

Illinois Environmental Protection Agency

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Monthly Certification to Allow Inactivation Credit Utilizing Ultraviolet Light

Name of Public Water S	supply:					
Facility ID: IL						
Month:	Year:					
Requesting Credit for: log ₁₀		G. Lar	mblia	log ₁₀ C. Pavrum		
	40 m	J/cm² ľ	n ² MS2 RED (groundwater only)			
	he reactors are conside			rough the UV reactors is on-specification. If any of specification. Include any water not meeting the		
Requirement		Yes	No	Comments/Explanation		
Was the UV Intensity monitored continuously and recorded every 4 hours?						
Was the validated dose greater than the required dose ?						
Was the validated dose monitored continuously and recorded every 4 hours?						
Was the flow rate through each reactor monitored continuously and recorded every 4 hours?						
Have the flow meters/totalizing meters been calibrated monthly?						
Were all duty sensors calibrated monthly with a reference sensor?						
Have all reference sensors been calibrated annually?						
Was the UVT duty/online meter(s) calibrated weekly? Were the meters within the acceptable range?						
Were any UV reactor components replaced this month? Were they equal or better than the original components?						
Complete the following	g off-specification info	rmatic	on.			
Requi	rement	Yes	No	Comments/Explanation		
Was there an off-specification event?						
If there was an off-specification event, was it monitored continuously and water volume recorded?						
Did the facility meet the minimum on- specification requirement of 95%? Complete the Compliance Certification at the end of the checklists						

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The following questions deal with maintenance of the UV reactors.

Requirement		No	Comments/Explanation				
Were the lamps on and off cycles monitored and recorded?							
Was time the lamps were in service (energized) monitored and recorded?							
Were the total hours each ballast was energized monitored and recorded?							
Were the total hours each quartz sleeve was in operation monitored and recorded?							
Were the total hours each duty sensor was in operation monitored and recorded?							
Was the water's UVT monitored continuously and recorded every 4 hours?							
Was the water prior to the UV reactors sampled for the following parameters weekly and recorded monthly: iron, calcium, hardness, pH, and oxygen reduction potential?							
Was the power draw per UV reactor monitored continuously and recorded every 4 hours?							
Compliance Certification (from your Summary UV Monthly Report)							
Total volume of "Off-Specification" Water Produced during this Month (mgd)(A):							
Total volume of Water Produced during this Month (mgd)(B):							
"Off-Specification" Water Produced as a % of volume of Water Produced (A/B * 100):							
Facility Meets "Off-Specification" Requirement (<5% of Volume on a Monthly Basis) (Y/N):							
Submit a copy of this certification along with the Summary Monthly Report Form, Daily Operating Log for Calculated Dose, and Off-specification Calculation Worksheets to your IEPA regional office. Submit a copy of this certification to IEPA/BOW/CAS. Be advised that other monthly reports and information are required under your construction permit and must be available to the Agency on demand.							
I certify that the information in this report is complete and accurate to the best of my knowledge:							
Signature of ROINC:			Date:				
Any person who knowingly makes a folio-fictitious, or froudulent material statement, orally or in writing, to the							

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

This Agency is authorized to require this information under 415 ILCS 5. Failure to disclose this information may result in a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This has been approved by the Forms Management Center.

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Section 611. Table J: UV Dose Table for Cryptosporidium, Giardia lamblia and Virus Inactivation Credit.

Log Credit	UV Dose (mJ/cm ³)					
	Cryptosporidium	Giardia lamblia	Virus			
0.5	1.6	1.5	39			
1.0	2.5	2.1	58			
1.5	3.9	3.0	79			
2.0	5.8	5.2	100			
2.5	8.5	7.7	121			
3.0	12	11	143			
3.5	15	15	163			
4.0	22	22	186			