

NetDMR Reporting for *E. coli*

E. coli limits in NPDES permits

National Pollutant Discharge Elimination System permits for facilities that discharge into freshwater require *E. coli* monitoring and reporting. The limits are:

- Must not exceed a monthly geometric mean of 126 organisms/100 mL.
- No single sample may exceed 406 organisms/100 mL.

However, the single sample limit does not apply if:

- Additional monitoring is conducted as specified in the permit (typically 5 consecutive re-samples at 4-hour intervals beginning within 28 hours after the original sample was taken); AND
- The geometric mean of the 5 resamples is less than or equal to 126 organisms/100 mL.

Reporting *E. coli* in NetDMR

NetDMR automatically compares the data entered to the permit limits and flags any exceedances. As described above, the single sample limit does not apply under certain circumstances. Accordingly, NetDMR has two rows for reporting *E. coli* monitoring results: row Q (single sample limit applies) and row R (single sample limit does not apply). Note that the monthly limit is the same in both rows Q and R.

You must report data in only one row. **Do not enter monitoring results in both rows Q and R.** Enter the *No Data Indicator Code* “9” in the unused row. NODI code “9” means “Conditional Monitoring – Not Required This Period”.

Row Q (single sample limit applies)

Enter data in row Q and NODI code 9 in row R if:

- Resampling was not performed, regardless of whether any limits are exceeded; **OR**
- Resampling was performed, but did not meet the resampling requirements in the permit; **OR**
- Resampling was performed and the geometric mean of one or more of the resampling events is GREATER than 126 organisms/100mL.

Row R (single sample limit does **not** apply)

Enter data in row R and NODI code 9 in row Q **only** if:

- One or more result is greater than 406 organisms/100mL, **AND**
- Resampling was conducted in accordance with permit requirements; **AND**
- The geometric mean of each resampling event is less than 126 organisms/100mL.

When is an *E. coli* special report required?

You must attach a special report to the NetDMR submittal whenever resampling is conducted. The monthly geometric mean must be calculated using all *E. coli* monitoring results that meet quality assurance and quality control requirements. This includes all results that exceed the single sample limit and all resample results. See example on the following page.

What do I need to include in the *E. coli* special report?

Your *E. coli* resampling special report must contain the following:

1. **Resample Results and Calculations:** For each resampling event, include a table with all 5 of the resample results and calculation of the geometric mean of these five results, AND
2. **Calculation of Monthly Geometric Mean:** A table with all *E. coli* results that pass QA/QC, including the result that exceeded the daily and the 5 resample results, with the calculation of the geometric mean of all these values.

Alternative formats

Documents can be provided upon request in an alternate format for individuals with disabilities or in a language other than English for people with limited English skills. To request a document in another format or language, call DEQ in Portland at 503-229-5696, toll-free in Oregon at 1-800-452-4011, ext. 5696, or email deqinfo@deq.state.or.us.



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Fact Sheet

Example *E. coli* Resampling Special Report

In this example, the resample results are less than 126. Enter NODI code 9 in row Q and enter the data in row R. The monthly geometric mean is 14.5 and the daily maximum is >2420. Note that ">2420" is replaced with the value 2420 and the 5 resample values are included in the monthly geometric mean calculation.

		Date	Time	Result	Resample Geomean
Original Sample -->		9/7/17	8:00 AM	>2420	
		9/8/17	10:05 AM	13.0	↓
		9/8/17	2:10 PM	11.0	
Resamples ----->		9/8/17	6:05 PM	8.6	
		9/8/17	10:01 PM	50.0	
		9/9/2017	2:06 AM	28.5	
Daily Values From DMR (include High Value)	1	9/1/2017			
	2	9/2/2017			
	3	9/3/2017			
	4	9/4/2017			
	5	9/5/2017		8.6	
	6	9/6/2017		344.8	
	7	9/7/2017		2420.0	
	8	9/8/2017			
	9	9/9/2017			
	10	9/10/2017			
	11	9/11/2017		15.6	
	12	9/12/2017		24.1	
	13	9/13/2017		49.6	
	14	9/14/2017			
	15	9/15/2017			
	16	9/16/2017			
	17	9/17/2017			
	18	9/18/2017		3.1	
	19	9/19/2017		2.0	
	20	9/20/2017		3.0	
	21	9/21/2017			
	22	9/22/2017			
	23	9/23/2017			
	24	9/24/2017			
	25	9/25/2017			
	26	9/26/2017		1.0	
	27	9/27/2017		2.0	
	28	9/28/2017		6.3	
	29	9/29/2017			
	30	9/30/2017			
	31				
	Monthly Geometric Mean -->				14.5