
SM-2				

STANDARD MONITORING DATES

If your Peak Historical Month is:	You must monitor during:
July	Apr 2009, July 2009, Oct 2009, Jan 2010
August	May 2009, Aug 2009, Nov 2009, Feb 2010
September	June 2009, Sept 2009, Dec 2009, Mar 2010

If your Peak Historical Month is not July, Aug or Sept, call/email U.S. EPA.

STANDARD MONITORING PLAN FOR GROUND WATER SYSTEMS SERVING 500 - 9,999 PEOPLE

SECTION VI: PLANNED STAGE 1 TTHM/HAA5 COMPLIANCE MONITORING SCHEDULE

Stage 1 DBPR TTHM/HAA5 Monitoring Site ID	Projected Stage 1 DBPR TTHM/HAA5 Compliance Sampling Dates: This is the compliance monitoring you have been doing in accordance with State requirements. Enter the dates that you will be collecting your Stage 1 TTHM/HAA5 compliance samples for the State between April 1, 2009 and March 31, 2010. If you are not currently required to monitor for TTHM/HAA5 by the State, write 'N/A' in the table below.			
	Period 1	Period 2	Period 3	Period 4
ST1-1				
ST1-2				
ST1-3				
ST1-4				
ST1-5				
ST1-6				
ST1-7				
ST1-8				

Make sure that your Stage 1 TTHM/HAA5 Compliance Monitoring Sites are marked on your distribution system schematic, using the IDs listed above.

IMPORTANT NOTE: IF YOU ARE CURRENTLY REQUIRED TO COLLECT TTHM/HAA5 COMPLIANCE SAMPLES, YOU MUST CONTINUE TO COLLECT THESE SAMPLES, IN ADDITION TO COLLECTING YOUR STANDARD MONITORING SAMPLES DURING THE TIMEFRAME SPECIFIED ABOVE OR YOU WILL INCUR COMPLIANCE MONITORING VIOLATIONS

SECTION VII: DISTRIBUTION SYSTEM SCHEMATIC

DISTRIBUTION SYSTEM SCHEMATICS ARE SUBJECT TO FREEDOM OF INFORMATION ACT REQUESTS, AND SHOULD NOT CONTAIN ANY INFORMATION THAT POSES A SECURITY RISK TO YOUR SYSTEM. A SKELETON OF THE DISTRIBUTION SYSTEM, INCLUDING THE INFORMATION BELOW, WITHOUT STREET NAMES, OR OTHER LOCATIONAL IDENTIFIERS IS SUFFICIENT:

1. All entry points to the distribution system
2. Locations of all Sources
3. Locations and capacity of all storage facilities
4. Locations of pumping stations
5. Locations of disinfectant booster stations
6. Pressure zone boundaries
7. Proposed Standard Monitoring Sites (labeled SM-1, SM-2, etc.)
8. Stage 1 TTHM/HAA5 Compliance Monitoring Sites (labeled ST1-1, ST1-2, etc.)

To avoid significant delays in processing your submittal, submit your distribution system schematic in electronic (PDF) format, if possible. If you submit a hardcopy of your schematic, use symbols and shapes (such as triangles, squares, and circles), instead of color coded dots, to mark locations on your map. Hardcopy schematics that are in color will be scanned into our system in black and white, so we will lose your color code designations.

STANDARD MONITORING PLAN FOR GROUND WATER SYSTEMS SERVING 500 - 9,999 PEOPLE

SECTION VIII: ATTACHMENTS

Check all of the boxes that apply. Please note that the distribution system schematic is a mandatory element of your Standard Monitoring Plan.

<input type="checkbox"/>	Distribution system schematic
<input type="checkbox"/>	Additional sheets for the summary of data and/or information used for selecting the Standard Monitoring sites (See Section III.B.)
<input type="checkbox"/>	Additional sheets for Standard Monitoring Site Justifications (See Section IV.)
<input type="checkbox"/>	Additional sheets for explaining how you used data other than TTHM, HAA5, and temperature to select your Peak Historical Month (See Section V.C.)
<input type="checkbox"/>	Additional sheets for planned Stage 1 TTHM/HAA5 Compliance Monitoring (See Section VI.)
<input type="checkbox"/>	Any other attachments - Please describe here:
<input type="checkbox"/>	If you are submitting this Standard Monitoring Plan electronically, and are mailing some hardcopies separately, check this box, and please note what you are sending in hardcopy:

Total Number of Pages you are submitting in your Standard Monitoring Plan (including attachments and schematic): _____