Tr	eatmen	t Pro	ocess Evaluation Checklist	Pag	e 1 of 4	
□ NO DATA AVAILABLE						
Facility Name:  Checklist Completed by:  Date:						
A.	Checklist Completed by: Date:					
/۱.			ed water data using the following questions:	na oompan	3 10	
	Were DBP precursors (TOC, DOC, SUVA, bromide, etc.) higher than normal?					
	Was fini	shed v	water pH higher or lower than normal?	☐ Yes	☐ No	
	Was the finished water temperature higher than normal?				☐ No	
	Was finished water turbidity higher than normal?			☐ Yes	☐ No	
	Was the disinfectant concentration leaving the plant(s) higher than normal?			☐Yes	☐ No	
	Were finished water TTHM/HAA5 levels higher than normal?			☐ Yes	☐ No	
	Were operational and water quality data available to the system operator for effective decision making?				□No	
В.	Does the	treatn	nent process include predisinfection?	☐ Yes	☐ No	
			eed to item C. If YES, answer the following questions for the	period in v	vhich	
	an OE Yes	:L exc No	eedance occurred:			
			Was disinfected raw water stored for an unusually long time?			
			Were treatment plant flows lower than normal?			
			Were treatment plant flows equally distributed among different	trains?		
			Were water temperatures high or warmer than usual?			
			Were chlorine feed rates outside the normal range?			
			Was a disinfectant residual present in the treatment train follow	ing predisi	nfection?	
			Were online instruments utilized for process control?			
			Did you switch to free chlorine as the oxidant?			
			Was there a recent change (or addition) of pre-oxidant?			
			Did you change the location of the predisinfection application?			
C.	Does you	ır treat	tment process include presedimentation?	☐ Yes	□No	
	If NO, proceed to item D. If YES, answer the following questions for the period in which					
	an OEL exceedance occurred: Yes No					
			Were flows low?			
			Were flows high?			
			Were online instruments utilized for process control?			
			Was sludge removed from the presedimentation basin?			
			Was sludge allowed to accumulate for an excessively long time	<del>)</del> ?		
			Do you add a coagulant to your presedimentation basin?			
			Was there a problem with the coagulant feed?			

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D.	Does you	r treatr	☐Yes	☐ No			
	If NO, proceed to item E. If YES, answer the following questions for the period in which an OEL exceedance occurred:  Yes No						
			Were there any feed pump failures or were feed pumps operation rates?	os operating at improper feed			
			Were chemical feed systems controlled by flow pacing?				
			Were there changes in coagulation practices or the feed point?				
			Did you change the type or manufacturer of the coagulant?				
			Do you suspect that the coagulant in use at the time of the OEL not meet industry standards?	OEL exceedance did			
			Did the pH or alkalinity change at the point of coagulant addition	า?			
			Were there broken or plugged mixers?				
			Were flow rates above the design rate or was there short-circuit	ting?			
E.	Does you	r treatr	ment process include sedimentation or clarification?	Yes	☐ No		
	If NO, proceed to item F. If YES, answer the following questions for the period in which an OEL exceedance occurred:  Yes No						
			Were there changes in plant flow rate that may have resulted in settling time or carry-over of process solids?	a decreas	e in		
			Were settled water turbidities higher than normal?				
			Was there any disruption in the sludge blanket that may have re to the point of disinfection?	sulted in o	arryover		
			Was there any maintenance in the basin that may have stirred so bottom of the basin and caused it to carry over to the point of diaddition?		n the		
			Was sludge allowed to accumulate for an excessively long time malfunction in the sludge removal equipment?	or was the	ere a		

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F.	Does your treatment process include filtration?			Yes	Yes ☐ No	
	If NO, proceed to item G. If YES, answer the following questions for the period in which an OEL exceedance occurred:  Yes No					
			Was there an increase in individual or combined filter effluent turbic counts?	t turbidity or particle		
			Was there an increase in turbidity or particle loading onto the filters	;?		
			Was there an increase in flow onto the filters or malfunction of the rate of flow controllers?			
			Were any filters taken off-line for an extended period of time that ca filters to operate near maximum design capacity and creating the opossible breakthrough?			
			Were any filters operated beyond their normal filter run time?	<b>?</b>		
			Were there any unusual spikes in individual filter effluent turbidity (indicate particulate or colloidal TOC breakthrough) in the days lead excursion?			
			Were all filters run in a filter-to-waste mode during initial filter ripen	ilter ripening?		
			If GAC filters are used, is it possible the adsorptive capacity of the reached before reactivation occurred (leave blank if not applicable)			
			If biological filtration is used, were there any process upsets that m resulted in the breakthrough of TOC (leave blank if not applicable)	,	€	
G.	Does your treatment process include primary disinfection by injecting chlorine prior to a clearwell?  If NO, proceed to item H. If YES, answer the following questions for the period in which an OEL exceedance occurred:					
	Yes	No	Vas there a sudden increase in the amount of chlorine fed or an increase in the hlorine residual?			
			Was there an increase in clearwell holding time?			
			Was the plant shut down or were plant flows low?			
			Was there an increase in clearwell water temperature?			
			Did you switch to free chlorine recently as the primary disinfectant?	ı		
			Was the inactivation of Giardia and/or viruses exceptionally high?			
			Was there a change in the mixing strategy (i.e. mixers not used, actank level)?	ijustmer	nt of	
Н.	Does you	r plant	recycle spent filter backwash or other streams?	Yes	□No	
	If NO, proceed to item I. If YES, answer the following questions for the period in which an OEL exceedance occurred:  Yes No					
			D'Arabana 'a tha an alla stara a a all'i a a ta' a ta ta ta a a a a DDD ann a			
			Did a recycle event result in flows in excess of typical or design flow	vs?		

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I.	Do you inject a disinfectant after your clearwell to maintain a distribution system residual?  If NO, proceed to item J. If YES, answer the following questions for the period in which an OEL exceedance occurred:  Yes No				
			Was there a sudden increase in the amount of chlorine fed?		
			Was there a switch from chloramines to free chlorine for a burne	out period	?
			If using chloramines, was the chlorine to ammonia ratio in the p	roper rang	e?
			Was there a problem with either chlorine or ammonia mixing?		
J.	Did concern about complying with a rule other than Stage 2 DBPR, such as the Lead and Copper rule, the LT2ESWTR, or any other rule constrain your options to reduce the DBP levels at this site? For example, are you limited by other treatment targets/requirements in your ability to control precursors in coagulation/flocculation?  If NO, proceed to item K. If YES, explain below and consult EPA's Simultaneous Compliance Guidance Manual for alternative compliance approaches.				
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K.	Conclusion  Did treatment factors and/or variations in the plant performance contribute to the OEL exceedance(s)?			☐ Yes ☐ Possi	□ No bly
	If YES or POSSIBLY, explain below.				
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