precipitation that occurred each day. A **Land Application Systems Supplemental Report** properly completed and signed by the treatment plant operator in charge must be submitted together with the Monthly DMR for the months in which spray irrigation has occurred.

3. In accordance with Condition 4. of the attached Consent Decree filed April 18, 2012, the Authority is authorized to discharge up to 0.40 MGD (30 day average) of treated wastewater effluent to Forest Hills Run, unless and until Monitoring Station 2 and Monitoring Station 3 attain a bioassessment benthic macroinvertebrate score greater than 83% of Monitoring Station 1, based on RBP, and Monitoring Station 2 and Monitoring Station 3 attain aquatic life use, based on IBI, in which case the Authority's 30 day average discharge flow of wastewater from the treatment facility to Forest Hills Run may exceed 0.40 MGD but shall not exceed 0.50 MGD. The five (5) spray areas, when completed, will provide a peak seasonal spray capacity of at least 0.50 MGD. The 30 day average wastewater flow associated with the Part II Permit Application for Spray Irrigation System and Wastewater Treatment Plant Improvements approval is up to 0.40 MGD, unless the Department advises Mount Pocono Municipal Authority (MPMA) in writing in accordance with Part C I. of the terms and conditions of NPDES Permit No. PA0044997 that the 30 day average wastewater flow is approved up to 0.50 MGD.

4. Spray irrigation may occur on March 15th through November 15th each year at a loading rate not to exceed the limits given in the following tables for Phases I, II and III of the project. The Spray Area consists of 5 areas (E1, F1, H1, J1 and J2). Spray Areas E1, F1 and H1 have four zones each. Spray Areas J1 and J2 together make 4 zones. The zones within each spray area have comparable number of sprinkler heads arranged in groups. During the spray operation, effluent sewage is applied to only one zone in each spray area per day. The sprayed zone is allowed to rest for three days before it is re-sprayed again. Spray application within a zone is operated in groups of heads and the spray is applied to a group in the zone at a rate of no more than 1/8th inch within one hour. Once all the groups in a zone are sprayed, the system repeats spraying the groups in the next hour. This is repeated until the target daily flow for that spray area is applied. The loading rates represent a maximum allowable loading rate based on a water balance calculated for the site.

SPECIAL CONDITIONS (cont.)
Water Quality Management Permit No. 4515401
Mount Pocono Municipal Authority

TABLE 1
Spray Areas Loading Rate in inches/week:

	Spray Areas Loading Rate, inches/week				
	Phase I		**Phase II**	**Phase III**	
	Area E1	**Area F1**	**Area H1**	**Area J1**	**Area J2**
Month	**17 Acres**	**33.25 Acres**	**18.49 Acres**	**8.6 Acres**	**2.25 Acres**
January	0	0	0.00	0	0
February	0	0	0.00	0	0
March	1.00	1.00	0.70	1.00	1.00
April	2.00	2.00	0.89	2.00	2.00
May	2.00	2.00	1.14	2.00	2.00
June	2.00	2.00	1.65	2.00	2.00
July	2.00	2.00	1.75	2.00	2.00
August	2.00	2.00	1.59	2.00	2.00
September	2.00	2.00	1.24	2.00	2.00
October	2.00	2.00	1.07	2.00	2.00
November	1.00	1.00	0.50	1.00	1.00
December	0	0	0.00	0	0

SPECIAL CONDITIONS (cont.)
Water Quality Management Permit No. 4515401

Mount Pocono Municipal Authority

TABLE 2

Spray Areas Loading Rate in gallons/week:

Month	Spray Area Loading Rate, gallons/week					
	Phase I		Phase II	Phase III		
	Area E1	Area F1	Area H1	Area J1	Area J2	Total
	17 Acres	33.25 Acres	18.49 Acres	8.6 Acres	2.25 Acres	79.59 Acres
January	0	0	0	0	0	**0**
February	0	0	0	0	0	**0**
March	461,618	902,871	351,762	233,524	61,097	**2,010,872**
April	923,236	1,805,741	445,062	467,049	122,193	**3,763,281**
May	923,236	1,805,741	572,731	467,049	122,193	**3,890,950**
June	923,236	1,805,741	826,002	467,049	122,193	**4,144,221**
July	923,236	1,805,741	879,571	467,049	122,193	**4,197,790**
August	923,236	1,805,741	799,644	467,049	122,193	**4,117,863**
September	923,236	1,805,741	624,914	467,049	122,193	**3,943,133**
October	923,236	1,805,741	536,975	467,049	122,193	**3,855,194**
November	461,618	902,871	249,933	233,524	61,097	**1,909,043**
December	0	0	0	0	0	**0**

SPECIAL CONDITIONS (cont.)
Water Quality Management Permit No. 4515401
Mount Pocono Municipal Authority

TABLE 3
Spray Area Zones Loading Rate in gallons/week:

Spray Area	Spray Area Zones		Spray Area Zones Loading Rate, gal/week											
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
F1	Loading, inch/week→		*(0)*	*(0)*	*(1.00)*	*(2.00)*	*(2.00)*	*(2.00)*	*(2.00)*	*(2.00)*	*(2.00)*	*(2.00)*	*(1.00)*	*(0)*
	1	9.55 Acres	0	0	259,321	518,641	518,641	518,641	518,641	518,641	518,641	518,641	259,321	0
	2	7.19 Acres	0	0	195,237	390,475	390,475	390,475	390,475	390,475	390,475	390,475	195,237	0
	3	8.10 Acres	0	0	219,947	439,895	439,895	439,895	439,895	439,895	439,895	439,895	219,947	0
	4	8.41 Acres	0	0	228,365	456,730	456,730	456,730	456,730	456,730	456,730	456,730	228,365	0
	Total	**33.25 Acres**	**0**	**0**	**902,871**	**1,805,741**	**1,805,741**	**1,805,741**	**1,805,741**	**1,805,741**	**1,805,741**	**1,805,741**	**902,871**	**0**
E1	Loading, inch/week→		*(0)*	*(0)*	*(1.00)*	*(2.00)*	*(2.00)*	*(2.00)*	*(2.00)*	*(2.00)*	*(2.00)*	*(2.00)*	*(1.00)*	*(0)*
	1	4.6 Acres	0	0	124,908	249,817	249,817	249,817	249,817	249,817	249,817	249,817	124,908	0
	2	4.02 Acres	0	0	109,159	218,318	218,318	218,318	218,318	218,318	218,318	218,318	109,159	0
	3	3.39 Acres	0	0	92,052	184,104	184,104	184,104	184,104	184,104	184,104	184,104	92,052	0
	4	4.96 Acres	0	0	134,684	269,368	269,368	269,368	269,368	269,368	269,368	269,368	134,684	0
	Total	**16.97 Acres**	**0**	**0**	**460,803**	**921,607**	**921,607**	**921,607**	**921,607**	**921,607**	**921,607**	**921,607**	**460,803**	**0**
H1	Loading, inch/week→		*(0)*	*(0)*	*(0.70)*	*(0.89)*	*(1.14)*	*(1.65)*	*(1.75)*	*(1.59)*	*(1.24)*	*(1.07)*	*(0.50)*	*(0)*
	1	5.23 Acres	0	0	99,498	125,888	162,000	233,639	248,792	226,184	176,760	151,886	70,695	0
	2	4.02 Acres	0	0	76,478	96,763	124,520	179,585	191,232	173,855	135,866	116,746	54,339	0
	3	4.37 Acres	0	0	83,137	105,188	135,362	195,221	207,881	188,991	147,695	126,911	59,070	0
	4	4.87 Acres	0	0	92,649	117,223	150,849	217,557	231,666	210,615	164,593	141,431	65,829	0
	Total	**18.49 Acres**	**0**	**0**	**351,762**	**445,062**	**572,731**	**826,002**	**879,571**	**799,644**	**624,914**	**536,975**	**249,933**	**0**
J2	Loading, inch/week→		*(0)*	*(0)*	*(1.00)*	*(2.00)*	*(2.00)*	*(2.00)*	*(2.00)*	*(2.00)*	*(2.00)*	*(2.00)*	*(1.00)*	*(0)*
	1	**2.25 Acres**	**0**	**0**	**61,097**	**122,193**	**122,193**	**122,193**	**122,193**	**122,193**	**122,193**	**122,193**	**61,097**	**0**
J1	2	2.37 Acres	0	0	64,355	128,710	128,710	128,710	128,710	128,710	128,710	128,710	64,355	0
	3	3.38 Acres	0	0	91,781	183,561	183,561	183,561	183,561	183,561	183,561	183,561	91,781	0
	4	2.85 Acres	0	0	77,389	154,778	154,778	154,778	154,778	154,778	154,778	154,778	77,389	0
	Total	**8.6 Acres**	**0**	**0**	**233,524**	**467,049**	**467,049**	**467,049**	**467,049**	**467,049**	**467,049**	**467,049**	**233,524**	**0**

SPECIAL CONDITIONS (cont.)
Water Quality Management Permit No. 4515401
Mount Pocono Municipal Authority

5. Spray irrigation shall not occur under the following conditions which limit or prohibit spray irrigation: (a) heavy precipitation conditions exist defined by more than one-half (0.5) inch of rainfall within 24 hour period; (b) the snow cover exceeds one (1) inch in depth; (c) the ground surface is frozen, i.e., soil temperature one-inch below soil surface falls below 40 degrees Fahrenheit; and (d) soil moisture is at field capacity.

6. Although the Consent Decree does not prevent the Authority from land applying treated wastewater to the property earlier than March 15th and later than November 15th if conditions permit, the Authority has elected to deactivate the system during this time period each year. Page 2-3 of the Engineer's Report, last revised June 2016, states the system will be deactivated and winterized from November 16th through March 14th each year. However, spray irrigation may be temporarily allowed under extenuating circumstances during the period of November 16th through March 14th, when Special Condition No. 5 is met and provided the Department has concurred with a written request which provides data comparing current rainfall and evapotranspiration conditions to the design data which justify the increased loading rates.

As per the Consent Decree, treated wastewater may be stream discharged on non-spray days between March 15th and November 15th when conditions limit or prohibit spray irrigation. See Special Condition No. 5 for the factors that limit or prohibit spray irrigation. In addition to the limiting conditions given in Special Condition No. 5, the following two conditions also allow stream discharge as specified in the Consent Decree: A) a land application system failure and B) when MPMA has land applied treated wastewater from the facility to the property/Spray Area to the greatest extent that the Water Quality Management Part II Permit and site conditions allow. When effluent is stream discharged during non-spray days between March 15th and November 15th, a monthly Discharge Monitoring Report must be completed and submitted in accordance with the reporting requirements found in Special Condition A. I. Include a supplemental form with the DMR indicating the days that the effluent was stream discharged.

7. In the situation of unusual heavy precipitation conditions between March 15th and November 15th, as defined in Special Condition No. 5, MPMA must notify PADEP within 48 hours of the end of the precipitation event that triggers a stream discharge. During unusual winter-like conditions between March 15th and November 15th, as defined in Special Condition No. 5, MPMA must notify PADEP five (5) days in advance of its intent to suspend land application prior to November 15th or to resume land application after March 15th. In the case of a land application system failure, MPMA must submit documentation to PADEP that confirms the land application system has failed.

8. A minimum radius of five (5) feet area surrounding each sprinkler head shall be kept clear of vegetation obstructing the water stream from the nozzles.

9. A fifty (50) foot buffer zone around the spray area shall be maintained under forest.

10. A wood land management program must be instituted for the MPMA spray irrigation system with initial woodlot survey conducted before the spray irrigation system becomes operational for the first time and with the woodlot survey updated every 10 years. Harvesting a minimum of the

tree stems (logs) should be conducted in accordance with the woodland management plan. The harvesting operation shall consist of selective harvesting. Records shall be kept of the removal activity including the date, number, parts and size of trees removed and the equipment utilized.

11. Construction activities associated with distribution systems can greatly alter the infiltration rate of spray area soils. Construction disturbance within spray areas must be minimized. Excessive compaction of surface soils by construction equipment must be avoided. Re-grading of pipeline trenches must match original contours. Subsidence of trench backfill must be repaired as this promotes channelization of runoff and erosion.

12. Upon completion of construction, a Pennsylvania registered Professional Engineer must inspect and certify, in writing and through submission of "as-built" plans to the Department, that the project was constructed in accordance with the approved plans and specifications.

13. Five years from the date of issuance of this permit, and each subsequent five-year period, the facility shall submit a report to the Department summarizing the effectiveness of the spray system. The report shall include summary reports providing groundwater quality data from bi-annual events, groundwater elevation data and maps, and a narrative discussion including tables and maps. The narrative report shall evaluate the overall operation of the system demonstrating its effectiveness. If modification to the operation is proposed, details must be submitted in the report and WQM Permit No. 4515401 may be extended and amended to include refined loading rates.

B. Groundwater Monitoring

1. The Monitoring Plan will include the monitoring and testing of the six (6) existing on-site water wells that will be converted into stabilized boreholes and six (6) new monitoring wells. The six (6) new monitoring wells will include five (5) new consolidated aquifer monitoring wells and one (1) new unconsolidated monitoring well. The new unconsolidated monitoring well will be constructed near MW1.

2. After the new monitoring wells have been drilled, constructed, developed and permitted to set undisturbed for at least one week and the existing wells have been modified, purged, and secured, the static water level in the new and existing monitoring wells will be documented.

3. The monitoring wells will be purged, using a low-flow, purging technique. During the purging process, the pH, conductivity and temperature of the water will be documented and the dynamic water level recorded. When the water quality from the wells stabilizes, a series of water quality samples will be collected and submitted to a certified laboratory for testing.

4. The water quality samples will be tested by a certified laboratory for fecal coliform, total dissolved solids, chloride, nitrite, nitrate, ammonia-N, total Kjeldahl nitrogen, sodium, MBAS and CBOD.

5. The findings from the implementation of the work plan will be compiled into a summary report that will be submitted to the Department. This report will be prepared by a licensed professional geologist and will be submitted prior to the operation of the spray irrigation system.

6. The long-term monitoring will include bi-annual monitoring of the on-site monitoring wells during April and October.

7. The bi-annual testing results are to be submitted with the preceding month's DMR.

C. Phase IV of the project

If within 365 days of final completion of Phase III of the Project or any time thereafter Monitoring Station 2 and Monitoring Station 3 do not attain a bioassessment benthic macroinvertebrate score greater than 83% of Monitoring Station 1, based on RBP, or Monitoring Station 2 and Monitoring Station 3 do not attain aquatic life use, based on IBI, the Authority will, within 30 months, install equipment sufficient to cool the discharge from the Facility to Forest Hills Run to the degree necessary for the Authority to comply with the temperature limits in the Permit, or with any more stringent temperature limits in any subsequent NPDES permit or renewal or revision issued to the Authority authorizing the Authority to discharge wastewater from the Facility to Forest Hills Run.

D. If there is a conflict between the above special conditions and the attached Consent Decree, the conditions of the Consent Decree shall govern.

3800-FM-BPNPSM0462 3/2012

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF POINT AND NON-POINT SOURCE MANAGEMENT

DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS

NAME: Mount Pocono Municipal Authority
ADDRESS: 1361 Pocono Boulevard, Suite 101
Mount Pocono, PA 18344
FACILITY: Mount Pocono Municipal Authority WWTP and Spray Irrigation System
LOCATION: Mount Pocono Borough
Monroe County
WATERSHED: 01E

4515401	
PERMIT NUMBER	OUTFALL NUMBER

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY

Reporting Frequency: Monthly
DMR Effective From: December 14, 2016
DMR Effective To: December 13, 2021
Permit Expires: December 13, 2021
Permit Application Due: n/a
___ Check Here if No Discharge
NOTE: Read Instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Flow; spray out effluent	SAMPLE MEASUREMENT			MGD	XXX	XXX	XXX	XXX		Daily	Measured (meter reading)
	PERMIT REQUIREMENT	Report Avg Mo	Report Daily Max		XXX	XXX	XXX				
$CBOD_5$	SAMPLE MEASUREMENT	XXX	XXX	XXX	XXX			mg/L		1/week	8-Hr Composite
	PERMIT REQUIREMENT	XXX	XXX		XXX	10 Avg Mo	20 IMAX				
Total Suspended Solids	SAMPLE MEASUREMENT	XXX	XXX	XXX	XXX			mg/L		1/week	8-Hr Composite
	PERMIT REQUIREMENT	XXX	XXX		XXX	30 Avg Mo	60 IMAX				
Total Nitrogen	SAMPLE MEASUREMENT	XXX	XXX	XXX	XXX			mg/L		1/week	8-Hr Composite
	PERMIT REQUIREMENT	XXX	XXX		XXX	13.8 Avg Mo	27.6 IMAX				
pH	SAMPLE MEASUREMENT	XXX	XXX	XXX		XXX		S.U.		1/day	Grab
	PERMIT REQUIREMENT	XXX	XXX		6.0 Min	XXX	9.0 Max				
Fecal Coliform	SAMPLE MEASUREMENT	XXX	XXX	XXX	XXX		XXX	CFU/ 100 ml		1/week	Grab
	PERMIT REQUIREMENT	XXX	XXX		XXX	200 Geo Mean	XXX				

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		
			AREA CODE	NUMBER	YEAR	MO	DAY
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT					

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

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DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF POINT AND NON-POINT SOURCE MANAGEMENT

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. You should make copies of the DMRs for your ongoing use, unless you elect to participate in the Department of Environmental Protection's (DEP's) electronic DMR (eDMR) program (see www.dep.state.pa.us/edmr).

- 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 28th 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).
- If you receive DMRs in the mail from EPA, please discontinue use of DMR Form No. 3800-FM-BPNPSM0462 and begin using EPA's DMRs.
- 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. If you identify any errors on a DMR issued by EPA, please contact DEP's Central Office at 717-787-6744. **DO NOT make changes to DMRs issued to you.**
- You may use computer-generated replicas of Form No. 3800-FM-BPNPSM0462 or of EPA's DMR if you receive prior approval from DEP and EPA. **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.
5. In the Comments section at the bottom of the DMR, you may write a brief summary of violations in this section; however, DEP requests that all violations during the monitoring period be reported in more detail on DEP's **Non-Compliance Reporting Form** (3800-FM-BPNPSM0440) and be submitted as an attachment to the DMR. Other uses of the Comments Section include explanations of attachments to the DMR, explanations for the unavailability of data, and brief summaries of issues that have affected operations or effluent quality during the monitoring period. Always consider attaching a letter or separate document to explain your situation in more detail.

No Discharge or No Data Available

If there was no discharge at all from an outfall during the monitoring period, check the "No Discharge" box on the top of the DMR. Complete the information above and below the table and mail the DMR to the appropriate agencies. Be sure to sign and date the DMR.

If there was no discharge of a specific parameter (e.g., if a chlorine limit is in the permit but chlorine was not used for disinfection during the entire reporting period), or if data are not available for a specific parameter for the entire reporting period, do not leave the DMR blank. Instead, report one of the following No Data Indicator (NODI) codes that apply to your situation in the appropriate value field, and **provide an explanation as an attachment to the DMR**:

A Use if you are exempted from monitoring the parameter because of a General Permit condition.

E Use if all samples or results are not available for the reporting period due to equipment failure or because sample collection was overlooked or samples could not be collected for the parameter.

GG Use if your permit requires sample collection and analysis only under certain conditions and those conditions were not met during the reporting period (e.g., report chlorine results only when chlorination system is used).

FF Other: use if there is any reason for the absence of data that is not covered by those above.

If you have at least one result for a parameter, the value should be reported and not a NODI code.

Calculations

The following explains how to calculate statistical values that are commonly required by permits:

Monthly Average – For Loading (lbs/day), sum the total of daily loadings and divide by the number of samples during the month. To calculate the daily loading, multiply the daily concentration (mg/l) by the flow (MGD) on the date of sampling and a conversion factor of 8.34. For Concentration, sum the total of daily concentrations and divide by the number of samples.

Weekly Average – For Loading (lbs/day), sum the total of average daily loadings during each week of the reporting period (beginning on a Sunday and ending on a Saturday) and divide by the number of samples during the week. For Concentration, sum the total of daily concentrations each week and divide by the number of samples. Report the maximum weekly average on the DMR.

Maximum Daily ("Daily Max") – Report the maximum concentration or load measured during a 24-hour period during the reporting period; if multiple measurements are taken daily, include all data in the analysis.

Instantaneous Maximum ("IMAX") – Report the maximum result obtained by a grab sample for a specific pollutant over the entire reporting period covered by a DMR.

Instantaneous Minimum ("Minimum") – Report the minimum result obtained by a grab sample for a specific pollutant over the entire reporting period covered by a DMR.

Total Monthly Load (lbs) – Sum the total of average daily loadings, divide by the number of samples during the month, and multiply by the number of days in the month.

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):

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

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 reporting limit) and some "non-detect" data (results reported below the laboratory reporting limit), use the reporting 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.

Where the permit includes an effluent limitation for a parameter that is less than the most sensitive detection limit available, and the laboratory reports a value at or below the lowest level specified by the permit, you may use zero (0) in the calculation in lieu of the reporting limit, if the parameter is identified in 25 Pa. Code Chapter 16, Appendix A, Tables 2A and 2B. In general, parameters with limitations that are less than the most sensitive detection limit will be identified in Part C of the permit, if applicable.

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.

Example 1 – For results are determined, < 2, 10, 20, and 30. The geometric mean should be reported as $< (2 \bullet 10 \bullet 20 \bullet 30)^{0.25} = < 10$. 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 $> (2 \bullet 1{,}000 \bullet 2{,}000^{0.333} = > 158$.

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.

The documents "Discharge Monitoring Reports Overview and Summary" (3800-BK-DEP3047) and "Management of Non-Detect Results for Discharge Monitoring Reports" (3800-FS-DEP4262) contain more information and are incorporated by reference. These documents are available on DEP's website.

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF POINT AND NON-POINT SOURCE MANAGEMENT

SUPPLEMENTAL REPORT
LAND APPLICATION SYSTEMS

Facility Name: Mount Pocono Municipal Authority WWTP
Municipality: Mount Pocono Borough County: Monroe
Watershed: 01E

Month: _____ Year: _____
Permit No.: 4515401 Outfall No.: _____
This permit will expire 5 years from issuance date
(refer to Condition 6 on page 1 of the WQM Permit)

Day	Zone: Acres: Gallons	Zone: Acres: Gallons	Zone: Acres: Gallons	Zone: Acres: Gallons	Zone: Acres: Gallons	Precipitation Inches	Precipitation Type	Average Temp °F	Ground Conditions (Wet, Dry, Frozen)
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
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21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
Totals:									

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).

Prepared By: _____ Signature: _____
Title: _____ Date: _____

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INSTRUCTIONS FOR COMPLETING LAND APPLICATION SYSTEMS SUPPLEMENTAL REPORT

Use this form to document wastewater management activities for facilities with land application programs (e.g., surface or subsurface irrigation, drip irrigation, etc.) approved under a Water Quality Management (WQM) permit.

1. Enter Facility Name, Municipality, County, Watershed No., Month, Year, Permit No., Outfall No. (if applicable) and Permit Expiration Date (if applicable).

2. Next to each "Zone" heading (this may also be considered "land application site"), enter a unique identifier. For example, "1," "2," etc. or "Site 1," Site 2," etc. If the name of the zone or site is too long for the space provided, please use an abbreviation. Up to five zones can be accommodated on one report. If you have more than five zones, please use more sheets. Next to each "Acres" heading, enter the number of acres that receive effluent (e.g., "wettable acres").

3. Enter the daily volume (gallons) applied onto each zone.

4. Enter the average daily temperature at the land application site. An on-site temperature monitoring system is recommended, but other approaches may be acceptable, such as use of local airport data.

5. Enter the daily ground surface conditions (site-wide). Recommended entries include "dry," "wet," and "frozen," but others may be used.

6. Type the name of the person who prepared the form, the person's job title, and sign and date the form after reading the certification statement.

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NON-COMPLIANCE REPORTING FORM

Use this supplemental form to report all permit violations and any other non-compliance that may endanger health or the environment, in accordance with your permit. Complete all sections that apply. If you are reporting violations of permit limits, monitoring requirements or schedules that do not pose an immediate threat to health or the environment, you may attach this form to the Discharge Monitoring Report (DMR). **Title 25, Pa. Code §§ 91.33 and 91.34 (regarding incidents causing or threatening pollution and activities utilizing pollutants, respectively), in part requires immediate notification by telephone to the Department of pollution incidents, remediation, and may require an additional report on the incident or plan of pollution prevention measures.** If you are reporting other non-compliance events, and the reporting deadline does not coincide with your submission of the DMR, it should be submitted separately to the Department by the reporting deadline set forth in the permit. See instructions for more information.

Facility Name: Mount Pocono Municipal Authority WWTP and Spray Irrigation System

Month: _____ Year: _____

Municipality: Mount Pocono Borough County: Monroe

Permit No.: 4515401

☐ **Violations of Permit Effluent Limitations***

Date	Parameter	Permit Limit	Units	Statistical Code	Result	Units	Cause of Violation	Corrective Action Taken

☐ **Sanitary Sewer Overflows and Other Unauthorized Discharges***

Event Date	Substance Discharged	Location	Volume (gals)	Duration (hrs)	Receiving Waters	Impact on Waters	Cause of Discharge	Date DEP Notified

☐ **Other Permit Violations***

- ☐ Sample collection less frequent than required — Explain _____
- ☐ Sample type not in compliance with permit — Explain _____
- ☐ Violation of permit schedule — Explain _____
- ☐ Other — Explain _____
- ☐ Other — Explain _____

*** If the space provided is not sufficient to record all information, please attach additional sheets.**

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).

Prepared By: _____ Signature: _____

Title: _____ Date: _____