

## Comprehensive Performance Evaluation (CPE) Checklist Surface Water Treatment Rule (SWTR)

FOR SURFACE WATER/GUDI PUBLIC WATER SYSTEMS THAT ARE REQUIRED TO CONDUCT ADDITIONAL INDIVIDUAL FILTER MONITORING

Part 1: General Public Water System (PWS) and Monitoring Period Information						
Regulatory Agency: ADEQ PDEQ MCESD			Date:			
P۱	WS Name:		PWS ID#:			
Co	ontact Person:		Phone#:			
Email Address: Mor		onth/Year:	nth/Year:			
Treatment Plant Name: Tre		eatment Plant Nu	atment Plant Number:			
Da	Date ADEQ was consulted for CPE:					
Sc	chedule Date of CPE:	ate CPE was Perfo	te CPE was Performed:			
CI	PE Performed by (Name and Organization):					
ΑI	DEQ Approval of 3 <sup>rd</sup> Party (if Necessary):					
P	art 2: Comprehensive Performance Evaluation Checl	klist				
	INSTRUCTIONS: This worksheet is based on responses provided to Individual Filter Effluent (IFE) Turbidity questions on Page 2 of the Surface Water Treatment Reporting form (DWAR15A&B).  If your water system has answered 'YES' to Question 4 or Question 5 on DWAR 15A&B, complete a Filter Profile form.  If your water system has answered 'YES' to Question 6 on DWAR15A&B, complete an Individual Filter Self-Assessment.  If your water system has answered 'YES' to Question 7 on DWAR15A&B, review the checklist and include all required components in a Comprehensive Performance Evaluation.  Use this checklist to ensure all the required components are included in your system's CPE. The CPE must include an assessment of plant performance, evaluation of major processes, identification and prioritization of DAMACO CPE AND COMPANY (ACCOUNTS).					
	applicability of comprehensive technical assistance and CPE report (40 CFR					
	applicability of comprehensive technical assistance and CPE report (40 CFR ASSESSMENT OF PLANT PERFORMANCE AND EVALUATION OF MAJOR UNIT PROCESSES		03). Issues Identified	Explanation Provided in CPE		
	ASSESSMENT OF PLANT PERFORMANCE AND EVALUATION OF MAJOR	141.2/A.A.C R18-4-1	03). Issues	Explanation		
	ASSESSMENT OF PLANT PERFORMANCE AND EVALUATION OF MAJOR UNIT PROCESSES  Evaluated plant design capacity and compare flow rate to	141.2/A.A.C R18-4-1	03). Issues Identified	Explanation Provided in CPE		
	ASSESSMENT OF PLANT PERFORMANCE AND EVALUATION OF MAJOR UNIT PROCESSES  Evaluated plant design capacity and compare flow rate to maximum design capacity  Evaluated unit Filter Run Volume (gallons/ ft²) compared to plant	141.2/A.A.C R18-4-1	03). Issues Identified	Explanation Provided in CPE  YES NO		
	ASSESSMENT OF PLANT PERFORMANCE AND EVALUATION OF MAJOR UNIT PROCESSES  Evaluated plant design capacity and compare flow rate to maximum design capacity  Evaluated unit Filter Run Volume (gallons/ ft²) compared to plant design  Conducted filter surveillance of backwash rates, bubbling in	141.2/A.A.C R18-4-1	03). Issues Identified	Explanation Provided in CPE  YES NO  YES NO		
	ASSESSMENT OF PLANT PERFORMANCE AND EVALUATION OF MAJOR UNIT PROCESSES  Evaluated plant design capacity and compare flow rate to maximum design capacity  Evaluated unit Filter Run Volume (gallons/ ft²) compared to plant design  Conducted filter surveillance of backwash rates, bubbling in backwash  Mapped drained filter bed to determine issues with filter	141.2/A.A.C R18-4-1	Issues Identified (include in CPE)	Explanation Provided in CPE  YES NO THE NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOT		
	ASSESSMENT OF PLANT PERFORMANCE AND EVALUATION OF MAJOR UNIT PROCESSES  Evaluated plant design capacity and compare flow rate to maximum design capacity  Evaluated unit Filter Run Volume (gallons/ ft²) compared to plant design  Conducted filter surveillance of backwash rates, bubbling in backwash  Mapped drained filter bed to determine issues with filter performance  Assessed filter media (number of sites, layer thickness) to	141.2/A.A.C R18-4-1	Issues Identified (include in CPE)	Explanation Provided in CPE  YES NO  YES NO  YES NO  YES NO  YES NO  YES NO		
	ASSESSMENT OF PLANT PERFORMANCE AND EVALUATION OF MAJOR UNIT PROCESSES  Evaluated plant design capacity and compare flow rate to maximum design capacity  Evaluated unit Filter Run Volume (gallons/ ft²) compared to plant design  Conducted filter surveillance of backwash rates, bubbling in backwash  Mapped drained filter bed to determine issues with filter performance  Assessed filter media (number of sites, layer thickness) to determine issues with filter performance  Evaluated filter performance during normal and "worse case"	141.2/A.A.C R18-4-1	Issues Identified (include in CPE)	Explanation Provided in CPE  YES NO		
	ASSESSMENT OF PLANT PERFORMANCE AND EVALUATION OF MAJOR UNIT PROCESSES  Evaluated plant design capacity and compare flow rate to maximum design capacity  Evaluated unit Filter Run Volume (gallons/ ft²) compared to plant design  Conducted filter surveillance of backwash rates, bubbling in backwash  Mapped drained filter bed to determine issues with filter performance  Assessed filter media (number of sites, layer thickness) to determine issues with filter performance  Evaluated filter performance during normal and "worse case" operations  Evaluate cross section of media to determine issues with filter	No Issues Identified	Issues Identified (include in CPE)	Explanation Provided in CPE  YES NO  Y		
	ASSESSMENT OF PLANT PERFORMANCE AND EVALUATION OF MAJOR UNIT PROCESSES  Evaluated plant design capacity and compare flow rate to maximum design capacity  Evaluated unit Filter Run Volume (gallons/ ft²) compared to plant design  Conducted filter surveillance of backwash rates, bubbling in backwash  Mapped drained filter bed to determine issues with filter performance  Assessed filter media (number of sites, layer thickness) to determine issues with filter performance  Evaluated filter performance during normal and "worse case" operations  Evaluate cross section of media to determine issues with filter performance	No Issues Identified	Issues Identified (include in CPE)	Explanation Provided in CPE  YES NO THE NOTE NOTE NOTE TO THE NOTE		
	ASSESSMENT OF PLANT PERFORMANCE AND EVALUATION OF MAJOR UNIT PROCESSES  Evaluated plant design capacity and compare flow rate to maximum design capacity  Evaluated unit Filter Run Volume (gallons/ ft²) compared to plant design  Conducted filter surveillance of backwash rates, bubbling in backwash  Mapped drained filter bed to determine issues with filter performance  Assessed filter media (number of sites, layer thickness) to determine issues with filter performance  Evaluated filter performance during normal and "worse case" operations  Evaluate cross section of media to determine issues with filter performance  Evaluated media core to determine issues with filter performance  Evaluated media core to determine issues with filter performance	No Issues Identified	Issues Identified (include in CPE)	Explanation Provided in CPE  YES NO		



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	performance					
	Assessed the operation of equipment compared to manufacturer procedures			YES NO		
	Assessed the operation of raw water intake for issues with performance			YES NO		
	Evaluated redundancy, bypass capabilities, and modified treatment flow of current treatment process			YES NO		
	Evaluated pressure and vacuum (ultrafiltration only)			YES NO		
	Evaluated operation of SCADA equipment			YES NO		
	Evaluated the location of sample sites, injection points, and analyzers compared to treatment process			YES NO		
	Evaluated the overall treatment flow for efficiency			YES NO		
	Evaluated administrative tasks			YES NO		
	IDENTIFICATION AND PRIORITIZATION OF LIMITING FACTORS		Included in CPE			
	Identified limiting factors to treatment plant's performance			YES NO		
	Prioritized limiting factors based on impact to plant performance		YES NO			
	APPLICABILITY OF COMPREHENSIVE TECHNICAL ASSISTANCE					
	Described required follow up actions based on plant assessment an	rs	YES NO			
	Described the applicability of required follow up actions in a Compr Assistance plan	ical	YES NO			
Part 3: Attachments						
	Ensure the below attachments are included with your Comprehensive Performance Evaluation:					
	and the select attachments are meraded with your comprehensive relief	unoc Evaluation:		Provided with CPE		
	Written Comprehensive Performance Evaluation Report, including a performance, evaluation of major unit processes, identification and factors; applicability of comprehensive technical assistance; and pre	assessment of p	f limiting	YES NO		

Submit completed report to your ADEQ Compliance Assistance Coordinator: https://static.azdeq.gov/comp/dw/coordinator\_contact\_list.pdf **Maricopa County Environmental Service Department** 

Email: sdwquestions@maricopa.gov

Phone: 602-506-6935