



State of Oregon Department of Environmental Quality

NetDMR Reporting Guide for BOD and TSS Mass Loading

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How do I report compliance with mass load limits?

Mass load limits specify the quantity of a pollutant that is discharged by a facility over a specified amount of time, e.g., pounds per day. Mass loading calculations factor in both effluent concentration and flow. In some permits, DEQ suspends daily biochemical oxygen demand (BOD) and total suspended solids (TSS) mass load limits when the daily flow to the facility exceeds twice the average dry weather flow.

What does this look like in NetDMR?

NetDMR setups for permits that have flow-based BOD and TSS mass load limit suspensions have two rows for each daily mass load. **Enter data in one row only. Enter No Data Indicator (NODI) code 9 in the unused row.** The rows are distinguished by unique Monitoring Location Codes (MLCs), which are defined in the DMR Comments section of every NetDMR screen. Various pairs of MLCs can be used (e.g., O and P or S and T); refer to the DMR Comments to determine which row to use for each situation. Below is an example eDMR data entry screen showing the suspended daily BOD mass load limit when facility flow is >40 MGD.

Parameter		NODI	Quantity or Loading		
Code	Name		Value 1	Value 2	Units
00310	BOD, 5-day, 20 deg. C	Smpl.	=	=	26 - lb/d
S - See Comments					
Season: 2		Req.	<=6300 MO AVG	<=13000 DAILY MX	26 - lb/d
NODI: -	9	NODI	9	9	
00310	BOD, 5-day, 20 deg. C	Smpl.	=	=	26 - lb/d
T - See Comments			4320	18000	
Season: 2		Req.	<=6300 MO AVG	Req Mon DAILY MX	26 - lb/d
NODI: -		NODI			
00310	BOD, 5-day, 20 deg. C	Smpl.	=		26 - lb/d
W - See Comments			6400		
Season: 2		Req.	<=9500 WKLY AVG		26 - lb/d
NODI: -		NODI			

Example NetDMR screen for BOD parameters

DMR Comments

O = No resample required or Resample log mean > 126 #/100ml; R = WHEN DAILY LIMIT EXCEEDED AND RESAMPLE IS < 126#/100ML;
S = FLOW TO FACILITY <= 40 MGD; T = FLOW TO FACILITY > 40 MGD W = WEEKLY LIMITS; V = 7-day moving Avg;

MLCs are defined here

How do I know which row to use?

- When the daily flow is less than twice the average daily dry weather flow, use the rows that have limits for both monthly average and daily maximum load (BOD S in Figure 1).
If a daily limit exceedance occurs on a day when the flow is less than twice the average dry weather design flow and the limit applies, enter the data into BOD/TSS row that has the daily limit listed. This is a permit limit exceedance and must be acknowledged when the eDMR is submitted. For example, Figure 1, if the flow was <40 MGD and the BOD daily maximum was 24,000 lbs/d, enter 24,000 lbs/d into BOD S.
- When all daily limit exceedances occur on days when the flow is greater than twice the average dry weather flow, the daily limit does not apply. In these situations, use the row that has a limit for monthly average load and no limit for daily maximum load (BOD T in Figure 1). If a daily limit exceedance occurs and the flow is greater than twice the average dry weather flow, enter the data into the BOD/TSS row that does not have the limit listed. For example, in Figure 1, if the flow is >40 MGD and BOD is 20,000 lbs/d, enter 20,000 lbs/d into BOD T. This is not an exceedance and does not need to be acknowledged when submitting the eDMR.
- For the rows that you did not use to report BOD/TSS measurements, enter *NODI Code 9 - Conditional Monitoring - Not Required This Period*. This is important, because NetDMR will not allow you to submit the form if any data fields are blank.
- Always use Row W to report weekly BOD and TSS load and concentration limits (see below for instructions on how to calculate and report weekly statistics).

Other BOD and TSS NetDMR setups

Some permits have three or more flow criteria with different limits for each. The flow ranges and their corresponding Monitoring Location Codes are defined in the DMR Comments section of every NetDMR data entry screen. When you have multiple rows to report BOD/TSS measurements, use the row that corresponds with the facility's daily maximum flow on the day the measurement was taken. Report *NODI Code 9* in the other rows to ensure there are no blank data entry fields when you submit the eDMR.

How do I calculate and report weekly monitoring in Row W?

Many permits include weekly limits for BOD and TSS. These statistics are calculated based on calendar weeks and whether a week spans two months. Details on calculating weekly average and determining the maximum weekly average are described below.

Calculate the average of all samples taken within a week. Only full weeks are used when calculating weekly average values. A full week begins on Sunday and ends on Saturday. Values from the previous month may be required for calculation of the weekly average for the first week of the month. If the last week of month is not a full week, the weekly average for that week is not reported for that month. For example:

- If you sample twice per week and the two samples are taken in different months, use the last sample of the previous month and the first sample of the current month to calculate the first week's average.
- If the two samples of the last week are in the same month, but part of the week falls within the he next month, no value is reported for that week. The full week is reported the following month.
- If the two samples of the last week are in different months, no value is reported for that week. The two samples will be reported as a full week in the following month.
- If you sample weekly or once every two weeks, enter the highest sample value for the month as the maximum weekly average.

Example Weekly Average Calculations

Date	Day	Measured Value	Weekly Average
2/27	Tue	23.0	21.0
3/1	Thu	19.0	
3/6	Tue	34.0	27.5
3/8	Thu	21.0	
3/13	Tue	37.0	29.0
3/15	Thu	21.0	
3/20	Tue	31.0	30.5
3/22	Thu	30.0	
3/27	Tue	35.0	43.5
3/29	Thu	52.0	

Use last month's sample to calculate the first weekly average of the month.

Because this week ends on 3/31, you include it in March's set of weekly averages. If this week ended in April, you would exclude it from March's set of weekly averages.

Maximum weekly average is determined by calculating each's week's average concentration as described above and reporting the highest weekly average.

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, or toll-free in Oregon at 1-800-452-4011, ext. 5696; or email deqinfo@deq.state.or.us.

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