

## Standard Monitoring Requirements - Attachment (For All Schedules)

### Stage 2 Compliance Monitoring Requirements

Source Water Type	Population Size Category <sup>1</sup>	Monitoring Frequency <sup>2</sup>	Distribution System Monitoring Location			
			Total per monitoring period <sup>3</sup>	Highest TTHM Locations	Highest HAA5 Locations	Existing Stage 1 DBPR Compliance Locations
<b>Subpart H</b>	<500	per year	2	1	1	.....
	500-3,300	per quarter	2	1	1	.....
	3,301-9,999	per quarter	2	1	1	.....
	10,000-49,999	per quarter	4	2	1	1
	50,000-249,999	per quarter	8	3	3	2
	250,000-999,999	per quarter	12	5	4	3
	1,000,000-4,999,999	per quarter	16	6	6	4
≥ 5,000,000	per quarter	20	8	7	5	
<b>Ground Water</b>	<500	per year	2	1	1	.....
	500-9,999	per year	2	1	1	.....
	10,000-99,999	per quarter	4	2	1	1
	100,000-499,999	per quarter	6	3	2	1
	≥ 500,000	per quarter	8	3	3	2

<sup>1</sup> Your monitoring requirements (locations and frequency) are based on the population served by your system.

<sup>2</sup> All systems must monitor during month of highest DBP concentrations.

<sup>3</sup> Systems on quarterly monitoring must take dual sample sets every 90 days at each monitoring location, except for subpart H systems serving 500-3,300. Systems on annual monitoring and subpart H systems serving 500-3,300 are required to take individual TTHM and HAA5 samples (instead of a dual sample set) at the locations with the highest TTHM and HAA5 concentrations, respectively. Only one location with a dual sample set per monitoring period is needed if highest TTHM and HAA5 concentrations occur at the same location (and month, if monitored annually).

### 7.3 Selecting Stage 2 DBPR Compliance Monitoring Sites and Preparing the IDSE Report

Every system that conducts standard monitoring **must** use results from Stage 1 DBPR compliance monitoring and standard monitoring to select Stage 2 DBPR compliance monitoring sites. You must follow a **specific protocol**, as laid out in the Stage 2 DBPR, to select compliance sites unless you decide to recommend alternative Stage 2 compliance monitoring sites to your state or EPA.

You **must** include your monitoring results and recommended Stage 2 compliance monitoring sites in an IDSE Report. You should submit your IDSE report to the Information Processing and Management Center (IPMC) for review by EPA or your state. See Section 1.4 of this guidance manual for information on how to submit your plan to the IPMC.

This section presents the required protocol for selecting Stage 2 DBPR compliance monitoring sites and provides guidance for preparing an IDSE report.

EPA has developed an **IDSE Report for Standard Monitoring Form (Form 7)**, presented in Section 7.3.3 and available electronically as part of the **IDSE Tool**. You are not required to use this form; however, if you choose not to use it, refer to Exhibit 7.6 for a list of the minimum elements you must include in your IDSE report. Examples of completed reports can be found in Appendices H and I. The IDSE Tool is available on EPA's website at <http://www.epa.gov/safewater/disinfection/stage2>.



#### Exhibit 7.6 Required Elements of Your IDSE Report for Standard Monitoring

- Explanation of any deviations from approved standard monitoring plan
- TTHM and HAA5 analytical results from Stage 1 DBPR monitoring and IDSE standard monitoring
- Recommendations and justification of Stage 2 DBPR monitoring sites and sampling dates
- If changed from the approved standard monitoring plan:
  - Distribution system schematic
  - Population served by the system
  - System type (subpart H or ground water)

### 7.3.1 Selecting Stage 2 DBPR Compliance Monitoring Locations

You should begin the Stage 2 site selection process by calculating the locational running annual average (LRAA) for each standard monitoring site and Stage 1 DBPR compliance monitoring site. Note that because the duration for IDSE standard monitoring is one year, the LRAA for each standard monitoring site is equivalent to the average of all TTHM or HAA5 data collected at the location (either one, four, or six data points depending on your IDSE standard monitoring frequency). The LRAA for each Stage 1 DBPR compliance monitoring site should be the LRAA for the year that you conducted standard monitoring (either one or four data points depending on your Stage 1 compliance monitoring frequency). You should consider using a spreadsheet to store your data and calculate your LRAAs. You can also use **Worksheet 7.2** to help you organize your data

You must use the **site selection protocol in Exhibit 7.7** to select your Stage 2 compliance monitoring locations. The number of required Stage 2 compliance monitoring sites for your system can be found on page 2 of the **Standard Monitoring Requirements - Attachment** sheet in Chapter 2. If you complete all steps in the protocol and need additional compliance monitoring sites for the Stage 2 DBPR, repeat the protocol until the required number of sites has been selected. If you arrive at Step 3 or Step 7 and have no more Stage 1 DBPR sites from which to select, continue to the next step. Example 7.4 shows how a large system uses the protocol to select their Stage 2 compliance monitoring sites.

You may select alternate sites other than those identified using the protocol, but you **must justify** the alternate locations in your IDSE report. Additional factors that may prompt you to choose alternate sites are discussed below.

#### *Additional Factors to Consider During Selection of Stage 2 Compliance Monitoring Sites*

In general, TTHM and HAA5 LRAAs are the most important factors in site selection. However, the Stage 2 rule allows for some flexibility in this process. As you work through the site selection protocol, you should consider other factors that may lead you to select a site with a similar or slightly lower LRAA. If you do not use your highest TTHM and HAA5 LRAAs to select your Stage 2 compliance monitoring sites, you **must** provide justification for your selection in your IDSE report. The following conditions are possible reasons why you may select a site with a slightly lower LRAA over another site:

- The site provides more complete geographic coverage of the entire distribution system
- The site allows you to maintain a historical record
- Sampling at that site provides the opportunity to collect other water quality or operational data (e.g., chloramine systems may want to collect nitrate or nitrite data at that site)

EPA recognizes that a slight difference between LRAAs measured at two sites may not be meaningful given the normal variability that may occur at a site over time. As a result, the selection of a Stage 2 compliance monitoring site with a slightly lower LRAA may be acceptable if other factors, such as those listed above, favor the site with the lower LRAA. Examples 7.5 and 7.6 illustrate situations in which hypothetical systems might select Stage 2 DBPR compliance monitoring sites using criteria other than the site selection protocol.

It is possible that EPA or your state may not concur with your justification and may require you to select different Stage 2 compliance monitoring sites.



**Exhibit 7.7 Protocol for Selecting Stage 2 DBPR (Subpart V)  
Compliance Monitoring Sites**

<b>Steps<sup>1</sup> [required by rule]</b>		<b>Stage 2 Compliance Monitoring Sites Selected<sup>2</sup></b>
1	Select the location with the highest TTHM LRAA	1 <sup>st</sup> highest TTHM site
2	Select the remaining location with the highest HAA5 LRAA	1 <sup>st</sup> highest HAA5 site
3	<p><u>For subpart H systems:</u> Select the remaining existing Stage 1 DBPR average residence time compliance monitoring location with the highest HAA5 LRAA</p> <p><u>For ground water systems:</u> Select the remaining existing Stage 1 DBPR maximum residence time compliance monitoring location with the highest HAA5 LRAA</p> <p><i>Skip this step if you have no more Stage 1 DBPR sites</i></p>	1 <sup>st</sup> Stage 1 DBPR site
4	Select the remaining location with the next highest TTHM LRAA.	2 <sup>nd</sup> highest TTHM site
5	Select the remaining location with the next highest TTHM LRAA	3 <sup>rd</sup> highest TTHM site
6	Select the remaining location with the next highest HAA5 LRAA	2 <sup>nd</sup> highest HAA5 site
7	<p><u>For subpart H systems:</u> Select the remaining existing Stage 1 DBPR average residence time compliance monitoring location with the highest TTHM LRAA</p> <p><u>For ground water systems:</u> Select the remaining existing Stage 1 DBPR maximum residence time compliance monitoring location with the highest TTHM LRAA</p> <p><i>Skip this step if you have no more Stage 1 DBPR sites</i></p>	2 <sup>nd</sup> Stage 1 DBPR site
8	Select the remaining location with the next highest HAA5 LRAA	3 <sup>rd</sup> highest HAA5 site
<p><i>If you need more Stage 2 DBPR compliance monitoring locations, Go back to <b>Step 1</b> of this protocol and repeat the steps until you have selected the required number of total sites.</i></p>		

1. All steps are based on your calculated LRAAs for your standard monitoring sites and Stage 1 DBPR compliance monitoring sites. This means that your existing Stage 1 DBPR sites can be selected in steps *other than* 3 or 7. Stop when you reach your required number of Stage 2 DBPR compliance monitoring sites.
2. You cannot select the same site as a highest TTHM and a highest HAA5 compliance monitoring site.

### Example 7.4 Selecting Stage 2 DBPR Compliance Monitoring Sites

A consecutive system serving 15,000 people has conducted standard monitoring for the IDSE. This system purchases disinfected ground water from a number of ground water systems drawing from the same aquifer. Based on state determination, the system has two Stage 1 DBPR compliance monitoring sites. According to the *Standard Monitoring Requirements Attachment* sheet in Chapter 2, the system must select the following **four** Stage 2 compliance monitoring sites from IDSE standard monitoring and Stage 1 DBPR sites:

- 2 highest TTHM sites,
- 1 highest HAA5 site, and
- 1 maximum residence time sites from the existing Stage 1 DBPR data.

The table below lists the TTHM and HAA5 LRAAs for the Stage 1 DBPR compliance monitoring sites and standard monitoring sites during the IDSE monitoring period.

Site Number and Description	TTHM LRAA (mg/L)	HAA5 LRAA (mg/L)
<b>Stage 1 DBPR Compliance Monitoring Results:</b>		
1 (Stage 1 max. residence time)	0.059	0.037
2 (Stage 1 max. residence time)	0.036	0.045
<b>IDSE Standard Monitoring Results:</b>		
3 (high TTHM)	0.058	0.031
4 (high TTHM)	0.052	0.034
5 (high HAA5)	0.051	0.042
6 (high HAA5)	0.047	0.038
7 (ave. residence time)	0.038	0.034
8 (near entry point)	0.021	0.015

### **Example 7.4 Selecting Stage 2 DBPR Compliance Monitoring Sites (cont.)**

The system used the required protocol in Exhibit 7.7 to select their compliance monitoring sites.

*Go to Step 1: Select the Highest TTHM LRAA Site*

**Site 1** has the highest TTHM LRAA and is selected as the first high TTHM site.

*Go to Step 2: Select the Highest HAA5 LRAA Site*

**Site 2** has the highest HAA5 LRAA and has not already been selected. Therefore, **Site 2** is chosen as the first high HAA5 site.

*Go to Step 3: Select the Stage 1 Maximum Residence Time Site with the Highest HAA5 LRAA*

There are no remaining Stage 1 sites to select from. **Skip this step and go to Step 4.**

*Go to Step 4: Select the Next Highest TTHM LRAA Site*

**Site 3** has the next highest TTHM LRAA and is therefore chosen as the next highest TTHM site.

*Go to Step 5: Select the Next Highest TTHM LRAA Site*

**Site 4** has the next highest TTHM LRAA and is therefore chosen as the next highest TTHM site.

#### Final Inventory of Stage 2 DBPR Compliance Monitoring Sites\*

Highest TTHM: Site 1, Site 3, Site 4 (3 sites)

Highest HAA5: Site 2 (1 site)

Existing Stage 1 DBPR Site (as described in Step 3): No sites

**TOTAL Sites = 4**

*\*Note that the requirements on the previous page are for 2 highest TTHM sites, 1 highest HAA5 site, and 1 maximum residence time site from existing Stage 1 DBPR data. However, because the two Stage 1 DBPR sample sites were the highest TTHM site and the highest HAA5 site, these sites were selected during the first two steps of the selection protocol. As a result, there were no remaining Stage 1 DBPR sites to choose from during Step 3. Step 3 was skipped and the remaining two Stage 2 compliance sites were chosen using Steps 4 and 5.*

### Example 7.5 Maintaining a Historical Record

A ground water system serves 90,000 people and must select four Stage 2 compliance sites from standard monitoring and Stage 1 DBPR data. The system has already selected one highest TTHM site, one highest HAA5 site, and one Stage 1 maximum residence time site. The fourth site to be selected is a high TTHM site which must be selected from the IDSE standard monitoring and Stage 1 DBPR sites not yet selected for Stage 2 compliance monitoring. The table below lists three remaining high-TTHM sites among the IDSE standard monitoring and Stage 1 DBPR sites.

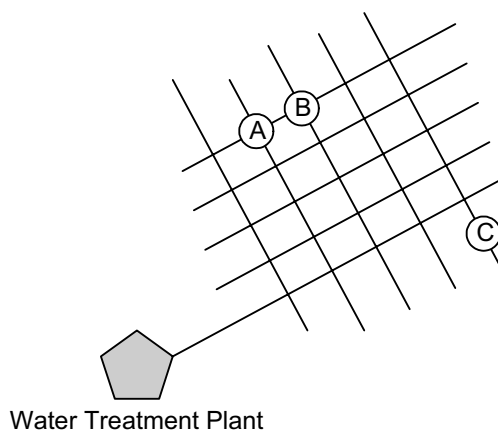
Site Number and Description	LRAA	
	TTHM (mg/L)	HAA5 (mg/L)
4 (Standard monitoring high TTHM)	0.072	0.051
8 (Standard monitoring high TTHM)	0.065	0.056
9 (Stage 1 DBPR max residence time site)	0.070	0.051

Among the three remaining high TTHM IDSE sites, standard monitoring Site 4 has the highest TTHM LRAA. However, the Stage 1 DBPR site has only slightly lower TTHM LRAA than standard monitoring Site 4. The system chooses **the Stage 1 DBPR site over standard monitoring site 4** for the Stage 2 high TTHM site to maintain the historical DBP

### Example 7.6 Providing Geographic Coverage When Choosing Stage 2 Sites

In general, two representative high TTHM sites should not be located in the same general area of the distribution system. Consider the following example:

The two highest TTHM LRAAs in the distribution system are from adjacent historical sample sites (sites A and B). The site with the third highest TTHM LRAA is on the far side of the distribution system (site C). In this case, consider selecting sites **A and C** or **B and C** as Stage 2 sites for a broader geographical coverage of the distribution system.



### 7.3.2 Determining Your Stage 2 DBPR Compliance Monitoring Schedule

The first step in determining your Stage 2 DBPR compliance monitoring schedule is to select your peak historical month. You should use the peak historical month selected in your IDSE standard monitoring plan unless new data suggest another month. Refer to Section 7.1.2 for more information on determining peak historical month.

You **must** conduct Stage 2 DBPR compliance monitoring during the peak historical month. If you are a ground water system that serves more than 9,999 people or you are a subpart H system that serves more than 499 people, you must also conduct Stage 2 compliance sampling at 90 day intervals before and/or after the peak historical month.

The intent of the required time interval is to ensure that samples are representative of the quality of water over an extended period and do not over-emphasize either high or low concentrations of TTHM or HAA5 that might occur seasonally. For example, a system on quarterly monitoring could sample in the **third full week of every third month**. It is not necessary to sample all sites on the same day.

### 7.3.3 Preparing the IDSE Report for Standard Monitoring

Every system that conducts IDSE standard monitoring **must** prepare and submit an IDSE Report for Standard Monitoring. You should submit the report to the Information Processing and Management Center (IPMC) for review by EPA or your state. See Section 1.4 of this guidance manual for information on how to submit your report to the IPMC.

EPA has developed an **IDSE Report for Standard Monitoring Form (Form 7)**, presented in this section and available electronically as part of the **IDSE Tool**. You are not required to use this form; however, if you choose not to use it, refer to Exhibit 7.6 for a list of the minimum elements you must include in your IDSE report.

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**The IDSE Tool** creates a custom form for your system and provides links to technical guidance from this manual. The tool is available on EPA's website at <http://www.epa.gov/safewater/disinfection/stage2>.



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Before you begin Stage 2 DBPR compliance monitoring, you will also be required to prepare a Stage 2 DBPR compliance monitoring plan. In addition, if you are a subpart H system serving >3,300 people, you must submit a copy of your Stage 2 compliance monitoring plan to the state. If you include **compliance calculation procedures** in your IDSE report, the report can meet the requirement of the plan, and you do not have to prepare or submit a separate plan. As a guide for specifying your compliance calculation procedures, refer to the Stage 1 DBPR, 141.133(b), and your Stage 1 compliance monitoring plan. Check with your state, as they may have different requirements under the Stage 2 DBPR. If you are a consecutive or wholesale system, your state may choose to use its special primacy authority to modify your Stage 2 compliance monitoring requirements. In this case, you should check with the state to see if they

are going to use this authority. You should develop your IDSE report for the total number of required Stage 2 compliance locations for your system.

The IDSE report for standard monitoring form includes the following sections:

- I. General Information
- II. Stage 2 DBPR Requirements
- III. Monitoring Results
- IV. Justification of Stage 2 DBPR Compliance Monitoring Sites
- V. Peak Historical Month and Stage 2 DBPR Compliance Monitoring Schedule
- VI. Distribution System Schematic
- VII. Attachments

Sections of the form with an asterisk (\*) are required by the Stage 2 DBPR. Examples of completed IDSE reports for standard monitoring using this form are provided in Appendices H and I of this guidance manual and in the EPA manual, *Initial Distribution System Evaluation Guide for Systems Serving < 10,000 People*. The rest of this section provides guidance on the completion of this form.

## I. General Information

- I.A. PWS Information\* - If nothing has changed since you completed your standard monitoring plan form, copy information from your plan into this section. If your system characteristics have changed, see Section 7.1.3 of this manual for guidance on completing this section.
- I.B. Date Submitted\* - Enter either the date that you are submitting the form electronically, putting it in the mailbox, or dropping it off with an express delivery service. Be sure to submit your IDSE report before the deadline found on your requirements summary sheet.
- I.C. PWS Operations - This section asks questions about your system to help inform EPA and state personnel during the plan review process. If nothing has changed since you completed your standard monitoring plan form, copy information from your plan into this section. If your system characteristics have changed, see Section 7.1.3 of this manual for guidance on completing this section.
- I.D. Contact Person\* - Enter the contact information of the person who is submitting the report. This should be the person who will be available to answer questions from EPA and/or state reviewers.

## II. Stage 2 DBPR Requirements\*

- II.A. Number of Compliance Monitoring Sites - Refer to the ***Standard Monitoring Requirements - Attachment*** sheet in Chapter 2. Copy the numbers from the “Stage 2 Compliance Monitoring Requirements” table that correspond to your source type and the population served by your system.

- II.B. Schedule - This should be the same schedule you entered for your standard monitoring plan. See Section 7.1.3 of this manual for guidance.
- II.C. Compliance Monitoring Frequency - Refer to the ***Standard Monitoring Requirements - Attachment*** in Chapter 2. Locate the monitoring frequency from the “Stage 2 Compliance Monitoring Requirements” table that corresponds to your source type and the population served by your system. Put a check mark in the box corresponding to that monitoring frequency.

### III. Monitoring Results\*

- III.A. Did you deviate in any way from your approved standard monitoring plan? - Put a check mark in the appropriate box to identify whether your system collected any standard monitoring samples on different dates or at different locations than indicated in your approved standard monitoring plan.

If you sampled on a different date or during a different week than scheduled in the approved monitoring plan, you should write an explanation in the space provided (or in attached sheets). You should include the standard monitoring site ID, the scheduled sampling date or week from your monitoring plan, and the actual sampling date. You must also explain why you sampled on a different day or week than planned. An example explanation is shown below.

*According to our standard monitoring plan, we were to collect samples at standard monitoring sites 2 and 4 on January 14, 2009. However, a major snowstorm created hazardous road conditions and limited our access to sample locations. Therefore, we conducted our sampling at all sites on January 18, 2009 after the roads were cleared.*

- III.B. Where were your TTHM and HAA5 samples analyzed? - Put a check mark in the appropriate box to identify whether your system analyzed TTHM and HAA5 samples in an in-house laboratory or sent the samples to a certified laboratory for analysis.

If you analyzed your TTHM and HAA5 samples in an in-house laboratory, check the appropriate box to identify whether your laboratory is certified. If you sent your TTHM and HAA5 samples to a certified laboratory, enter the name of the laboratory in the blank. If you used more than one laboratory (e.g., if you used different laboratories for standard monitoring samples and Stage 1 DBPR compliance samples), list both laboratories, or check “in-house” and list the name of the laboratory if applicable.

- III.C What method(s) was used to analyze your TTHM and HAA5 samples? - Put a check mark in the appropriate box to indicate the analytical method used to measure the TTHM and HAA5 concentrations of your standard monitoring and Stage 1 DBPR compliance samples. If more than one method was used (e.g., if you used different laboratories for standard monitoring samples and Stage 1

DBPR compliance samples), check more than one method. If you do not know what method was used, contact your laboratory.

- III.D. IDSE Standard Monitoring Results - TTHM - Enter your TTHM results for each standard monitoring site for each monitoring period in which you collected data. For each sample result, enter the date on which sampling was conducted. If you are a subpart H system serving more than 49,999 people or a ground water system serving more than 499,999 people, you were required to conduct standard monitoring at more than 8 sites. Therefore, you will need to attach additional sheets.
- III.E. IDSE Standard Monitoring Results - HAA5 - Enter your HAA5 results for each standard monitoring site for each monitoring period in which you collected data. For each sample result, enter the date on which sampling was conducted. If you are a subpart H system serving more than 49,999 people or a ground water system serving more than 499,999 people, you were required to conduct standard monitoring at more than 8 sites. Therefore, you will need to attach additional sheets.
- III.F. Stage 1 DBPR Compliance Monitoring Results - TTHM - Enter your TTHM results for each Stage 1 site for each monitoring period in which you collected data. For each sample result, enter the date on which sampling was conducted. Attach additional sheets if needed.
- III.G. Stage 1 DBPR Compliance Monitoring Results - HAA5 - Enter your HAA5 results for each Stage 1 site for each monitoring period in which you collected data. For each sample result, enter the date on which sampling was conducted. Attach additional sheets if needed.

#### IV. **Justification of Stage 2 DBPR Compliance Monitoring Sites\***

Enter the site ID from the distribution schematic and the site type (whether it is highest TTHM, highest HAA5, Stage 1 DBPR, or a site selected using criteria other than the site selection protocol). For example:

*This site had the 2<sup>nd</sup> highest TTHM LRAA*

An example of how you might justify a site that was **not** selected using the protocol is below:

*Among the three remaining high TTHM sites, standard monitoring Site 4 has the highest TTHM LRAA. However, Stage 1 DBPR Site 7 has only a slightly lower TTHM LRAA than standard monitoring Site 4. Therefore, we choose Stage 1 DBPR Site 7 over standard monitoring site 4 to maintain the historical DBP record.*

**V. Peak Historical Month and Proposed Stage 2 DBPR Compliance Monitoring Schedule**

V.A. Peak Historical Month\* - Enter the month that you determined to be your peak historical month.

V.B. Is Your Peak Historical Month the Same as in Your IDSE Standard Monitoring Plan? - Put a check mark in the appropriate box to identify whether your system used the same peak historical month as in your standard monitoring plan. If your standard monitoring results prompted you to change your peak historical month, explain how you selected a new peak historical month.

V.C. Proposed Stage 2 DBPR Compliance Monitoring Schedule\* - Enter the ID for each Stage 2 DBPR compliance monitoring site in the table (these should match the ID's you enter in Section IV and on your schematic). Enter your proposed sampling schedule for the number of monitoring periods identified in Section II.C. The entry can be a specific date or week and can be in a number of different formats. For example:

- 7/9/07
- 2<sup>nd</sup> week in Nov '07
- Week of 7/9/07

Remember that at least one monitoring period must be during the peak historical month identified in Section V.A. Note that there is only space for 8 monitoring sites on this sheet. If you are a subpart H system serving more than 249,999 people you are required to monitor at more than 8 sites. Therefore, you will need to attach additional sheets.

**VI. Distribution System Schematic\*** - A distribution system schematic is required *only if it has changed from your approved IDSE standard monitoring plan*. If it has changed, attach the revised distribution system schematic. See Section 7.1.3 of this manual for guidance.

**VII. Attachments** - Put a check mark in each of the boxes corresponding to any attachments that you have included in your report.

A distribution system schematic is required *only if it has changed since you submitted your IDSE standard monitoring plan*. Refer to Section VI for details.

If you submit your IDSE report electronically, you also have the option to submit attachments in hard copy. Include a note in your electronic IDSE report explaining that attachments are being submitted in hard copy, and mail the hard copy to the IPMC mailing address in your Requirements Summary Sheet. The IPMC will match the hard copy submission with your electronic submission when it is received.

If you are a subpart H system serving >3,300 people, you must submit a copy of your Stage 2 compliance monitoring plan to the state. If you include **compliance calculation**

**procedures** in your IDSE report, the report can meet the requirement of the plan, and you do not have to prepare or submit a separate plan. As a guide for specifying your compliance calculation procedures, refer to the Stage 1 DBPR, 141.133(b), and your Stage 1 compliance monitoring plan. Check with your state, as they may have different requirements under the Stage 2 DBPR.

Enter the total number of pages in your IDSE report (including attachments) in the blank at the bottom of this section. This will allow EPA or your state to ensure that all pages were received.

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# Form 7: IDSE Report for Standard Monitoring Page 1 of 9

## I. GENERAL INFORMATION

### A. PWS Information\*

PWSID: \_\_\_\_\_

PWS Name: \_\_\_\_\_

PWS Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Population Served: \_\_\_\_\_

### B. Date Submitted\* \_\_\_\_\_

System Type:	Source Water Type:	Buying / Selling Relationships:
<input type="checkbox"/> CWS	<input type="checkbox"/> Subpart H	<input type="checkbox"/> Consecutive System
<input type="checkbox"/> NTNCWS	<input type="checkbox"/> Ground	<input type="checkbox"/> Wholesale System
		<input type="checkbox"/> Neither

### C. PWS Operations

Residual Disinfectant Type:  Chlorine  Chloramines  Other: \_\_\_\_\_

Number of Disinfected Sources: \_\_\_ Surface \_\_\_ GWUDI \_\_\_ Ground \_\_\_ Purchased

### D. Contact Person\*

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_

E-mail: \_\_\_\_\_

## II. STAGE 2 DBPR REQUIREMENTS\*

### A. Number of Compliance Monitoring Sites

Highest TTHM: \_\_\_\_\_

Highest HAA5: \_\_\_\_\_

Existing Stage 1: \_\_\_\_\_

**Total:** \_\_\_\_\_

### B. Schedule

Schedule 1

Schedule 2

Schedule 3

Schedule 4

### C. Compliance Monitoring Frequency

During peak historical month (1 monitoring period)

Every 90 days (4 monitoring periods)

**III. MONITORING RESULTS\***

**A. Did you deviate in any way from your approved standard monitoring plan?**  Yes  No

If YES, explain (attach additional pages if necessary):

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**B. Where were your TTHM and HAA5 samples analyzed?**

In-House

Is your in-house laboratory certified?  Yes  No

Certified Laboratory

Name of certified laboratory: \_\_\_\_\_

**C. What method(s) was used to analyze your TTHM and HAA5 samples?**

- | TTHM                               | HAA5                               |
|------------------------------------|------------------------------------|
| <input type="checkbox"/> EPA 502.2 | <input type="checkbox"/> EPA 552.1 |
| <input type="checkbox"/> EPA 524.2 | <input type="checkbox"/> EPA 552.2 |
| <input type="checkbox"/> EPA 551.1 | <input type="checkbox"/> EPA 552.3 |
|                                    | <input type="checkbox"/> SM 6251 B |

# Form 7: IDSE Report for Standard Monitoring

## III. MONITORING RESULTS (Continued)\*

### D. IDSE Standard Monitoring Results - TTHM

Site ID <sup>1</sup>	Data Type	TTHM (mg/L)				LRAA
	Sample Date					
	Sample Result					
	Sample Date					
	Sample Result					
	Sample Date					
	Sample Result					
	Sample Date					
	Sample Result					
	Sample Date					
	Sample Result					
	Sample Date					
	Sample Result					
	Sample Date					
	Sample Result					

<sup>1</sup> Verify that site IDs for IDSE standard monitoring sites match the site IDs in your Standard Monitoring Plan.

Attach additional sheets as needed for IDSE standard monitoring results.

# Form 7: IDSE Report for Standard Monitoring

## III. MONITORING RESULTS (Continued)\*

### E. IDSE Standard Monitoring Results - HAA5

Site ID <sup>1</sup>	Data Type	HAA5 (mg/L)						LRAA
	Sample Date							
	Sample Result							
	Sample Date							
	Sample Result							
	Sample Date							
	Sample Result							
	Sample Date							
	Sample Result							
	Sample Date							
	Sample Result							
	Sample Date							
	Sample Result							
	Sample Date							
	Sample Result							

<sup>1</sup> Verify that site IDs for IDSE standard monitoring sites match the site IDs in your Standard Monitoring Plan. Attach additional sheets as needed for IDSE standard monitoring results.

# Form 7: IDSE Report for Standard Monitoring

## III. MONITORING RESULTS (Continued)\*

### F. Stage 1 DBPR Compliance Monitoring Results - TTHM

Site ID <sup>1</sup>	Data Type	TTHM (mg/L)			LRAA
	Sample Date				
	Sample Result				
	Sample Date				
	Sample Result				
	Sample Date				
	Sample Result				
	Sample Date				
	Sample Result				
	Sample Date				
	Sample Result				
	Sample Date				
	Sample Result				
	Sample Date				
	Sample Result				

<sup>1</sup> Verify that site IDs for Stage 1 compliance monitoring sites match the site IDs in your Standard Monitoring Plan.

Attach additional sheets as needed for Stage 1 compliance monitoring results.

# Form 7: IDSE Report for Standard Monitoring

## III. MONITORING RESULTS (Continued)\*

### G. Stage 1 DBPR Compliance Monitoring Results - HAA5

Site ID <sup>1</sup>	Data Type	HAA5 (mg/L)			LRAA
	Sample Date				
	Sample Result				
	Sample Date				
	Sample Result				
	Sample Date				
	Sample Result				
	Sample Date				
	Sample Result				
	Sample Date				
	Sample Result				
	Sample Date				
	Sample Result				
	Sample Date				
	Sample Result				

<sup>1</sup> Verify that site IDs for Stage 1 compliance monitoring sites match the site IDs in your Standard Monitoring Plan.

Attach additional sheets as needed for Stage 1 compliance monitoring results.

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**IV. JUSTIFICATION OF STAGE 2 DBPR COMPLIANCE MONITORING SITES\***

Stage 2 Compliance Monitoring Site ID	Site Type	Justification
	<input type="checkbox"/> Highest TTHM <input type="checkbox"/> Highest HAA5 <input type="checkbox"/> Stage 1 DBPR	
	<input type="checkbox"/> Highest TTHM <input type="checkbox"/> Highest HAA5 <input type="checkbox"/> Stage 1 DBPR	
	<input type="checkbox"/> Highest TTHM <input type="checkbox"/> Highest HAA5 <input type="checkbox"/> Stage 1 DBPR	
	<input type="checkbox"/> Highest TTHM <input type="checkbox"/> Highest HAA5 <input type="checkbox"/> Stage 1 DBPR	
	<input type="checkbox"/> Highest TTHM <input type="checkbox"/> Highest HAA5 <input type="checkbox"/> Stage 1 DBPR	
	<input type="checkbox"/> Highest TTHM <input type="checkbox"/> Highest HAA5 <input type="checkbox"/> Stage 1 DBPR	
	<input type="checkbox"/> Highest TTHM <input type="checkbox"/> Highest HAA5 <input type="checkbox"/> Stage 1 DBPR	
	<input type="checkbox"/> Highest TTHM <input type="checkbox"/> Highest HAA5 <input type="checkbox"/> Stage 1 DBPR	

*Attach additional copies of this sheet if you need more room.*

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**V. PEAK HISTORICAL MONTH AND PROPOSED STAGE 2 DBPR COMPLIANCE MONITORING SCHEDULE**

**A. Peak Historical Month\*** \_\_\_\_\_

**B. Is Your Peak Historical Month the Same as in Your IDSE Standard Monitoring Plan?**

Yes     No

**If no, explain how you selected your new peak historical month (attach additional sheets if needed)**

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**C. Proposed Stage 2 DBPR Compliance Monitoring Schedule\***

Stage 2 Compliance Monitoring Site ID	Projected Sampling Date (date or week) <sup>1</sup>			
	period 1	period 2	period 3	period 4

<sup>1</sup> period = monitoring period. Complete for the number of monitoring periods from Section II.C.

Attach additional copies of this sheet if you need more room.

**VI. DISTRIBUTION SYSTEM SCHEMATIC\***

**ATTACH a schematic of your distribution system if it has changed since you submitted your Standard Monitoring Plan (Form 6).**

**VII. ATTACHMENTS**

- Additional sheets for explaining how and why you deviated from your standard monitoring plan (Section III).
- Additional sheets for Standard Monitoring Results (Section III). **REQUIRED** if you are a subpart H system serving **more than 49,999 people** or a ground water system serving **more than 499,999 people**.
- Additional sheets for Stage 2 DBPR Compliance Monitoring Sites (Section IV). **REQUIRED** if you are a subpart H system serving **more than 249,999 people**.
- Additional sheets for explaining how you selected the peak historical month (Section V).
- Additional sheets for proposed Stage 2 DBPR peak historical month and compliance monitoring schedule (Section V). **REQUIRED** if you are a subpart H system serving **more than 249,999 people**.
- Distribution system schematic\* (Section VI). **REQUIRED** if it has changed from **your approved IDSE standard monitoring plan**.
- Compliance calculation procedures (for Stage 2 Compliance Monitoring Plan).

Total Number of Pages in Your Report: \_\_\_\_\_

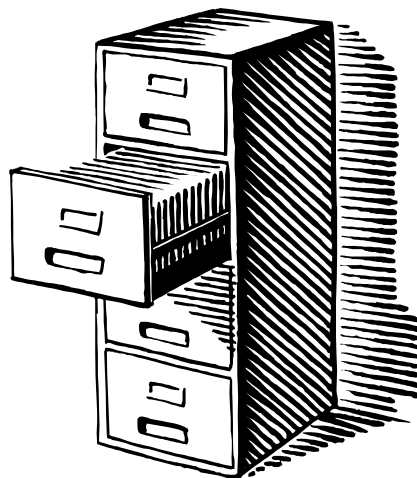
Note: Fields with an asterisk (\*) are required by the Stage 2 DBPR

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## 7.4 Recordkeeping

The IDSE standard monitoring report must be kept on file for **10 years** after the date it is submitted. If EPA or your state modifies the recommendations made in your report or approves alternative Stage 2 DBPR compliance monitoring locations, you must also keep a copy of EPA or your state's notification on file for 10 years after the date of the notification. You must make your IDSE report and any notification available for review by your state or the public.

The standard monitoring plan, including any modifications by EPA or your state, must also be kept on file for as long as you are required to retain your IDSE standard monitoring report. You must make the plan and any modifications available for review by your state or the public.



## 7.5 Next Steps: Preparing the Stage 2 DBPR Compliance Monitoring Plan

As the final step before you can begin compliance monitoring for the Stage 2 DBPR, you must develop and implement a **Stage 2 DBPR monitoring plan** by the deadline provided in your requirements summary sheet. The plan will be similar to your Stage 1 DBPR monitoring plan in that it will identify how you intend to sample for compliance with Stage 2. You must keep your plan on file for state and public review. If you are a subpart H system serving > 3,300 people, you **must** submit your plan to EPA or your state prior to when you are required to start monitoring.

Exhibit 7.8 contains the minimum requirements for what must be included in your Stage 2 DBPR compliance monitoring plan. Because compliance monitoring plans are not addressed as part of the IDSE provisions of the Stage 2 DBPR, ***EPA has not included detailed guidance for developing Stage 2 compliance monitoring plans in this guidance manual.*** EPA plans to develop other manuals and training that address the compliance monitoring provisions of the Stage 2 DBPR.

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See EPA's website <http://www.epa.gov/safewater/disinfection/stage2> for an up-to-date inventory of Stage 2 DBPR guidance manuals and training materials, or call the Safe Drinking Water Hotline at 1-800-426-4791.

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## Exhibit 7.8 Required Contents of Stage 2 DBPR Compliance Monitoring Plans

All Systems	Additional Requirements for Consecutive and Wholesale Systems <sup>1</sup>
<ul style="list-style-type: none"> <li>• Monitoring locations</li> <li>• Monitoring dates</li> <li>• Compliance calculation procedures</li> </ul>	<ul style="list-style-type: none"> <li>• If your state has used its special primacy authority to modify your monitoring requirements, you must include monitoring plans for other systems in your combined distribution system</li> </ul>

1. See Appendix D of this manual for guidance specifically for consecutive and wholesale systems

### References

T.M. Walski, D.V. Chase, D.A. Savic, W. Grayman, S. Beckwith, E. Koelle. 2003. "Advanced Water Distribution Modeling and Management", Haestad Methods, Waterbury CT: Haestad Press.