

Disinfection Requirements Rule (DRR) Reporting Instructions: *What's New in Reporting Giardia and Virus Log Inactivation?*

- Upon receipt of the letter, *but no later than May 11*, calculate and report *Giardia* log inactivation at least once/day during the hour of expected peak flow. If *Giardia* log inactivation is less than 1.0, continue to calculate and report at least every 4 hours until value is at or above 1.0. Calculate and report virus log inactivation *if disinfectant other than free chlorine is used to achieve any portion of Giardia inactivation*.
- Beginning with the May data, report daily *Giardia* log inactivation values on the **SDWA-1** form each month (May data must be reported by midnight, June 10th).
 - Report **Contaminant IDs**: *Giardia* Log Inactivation value is **LogG** and **Virus Log Inactivation** value is **LogV**
 - Leave **Analysis Method** and **Analysis Date** blank because the result is calculated.
 - Report calculated *Giardia* Inactivation (LogG) and Virus Inactivation (LogV) **Results** to two decimal places. Truncate digits after the hundredth's place.
 - Report **Location ID** as **Entry Point ID**.
 - Report **Sample Type** as **E – Entry Point**. If plant is not in operation, report **Sample Type** as **N**.
 - Report **Sample Time** as the time when results used in the calculation(s) were collected and analyzed.

Example 1: The certified operator at a water system with conventional filtration and free chlorine primary disinfection calculates *Giardia* log inactivation daily during January, collecting grab samples for pH and temperature and reading the free chlorine residual from the continuous recorder during the hour of peak flow. During a cold snap on January 3rd, the calculated *Giardia* log inactivation is less than 1.0, so the certified operator increases the chlorine dose, and in two hours, the free chlorine residual at the entry point is sufficient to meet the CT for 1-log *Giardia* inactivation. The certified operator calculates the *Giardia* log inactivation a second time on January 3rd. On January 4th, the plant is not in operation.

SDWA 1 - BACTERIOLOGICAL / RESIDUAL DISINFECTANT / TURBIDITY / DBP ANALYSIS

SDWA-1

PWSID	PWS Name	Contam ID	Analysis Method	Result	Analysis Date	Location ID 1	Location ID 2	Sample Date	Sample Type	Sample Time	Lab ID
1234567	Not Found.	LogG		1.52		101		010119	E	0700	11111
1234567	Not Found.	LogG		1.43		101		010219	E	0705	11111
1234567	Not Found.	LogG		0.91		101		010319	E	0715	11111
1234567	Not Found.	LogG		1.11		101		010319	E	0916	11111
1234567	Not Found.	LogG				101		010419	N		11111

Example 2: Water system with primary UV disinfection calculates *Giardia* and virus log inactivation daily during January.

PWSID	PWS Name	Contam ID	Analysis Method	Result	Analysis Date	Location ID 1	Location ID 2	Sample Date	Sample Type	Sample Time	Lab ID	Sample ID
1234567	Not Found.	LogG		39.44		101		010119	E	0705	11111	
1234567	Not Found.	LogV		3.25		101		010119	E	0705	11111	
1234567	Not Found.	LogG		40.22		101		010219	E	0715	11111	
1234567	Not Found.	LogV		3.09		101		010219	E	0715	11111	