Capacity Assessment Form Small System Technical Assistant Contract Technical and Operational Capacity

Water System Information Name of Water System PWS ID# Contact Name Contact Title Contact Phone _____ Sanitary Survey and Other Related Information 1. When was your last Health Department sanitary survey? Who from the water system went with the Health Department inspector during the survey? 2. Since the last survey, have you had major changes in any of the following? a. Management b. Operators c.___Physical changes in the system d. Anything else 3. Do you have a copy of the most recent sanitary survey? ___Yes ___No Were there any deficiencies found? If yes, how have those deficiencies been corrected? (Check all that apply) All deficiencies were corrected within (circle 1) a.) 1 mo. 3 mo. 6 mo. 1 year The following water system personnel responded to the Health Department b.) sanitary survey letter? c.) Some deficiencies have been corrected. d.) None of the deficiencies have been corrected. 5. If any deficiencies are still not corrected, why not? Do you have copies of other letters or notices from the Health Department? Who reads and follows up on them? Has the system ever been put on public notification for bacteriological violations?

Yes

No

8. List the dates and	type of all violations	s within the last	twelve months?	
9. Does the water system of the water system o	ater sampling, interi		equired by the Health nder the Surface Wate	
Maps, Drawings and 0	Other Records			
10. Please indicate on drawings, or maps. Please some combination there	ease indicate by usi			
Facility	Location	Size	Construction Material	Year of Installation
Water Source(s)				
Treatment Plant(s)			 XXX.	
Transmission Mains	A 606			
Distribution Mains				
Storage Tanks				
Pumping Stations				
Pressure Zones				
11. Are your as-built p	lans, drawings, or n Some (pleas			pplicable
12. Has your water system and the desired that the desire			replaced, repaired, or	
If yes, please describe	(or attach) your sys	tem's procedure	Э.	

	If no, please describe (or attach) how you plan to ensure that as-built drawings will be prepared and maintained for all future facilities.								
13.	Do you h	ave a map that shows	s the wate	er system	n's exist	ting serv	/ice are	ea?	
	•	·		Yes _	N	√o _		Not Applic	able
	em Do	tems and existing sy you have a map that s							
JyJu	JIII:			Yes _	N	_ oا		Not Applic	able
15. the s	If your was system's f	ater system is expand future service area boo	undaries	rvice bou based or Yes	n a 10-y	ear gro	wth pro	a map that ojection? Not Applic	
	Does the es and pr	water system keep a oblems?		ng engine Yes _		etainer t No	to assi	st with tecl	nnical
Plan	ning Do	cuments							
17.	a.) Î	u developed: A 10-year growth pro consistent with local I	and use	plans?				ea and cus Not Applic	
		A 10-year projection		demand Yes _			n?	Not Applic	able
the 1	0-year p	u performed a capacity rojection of water dem ontinue with Question	and? (If						
,	,			Yes _	N	No			
19.	a.) Î	ur capacity analysis inc Estimates of the amond and over the coming 10	ount of war year per	iod?					
				Yes _		l o _		Not Applic	able
	b.) being syster	A description and yie used or that you propo							
	Syster	11:		Yes _	N	No _		Not Applic	able

		se to use to mee						
		Groundwater le Drawdown pat Sustained well	terns?	_Yes _Yes _Yes	No No No		_Not Applica _Not Applica _Not Applica	able
	e on a	'ell Yield" means continuous basi						
(d.)	A description of		source-p _Yes	oumping capad	city?	_Not Applica	able
	e.)	A description of					ge capacity? _Not Applica	
respect	to its	chnical engineer capacity to relial t are proposed a Yes Da	oly meet curre and in the pro	ent drinki cess of b	ng water stand eing adopted?	dards ar		
(If no, p	lease	check "Not App	licable" for Qu	uestion 2	1(a-e) and cor	ntinue to	question 2	2.)
		ur technical engi cument the syste					erworks sta oplicable	ndards?
b.)		sess all treatmer ndards and asse		ty's capa		naximum		
c.)	pou fluc	sess the existing unds per square tuations, peak o	inch (psi) thro	oughout to monthly	he distribution	system	under daily	
d.) Pro	vide a plan for r	eplacement a Yes			infrastr	ucture com	oonents?
e.)		es, is each infras or to the end of it	s projected u		?	eplacen	nent or repa	ir at a point
		system have sphin the system?			•	s for cor	nponents th	at are not
23. Do	es the	system have ar				alth Dep	partment?	

Water Source(s)

c.) Ground Surface d.) Ground e.) Surface f.) GWUD	d e (Including Springs)	rect Influence o as a GWUDI W		r (Also referred to as a
25. Does your water sources listed above				es other than the _Yes
Describe:		4 "		
26. Do you routinely increasing concentrat			water quality da	ata to identify any _Not Applicable
If yes, does the evalua Department?	ation include anything	other than wh	at is performed	by the Health
27. If you have identi the potential of excee				concentration that has e constituent below.
28. Do you have a m waste disposal sites, adjacent areas that m	landfills, animal feedle	ots, etc.) within em's water sou	the system's s	of contamination (e.g., ervice area or in _Not Applicable
29. New systems : How the requirements			ment Plan (SW	water that is consistent AP)? _Not Applicable
30. Do you have mor monthly water produc	ction for each source u		ater system?	that show daily and _Not Applicable
31. Does the system	keep records on the		rs the pumps ar	re run each day?Not Applicable

32. What are your systems warning signs of inac	dequate pumpi	ing capacity?_	
How long does it take for the operator to respond	to the warning	g signs?	
33. Has the Health Department directed the wat better treatment methods for the current water so		nd another wa	ter source or findNot Applicable
34. Does the water have taste and odor problem Secondary standard violations? If yes, please describe, if possible, the source of	Yes	Yes No	No
35. If yes to 33 or 34, have any treatment metho improve the raw water quality?Yes If yes, describe the alternatives being considered	No	tigated and/or	implemented to
Surface Sources:			
36. Has your system been through the CPE program, please describe. Yes	gram or some		tion program? If
Describe:			
Arkansas Depar	tmen	t of l	Health
If yes, what were the major limiting factors identifi	ed?		
Ground and Spring Sources:			
37. Does the system have maps of the aquifer a	nd aquifer recl Yes	harge areas? No	Not Applicable
38. Does the system know of other water system	ns using the sa Yes	ame aquifer? No	Not Applicable
39. Does the system know the recharge rate of t aquifer on an annual basis?	he aquifer and Yes	I the total wate No	r pumped from the Not Applicable

Wel	ls:
40.	Does the system have the well driller's logs and other construction data for each well? YesNoNot Applicable
	Does the system prepare and keep records of the static, pumping and drawdown levels of vell(s)? YesNoNot Applicable
Pur	chased Sources:
42.	Do you have a contract for your purchased water?YesNo How long is it for? Is there a limit to the amount of water you purchase?YesNo What happens if you need more?
43.	Does the wholesaler meet current drinking water standards? Yes No Don't Know
44.	Do both the wholesaler and the purchaser keep a record of master meter readings?
45.	Are these sets of readings compared?YesNo
46.	Who retains the records of the readings?
47.	Are there any accounts that are past due to the wholesaler?YesNo If yes, how much is past due? Have payments consistently been on time during the last 5 years? YesNo
48.	Is there a plan for a backup or emergency source of water (describe)? YesNo

Treatment

Describe the system's treatment process units.

Process Unit	<u>Purpose</u>
Example: Chlorinator	Disinfection / Oxidation
49. Are the systems treatment proceYes	ess units in good physical condition?No
	perational?YesNo n devices such as alarm systems or automatic dialers in No If yes, please list.
	ted the Total Coliform Rule?YesNo violation?
	eded Maximum Contaminant Levels (MCLs) for inorganic, egical contaminants?YesNo ion?
•	

53. Has the water system ever violated CT violation, lack of qualified operator, YesNo If yes	or other treatment ted	
54. Has the water system received waYesNo TI If yes, please describe the nature and the system received water system rece	he last 5 years?	YesNo
55. Is the chlorine dosing equipment inYesNo (Look for evidence		
56. Can residual chlorine be detected Yes N		e distribution system?
Do you take regular chlorine samp	oles in different parts o	of the distribution system?
YesNegative to the contract of the	sidual at the far reache	es of the distribution system?
57 Do you have any treatment for iron Yes N		ater, etc.
If yes, please describe.		
58. Is the plant flow rate read or calculy YesNo If		
59. Are water quality parameters monicontrol? YesN		egular basis as a means of process
If yes, please list, and the location of the laboratory equipment being used.	e sample, and parame	eter being monitored, and the
Sample Location	<u>Parameter</u>	<u>Equipment</u>

60. How are chemical feed rates adjusted in response to the process control evaluation? ManuallyAutomaticallyNot Applicable
61. Has an evaluation been conducted to document the condition and remaining service life of existing treatment facilities?
<u>Distribution, Pumping and Storage</u>
62. Are all water connections metered?YesNo
63. Are all the meters read on a monthly basis? YesNo
64. Does anyone evaluate the readings for possible leaks on the homeowners' side of the meter?YesNo If yes, are the readings evaluated in the field or in the office?
65. Does the water system have a properly working master meter? YesNo
66. Is the unaccounted for water calculated each month? YesNo
67. What is the % of unaccounted for water?%
68. Is an operating pressure of at least 20 psi maintained under all normal service conditions (including times of fire flow if your system is used for fire protection) in your system's distribution system? YesNo
69. If no to 68, do you have a map that identifies the areas in your distribution system that do not maintain an operating pressure of at least 20 psi? YesNo
70. Is an operating pressure of at least 5 psi maintained in all transmission lines under all normal service conditions (including times of fire flow if your system is used for fire protection) your system's transmission lines? Yes No
71. If no to 70, do you have a map that identifies those transmission lines that do not maintain an operating pressure of at least 5 psi? YesNo
72. Has the water system issued a boiled water notice in the last year?YesNo. If yes, what was the cause(s) of the boil water notice(s)?
73. Has a pressure survey been conducted on the distribution system?
74. Has a hydraulic computer analysis been conducted on the transmission and distribution system? YesNo

75. Does the water system have a cross-connection control program that meets the requirements of the <i>Rules and Regulations Pertaining to Public Water Systems?</i> YesNo					
If yes, please provide a brief description.					
If no, describe any plans to meet the requirements, along with any proposed time lines					
76. Are the system's pumping stations in good physical condition? YesNo					
77. Are the system's pumping stations able to accomplish their tasks, such as filling tanks? YesNoNot Applicable					
If no, please describe					
78. Are the system's pumping stations equipped with auxiliary power? Yes Some No Not Applicable If "some," please list the pump stations and indicate which ones have auxiliary power					
79. Is the following information collected on the system's pumping stations: a.)Pump run time b.)Pump electrical power usage c.)Pump starts per day Yes No Not Applicable Yes No Not Applicable					
80. Are the water storage tanks inspected for corrosion or pitting at least every 3 years? YesNo If No, how often?					
81. Does the inspector see any corrosion or pitting in the tanks?YesNo					
82. Is the tank capacity enough to meet current and projected demand (24 hours of storage at average day demand)?YesNo					
83. Has an evaluation been conducted to document the condition and remaining service life of existing distribution, pumping and storage facilities? Yes No					

Technical Knowledge

List the name, license grade and license number for	or each individual wh	no operates your system.
Name	Grade and Type	License Number
84. Is an operator(s) accessible at all times?	Yes	No
85. Does the water system use remote monitoring levels, etc.), and are the devices in working order?		
<u>Device</u>	Working O	rder? (Y/N)
Arkansas Depart	ment o	f Health
86. Is the operator(s) aware of the EPA proposals system? Yes		hat could affect the water
87. Have bacteriological, lead/copper, fluoride, or system, been rejected by the Health Department's		
If yes, why?		
88. Does the operator maintain an operations and needs to be done if he is not there? Yes	maintenance manua	al or document on what

	Does the operator(s) have a back perly licensed?Yes _	c-up? No	_Yes	No	Is the back-up
90.	Does your system have a continue System manager(s)? System operator(s)? Other system employees? Governing board members?	ing education Yes Yes Yes Yes Yes	n plan for: No No No No No		Not Applicable Not Applicable Not Applicable Not Applicable
91.	Does the manager of your water to Utility management? Drinking water regulations? Resource management (i.e., personnel, budget, facilities)	Yes Yes Yes	experience wNoNoNo		aining in:Not ApplicableNot ApplicableNot Applicable
<u>Sur</u>	nmary				
Plea	ase provide any other relevant cor	nments			
		-			
A	rkansas De	part	men	to	f Health