



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF CLEAN WATER  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS

NAME Eureka Resources, LLC  
ADDRESS 315 Second Street  
Williamsport, PA 17701  
FACILITY Eureka Resources - Susquehanna Facility  
LOCATION Dimock Township  
Susquehanna County  
WATERSHED 4-G

**PA0276405**  
PERMIT NUMBER

**001**  
OUTFALL NUMBER

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY

Reporting Frequency: Monthly  
DMR Effective From: February 1, 2022  
DMR Effective To: January 31, 2027  
Permit Expires: January 31, 2027  
Permit Application Due: August 4, 2026

Check Here if No Discharge

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PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Flow	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	Report Avg Mo	Report Daily Max	MGD	XXX	XXX	XXX	XXX		Continuous	Measured
pH	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	6.0 Inst Min	XXX	9.0 IMAX	S.U.		1/day	Grab
Dissolved Oxygen	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	6.0 Inst Min	XXX	XXX	mg/L		1/day	Grab
Temperature Increase (deg F)	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	XXX	2.0 IMAX	°F		1/month	I-S
Biochemical Oxygen Demand (BOD5)	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	53.0 Avg Mo	163 Daily Max	mg/L		1/week	24-Hr Composite
Total Suspended Solids	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	61.3 Avg Mo	216 Daily Max	mg/L		1/week	24-Hr Composite

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).	TELEPHONE		DATE		
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Total Dissolved Solids	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	500 Avg Mo	1000 Daily Max	mg/L		1/week	24-Hr Composite
Osmotic Pressure	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	Report Avg Mo	Report Daily Max	mOs/kg		1/week	24-Hr Composite
Oil and Grease	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	15.0 Avg Mo	30.0 Daily Max	mg/L		1/day	Grab
Nitrate-Nitrite as N	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	Report Avg Mo	XXX	lbs/day	XXX	Report Avg Mo	XXX	mg/L		1/week	24-Hr Composite
Total Nitrogen	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	Report Avg Mo	XXX	lbs/day	XXX	Report Avg Mo	XXX	mg/L		1/month	Calculation
Ammonia-Nitrogen	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	Report Avg Mo	XXX	lbs/day	XXX	1.44 Avg Mo	2.88 Daily Max	mg/L		1/week	24-Hr Composite

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Total Kjeldahl Nitrogen	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	Report Avg Mo	XXX	lbs/day	XXX	Report Avg Mo	XXX	mg/L		1/week	24-Hr Composite
Total Phosphorus	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	Report Avg Mo	XXX	lbs/day	XXX	Report Avg Mo	XXX	mg/L		1/week	24-Hr Composite
Antimony, Total	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	0.0058 Avg Mo	0.0091 Daily Max	mg/L		1/week	24-Hr Composite
Arsenic, Total	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	0.0104 Avg Mo	0.0162 Daily Max	mg/L		1/week	24-Hr Composite
Barium, Total	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	2.5 Avg Mo	3.9 Daily Max	mg/L		1/week	24-Hr Composite
Cadmium, Total	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	0.00003 Avg Mo	0.00004 Daily Max	mg/L		1/week	24-Hr Composite

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Chromium III, Total	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	0.0076 Avg Mo	0.0119 Daily Max	mg/L		1/week	24-Hr Composite
Chromium, Hexavalent	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	0.0108 Avg Mo	0.0169 Daily Max	mg/L		1/week	24-Hr Composite
Cobalt, Total	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	0.0198 Avg Mo	0.0309 Daily Max	mg/L		1/week	24-Hr Composite
Copper, Total	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	0.00074 Avg Mo	0.00086 Daily Max	mg/L		1/week	24-Hr Composite
Iron, Dissolved	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	Report Avg Mo	Report Daily Max	mg/L		1/week	24-Hr Composite
Lead, Total	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	0.00007 Avg Mo	0.00011 Daily Max	mg/L		1/week	24-Hr Composite

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Mercury, Total	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	0.00005 Avg Mo	0.00008 Daily Max	mg/L		1/week	24-Hr Composite
Nickel, Total	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	0.0042 Avg Mo	0.0066 Daily Max	mg/L		1/week	24-Hr Composite
Selenium, Total	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	0.0052 Avg Mo	0.0081 Daily Max	mg/L		1/week	24-Hr Composite
Silver, Total	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	0.00002 Avg Mo	0.00002 Daily Max	mg/L		1/week	24-Hr Composite
Strontium, Total	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	4.1 Avg Mo	6.5 Daily Max	mg/L		1/week	24-Hr Composite
Sulfate, Total	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	Report Avg Mo	Report Daily Max	mg/L		1/month	24-Hr Composite

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Uranium, Total	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	Report Avg Mo	Report Daily Max	mg/L		1/month	24-Hr Composite
Thallium, Total	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	0.0002 Avg Mo	0.0003 Avg Mo	mg/L		1/week	24-Hr Composite
Zinc, Total	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	0.0093 Avg Mo	0.0097 Daily Max	mg/L		1/week	24-Hr Composite
o-Cresol	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	0.561 Avg Mo	1.92 Daily Max	mg/L		1/week	24-Hr Composite
2,4,6-Trichlorophenol	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	0.0023 Avg Mo	0.0036 Daily Max	mg/L		1/week	24-Hr Composite
Phenol	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	1.08 Avg Mo	3.65 Daily Max	mg/L		1/week	4 Grabs/24 Hours

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Acetone	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	3.64 Avg Mo	5.68 Daily Max	mg/L		1/week	4 Grabs/24 Hours
Acetophenone	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	0.0562 Avg Mo	0.114 Daily Max	mg/L		1/week	24-Hr Composite
Benzene	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	0.0009 Avg Mo	0.0014 Daily Max	mg/L		1/week	4 Grabs/24 Hours
BTEX, Total	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	0.1 Avg Mo	0.2 Daily Max	mg/L		1/month	Calculation
Chloride	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	250.0 Avg Mo	500.0 Daily Max	mg/L		1/week	24-Hr Composite
Bromide	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	Report Avg Mo	Report Daily Max	mg/L		1/week	24-Hr Composite

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2-Butanone	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	1.85 Avg Mo	4.81 Daily Max	mg/L		1/week	4 Grabs/24 Hours
p-Cresol	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	0.167 Avg Mo	0.260 Daily Max	mg/L		1/week	24-Hr Composite
Pyridine	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	0.182 Avg Mo	0.370 Daily Max	mg/L		1/week	4 Grabs/24 Hours
Gross Alpha Radioactivity	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	Report Avg Mo	Report Daily Max	pCi/L		1/week	24-Hr Composite
Radium-226 and Radium-228, Total	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	Report Avg Mo	Report Daily Max	pCi/L		1/week	24-Hr Composite

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Total Nitrogen (Total Load, lbs)	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	Report Total Annual	lbs	XXX	XXX	XXX	XXX		1/year	Calculation
Total Nitrogen (Total Load, lbs) Effluent Net	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	0.0 Total Annual	lbs	XXX	XXX	XXX	XXX		1/year	Calculation
Total Phosphorus (Total Load, lbs)	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	Report Total Annual	lbs	XXX	XXX	XXX	XXX		1/year	Calculation
Total Phosphorus (Total Load, lbs) Effluent Net	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	0.0 Total Annual	lbs	XXX	XXX	XXX	XXX		1/year	Calculation

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TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	COMMENTS (Report all violations on the "Non-Compliance Reporting Form")				



PERMITTEE NAME/ADDRESS

COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF CLEAN WATER  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

NAME Eureka Resources, LLC  
ADDRESS 315 Second Street  
Williamsport, PA 17701  
FACILITY Eureka Resources - Susquehanna Facility  
LOCATION Dimock Township  
Susquehanna County  
WATERSHED 4-G

**PA0276405**  
PERMIT NUMBER

**001**  
OUTFALL NUMBER

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY

Reporting Frequency: Quarterly  
DMR Effective From: February 1, 2022  
DMR Effective To: January 31, 2027  
Permit Expires: January 31, 2027  
Permit Application Due: August 4, 2026

Check Here if No Discharge  
NOTE: Read Instructions before completing this form

PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
1,4-Dioxane	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	Report Avg Qrtly	XXX	mg/L		1/quarter	24-Hr Composite

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COMMENTS (Report all violations on the "Non-Compliance Reporting Form")							



## INSTRUCTIONS FOR COMPLETING DISCHARGE MONITORING REPORTS (DMRs)

### General

One or more Discharge Monitoring Reports (DMRs) are attached to your permit for reporting the results of self-monitoring activities as required by your permit. If required by your permit, you must use Department of Environmental Protection's (DEP's) [electronic DMR \(eDMR\) system](#) to submit results. If you are required to use eDMR, these physical forms should only be used under the following circumstances:

1. For a permittee that is not yet using the eDMR system, the permittee shall submit a physical copy of a DMR to the DEP regional office that issued the permit during the interim period between the submission of registration and trading partner agreement forms to DEP and DEP's notification to begin using the eDMR system.
2. For any permittee, as a contingency a physical DMR may be mailed to the DEP regional office that issued the permit if there are technological malfunction(s) that prevent the successful submission of a DMR through the eDMR system. In such situations, the permittee shall submit the DMR through the eDMR system within 5 days following remedy of the malfunction(s).

You should make copies of the DMRs for your ongoing use, unless you participate in the eDMR program.

- Reporting frequencies will vary depending on the monitoring frequencies listed in your permit, and are generally monthly, quarterly, semi-annually and annually.
- Your reports must be received by DEP on the 28<sup>th</sup> day of the month following the end of the reporting period, unless otherwise specified in Part C of your permit.
- Your permit may require submission of DMRs to other agencies, including the U.S. Environmental Protection Agency (EPA).
- DMRs will generally include pre-populated information for permittee name and address, facility location, permit number, outfall number, permit expiration date, parameter names, and permit requirements. If you identify any errors on a DMR issued by DEP, please contact the DEP regional office that issued your permit. **DO NOT make changes to DMRs issued to you.**
- You may use computer-generated replicas of Form No. 3800-FM-BCW0462 if you receive prior approval from DEP. **DEP reserves the right to instruct you to discontinue the submission of computer-generated DMRs if the permit requirements you entered on the form are inaccurate.**

### Instructions

1. Enter statistical results into each blank field below the "VALUE" column headers. Results must be reported in the same units shown on the DMR.
2. Sum the total number of excursions or exceedances of permit limits across the row for each parameter and enter the value into the "NO. EX" field. For example, if the permit contains limits of 6.0 S.U. (Minimum) and 9.0 S.U. (Maximum) for pH, and the Minimum and Maximum results are 5.9 S.U. and 9.1 S.U., respectively, enter "2" into the "NO. EX" field.
3. Report the actual sampling frequency and sample type utilized during the reporting period in the fields corresponding to "Frequency of Analysis" and "Sample Type", respectively.
4. Type the name of the principal executive officer (or an authorized agent designated by a principal executive officer) who is taking responsibility for the report, sign the report (should be in ink), enter the telephone number of the responsible individual, and record the date that the report was signed. Mail only original, signed copies of DMRs.

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**Geometric Mean** – Report the average of a set of  $n$  sample results given by the  $n$ th root of their product. If any result is zero (0), substitute 1 for the calculation. For example, five samples were analyzed with the following results: 20, 300, 400, 500, and 0. The calculation of geometric mean is as follows (note that you will need to use the power function on a calculator):

$$\sqrt[5]{20 \cdot 300 \cdot 400 \cdot 500 \cdot 1} = \sqrt[5]{1,200,000,000} = (1,200,000,000)^{1/5} = 65$$

## **Non-Detect Data**

### **Conventional and Toxic Parameters**

For calculating average values of data sets in which there are some “detections” (results at or above the laboratory quantitation limit) and some “non-detect” data (results reported below the laboratory quantitation limit), use the value of the quantitation limit for non-detect data. In other words, ignore the less than (<) symbol for statistical calculations and include the < symbol with the statistical result if there is at least one non-detect result in the data set. For example, four samples were analyzed with the following results: < 1.0, 2.0, < 1.0, and 1.0. The average statistical result is < 1.3.

Estimated values (i.e., values flagged with a “J” qualifier) should not be used for compliance purposes.

### **Bacteria Parameters**

Report all “non-detect” (e.g., < 2) and “too numerous to count” (TNTC) (e.g., > 2,000) results on DMR supplemental forms as reported by the laboratory. Do not report “TNTC” on supplemental forms, but instead report a value qualified with the “>” symbol. Where a data set includes one or more “non-detect” and/or TNTC results, calculate the geometric mean by ignoring qualifying symbols, but report the value with the symbol. If a data set includes both “>” and “<” qualifiers, the “>” qualifier takes precedence for reporting. For all “non-detect” values, specify in the Comments section of the DMR the maximum volume filtered at the laboratory. Note that DEP considers a DMR with reported values qualified by the “>” symbol for bacteria parameters to be a non-compliance.

*Example 1* – For results are determined, < 2, 10, 20, and 30. The geometric mean should be reported as <  $(2 \cdot 10 \cdot 20 \cdot 30)^{0.25} = < 10$ . Specify the maximum volume filtered for the < 2 result in the DMR Comments.

*Example 2* – Three results are determined, < 2, 1,000, and > 2,000. The geometric mean should be reported as >  $(2 \cdot 1,000 \cdot 2,000)^{0.333} = > 158$ .

## **Rounding and Precision**

Statistical values reported on the DMR should be rounded to the same number of decimal places as the limit for the parameter as set forth in the permit. If the permit does not contain a limit but requests monitoring only, statistical values for concentration results should be rounded to the maximum number of decimal places in the data set as reported by the laboratory or the instrument used for analysis. If mass loads must be reported and there is no limit, round statistical values to the nearest whole number, unless the calculated number is less than one, in which case the value should be rounded to one significant figure (e.g., 0.1, 0.05, etc.). If the number you are rounding is followed by 5, 6, 7, 8, or 9, round the number up, otherwise round down.

**DEP’s “Discharge Monitoring Reports: A Guide to Electronic and Paper DMR Reporting” (3800-BK-DEP3047) publication contains more information and are incorporated by reference. This document is available on DEP’s website.**