



United States
Environmental
Protection
Agency

Office of Water
(4601)

EPA 815-B-06-002
January 2006

INITIAL DISTRIBUTION SYSTEM EVALUATION GUIDANCE MANUAL

FOR THE FINAL STAGE 2 DISINFECTANTS AND DISINFECTION BYPRODUCTS RULE

APPENDIX E

<http://www.epa.gov/safewater/disinfection/stage2/compliance.html>

This page intentionally left blank.

Appendix E

Example IDSE Existing Monitoring Results System Specific Study Plan and Report for a Surface Water System Serving 40,000 People

This appendix is provided as an example IDSE study plan and report for a Subpart H system serving 40,000 people and opting to complete a System Specific Study (SSS) using existing monitoring results. The system in this example has a surface water intake with a treatment plant and two additional wells that are each disinfected at the well locations. In all, the system has three treatment plants. Because the water blends in the distribution system, the entire system is categorized as a Subpart H system.

Since the system has three treatment plants, it is required to collect four samples per treatment plant each quarter for Stage 1 DBPR compliance. The system therefore satisfies the minimum number of sampling locations required for an Existing Monitoring Results SSS. If the system submits two years of its Stage 1 DBPR compliance data, it also satisfies the requirement for minimum number of TTHM and HAA5 samples. The Stage 1 DBPR sampling locations are representative of the distribution system, so the system is not proposing to do any additional monitoring and is submitting both their IDSE Plan and their IDSE Report by their plan deadline.

Chapter 5 presents detailed guidance on the requirements for performing an existing monitoring results SSS; selection of Stage 2 compliance monitoring locations; and preparing the existing monitoring results IDSE report. The application of the basic guidance on the use of existing monitoring results to select locations meeting the standard monitoring location criteria and the use of the data to select Stage 2 compliance monitoring locations is shown in this example.

This page intentionally left blank.

Form 2: Existing Monitoring Results SSS Plan Page 1 of 16

I. GENERAL INFORMATION

A. PWS Information*

PWSID: US0000000

PWS Name: City of Magnolia

PWS Address: PO Box 1234

City: Magnolia City State: US Zip: 11111

Population Served: 40,000

B. Date Submitted*

Sept. 1, 2007

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

C. PWS Operations

Residual Disinfectant Type: Chlorine Chloramines Other _____

Number of Disinfected Sources: 1 Surface GWUDI 2 Ground Purchased

D. Contact Person*

Name: Ms. Mary Flower, P.E.

Title: City Engineer

Phone #: 234-555-1111 Fax #: 234-555-2222

E-mail: MFlower@ci.magnolia.us

II. SSS REQUIREMENTS*

A. Minimum Number of Monitoring Locations 12

B. Minimum Number of Required Samples

72 TTHM 72 HAA5

C. IDSE Schedule

Schedule 1 Schedule 2 Schedule 3 Schedule 4

Form 2: Existing Monitoring Results SSS Plan Page 2 of 16

III. PEAK HISTORICAL MONTH

A. Peak Historical Month* July

B. If Multiple Sources, Source Used to Determine Peak Historical Month
(write "N/A" if only one source in your system)

Surface water source

C. Peak Historical Month Based On (check as many as needed)

High TTHM High HAA5 Warmest water temperature

If you used other information to select your peak historical month, explain here
(attach additional sheets if needed):

IV. PREVIOUSLY COLLECTED MONITORING RESULTS*

A. Where were your TTHM and HAA5 samples analyzed?

In-House

Is your in-house laboratory certified? Yes No

Certified Laboratory

Name of certified laboratory: ACME Analytical Services

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

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

Form 2: Existing Monitoring Results SSS Plan

IV. PREVIOUSLY COLLECTED MONITORING RESULTS (Continued)*

C. TTHM Results

Site ID ¹	12-month period	Data Qualifies (yes/no)	Data Type	TTHM (mg/L)						LRAA
				1/13/05	4/13/05	7/13/05	10/12/05			
#1 - Stage 1 SW Plant Average Residence Time	Jan 05-Jan 06	Yes	Sample Date	1/13/05	4/13/05	7/13/05	10/12/05			
			Sample Result	0.028	0.034	0.035	0.030			0.032
#1 - Stage 1 SW Plant Average Residence Time	Jan 06-Jan 07	Yes	Sample Date	1/11/06	4/12/06	7/12/06	10/11/06			
			Sample Result	0.024	0.033	0.037	0.031			0.031
#1 - Stage 1 SW Plant Average Residence Time	Jan 07-July 07	Yes	Sample Date	1/10/07	4/11/07	7/11/07				
			Sample Result	0.029	0.034	0.036				0.033
#2 - Stage 1 SW Average Residence Time	Jan 05-Jan 06	Yes	Sample Date	1/13/05	4/13/05	7/13/05	10/12/05			
			Sample Result	0.049	0.056	0.063	0.057			0.056
#2 - Stage 1 SW Average Residence Time	Jan 06-Jan 07	Yes	Sample Date	1/11/06	4/12/06	7/12/06	10/11/06			
			Sample Result	0.045	0.052	0.060	0.054			0.053
#2 - Stage 1 SW Average Residence Time	Jan 07-July 07	Yes	Sample Date	1/10/07	4/11/07	7/11/07				
			Sample Result	0.046	0.055	0.063				0.055

¹ Verify that site IDs match the site IDs on your distribution system schematic.

Attach additional sheets as needed for previously collected compliance operational and monitoring results.

Form 2: Existing Monitoring Results SSS Plan

IV. PREVIOUSLY COLLECTED MONITORING RESULTS (Continued)*

C. TTHM Results

Site ID ¹	12-month period	Data Qualifies (yes/no)	Data Type	TTHM (mg/L)						LRAA
				1/13/05	4/13/05	7/13/05	10/12/05			
#3 - Stage 1 SW Average Residence Time	Jan 05-Jan 06	Yes	Sample Date	1/13/05	4/13/05	7/13/05	10/12/05			
			Sample Result	0.038	0.047	0.065	0.052			0.050
#3 - Stage 1 SW Average Residence Time	Jan 06-Jan 07	Yes	Sample Date	1/11/06	4/12/06	7/12/06	10/11/06			
			Sample Result	0.040	0.046	0.068	0.037			0.048
#3 - Stage 1 SW Average Residence Time	Jan 07-July 07	Yes	Sample Date	1/10/07	4/11/07	7/11/07				
			Sample Result	0.036	0.042	0.070				0.049
#4 - Stage 1 SW Maximum Residence Time	Jan 05-Jan 06	Yes	Sample Date	1/13/05	4/13/05	7/13/05	10/12/05			
			Sample Result	0.032	0.060	0.074	0.062			0.057
#4 - Stage 1 SW Maximum Residence Time	Jan 06-Jan 07	Yes	Sample Date	1/11/06	4/12/06	7/12/06	10/11/06			
			Sample Result	0.042	0.069	0.082	0.071			0.066
#4 - Stage 1 SW Maximum Residence Time	Jan 07-July 07	Yes	Sample Date	1/10/07	4/11/07	7/11/07				
			Sample Result	0.044	0.059	0.081				0.061

¹ Verify that site IDs match the site IDs on your distribution system schematic.

Attach additional sheets as needed for previously collected compliance operational and monitoring results.

Form 2: Existing Monitoring Results SSS Plan

IV. PREVIOUSLY COLLECTED MONITORING RESULTS (Continued)*

C. TTHM Results

Site ID ¹	12-month period	Data Qualifies (yes/no)	Data Type	TTHM (mg/L)						LRAA
				1/13/05	4/13/05	7/13/05	10/12/05			
#5 - Stage 1 Well 1 Average Residence Time	Jan 05-Jan 06	Yes	Sample Date	1/13/05	4/13/05	7/13/05	10/12/05			
			Sample Result	0.038	0.025	0.030	0.032			0.031
#5 - Stage 1 Well 1 Average Residence Time	Jan 06-Jan 07	Yes	Sample Date	1/11/06	4/12/06	7/12/06	10/11/06			
			Sample Result	0.026	0.031	0.030	0.024			0.028
#5 - Stage 1 Well 1 Average Residence Time	Jan 07-July 07	Yes	Sample Date	1/10/07	4/11/07	7/11/07				
			Sample Result	0.011	0.027	0.032				0.023
#6 - Stage 1 Well 1 Average Residence Time	Jan 05-Jan 06	Yes	Sample Date	1/13/05	4/13/05	7/13/05	10/12/05			
			Sample Result	0.032	0.051	0.058	0.042			0.046
#6 - Stage 1 Well 1 Average Residence Time	Jan 06-Jan 07	Yes	Sample Date	1/11/06	4/12/06	7/12/06	10/11/06			
			Sample Result	0.024	0.046	0.050	0.049			0.042
#6 - Stage 1 Well 1 Average Residence Time	Jan 07-July 07	Yes	Sample Date	1/10/07	4/11/07	7/11/07				
			Sample Result	0.030	0.041	0.051				0.041

¹ Verify that site IDs match the site IDs on your distribution system schematic.

Attach additional sheets as needed for previously collected compliance operational and monitoring results.

Form 2: Existing Monitoring Results SSS Plan

IV. PREVIOUSLY COLLECTED MONITORING RESULTS (Continued)*

C. TTHM Results

Site ID ¹	12-month period	Data Qualifies (yes/no)	Data Type	TTHM (mg/L)						LRAA
				1/13/05	4/13/05	7/13/05	10/12/05			
#7 - Stage 1 Well 1 Average Residence Time	Jan 05-Jan 06	Yes	Sample Date	1/13/05	4/13/05	7/13/05	10/12/05			
			Sample Result	0.031	0.037	0.045	0.033			0.037
#7 - Stage 1 Well 1 Average Residence Time	Jan 06-Jan 07	Yes	Sample Date	1/11/06	4/12/06	7/12/06	10/11/06			
			Sample Result	0.019	0.028	0.038	0.051			0.034
#7 Stage 1 Well 1 Average Residence Time	Jan 07-July 07	Yes	Sample Date	1/10/07	4/11/07	7/11/07				
			Sample Result	0.022	0.035	0.046				0.034
#8 - Stage 1 Well 1 Maximum Residence Time	Jan 05-Jan 06	Yes	Sample Date	1/13/05	4/13/05	7/13/05	10/12/05			
			Sample Result	0.038	0.051	0.075	0.073			0.059
#8 - Stage 1 Well 1 Maximum Residence Time	Jan 06-Jan 07	Yes	Sample Date	1/11/06	4/12/06	7/12/06	10/11/06			
			Sample Result	0.049	0.064	0.075	0.072			0.065
#8 - Stage 1 Well 1 Maximum Residence Time	Jan 07-July 07	Yes	Sample Date	1/10/07	4/11/07	7/11/07				
			Sample Result	0.036	0.060	0.080				0.059

¹ Verify that site IDs match the site IDs on your distribution system schematic.

Attach additional sheets as needed for previously collected compliance operational and monitoring results.

Form 2: Existing Monitoring Results SSS Plan

IV. PREVIOUSLY COLLECTED MONITORING RESULTS (Continued)*

C. TTHM Results

Site ID ¹	12-month period	Data Qualifies (yes/no)	Data Type	TTHM (mg/L)						LRAA
				1/14/05	4/14/05	7/14/05	10/13/05			
#9 - Stage 1 Well 2 Average Residence Time	Jan 05-Jan 06	Yes	Sample Date	1/14/05	4/14/05	7/14/05	10/13/05			
			Sample Result	0.022	0.029	0.026	0.033			0.028
#9 - Stage 1 Well 2 Average Residence Time	Jan 06-Jan 07	Yes	Sample Date	1/12/06	4/13/06	7/13/06	10/12/06			
			Sample Result	0.024	0.022	0.031	0.026			0.026
#9 - Stage 1 Well 2 Average Residence Time	Jan 07-July 07	Yes	Sample Date	1/11/07	4/12/07	7/12/07				
			Sample Result	0.010	0.021	0.023				0.018
#10 - Stage 1 Well 2 Average Residence Time	Jan 05-Jan 06	Yes	Sample Date	1/14/05	4/14/05	7/14/05	10/13/05			
			Sample Result	0.024	0.035	0.045	0.042			0.037
#10 - Stage 1 Well 2 Average Residence Time	Jan 06-Jan 07	Yes	Sample Date	1/12/06	4/13/06	7/13/06	10/12/06			
			Sample Result	0.016	0.043	0.060	0.051			0.043
#10 - Stage 1 Well 2 Average Residence Time	Jan 07-July 07	Yes	Sample Date	1/11/07	4/12/07	7/12/07				
			Sample Result	0.011	0.052	0.083				0.049

¹ Verify that site IDs match the site IDs on your distribution system schematic.

Attach additional sheets as needed for previously collected compliance operational and monitoring results.

Form 2: Existing Monitoring Results SSS Plan

IV. PREVIOUSLY COLLECTED MONITORING RESULTS (Continued)*

C. TTHM Results

Site ID ¹	12-month period	Data Qualifies (yes/no)	Data Type	TTHM (mg/L)						LRAA
				1/14/05	4/14/05	7/14/05	10/13/05			
#11 - Stage 1 Well 2 Average Residence Time	Jan 05-Jan 06	Yes	Sample Date	1/14/05	4/14/05	7/14/05	10/13/05			
			Sample Result	0.027	0.032	0.068	0.059			0.047
#11 - Stage 1 Well 2 Average Residence Time	Jan 06-Jan 07	Yes	Sample Date	1/12/06	4/13/06	7/13/06	10/12/06			
			Sample Result	0.021	0.047	0.060	0.045			0.043
#11 - Stage 1 Well 2 Average Residence Time	Jan 07-July 07	Yes	Sample Date	1/11/07	4/12/07	7/12/07				
			Sample Result	0.018	0.025	0.065				0.036
#12 - Stage 1 Well 2 Maximum Residence Time	Jan 05-Jan 06	Yes	Sample Date	1/14/05	4/14/05	7/14/05	10/13/05			
			Sample Result	0.068	0.073	0.085	0.074			0.075
#12 - Stage 1 Well 2 Maximum Residence Time	Jan 06-Jan 07	Yes	Sample Date	1/12/06	4/13/06	7/13/06	10/12/06			
			Sample Result	0.069	0.077	0.089	0.078			0.078
#12 - Stage 1 Well 2 Maximum Residence Time	Jan 07-July 07	Yes	Sample Date	1/11/07	4/12/07	7/12/07				
			Sample Result	0.067	0.075	0.086				0.076

¹ Verify that site IDs match the site IDs on your distribution system schematic.

Attach additional sheets as needed for previously collected compliance operational and monitoring results.

Form 2: Existing Monitoring Results SSS Plan

IV. PREVIOUSLY COLLECTED MONITORING RESULTS (Continued)*

D. HAA5 Results

Site ID ¹	12-month period	Data Qualifies (yes/no)	Data Type	HAA5 (mg/L)						LRAA
				1/13/05	4/13/05	7/13/05	10/12/05			
#1 - Stage 1 SW Plant Average Residence Time	Jan 05-Jan 06	Yes	Sample Date	1/13/05	4/13/05	7/13/05	10/12/05			
			Sample Result	0.028	0.034	0.035	0.030			0.032
#1 - Stage 1 SW Plant Average Residence Time	Jan 06-Jan 07	Yes	Sample Date	1/11/06	4/12/06	7/12/06	10/11/06			
			Sample Result	0.024	0.033	0.037	0.031			0.031
#1 - Stage 1 SW Plant Average Residence Time	Jan 07-July 07	Yes	Sample Date	1/10/07	4/11/07	7/11/07				
			Sample Result	0.029	0.034	0.036				0.033
#2 - Stage 1 SW Average Residence Time	Jan 05-Jan 06	Yes	Sample Date	1/13/05	4/13/05	7/13/05	10/12/05			
			Sample Result	0.049	0.059	0.063	0.057			0.057
#2 - Stage 1 SW Average Residence Time	Jan 06-Jan 07	Yes	Sample Date	1/11/06	4/12/06	7/12/06	10/11/06			
			Sample Result	0.045	0.052	0.060	0.054			0.053
#2 - Stage 1 SW Average Residence Time	Jan 07-July 07	Yes	Sample Date	1/10/07	4/11/07	7/11/07				
			Sample Result	0.046	0.055	0.063				0.055

¹ Verify that site IDs match the site IDs on your distribution system schematic.

Attach additional sheets as needed for previously collected compliance operational and monitoring results.

Form 2: Existing Monitoring Results SSS Plan

IV. PREVIOUSLY COLLECTED MONITORING RESULTS (Continued)*

D. HAA5 Results

Site ID ¹	12-month period	Data Qualifies (yes/no)	Data Type	HAA5 (mg/L)						LRAA
				1/13/05	4/13/05	7/13/05	10/12/05			
#3 -Stage 1 SW Average Residence Time	Jan 05-Jan 06	Yes	Sample Date	1/13/05	4/13/05	7/13/05	10/12/05			
			Sample Result	0.022	0.035	0.052	0.031			0.035
#3 - Stage 1 SW Average Residence Time	Jan 06-Jan 07	Yes	Sample Date	1/11/06	4/12/06	7/12/06	10/11/06			
			Sample Result	0.024	0.041	0.059	0.037			0.040
#3 -Stage 1 SW Average Residence Time	Jan 07-July 07	Yes	Sample Date	1/10/07	4/11/07	7/11/07				
			Sample Result	0.017	0.045	0.065				0.042
#4 -Stage 1 SW Maximum Residence Time	Jan 05-Jan 06	Yes	Sample Date	1/13/05	4/13/05	7/13/05	10/12/05			
			Sample Result	0.039	0.049	0.058	0.041			0.047
#4 - Stage 1 SW Maximum Residence Time	Jan 06-Jan 07	Yes	Sample Date	1/11/06	4/12/06	7/12/06	10/11/06			
			Sample Result	0.023	0.044	0.052	0.039			0.040
#4 - Stage 1 SW Maximum Residence Time	Jan 07-July 07	Yes	Sample Date	1/10/07	4/11/07	7/11/07				
			Sample Result	0.027	0.051	0.060				0.046

¹ Verify that site IDs match the site IDs on your distribution system schematic.

Attach additional sheets as needed for previously collected compliance operational and monitoring results.

Form 2: Existing Monitoring Results SSS Plan

IV. PREVIOUSLY COLLECTED MONITORING RESULTS (Continued)*

D. HAA5 Results

Site ID ¹	12-month period	Data Qualifies (yes/no)	Data Type	HAA5 (mg/L)						LRAA
				1/13/05	4/13/05	7/13/05	10/12/05			
#5 - Stage 1 Well 1 Average Residence Time	Jan 05-Jan 06	Yes	Sample Date	1/13/05	4/13/05	7/13/05	10/12/05			
			Sample Result	0.029	0.036	0.043	0.033			0.035
#5 - Stage 1 Well 1 Average Residence Time	Jan 06-Jan 07	Yes	Sample Date	1/11/06	4/12/06	7/12/06	10/11/06			
			Sample Result	0.026	0.034	0.046	0.037			0.036
#5 - Stage 1 Well 1 Average Residence Time	Jan 07-July 07	Yes	Sample Date	1/10/07	4/11/07	7/11/07				
			Sample Result	0.025	0.035	0.049				0.036
#6 - Stage 1 Well 1 Average Residence Time	Jan 05-Jan 06	Yes	Sample Date	1/13/05	4/13/05	7/13/05	10/12/05			
			Sample Result	0.040	0.045	0.051	0.044			0.045
#6 - Stage 1 Well 1 Average Residence Time	Jan 06-Jan 07	Yes	Sample Date	1/11/06	4/12/06	7/12/06	10/11/06			
			Sample Result	0.037	0.043	0.050	0.044			0.044
#6 - Stage 1 Well 1 Average Residence Time	Jan 07-July 07	Yes	Sample Date	1/10/07	4/11/07	7/11/07				
			Sample Result	0.042	0.048	0.053				0.048

¹ Verify that site IDs match the site IDs on your distribution system schematic.

Attach additional sheets as needed for previously collected compliance operational and monitoring results.

Form 2: Existing Monitoring Results SSS Plan

IV. PREVIOUSLY COLLECTED MONITORING RESULTS (Continued)*

D. HAA5 Results

Site ID ¹	12-month period	Data Qualifies (yes/no)	Data Type	HAA5 (mg/L)						LRAA
				1/13/05	4/13/05	7/13/05	10/12/05			
#7 - Stage 1 Well 1 Average Residence Time	Jan 05-Jan 06	Yes	Sample Date	1/13/05	4/13/05	7/13/05	10/12/05			
			Sample Result	0.049	0.055	0.064	0.056			0.056
#7 - Stage 1 Well 1 Average Residence Time	Jan 06-Jan 07	Yes	Sample Date	1/11/06	4/12/06	7/12/06	10/11/06			
			Sample Result	0.045	0.052	0.061	0.054			0.053
#7 Stage 1 Well 1 Average Residence Time	Jan 07-July 07	Yes	Sample Date	1/10/07	4/11/07	7/11/07				
			Sample Result	0.048	0.057	0.065				0.057
#8 - Stage 1 Well 1 Maximum Residence Time	Jan 05-Jan 06	Yes	Sample Date	1/13/05	4/13/05	7/13/05	10/12/05			
			Sample Result	0.030	0.057	0.066	0.053			0.052
#8 - Stage 1 Well 1 Maximum Residence Time	Jan 06-Jan 07	Yes	Sample Date	1/11/06	4/12/06	7/12/06	10/11/06			
			Sample Result	0.026	0.042	0.053	0.054			0.044
#8 - Stage 1 Well 1 Maximum Residence Time	Jan 07-July 07	Yes	Sample Date	1/10/07	4/11/07	7/11/07				
			Sample Result	0.028	0.045	0.064				0.046

¹ Verify that site IDs match the site IDs on your distribution system schematic.

Attach additional sheets as needed for previously collected compliance operational and monitoring results.

Form 2: Existing Monitoring Results SSS Plan

IV. PREVIOUSLY COLLECTED MONITORING RESULTS (Continued)*

D. HAA5 Results

Site ID ¹	12-month period	Data Qualifies (yes/no)	Data Type	HAA5 (mg/L)						LRAA
#9 - Stage 1 Well 2 Average Residence Time	Jan 05-Jan 06	Yes	Sample Date	1/14/05	4/14/05	7/14/05	10/13/05			
			Sample Result	0.032	0.038	0.046	0.035			0.038
#9 - Stage 1 Well 2 Average Residence Time	Jan 06-Jan 07	Yes	Sample Date	1/12/06	4/13/06	7/13/06	10/12/06			
			Sample Result	0.030	0.041	0.048	0.039			0.040
#9 - Stage 1 Well 2 Average Residence Time	Jan 07-July 07	Yes	Sample Date	1/11/07	4/12/07	7/12/07				
			Sample Result	0.031	0.036	0.045				0.037
#10 - Stage 1 Well 2 Average Residence Time	Jan 05-Jan 06	Yes	Sample Date	1/14/05	4/14/05	7/14/05	10/13/05			
			Sample Result	0.031	0.037	0.056	0.044			0.042
#10 - Stage 1 Well 2 Average Residence Time	Jan 06-Jan 07	Yes	Sample Date	1/12/06	4/13/06	7/13/06	10/12/06			
			Sample Result	0.037	0.044	0.053	0.042			0.044
#10 - Stage 1 Well 2 Average Residence Time	Jan 07-July 07	Yes	Sample Date	1/11/07	4/12/07	7/12/07				
			Sample Result	0.038	0.043	0.051				0.044

¹ Verify that site IDs match the site IDs on your distribution system schematic.

Attach additional sheets as needed for previously collected compliance and operational monitoring results.

Form 2: Existing Monitoring Results SSS Plan

IV. PREVIOUSLY COLLECTED MONITORING RESULTS (Continued)*

D. HAA5 Results

Site ID ¹	12-month period	Data Qualifies (yes/no)	Data Type	HAA5 (mg/L)						LRAA
				1/14/05	4/14/05	7/14/05	10/13/05			
#11 - Stage 1 Well 2 Average Residence Time	Jan 05-Jan 06	Yes	Sample Date	1/14/05	4/14/05	7/14/05	10/13/05			
			Sample Result	0.038	0.043	0.050	0.044			0.044
#11 - Stage 1 Well 2 Average Residence Time	Jan 06-Jan 07	Yes	Sample Date	1/12/06	4/13/06	7/13/06	10/12/06			
			Sample Result	0.042	0.046	0.053	0.045			0.047
#11 - Stage 1 Well 2 Average Residence Time	Jan 07-July 07	Yes	Sample Date	1/11/07	4/12/07	7/12/07				
			Sample Result	0.037	0.042	0.051				0.043
#12 - Stage 1 Well 2 Maximum Residence Time	Jan 05-Jan 06	Yes	Sample Date	1/14/05	4/14/05	7/14/05	10/13/05			
			Sample Result	0.040	0.045	0.048	0.043			0.044
#12 - Stage 1 Well 2 Maximum Residence Time	Jan 06-Jan 07	Yes	Sample Date	1/12/06	4/13/06	7/13/06	10/12/06			
			Sample Result	0.043	0.047	0.052	0.046			0.047
#12 - Stage 1 Well 2 Maximum Residence Time	Jan 07-July 07	Yes	Sample Date	1/11/07	4/12/07	7/12/07				
			Sample Result	0.040	0.048	0.056				0.048

¹ Verify that site IDs match the site IDs on your distribution system schematic.

Attach additional sheets as needed for previously collected compliance and operational monitoring results.

Form 2: Existing Monitoring Results SSS Plan Page 15 of 16

V. CERTIFICATION OF DATA*

I hereby certify that:

- The reported monitoring results include all compliance and non-compliance results generated during the time period beginning with the first reported result and ending with the most recent Stage 1 DBPR results.
- The samples are representative of the entire distribution system.
- Treatment and the distribution system have not changed significantly since the samples were collected.

Signature: Mary Flower, P.E.

Date: May 30, 2007

VI. PROPOSED SSS MONITORING SCHEDULE*

Skip if you are submitting your IDSE Report at the same time as your plan

SSS Site ID (from map) ¹	Projected Sampling Date (date or week) ²					
	period 1	period 2	period 3	period 4	period 5	period 6

¹ Verify that site IDs match IDs on your distribution system schematic (See Section VII of this form). Attach additional copies of this sheet if necessary.

² period = monitoring period. Can list exact date or week (e.g., week of 7/9/07)

Form 2: Existing Monitoring Results SSS Plan Page 16 of 16

VII. DISTRIBUTION SYSTEM SCHEMATIC*

ATTACH a schematic of your distribution system.

Distribution system schematics are not confidential and should not contain information that poses a **security risk** to your system. EPA recommends that you use one of two options:

Option 1: Distribution system schematic with no landmarks or addresses indicated. Show locations of sources, entry points, storage facilities, operational monitoring locations, and Stage 1 compliance monitoring locations (required). Also include pressure zone boundaries and locations of pump stations. Provide map scale.

Option 2: City map without locations of pipes indicated. Show locations of sources, entry points, storage facilities, operational monitoring locations, and Stage 1 compliance monitoring locations (required). Also include boundaries of the distribution system, pressure zone boundaries and locations of pump stations. Provide map scale.

VIII. ATTACHMENTS

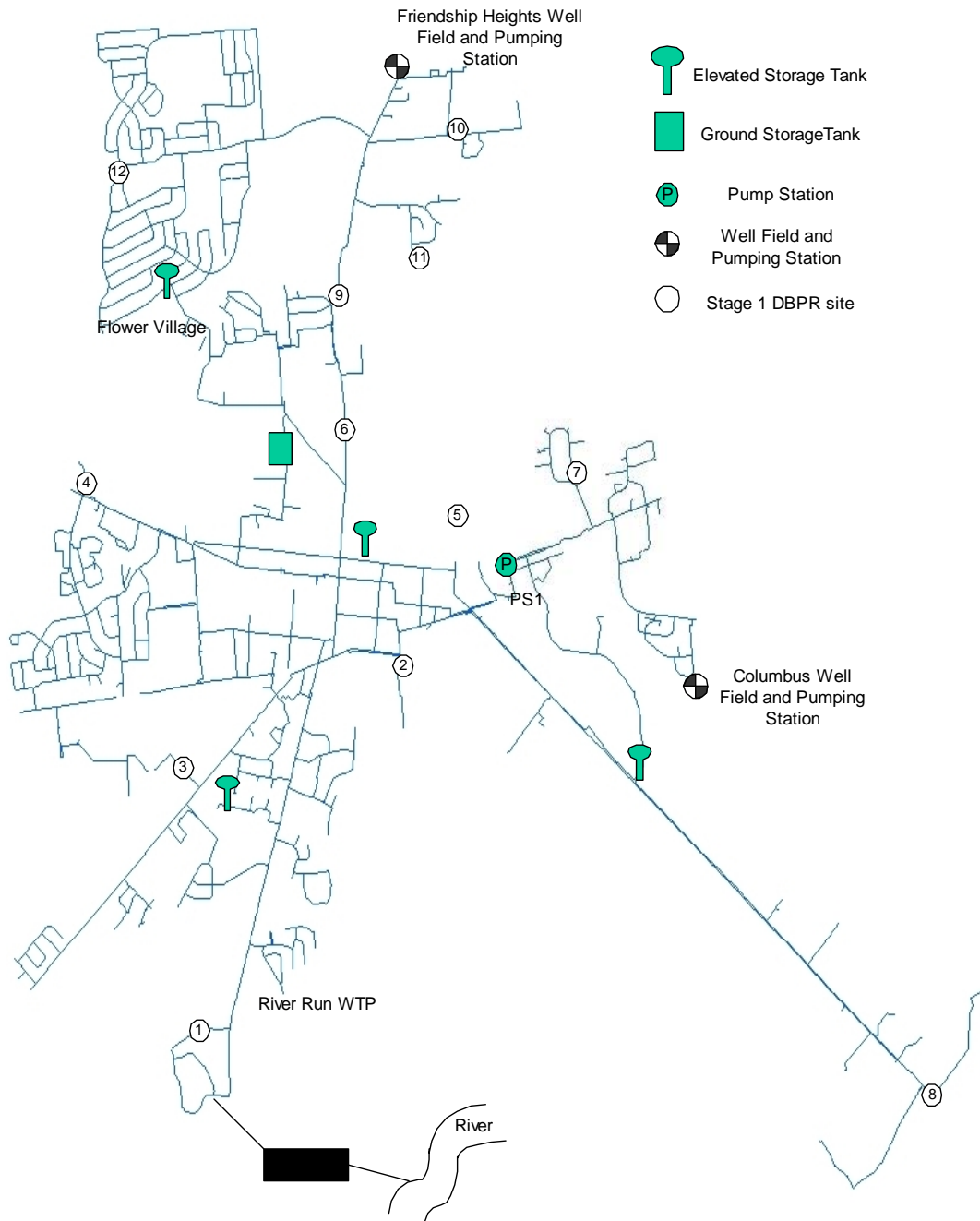
- Additional sheets for explaining how you selected the peak historical month (Section III).
- Additional sheets for previously collected monitoring results (Section IV).
- Additional sheets for proposed monitoring dates (Section VI).
- Distribution system schematic* (Section VII).

Total Number of Pages in Your Plan: 17

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

Magnolia City Distribution System Schematic

Attachment #9



This page intentionally left blank.

Form 3: IDSE Report for an Existing Monitoring Results SSS

Page 1 of 5

I. GENERAL INFORMATION

(Skip this section if you are submitting the plan and report at the same time)

A. PWS Information*

PWSID: _____

PWS Name: _____

PWS Address: _____

City: _____ State: _____ Zip: _____

Population Served: _____

B. Date Submitted*

System Type:

- CWS
 NTNCWS

Source Water Type:

- Subpart H
 Ground

Buying / Selling Relationships:

- Consecutive System
 Wholesale System
 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 required Stage 2 DBPR Compliance Monitoring Sites 4 TOTAL

 2 Highest TTHM 1 Stage 1 DBPR 1 Highest HAA5

Form 3: IDSE Report for an Existing Monitoring Results SSS

Page 2 of 5

II. STAGE 2 DBPR REQUIREMENTS (continued)*

B. IDSE Schedule

- Schedule 1
- Schedule 2
- Schedule 3
- Schedule 4

C. Required Stage 2 DBPR Compliance Monitoring Frequency

- During peak historical month (1 monitoring period)
- Every 90 days (4 monitoring periods)

III. ADDITIONAL SSS AND STAGE 1 COMPLIANCE MONITORING RESULTS*

(Skip this section if you are submitting the plan and report at the same time)

A. Where were your TTHM and HAA5 samples analyzed?

- In-House

Is your in-house laboratory certified?

Yes No

- Certified Laboratory

Name of certified laboratory:

B. 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 3: IDSE Report for an Existing Monitoring Results SSS

IV. JUSTIFICATION OF STAGE 2 DBPR COMPLIANCE MONITORING SITES*

Stage 2 Compliance Monitoring Site ID	Site Type	Justification
#12 - Stage 1 Well 2 Max Residence Time	<input checked="" type="checkbox"/> Highest TTHM <input type="checkbox"/> Highest HAA5 <input type="checkbox"/> Stage 1 DBPR	1 st highest TTHM LRAA. Sampled quarterly at all sites, so compared LRAAs for all sites instead of comparing individual sample results from peak historical month. This is true for the selection of all Stage 2 compliance monitoring sites.
#2 - Stage 1 SW Plant Ave Residence Time Site	<input type="checkbox"/> Highest TTHM <input checked="" type="checkbox"/> Highest HAA5 <input type="checkbox"/> Stage 1 DBPR	1 st highest HAA5; site #7 had the same LRAA result. Site #7 is selected for the Stage 1 site.
#7 - Stage 1 Well 1 Av Residence Time	<input type="checkbox"/> Highest TTHM <input type="checkbox"/> Highest HAA5 <input checked="" type="checkbox"/> Stage 1 DBPR	Stage 1 site with highest HAA5 LRAA
# 4 - Stage 1 SW plant max residence time	<input checked="" type="checkbox"/> Highest TTHM <input type="checkbox"/> Highest HAA5 <input type="checkbox"/> Stage 1 DBPR	2 nd highest TTHM LRAA
	<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.

Form 3: IDSE Report for an Existing Monitoring Results SSS

V. PEAK HISTORICAL MONTH

A. Peak Historical Month* July

B. Is Your Peak Historical Month the Same as In Your SSS Plan?

Yes No

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

VI. PROPOSED STAGE 2 DBPR COMPLIANCE MONITORING SCHEDULE*

Stage 2 Compliance Monitoring Site ID	Projected Sampling Date (date or week) ¹			
	period 1	period 2	period 3	period 4
#12	7/15/2013	10/15/2013	1/15/2014	4/15/2014
#2	7/15/2013	10/15/2013	1/15/2014	4/15/2014
#7	7/15/2013	10/15/2013	1/15/2014	4/15/2014
#4	7/15/2013	10/15/2013	1/15/2014	4/15/2014

¹ 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.

Form 3: IDSE Report for an Existing Monitoring Results SSS

Page 5 of 5

VII. DISTRIBUTION SYSTEM SCHEMATIC*

(Skip this section if you are submitting the plan and report at the same time)

ATTACH a schematic of your distribution system if it has changed since you submitted your Existing Monitoring Results SSS Plan (Form 2).

VIII. ATTACHMENTS

- Additional sheets for Additional SSS Monitoring Results (Section III).
- Additional sheets for Stage 2 DBPR 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 compliance monitoring dates (Section VI). **REQUIRED if you are a subpart H system serving more than 249,999 people.**
- Explanation of deviations from approved study plan.
- Distribution system schematic* (Section VII). **REQUIRED if it has changed from your approved SSS plan.**
- Compliance calculation procedures (for Stage 2 Compliance Monitoring Plan).

Total Number of Pages in Your Report: 5

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

This page intentionally left blank.