

Long Term 2 **Enhanced Surface Water Treatment Rule** (LT2ESWTR)

Source Water Sampling Plan Requirements Checklist

PWS ID Number		PW	S Name			
Contact Name		Pho	one Number		E- Mail	
Treatment Plant S Number	Surface Water (TPSW)			TPSW Name		

Submit completed source water intake sampling plans to ADEQ <u>or</u> MCESD (if MCESD regulated), no later than date listed in this table:							
Schedule and Population (or in a combined distribution system in which the largest system serves)Sampling PeriodPlans Due							
1 (serves ≥ 100,000)	April 2015 – March 2017	January 1, 2015					
2 (serves 50,000 – 99,999)	October 2015 – September 2017	July 1, 2015					
3 (serves 10,000 – 49,999)	October 2016 – September 2018	July 1, 2016					
4 (serves < 10,000)	October 2017 – September 2018	July 1, 2017					

A. Schedules 1- 4	Schedule 1-4 system chooses to provide treatment for Cryptosporidium (5.5 log), instead of sampling for E. coli or Cryptosporidium Complete and submit a Notice of Intent to Provide Treatment (DWAR 20 (NOI) Treatment).Schedule 4 system chooses to sample for Cryptosporidium, instead of E. coli:
☐ B. Schedule 4 only	 Complete and submit the Notice of Intent to sample for Cryptosporidium (DWAR 20 (NOI), Sample). See Additional instructions and required steps for system sampling for LT2.
☐ C. Schedule 4 only	Schedule 4 system samples for <i>E. coli</i> See Additional instructions and required steps for system sampling for LT2.
□ D. Schedules 1- 3 only	Schedule 1-3 system samples for Cryptosporidium, E. coli and turbidity. See Additional instructions and required steps for system sampling for LT2.
Additional ins	structions and required steps for system sampling for LT2 (Option B, C, or D selected):
□ 1.	Select the schematic that represents the system's source/treatment plant configuration. If none of the first nine LT2 schematics attached to this document fit the system's configuration, use schematic number 10, or the system may submit their own.
2 .	 Mark the location of the system's sampling point(s), and all points of chemical treatment from the intake to the treatment plant on the selected schematic. The system's sampling point(s) must be representative of water entering the treatment plant. The sampling point must be prior to any chemical treatment. Contact ADEQ or MCESD for further instructions if sampling prior to chemical treatment is proposed. Systems that have a raw water off-stream reservoir or storage must collect samples after the raw water storage/reservoir.

DWAR 20 (Checklist)

January 2017



Long Term 2 Enhanced Surface Water Treatment Rule (LT2ESWTR)

Source Water Sampling Plan Requirements Checklist

	 worksheet. System and the collection Systems that recy backwash re-entered. The sampling point treatment process. Systems that recy worksheet. Systems that have more if a sampling tap is av composite samples from the same tables from ta	rcle their filter backwash water must indi rs the treatment process. In must be prior to the point where any fi	e between the application of cate the point where the re- ilter backwash is recycled bir(s) must provide these d es after all raw water source and prior to treatment may mbined sample tap is avai	of copper sulfate ecycled back into the etails in the es are combined require
□ 3.	Complete a "Sampli location using DWA	ng Location Worksheet" for each sur R 20 (Worksheet).	face water source sampl	ing intake
	Provide laboratory l	nformation for each lab used (duplica	te table as needed):	
	Laboratory Name		Laboratory ID Number	
	Contact Name		Phone Number	
□ 4.	Laboratory Name		Laboratory ID Number	
	Contact Name		Phone Number	
		ect and use a laboratory using U.S. EPA		
		of Health Services for Cryptosporidium (g) (Schedule 1-4 systems).	Schedule 1-3 Systems), ar	IA E. COII
5 .	Select and submit the	e sampling dates:		
	system will be col Samples must be Schedule 4 system one year beginnir Monitoring Beg Monitoring End If the system chooses		1). date selected, plus or mini ast a biweekly basis (every	us 2 days). / two weeks) for

Submit both pages of DWAR 20 (Checklist), and all required information from A, B, C, or D to the system's regulatory agency:

LT2 Rule Specialist

Drinking Water Monitoring and Protection Unit Arizona Department of Environmental Quality 1110 W. Washington St., Mail Code 5415 B-2 Phoenix, AZ 85007 It2rule@azdeg.gov

Manager

Safe Drinking Water Program

Maricopa County Environmental Services Department 1001 N Central Avenue, Suite 250 Phoenix, AZ 85004 Desk: 602.506.6935 | Fax: 602.372.0866 sdwquestions@mail.maricopa.gov

DWAR 20 (Checklist)

January 2017

LT2 SOURCE WATER MONITORING SAMPLING CALENDAR

2017

PWS Name:

PWS ID #:

TPSW #:

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15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

	November									
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12	13	14	15	16	17	18				
19	20	21	22	23	24	25				
26	27	28	29	30						

	December											
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17	18	19	20	21	22	23						
24	25	26	27	28	29	30						
31												

2018

		Ja	anuar	y		
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14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

February										
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18	19	20	21	22	23	24				
25	26	27	28							

	March											
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11	12	13	14	15	16	17						
18	19	20	21	22	23	24						
25	26	27	28	29	30	31						

			April			
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29	30					

	May									
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13	14	15	16	17	18	19				
20	21	22	23	24	25	26				
27	28	29	30	31						

June						
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	July						
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15	16	17	18	19	20	21	
22	23	24	25	26	27	28	
29	30	31					

August						
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19	20	21	22	23	24	25
26	27	28	29	30	31	

	September						
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9	10	11	12	13	14	15	
16	17	18	19	20	21	22	
23	24	25	26	27	28	29	
30							



Long Term 2 Enhanced Surface Water Treatment Rule (LT2ESWTR) System Schematic Diagrams

Figure 1. Sample Tap before Chemical Treatment and Backwash Water Recycle (if applicable)

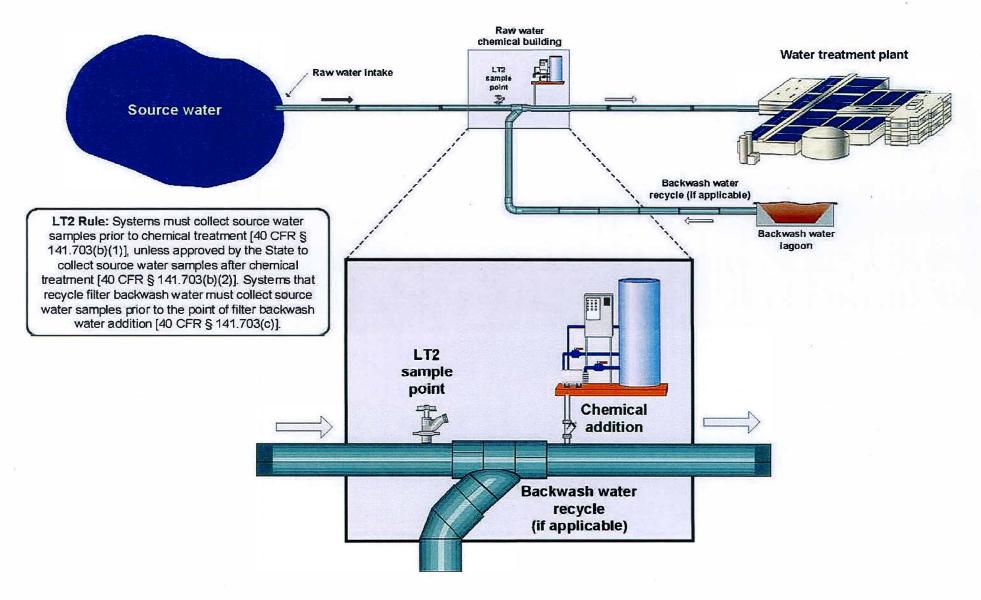
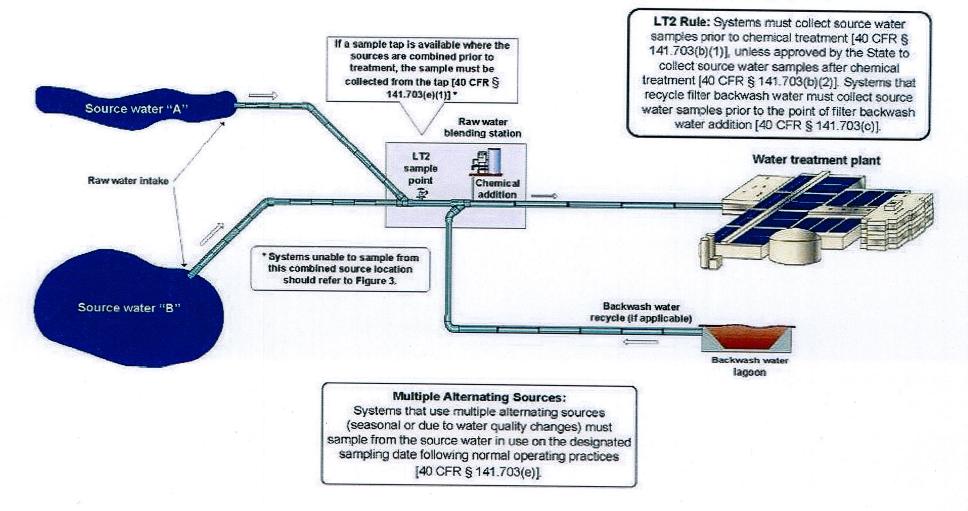


Figure 2. Multiple Sources: Sample Tap after Two Combined Sources



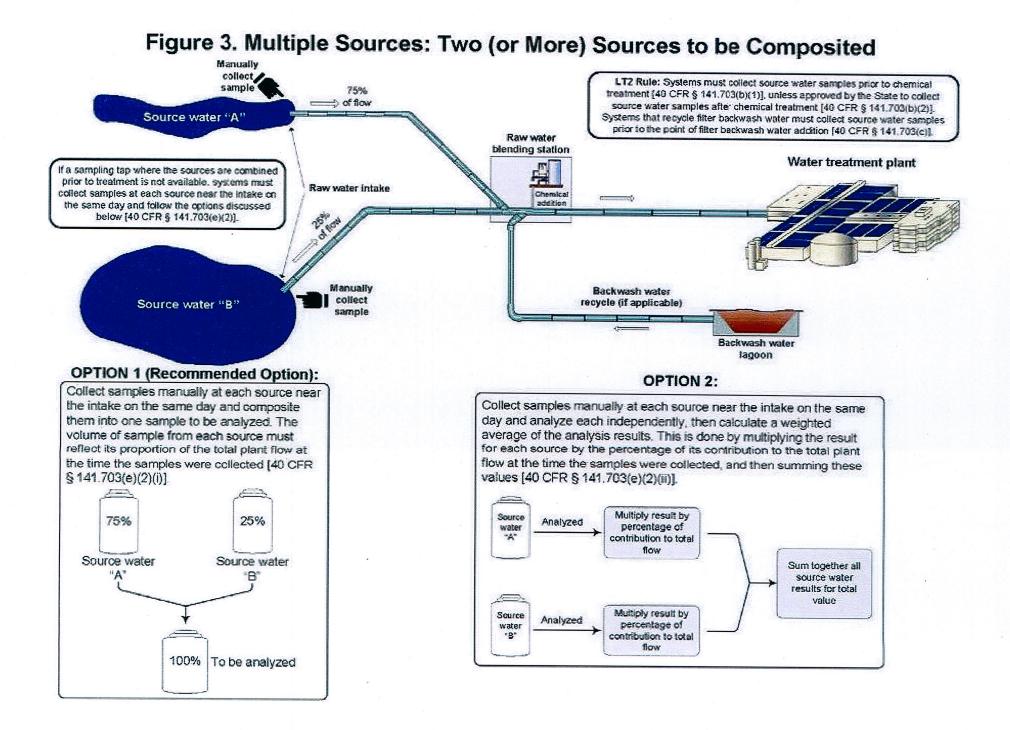


Figure 4. Multiple Plants with the Same Influent

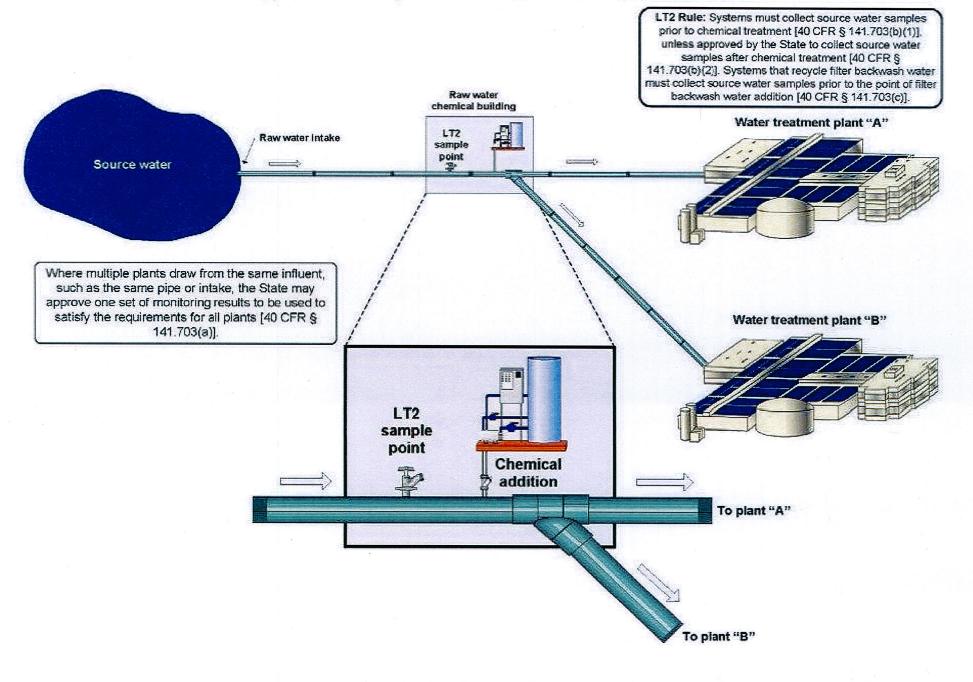


Figure 5. Bank Filtration

The correct sampling location for systems using bank filtration differs depending on whether the bank filtered water is treated by subsequent filtration:

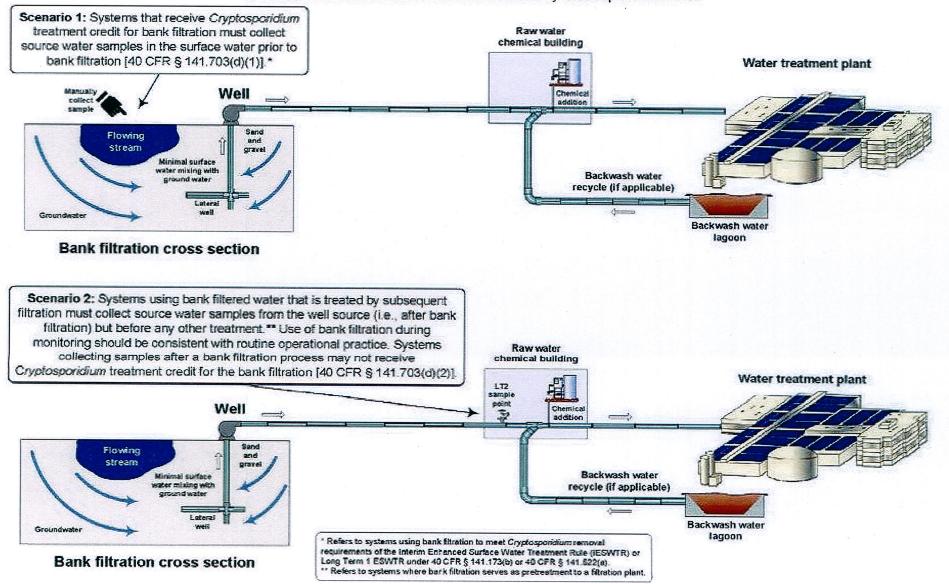


Figure 6. Ground Water Under the Direct Influence of Surface Water (GWUDI)

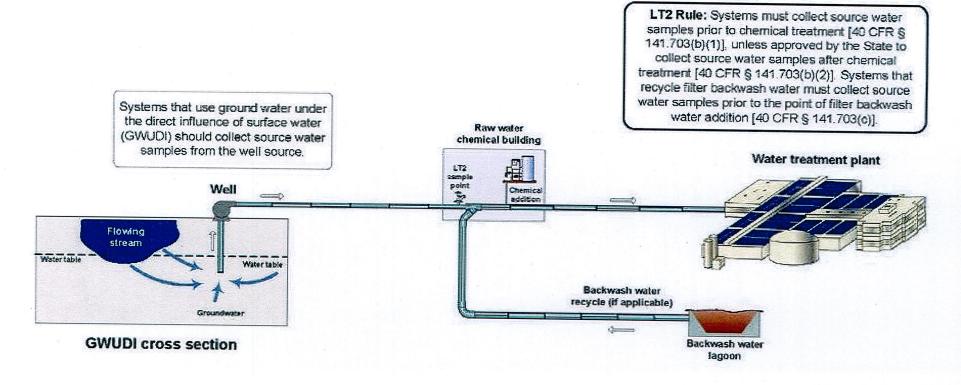
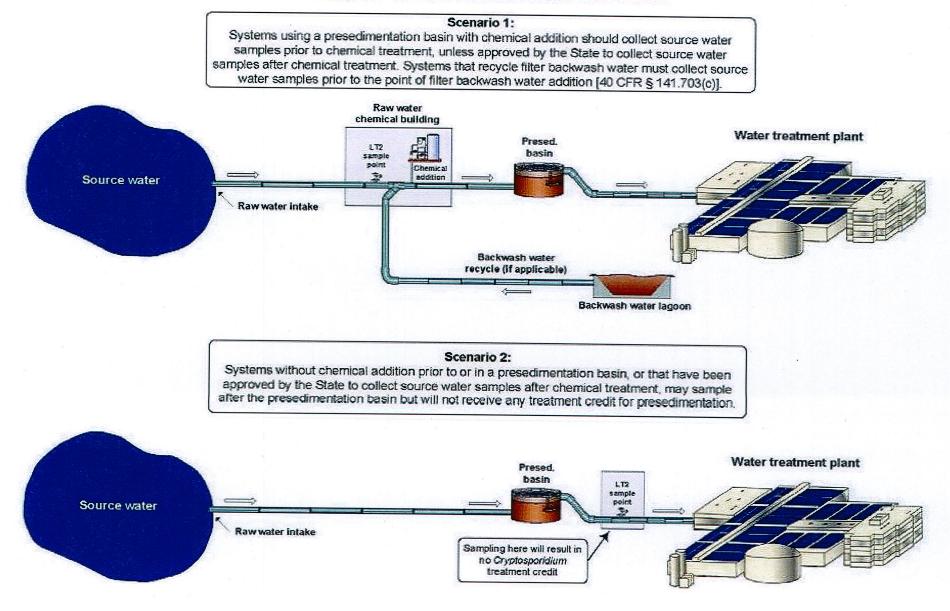


Figure 7. Presedimentation Basin



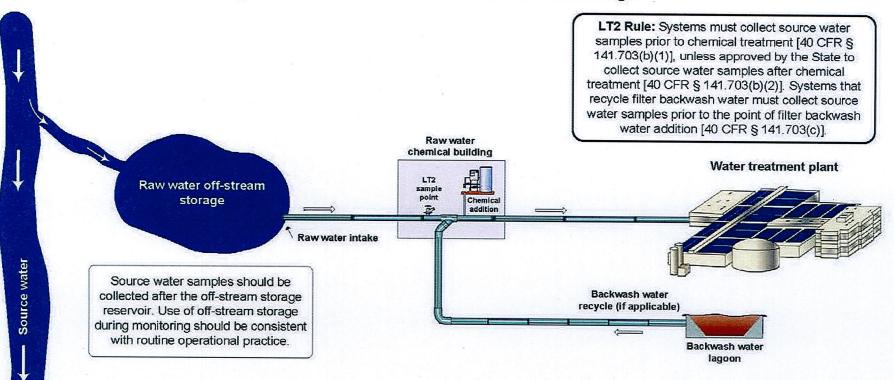


Figure 8. Raw Water Off-Stream Storage

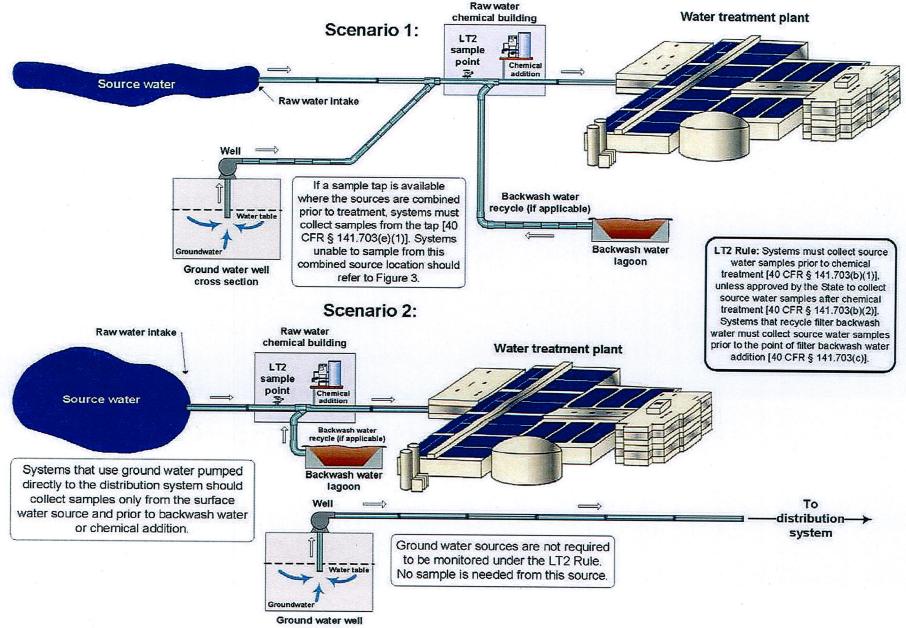


Figure 9. Mixed Source Water: Ground Water and Surface Water Sources

cross section

Figure 10. Blank Schematic for Submission

Public Water System (PWS) name	£
PWS ID:	
Water treatment plant name:	
Water system facility ID:	

Indicate the following on the diagram that best represents your facility type (if applicable):

1. LT2 sampling location

- 2. Points of chemical treatment prior to the treatment plant
- 3. Filter backwash water addition
- 4. Pretreatment processes (e.g., presedimentation basins, bank filtration)
- 5. Multiple source waters (show by adding additional sources)

