



Pennsylvania  
**Department of  
Environmental Protection**

November 20, 2025

Daniel Morris  
Director, Safety & Environment  
Cherokee Pharmaceuticals, LLC  
P.O. Box 367  
Riverside, PA 17868-0367

Re: NPDES Permit Amendment - Industrial Waste  
Cherokee Pharmaceuticals  
Application No. PA0008419 A-1  
Authorization ID No. 1510842  
Riverside Borough, Northumberland County

Dear Permittee:

Your NPDES permit amendment is enclosed. Please read the permit carefully. The permit expires on the date identified on page 1 of the permit. A renewal application must be submitted to this office 180 days prior to the permit expiration date, if a discharge is expected to continue past the expiration date of the permit.

Enclosed are Discharge Monitoring Report (DMR) templates and DMR instructions. It is recommended that you retain the DMR templates in the event you are unable to submit DMRs electronically through DEP's eDMR system. Routine use of the eDMR system is a requirement of the permit unless the conditions in Part A III.B.3 of the permit are met to submit hard copies.

Any person aggrieved by this action may appeal the action to the Environmental Hearing Board (Board), pursuant to Section 4 of the Environmental Hearing Board Act, 35 P.S. § 7514, and the Administrative Agency Law, 2 Pa.C.S. Chapter 5A. The Board's address is:

Environmental Hearing Board  
Rachel Carson State Office Building, Second Floor  
400 Market Street  
P.O. Box 8457  
Harrisburg, PA 17105-8457

TDD users may contact the Environmental Hearing Board through the Pennsylvania Relay Service, 800-654-5984.

Appeals must be filed with the Board within 30 days of receipt of notice of this action unless the appropriate statute provides a different time. This paragraph does not, in and of itself, create any right of appeal beyond that permitted by applicable statutes and decisional law.

A Notice of Appeal form and the Board's rules of practice and procedure may be obtained online at [www.ehb.pa.gov](http://www.ehb.pa.gov) or by contacting the Secretary to the Board at 717-787-3483. The Notice of

Appeal form and the Board's rules are also available in braille and on audiotape from the Secretary to the Board.

IMPORTANT LEGAL RIGHTS ARE AT STAKE. YOU SHOULD SHOW THIS DOCUMENT TO A LAWYER AT ONCE. IF YOU CANNOT AFFORD A LAWYER, YOU MAY QUALIFY FOR FREE PRO BONO REPRESENTATION. CALL THE SECRETARY TO THE BOARD AT 717-787-3483 FOR MORE INFORMATION. YOU DO NOT NEED A LAWYER TO FILE A NOTICE OF APPEAL WITH THE BOARD.

**IF YOU WANT TO CHALLENGE THIS ACTION, YOUR APPEAL MUST BE FILED WITH AND RECEIVED BY THE BOARD WITHIN 30 DAYS OF RECEIPT OF NOTICE OF THIS ACTION.**

If you have any questions, please contact Jeffrey Gocek at 570.327.3665 or [jgocek@pa.gov](mailto:jgocek@pa.gov).

Sincerely,



Thomas M. Randis  
Environmental Program Manager  
Clean Water Program

Enclosures

cc: File  
US EPA  
Bing Bai (ERM)

Application Type Amendment, Major  
 Facility Type Industrial  
 Major / Minor Major

**NPDES PERMIT FACT SHEET  
ADDENDUM 02**

Application No. PA0008419 A-1  
 APS ID 1128111  
 Authorization ID 1510842

**Applicant and Facility Information**

Applicant Name	<u>Cherokee Pharmaceuticals LLC</u>	Facility Name	<u>Cherokee Pharmaceuticals</u>
Applicant Address	<u>100 Avenue C, P.O. Box 367 Riverside, PA 17868-0367</u>	Facility Address	<u>100 Avenue C, P.O. Box 367 Riverside, PA 17868</u>
Applicant Contact	<u>Daniel Morris</u>	Facility Contact	<u>Daniel Morris</u>
Applicant Phone	<u>570-271-2187</u>	Facility Phone	<u>570-271-2187</u>
Client ID	<u>259313</u>	Site ID	<u>249423</u>
SIC Code	<u>2833, 2834</u>	Municipality	<u>Riverside Borough</u>
SIC Description	<u>See Fact Sheet dated March 03, 2025</u>	County	<u>Northumberland</u>
Date Published in PA Bulletin	<u>October 18, 2025</u>	EPA Waived?	<u>No</u>
Comment Period End Date	<u>November 17, 2025</u>	If No, Reason	<u>Major Facility, Significant CB Discharge</u>
Purpose of Application	<u>The addition of Outfall 301 for the discharge of treated effluent from a new GWTS.</u>		

**Internal Review and Recommendations**

INTRODUCTION

Cherokee Pharmaceuticals, LLC (Cherokee) had applied to amend its NPDES permit authorizing the treated industrial wastewater and stormwater discharge from the Riverside, PA Cherokee manufacturing facility. Due to the addition of a new outfall, the Department considers this a major amendment in accordance with 25 PA § 92a.72 and 92a.73 which, in turn, reference 40 CFR § 122.62 and 122.63 respectively.

CONTACT INFORMATION

Daniel Morris, Director, Safety & Environment, is both the client and site contact for Cherokee. His additional contact information is (fax) 570-271-4135 and (email) daniel.morris@merck.com. An additional Cherokee contact is Phillip Bahner, Safety and Environmental Specialist. His contact information is (phone) 570-271-2116 and (email) phillip.bahner@merck.com. The engineering consultant for this application is Bing Bai, Technical Engineering Consultant with ERM of Raleigh, NC. His contact information is (phone) 970-412-1229 and (email) bing.bai@erm.com.

DRAFT PERMIT

The second draft permit was prepared to address Cherokee comments related to the first draft permit, published March 29, 2025. This second draft permit was prepared in September 2025 and emailed to the permittee on September 30, 2025.

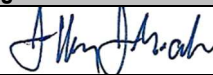
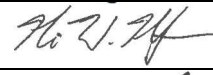

PUBLIC PARTICIPATION

The second draft permit was published in the PA Bulletin on October 18, 2025 (Volume 55, Number 42, Page 7283).

DRAFT PERMIT COMMENT

No comments were received from the public. No comments were received from Department staff. No comments were received from the Environmental Protection Agency (EPA). No comments were received from Cherokee.

*CONTINUED on the next page.*

Approve	Return	Deny	Signatures	Date
X			Jeffrey J. Gocek, EIT Project Manager 	11/20/2025
X			Nicholas W. Hartranft, PE Environmental Engineer Manager 	11/20/2025
X			Thomas M. Randis Program Manager 	11/20/2025

**Internal Review and Recommendations**

**FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS**

All existing limitations and monitoring requirements for the other outfalls, established at the August 2024 issuance/renewal, remain the same. The limitations and monitoring requirements specified below reflect the most stringent limitations amongst technology, water quality and BPJ.

Outfall 301, Effective Period: Permit Effective Date through Permit Expiration Date

Discharge Parameter	Mass Limits (lb/day)		Concentrations (mg/L unless noted)				Monitoring Requirements	
	Monthly Average	Daily Maximum	Minimum	Monthly Average	Daily Maximum	IMAX	Minimum Measurement Frequency	Required Sample Type
Flow (MGD)	Report	Report					1/Month	Metered
pH (SU)			6.0 Instant. Min.			9.0	1/Month	Grab
Oil & Grease				Report	Report		1/Month	Grab
Benzene	Report	Report		Report	Report		1/Month	Grab
Total Aluminum	Report Annual Ave.	Report		Report Annual Ave.	Report		1/Year	Grab
Total Iron	Report Annual Ave.	Report		Report Annual Ave.	Report		1/Year	Grab

*End of Fact Sheet.*



# AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM DISCHARGE REQUIREMENTS FOR INDUSTRIAL WASTEWATER FACILITIES

## NPDES PERMIT NO: PA0008419 Amendment No. 1

In compliance with the provisions of the Clean Water Act, 33 U.S.C. Section 1251 *et seq.* ("the Act") and Pennsylvania's Clean Streams Law, as amended, 35 P.S. Section 691.1 *et seq.*,

**Cherokee Pharmaceuticals, LLC**  
P.O. Box 367  
Riverside, PA 17868-0367

is authorized to discharge from a facility known as **Cherokee Pharmaceuticals**, located in **Riverside Borough, Northumberland County**, to **Susquehanna River (WWF, MF)** in Watershed(s) **5-E** in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts A, B and C hereof.

**THIS PERMIT SHALL BECOME EFFECTIVE ON** DECEMBER 01, 2025

**THIS PERMIT SHALL EXPIRE AT MIDNIGHT ON** NOVEMBER 30, 2030

The authority granted by this permit is subject to the following further qualifications:

1. If there is a conflict between the application, its supporting documents and/or amendments and the terms and conditions of this permit, the terms and conditions shall apply.
2. Failure to comply with the terms, conditions or effluent limitations of this permit is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. (40 CFR 122.41(a))
3. A complete application for renewal of this permit, or notice of intent to cease discharging by the expiration date, must be submitted to DEP at least 180 days prior to the above expiration date (unless permission has been granted by DEP for submission at a later date), using the appropriate NPDES permit application form. (40 CFR 122.41(b), 122.21(d)(2))

In the event that a timely and complete application for renewal has been submitted and DEP is unable, through no fault of the permittee, to reissue the permit before the above expiration date, the terms and conditions of this permit, including submission of the Discharge Monitoring Reports (DMRs), will be automatically continued and will remain fully effective and enforceable against the discharger until DEP takes final action on the pending permit application. (25 Pa. Code §§ 92a.7(b), (c))

4. This NPDES permit does not constitute authorization to construct or make modifications to wastewater treatment facilities necessary to meet the terms and conditions of this permit.

DATE PERMIT ISSUED AUGUST 12, 2024

ISSUED BY 

DATE AMENDMENT ISSUED NOVEMBER 20, 2025

**Thomas M. Randis**  
Environmental Program Manager  
Northcentral Regional Office

**PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS**

I. A. For Outfall 001, Latitude 40° 57' 45.50", Longitude 76° 38' 44.00", River Mile Index 135.66, Stream Code 06885

Receiving Waters: Susquehanna River (WWF, MF)

Type of Effluent: Outfall 101, Outfall 201, West End Non-Contact Cooling Water, East End Non-Contact Cooling Water, East End Industrial Stormwater and Steam Distillate/Condensate Return, Outfall 301

1. The permittee is authorized to discharge during the period from **Permit Effective Date** through **Permit Expiration Date**.
2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Flow (MGD)	Report	Report	XXX	XXX	XXX	XXX	Continuous	Metered
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/day	Grab
Chemical Oxygen Demand (COD)	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Suspended Solids	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Oil and Grease	XXX	XXX	XXX	15.0	XXX	30.0	1/week	Grab
Aluminum, Total	XXX	Report	XXX	XXX	Report	XXX	1/year	24-Hr Composite
Iron, Dissolved	XXX	XXX	XXX	XXX	XXX	7.0	1/week	Grab
Iron, Total	XXX	Report	XXX	XXX	Report	XXX	1/year	24-Hr Composite
Mercury, Total	XXX	Report	XXX	XXX	Report	XXX	1/year	24-Hr Composite
PCBs, Total	XXX	Report	XXX	XXX	Report	XXX	1/year	24-Hr Composite

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): at Outfall 001

**PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS**

I. B. For Outfall 002, Latitude 40° 57' 21.00", Longitude 76° 39' 27.00", River Mile Index 139.150, Stream Code 06885

Receiving Waters: Susquehanna River (WWF, MF)

Type of Effluent: Industrial Stormwater from East End Parking Lot and Entrance Road

1. The permittee is authorized to discharge during the period from **Permit Effective Date** through **Permit Expiration Date**.
2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
pH (S.U.)	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Chemical Oxygen Demand (COD)	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Suspended Solids	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Nitrogen	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Phosphorus	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): at Outfall 002

**PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS**

I. C. For Outfall 003, Latitude 40° 57' 48.00", Longitude 76° 38' 16.00", River Mile Index 140.550, Stream Code 06685

Receiving Waters: Susquehanna River (WWF, MF)

Type of Effluent: Industrial Stormwater from West End Non-Hazardous Landfill

1. The permittee is authorized to discharge during the period from **Permit Effective Date** through **Permit Expiration Date**.
2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
pH (S.U.)	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Chemical Oxygen Demand (COD)	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Suspended Solids	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Nitrogen	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Phosphorus	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): at Outfall 003

**PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS**

I. D. For Outfall 101, Latitude 40° 57' 44.10", Longitude 76° 38' 42.90", River Mile Index N/A, Stream Code N/A

Receiving Waters: Susquehanna River (WWF, MF)

Type of Effluent: Chemical Synthesis Wastewater, Contamination Remediation Wastewater, Cooling Tower Blowdown, Boiler System Wastewater, Belt Filter Press Wash Water and De-ionized Water Production

1. The permittee is authorized to discharge during the period from **Permit Effective Date** through **Permit Expiration Date**.
2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Flow (MGD)	Report	Report	XXX	XXX	XXX	XXX	Continuous	Metered
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/day	Grab
Biochemical Oxygen Demand (BOD5)	890	Report	XXX	Report	Report	275	1/week	24-Hr Composite
Biochemical Oxygen Demand (BOD5) Industrial Influent	Report	Report	XXX	Report	Report	XXX	1/week	24-Hr Composite
Chemical Oxygen Demand (COD)	3275	Report	XXX	510	Report	1020	1/week	24-Hr Composite
Chemical Oxygen Demand (COD) Industrial Influent	Report	Report	XXX	Report	Report	XXX	1/week	24-Hr Composite
Total Suspended Solids	1510	Report	XXX	Report	Report	470	1/week	24-Hr Composite
Ammonia-Nitrogen	185	540	XXX	29.4	84.1	105	1/week	24-Hr Composite
Cyanide, Total	XXX	Report	XXX	XXX	Report	XXX	1/year	24-Hr Composite
4-Methyl-2-pentanone	XXX	Report	XXX	XXX	Report	XXX	1/year	24-Hr Composite
Isopropanol	10.27	25.04	XXX	1.6	3.9	4.87	2/month	24-Hr Composite

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Phenol	0.12	0.32	XXX	0.02	0.05	0.06	2/month	24-Hr Composite
Acetone	1.28	3.21	XXX	0.2	0.5	0.62	2/month	24-Hr Composite
Acetonitrile	65.50	160.54	XXX	10.2	25.0	31.25	2/month	24-Hr Composite
Chlorobenzene	XXX	Report	XXX	XXX	Report	XXX	1/year	24-Hr Composite
Dichlorobenzene, Total	XXX	Report	XXX	XXX	Report	XXX	1/year	24-Hr Composite
Benzene	0.12	0.32	XXX	0.02	0.05	0.06	2/month	24-Hr Composite
n-Butyl Acetate	3.21	8.34	XXX	0.5	1.3	1.62	2/month	24-Hr Composite
1,2-Dichloroethane	0.64	2.56	XXX	0.1	0.4	0.5	2/month	24-Hr Composite
Chloroform	0.83	1.28	XXX	0.13	0.20	0.32	2/month	24-Hr Composite
Diethylamine	XXX	Report	XXX	XXX	Report	XXX	1/year	24-Hr Composite
Isopropyl Ether	XXX	Report	XXX	XXX	Report	XXX	1/year	24-Hr Composite
Dimethyl Sulfoxide	240.81	587.59	XXX	37.5	91.5	114.3	2/month	24-Hr Composite
Ethanol	26.32	64.21	XXX	4.1	10.0	12.5	2/month	24-Hr Composite
Ethyl Acetate	3.21	8.34	XXX	0.5	1.3	1.62	2/month	24-Hr Composite
Heptane	0.12	0.32	XXX	0.02	0.05	0.06	2/month	24-Hr Composite
Hexane	0.12	0.19	XXX	0.02	0.03	0.05	2/month	24-Hr Composite
Methylene Chloride	1.92	5.77	XXX	0.3	0.9	1.12	2/month	24-Hr Composite
N-Nitrosodi-N-Propylamine	XXX	Report	XXX	XXX	Report	XXX	1/year	24-Hr Composite

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Tetrahydrofuran	16.69	53.94	XXX	2.6	8.4	10.5	2/month	24-Hr Composite
Toluene	0.12	0.38	XXX	0.02	0.06	0.07	2/month	24-Hr Composite
Triethylamine	655.02	1605.45	XXX	102.0	250.0	312.5	2/month	24-Hr Composite
Xylenes, Total	XXX	Report	XXX	XXX	Report	XXX	1/year	24-Hr Composite
Total Methanol	26.32	64.21	XXX	4.1	10.0	12.5	2/month	24-Hr Composite
n-amyl Acetate	XXX	Report	XXX	XXX	Report	XXX	1/year	24-Hr Composite
Amyl Alcohol	XXX	Report	XXX	XXX	Report	XXX	1/year	24-Hr Composite
Isobutyraldehyde	XXX	Report	XXX	XXX	Report	XXX	1/year	24-Hr Composite
Methyl Cellosolve	XXX	Report	XXX	XXX	Report	XXX	1/year	24-Hr Composite
Methyl Formate	3.21	8.34	XXX	0.5	1.3	1.62	2/month	24-Hr Composite
Isopropyl Acetate	3.21	8.34	XXX	0.5	1.3	1.62	2/month	24-Hr Composite

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): at Outfall 101

**PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS**

I. E. For Outfall 201, Latitude 40° 57' 45.00", Longitude 76° 38' 39.00", River Mile Index N/A, Stream Code N/A

Receiving Waters: Susquehanna River (WWF, MF)

Type of Effluent: Potable Water Treatment Effluent

1. The permittee is authorized to discharge during the period from **Permit Effective Date** through **Permit Expiration Date**.
2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	1/week	Estimate
Total Suspended Solids	XXX	XXX	XXX	30.0	XXX	XXX	1/month	Grab
Aluminum, Total	XXX	XXX	XXX	4.0	XXX	XXX	1/month	Grab
Iron, Total	XXX	XXX	XXX	2.0	XXX	XXX	1/month	Grab
Manganese, Total	XXX	XXX	XXX	1.0	XXX	XXX	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): at Outfall 201

**PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS**

I. F. For Outfall 301, Latitude 40° 57' 40.97", Longitude 76° 38' 20.49", River Mile Index N/A, Stream Code N/A

Receiving Waters: Susquehanna River (WWF, MF)

Type of Effluent: Groundwater Treatment System

1. The permittee is authorized to discharge during the period from **Permit Effective Date** through **Permit Expiration Date**.
2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Flow (MGD)	Report	Report	XXX	XXX	XXX	XXX	1/month	Metered
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/month	Grab
Oil and Grease	XXX	XXX	XXX	Report	Report	XXX	1/month	Grab
Benzene	Report	Report	XXX	Report	Report	XXX	1/month	Grab
Aluminum, Total	Report Annl Avg	Report	XXX	Report Annl Avg	Report	XXX	1/year	Grab
Iron, Total	Report Annl Avg	Report	XXX	Report Annl Avg	Report	XXX	1/year	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): at Outfall 301

**PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS  
(Continued)**

Additional Requirements

The permittee may not discharge:

1. Floating solids, scum, sheen or substances that result in observed deposits in the receiving water. (25 Pa Code § 92a.41(c))
2. Oil and grease in amounts that cause a film or sheen upon or discoloration of the waters of this Commonwealth or adjoining shoreline, or that exceed 15 mg/l as a daily average or 30 mg/l at any time (or lesser amounts if specified in this permit). (25 Pa. Code § 92a.47(a)(7), § 95.2(2))
3. Substances in concentration or amounts sufficient to be inimical or harmful to the water uses to be protected or to human, animal, plant or aquatic life. (25 Pa Code § 93.6(a))
4. Foam or substances that produce an observed change in the color, taste, odor or turbidity of the receiving water, unless those conditions are otherwise controlled through effluent limitations or other requirements in this permit. For the purpose of determining compliance with this condition, DEP will compare conditions in the receiving water upstream of the discharge to conditions in the receiving water approximately 100 feet downstream of the discharge to determine if there is an observable change in the receiving water. (25 Pa Code § 92a.41(c))

Footnotes

- (1) When sampling to determine compliance with mass effluent limitations, the discharge flow at the time of sampling must be measured and recorded.
- (2) This is the minimum number of sampling events required. Permittees are encouraged, and it may be advantageous in demonstrating compliance, to perform more than the minimum number of sampling events.

Supplemental Information

The effluent limitations for Outfalls 001, 101, 201 and 301 were determined using effluent discharge rates of 9.39 MGD (design flow), 0.77 MGD (95<sup>th</sup> percentile), 0.03 MGD (long term average) and 0.15 (maximum daily), respectively.

**PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS**

I. G. For Outfall 001, Latitude 40° 57' 45.50", Longitude 76° 38' 44.00", River Mile Index 135.66, Stream Code 06685

Receiving Waters: Susquehanna River (WWF, MF)

Type of Effluent: Outfall 101, Outfall 201, West End Non-Contact Cooling Water, East End Non-Contact Cooling Water, East End Industrial Stormwater and Steam Distillate/Condensate Return, Outfall 301

1. The permittee is authorized to discharge during the period from **Permit Effective Date** through **Permit Expiration Date**.
2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> Measurement Frequency	Required Sample Type
	Monthly	Annual	Monthly	Monthly Average	Maximum	Instant. Maximum		
Ammonia--N	Report	Report	XXX	Report	XXX	XXX	2/week	24-Hr Composite
Kjeldahl--N	Report	XXX	XXX	Report	XXX	XXX	2/week	24-Hr Composite
Nitrate-Nitrite as N	Report	XXX	XXX	Report	XXX	XXX	2/week	24-Hr Composite
Total Nitrogen	Report	Report	XXX	Report	XXX	XXX	1/month	Calculation
Total Phosphorus	Report	Report	XXX	Report	XXX	XXX	2/week	24-Hr Composite
Net Total Nitrogen	Report	64,884	XXX	XXX	XXX	XXX	1/month	Calculation
Net Total Phosphorus	Report	11,748	XXX	XXX	XXX	XXX	1/month	Calculation

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): at Outfall 001

Footnotes:

- (1) See Part C for Chesapeake Bay Requirements.
- (2) This is the minimum number of sampling events required. Permittees are encouraged, and it may be advantageous in demonstrating compliance, to perform more than the minimum number of sampling events required.

## II. DEFINITIONS

**At Outfall (XXX)** means a sampling location in outfall line XXX below the last point at which wastes are added to outfall line (XXX), or where otherwise specified.

**Average** refers to the use of an arithmetic mean, unless otherwise specified in this permit. (40 CFR 122.41(l)(4)(iii))

**Benchmark Value** means the concentration of a pollutant that serves as the threshold for the determination of whether existing site best management practices are effective in controlling stormwater pollution. Benchmark values are not effluent limitations. Two or more consecutive monitoring period exceedances of benchmark values triggers the requirement to develop and submit a corrective action plan, implement additional controls, or apply for an individual permit if notified in writing by DEP.

**Best Management Practices (BMPs)** means schedules of activities, prohibitions of practices, maintenance procedures and other management practices to prevent or reduce the pollutant loading to surface waters of the Commonwealth. The term also includes treatment requirements, operating procedures and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage. The term includes activities, facilities, measures, planning or procedures used to minimize accelerated erosion and sedimentation and manage stormwater to protect, maintain, reclaim, and restore the quality of waters and the existing and designated uses of waters within this Commonwealth before, during and after earth disturbance activities. (25 Pa. Code § 92a.2)

**Bypass** means the intentional diversion of waste streams from any portion of a treatment facility. (40 CFR 122.41(m)(1)(i))

**Calendar Week** is defined as the seven consecutive days from Sunday through Saturday, unless the permittee has been given permission by DEP to provide weekly data as Monday through Friday based on showing excellent performance of the facility and a history of compliance. In cases when the week falls in two separate months, the month with the most days in that week shall be the month for reporting.

**Clean Water Act** means the Federal Water Pollution Control Act, as amended. (33 U.S.C.A. §§ 1251 to 1387).

**Chemical Additive** means a chemical product (including products of disassociation and degradation, collectively "products") introduced into a waste stream that is used for cleaning, disinfecting, or maintenance and which may be detected in effluent discharged to waters of the Commonwealth. The term generally excludes chemicals used for neutralization of waste streams, the production of goods, and treatment of wastewater.

**Composite Sample** (for all except GC/MS volatile organic analysis) means a combination of individual samples (at least eight for a 24-hour period or four for an 8-hour period) of at least 100 milliliters (mL) each obtained at spaced time intervals during the compositing period. The composite must be flow-proportional; either the volume of each individual sample is proportional to discharge flow rates, or the sampling interval is proportional to the flow rates over the time period used to produce the composite. (EPA Form 2C)

**Composite Sample** (for GC/MS volatile organic analysis) consists of at least four aliquots or grab samples collected during the sampling event (not necessarily flow proportioned). The samples must be combined in the laboratory immediately before analysis and then one analysis is performed. (EPA Form 2C)

**Daily Maximum Temperature** means the maximum temperature for any day during the reporting period, where daily temperature is determined by the average of all temperature measurements made, or the mean value plot of the record of a continuous automated temperature recording instrument, either during a calendar day or during the operating day if flows are of a shorter duration.

**Daily Discharge** means the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in units of mass, the "daily discharge" is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurement, the "daily discharge" is calculated as the average measurement of the pollutant over the day. (25 Pa. Code § 92a.2, 40 CFR 122.2)

**Daily Maximum Discharge Limitation** means the highest allowable "daily discharge."

**Discharge Monitoring Report (DMR)** means the DEP or EPA supplied form(s) for the reporting of self-monitoring results by the permittee. (25 Pa. Code § 92a.2, 40 CFR 122.2)

**Estimated Flow** means any method of liquid volume measurement based on a technical evaluation of the sources contributing to the discharge including, but not limited to, pump capabilities, water meters and batch discharge volumes.

**Geometric Mean** means the average of a set of n sample results given by the nth root of their product.

**Grab Sample** means an individual sample of at least 100 mL collected at a randomly selected time over a period not to exceed 15 minutes. (EPA Form 2C)

**Hazardous Substance** means any substance designated under 40 CFR Part 116 pursuant to Section 311 of the Clean Water Act. (40 CFR 122.2)

**Hauled-In Wastes** means any waste that is introduced into a treatment facility through any method other than a direct connection to the wastewater collection system. The term includes wastes transported to and disposed of within the treatment facility or other entry points within the collection system.

**Immersion Stabilization (i-s)** means a calibrated device is immersed in the wastewater until the reading is stabilized.

**Instantaneous Maximum Effluent Limitation** means the highest allowable discharge of a concentration or mass of a substance at any one time as measured by a grab sample. (25 Pa. Code § 92a.2)

**Measured Flow** means any method of liquid volume measurement, the accuracy of which has been previously demonstrated in engineering practice, or for which a relationship to absolute volume has been obtained.

**Monthly Average Discharge Limitation** means the highest allowable average of "daily discharges" over a calendar month, calculated as the sum of all "daily discharges" measured during a calendar month divided by the number of "daily discharges" measured during that month. (25 Pa. Code § 92a.2)

**Municipal Waste** means garbage, refuse, industrial lunchroom or office waste and other material, including solid, liquid, semisolid or contained gaseous material resulting from operation of residential, municipal, commercial or institutional establishments and from community activities; and sludge not meeting the definition of residual or hazardous waste under this section from a municipal, commercial or institutional water supply treatment plant, waste water treatment plant or air pollution control facility. (25 Pa. Code § 271.1)

**Non-contact Cooling Water** means water used to reduce temperature which does not come in direct contact with any raw material, intermediate product, waste product (other than heat), or finished product.

**Residual Waste** means garbage, refuse, other discarded material or other waste, including solid, liquid, semisolid or contained gaseous materials resulting from industrial, mining and agricultural operations and sludge from an industrial, mining or agricultural water supply treatment facility, wastewater treatment facility or air pollution control facility, if it is not hazardous. The term does not include coal refuse as defined in the Coal Refuse Disposal Control Act. The term does not include treatment sludges from coal mine drainage treatment plants, disposal of which is being carried on under and in compliance with a valid permit issued under the Clean Streams Law. (25 Pa Code § 287.1)

**Severe Property Damage** means substantial physical damage to property, damage to the treatment facilities that causes them to become inoperable, or substantial and permanent loss of natural resources that can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production. (40 CFR 122.41(m)(1)(ii))

**Stormwater** means the runoff from precipitation, snow melt runoff, and surface runoff and drainage. (25 Pa. Code § 92a.2)

**Stormwater Associated With Industrial Activity** means the discharge from any conveyance that is used for collecting and conveying stormwater and that is directly related to manufacturing, processing, or raw materials storage areas at an industrial plant, and as defined at 40 CFR 122.26(b)(14) (i) - (ix) & (xi) and 25 Pa. Code § 92a.2.

**Total Dissolved Solids** means the total dissolved (filterable) solids as determined by use of the method specified in 40 CFR Part 136.

**Toxic Pollutant** means those pollutants, or combinations of pollutants, including disease-causing agents, which after discharge and upon exposure, ingestion, inhalation or assimilation into any organism, either directly from the environment or indirectly by ingestion through food chains may, on the basis of information available to DEP cause death, disease, behavioral abnormalities, cancer, genetic mutations, physiological malfunctions, including malfunctions in reproduction, or physical deformations in these organisms or their offspring. (25 Pa. Code § 92a.2)

### III. SELF-MONITORING, REPORTING AND RECORDKEEPING

#### A. Representative Sampling

1. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity (40 CFR 122.41(j)(1)). Representative sampling includes the collection of samples, where possible, during periods of adverse weather, changes in treatment plant performance and changes in treatment plant loading. If possible, effluent samples must be collected where the effluent is well mixed near the center of the discharge conveyance and at the approximate mid-depth point, where the turbulence is at a maximum and the settlement of solids is minimized. (40 CFR 122.48, 25 Pa. Code § 92a.61)
2. Records Retention (40 CFR 122.41(j)(2))

Except for records of monitoring information required by this permit related to the permittee's sludge use and disposal activities which shall be retained for a period of at least 5 years, all records of monitoring activities and results (including all original strip chart recordings for continuous monitoring instrumentation and calibration and maintenance records), copies of all reports required by this permit, and records of all data used to complete the application for this permit shall be retained by the permittee for 3 years from the date of the sample measurement, report or application, unless a longer retention period is required by the permit. The 3-year period shall be extended as requested by DEP or the EPA Regional Administrator.

3. Recording of Results (40 CFR 122.41(j)(3))

For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:

- a. The exact place, date and time of sampling or measurements.
- b. The person(s) who performed the sampling or measurements.
- c. The date(s) the analyses were performed.
- d. The person(s) who performed the analyses.
- e. The analytical techniques or methods used; and the associated detection level.
- f. The results of such analyses.

4. Test Procedures

- a. Facilities that test or analyze environmental samples used to demonstrate compliance with this permit shall be in compliance with laboratory accreditation requirements of Act 90 of 2002 (27 Pa. C.S. §§ 4101-4113) and 25 Pa. Code Chapter 252, relating to environmental laboratory accreditation.
- b. Test procedures (methods) for the analysis of pollutants or pollutant parameters shall be those approved under 40 CFR Part 136 or required under 40 CFR Chapter I, Subchapters N or O, unless the method is specified in this permit or has been otherwise approved in writing by DEP. (40 CFR 122.41(j)(4), 122.44(i)(1)(iv))
- c. Test procedures (methods) for the analysis of pollutants or pollutant parameters shall be sufficiently sensitive. A method is sufficiently sensitive when 1) the method minimum level is at or below the level of the effluent limit established in the permit for the measured pollutant or pollutant parameter; or 2) the method has the lowest minimum level of the analytical methods approved under 40 CFR Part 136 or required under 40 CFR Chapter I, Subchapters N or O, for the measured pollutant or pollutant parameter; or 3) the method is specified in this permit or has been otherwise approved in writing by DEP for the measured pollutant or pollutant parameter. Permittees have the option of providing matrix or sample-specific minimum levels rather than the published levels. (40 CFR 122.44(i)(1)(iv))

5. Quality/Assurance/Control

In an effort to assure accurate self-monitoring analyses results:

- a. The permittee, or its designated laboratory, shall participate in the periodic scheduled quality assurance inspections conducted by DEP and EPA. (40 CFR 122.41(e), 122.41(i)(3))
- b. The permittee, or its designated laboratory, shall develop and implement a program to assure the quality and accurateness of the analyses performed to satisfy the requirements of this permit, in accordance with 40 CFR Part 136. (40 CFR 122.41(j)(4))

B. Reporting of Monitoring Results

1. The permittee shall effectively monitor the operation and efficiency of all wastewater treatment and control facilities, and the quantity and quality of the discharge(s) as specified in this permit. (25 Pa. Code §§ 92a.3(c), 92a.41(a), 92a.44, 92a.61(i) and 40 CFR §§ 122.41(e), 122.44(i)(1))
2. The permittee shall use DEP's electronic Discharge Monitoring Report (eDMR) system to report the results of compliance monitoring under this permit (see [www.dep.pa.gov/edmr](http://www.dep.pa.gov/edmr)). Permittees that are not using the eDMR system as of the effective date of this permit shall submit the necessary registration and trading partner agreement forms to DEP's Bureau of Clean Water (BCW) within 30 days of the effective date of this permit and begin using the eDMR system when notified by DEP BCW to do so. (25 Pa. Code §§ 92a.3(c), 92a.41(a), 92a.61(g) and 40 CFR § 122.41(l)(4))
3. Submission of a physical (paper) copy of a Discharge Monitoring Report (DMR) is acceptable under the following circumstances:
  - a. 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.
  - b. 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).
4. DMRs must be completed in accordance with DEP's published DMR instructions (3800-FM-BCW0463). DMRs must be received by DEP no later than 28 days following the end of the monitoring period. DMRs are based on calendar reporting periods and must be received by DEP in accordance with the following schedule:
  - Monthly DMRs must be received within 28 days following the end of each calendar month.
  - Quarterly DMRs must be received within 28 days following the end of each calendar quarter, i.e., January 28, April 28, July 28, and October 28.
  - Semiannual DMRs must be received within 28 days following the end of each calendar semiannual period, i.e., January 28 and July 28.
  - Annual DMRs must be received by January 28, unless Part C of this permit requires otherwise.
5. The permittee shall complete all Supplemental Reporting forms (Supplemental DMRs) attached to this permit, or an approved equivalent, and submit the signed, completed forms as attachments to the DMR, through DEP's eDMR system. DEP's Supplemental Laboratory Accreditation Form (3800-FM-BCW0189) must be completed and submitted to DEP with the first DMR following issuance of this permit, and anytime thereafter when changes to laboratories or methods occur. (25 Pa. Code §§ 92a.3(c), 92a.41(a), 92a.61(g) and 40 CFR § 122.41(l)(4))
6. The completed DMR Form shall be signed and certified by either of the following applicable persons, as defined in 25 Pa. Code § 92a.22:

- For a corporation - by a principal executive officer of at least the level of vice president, or an authorized representative, if the representative is responsible for the overall operation of the facility from which the discharge described in the NPDES form originates.
- For a partnership or sole proprietorship - by a general partner or the proprietor, respectively.
- For a municipality, state, federal or other public agency - by a principal executive officer or ranking elected official.

If signed by a person other than the above and for co-permittees, written notification of delegation of DMR signatory authority must be submitted to DEP in advance of or along with the relevant DMR form. (40 CFR § 122.22(b))

7. If the permittee monitors any pollutant at monitoring points as designated by this permit, using analytical methods described in Part A III.A.4. herein, more frequently than the permit requires, the results of this monitoring shall be incorporated, as appropriate, into the calculations used to report self-monitoring data on the DMR. (40 CFR 122.41(l)(4)(ii))

### C. Reporting Requirements

1. Planned Changes to Physical Facilities – The permittee shall give notice to DEP as soon as possible but no later than 30 days prior to planned physical alterations or additions to the permitted facility. A permit under 25 Pa. Code Chapter 91 may be required for these situations prior to implementing the planned changes. A permit application, or other written submission to DEP, can be used to satisfy the notification requirements of this section.

Notice is required when:

- a. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in 40 CFR 122.29(b). (40 CFR 122.41(l)(1)(i))
  - b. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are not subject to effluent limitations in this permit. (40 CFR 122.41(l)(1)(ii))
  - c. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan. (40 CFR 122.41(l)(1)(iii))
  - d. The planned change may result in noncompliance with permit requirements. (40 CFR 122.41(l)(2))
2. Planned Changes to Waste Stream – Under the authority of 25 Pa. Code § 92a.24(a), the permittee shall provide notice to DEP as soon as possible but no later than 45 days prior to any changes in the volume or pollutant concentration of its influent waste stream, as specified in paragraphs 2.a. and 2.b., below. Notice shall be provided on the “Planned Changes to Waste Stream” Supplemental Report (3800-FM-BCW0482), available on DEP’s website. The permittee shall provide information on the quality and quantity of waste introduced into the facility, and any anticipated impact of the change on the quantity or quality of effluent to be discharged from the facility. The Report shall be sent via Certified Mail or other means to confirm DEP’s receipt of the notification. DEP will determine if the submission of a new application and receipt of a new or amended permit is required.
    - a. Introduction of New Pollutants (25 Pa. Code § 92a.24(a))

New pollutants are defined as parameters that meet all of the following criteria:

- (i) Were not detected in the facilities’ influent waste stream as reported in the permit application; and

- (ii) Have not been approved to be included in the permittee's influent waste stream by DEP in writing.

The permittee shall provide notification of the introduction of new pollutants in accordance with paragraph 2 above. The permittee may not authorize the introduction of new pollutants until the permittee receives DEP's written approval.

b. Increased Loading of Approved Pollutants (25 Pa. Code § 92a.24(a))

Approved pollutants are defined as parameters that meet one or more of the following criteria:

- (i) Were detected in the facilities' influent waste stream as reported in the permittee's permit application; or
- (ii) Have been approved to be included in the permittee's influent waste stream by DEP in writing; or
- (iii) Have an effluent limitation or monitoring requirement in this permit.

The permittee shall provide notification of the introduction of increased influent loading (lbs/day) of approved pollutants in accordance with paragraph 2 above when (1) the cumulative increase in influent loading (lbs/day) exceeds 20% of the maximum loading reported in the permit application, or a loading previously approved by DEP, or (2) may cause an exceedance in the effluent of Effluent Limitation Guidelines (ELGs) or limitations in Part A of this permit, or (3) may cause interference or pass through at the facility (as defined at 40 CFR 403.3), or (4) may cause exceedances of the applicable water quality standards in the receiving stream. Unless specified otherwise in this permit, if DEP does not respond to the notification within 30 days of its receipt, the permittee may proceed with the increase in loading. The acceptance of increased loading of approved pollutants may not result in an exceedance of ELGs or effluent limitations and may not cause exceedances of the applicable water quality standards in the receiving stream.

3. Reporting Requirements for Hauled-In Wastes

a. Receipt of Residual Waste

- (i) The permittee shall document the receipt of all hauled-in residual wastes (including but not limited to wastewater from oil and gas wells, food processing waste, and landfill leachate), as defined at 25 Pa. Code § 287.1, that are received for processing at the treatment facility. The permittee shall report hauled-in residual wastes on a monthly basis to DEP on the "Hauled In Residual Wastes" Supplemental Report (3800-FM-BCW0450) as an attachment to the DMR. If no residual wastes were received during a month, submission of the Supplemental Report is not required.

The following information is required by the Supplemental Report. The information used to develop the Report shall be retained by the permittee for five years from the date of receipt and must be made available to DEP or EPA upon request.

- (1) The dates that residual wastes were received.
- (2) The volume (gallons) of wastes received.
- (3) The license plate number of the vehicle transporting the waste to the treatment facility.
- (4) The permit number(s) of the well(s) where residual wastes were generated, if applicable.
- (5) The name and address of the generator of the residual wastes.
- (6) The type of wastewater.

The transporter of residual waste must maintain these and other records as part of the daily operational record (25 Pa. Code § 299.219). If the transporter is unable to provide this information or the permittee has not otherwise received the information from the generator, the residual wastes shall not be accepted by the permittee until such time as the permittee receives such information from the transporter or generator.

- (ii) The following conditions apply to the characterization of residual wastes received by the permittee:
  - (1) If the generator is required to complete a chemical analysis of residual wastes in accordance with 25 Pa. Code § 287.51, the permittee must receive and maintain on file a chemical analysis of the residual wastes it receives. The chemical analysis must conform to the Bureau of Waste Management's Form 26R except as noted in paragraph (2), below. Each load of residual waste received must be covered by a chemical analysis if the generator is required to complete it.
  - (2) For wastewater generated from hydraulic fracturing operations ("frac wastewater") within the first 30 production days of a well site, the chemical analysis may be a general frac wastewater characterization approved by DEP. Thereafter, the chemical analysis must be waste-specific and be reported on the Form 26R.

b. Receipt of Municipal Waste

- (i) The permittee shall document the receipt of all hauled-in municipal wastes (including but not limited to septage and liquid sewage sludge), as defined at 25 Pa. Code § 271.1, that are received for processing at the treatment facility. The permittee shall report hauled-in municipal wastes on a monthly basis to DEP on the "Hauled In Municipal Wastes" Supplemental Report (3800-FM-BCW0437) as an attachment to the DMR. If no municipal wastes were received during a month, submission of the Supplemental Report is not required.

The following information is required by the Supplemental Report:

- (1) The dates that municipal wastes were received.
  - (2) The volume (gallons) of wastes received.
  - (3) The BOD<sub>5</sub> concentration (mg/l) and load (lbs) for the wastes received.
  - (4) The location(s) where wastes were disposed of within the treatment facility.
- (ii) Sampling and analysis of hauled-in municipal wastes must be completed to characterize the organic strength of the wastes, unless composite sampling of influent wastewater is performed at a location downstream of the point of entry for the wastes.

4. Unanticipated Noncompliance or Potential Pollution Reporting

- a. Immediate Reporting - The permittee shall immediately report any incident causing or threatening pollution in accordance with the requirements of 25 Pa. Code §§ 91.33 and 92a.41(b).
  - (i) If, because of an accident, other activity or incident a toxic substance or another substance which would endanger users downstream from the discharge, or would otherwise result in pollution or create a danger of pollution or would damage property, the permittee shall immediately notify DEP by telephone of the location and nature of the danger. Oral notification to the Department is required as soon as possible, but no later than 4 hours after the permittee becomes aware of the incident causing or threatening pollution.

- (ii) If reasonably possible to do so, the permittee shall immediately notify downstream users of the waters of the Commonwealth to which the substance was discharged. Such notice shall include the location and nature of the danger.
  - (iii) The permittee shall immediately take or cause to be taken steps necessary to prevent injury to property and downstream users of the waters from pollution or a danger of pollution and, in addition, within 15 days from the incident, shall remove the residual substances contained thereon or therein from the ground and from the affected waters of this Commonwealth to the extent required by applicable law.
- b. The permittee shall report any noncompliance which may endanger health or the environment in accordance with the requirements of 40 CFR 122.41(l)(6). These requirements include the following obligations:
- (i) 24 Hour Reporting - The permittee shall orally report any noncompliance with this permit which may endanger health or the environment within 24 hours from the time the permittee becomes aware of the circumstances. The following shall be included as information which must be reported within 24 hours under this paragraph:
    - (1) Any unanticipated bypass which exceeds any effluent limitation in the permit;
    - (2) Any upset which exceeds any effluent limitation in the permit; and
    - (3) Violation of the maximum daily discharge limitation for any of the pollutants listed in the permit as being subject to the 24-hour reporting requirement. (40 CFR 122.44(g))
  - (ii) Written Report - A written submission shall also be provided within 5 days of the time the permittee becomes aware of any noncompliance which may endanger health or the environment. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.
  - (iii) Waiver of Written Report - DEP may waive the written report on a case-by-case basis if the associated oral report has been received within 24 hours from the time the permittee becomes aware of the circumstances which may endanger health or the environment. Unless such a waiver is expressly granted by DEP, the permittee shall submit a written report in accordance with this paragraph. (40 CFR 122.41(l)(6)(iii))

5. Other Noncompliance

The permittee shall report all instances of noncompliance not reported under paragraph C.4 of this section or specific requirements of compliance schedules, at the time DMRs are submitted, on the Non-Compliance Reporting Form (3800-FM-BCW0440). The reports shall contain the information listed in paragraph C.4.b.(ii) of this section. (40 CFR 122.41(l)(7))

- D. Specific Toxic Pollutant Notification Levels (for Manufacturing, Commercial, Mining, and Silvicultural Direct Dischargers) - The permittee shall notify DEP as soon as it knows or has reason to believe the following: (40 CFR 122.42(a))
- 1. That any activity has occurred, or will occur, which would result in the discharge of any toxic pollutant which is not limited in this permit, if that discharge on a routine or frequent basis will exceed the highest of the following "notification levels": (40 CFR 122.42(a)(1))
    - a. One hundred micrograms per liter.
    - b. Two hundred micrograms per liter for acrolein and acrylonitrile.

- c. Five hundred micrograms per liter for 2,4-dinitrophenol and 2-methyl-4,6-dinitrophenol.
  - d. One milligram per liter for antimony.
  - e. Five times the maximum concentration value reported for that pollutant in this permit application.
  - f. Any other notification level established by DEP.
2. That any activity has occurred or will occur which would result in any discharge, on a nonroutine or infrequent basis, of a toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following "notification levels": (40 CFR 122.42(a)(2))
- a. Five hundred micrograms per liter.
  - b. One milligram per liter for antimony.
  - c. Ten times the maximum concentration value reported for that pollutant in the permit application.
  - d. Any other notification level established by DEP.

E. Annual Fee (25 Pa. Code § 92a.62)

Permittees shall pay an annual fee in accordance with 25 Pa. Code § 92a.62. As of the effective date of this permit, the facility covered by the permit is classified in the **Major IW Facility <250 MGD** fee category, which has an annual fee of **\$7,500**.

Invoices for annual fees will be mailed to permittees approximately three months prior to the due date. In the event that an invoice is not received, the permittee is nonetheless responsible for payment. Permittees may contact the DEP at 717-787-6744 with questions related to annual fees. The fee identified above is subject to change if DEP publishes changes to 25 Pa. Code § 92a.62.

Payment for annual fees shall be remitted to DEP at the address below or through DEP's electronic payment system ([www.depgreenport.state.pa.us/NPDESpay](http://www.depgreenport.state.pa.us/NPDESpay)) by the due date specified on the invoice. Checks, if used for payment, should be made payable to the Commonwealth of Pennsylvania.

PA Department of Environmental Protection  
Bureau of Clean Water  
Re: Chapter 92a Annual Fee  
P.O. Box 8466  
Harrisburg, PA 17105-8466

**PART B**

**I. MANAGEMENT REQUIREMENTS**

A. Compliance

1. The permittee shall comply with all conditions of this permit. If a compliance schedule has been established in this permit, the permittee shall achieve compliance with the terms and conditions of this permit within the time frames specified in this permit. (40 CFR 122.41(a)(1))
2. The permittee shall submit reports of compliance or noncompliance, or progress reports as applicable, for any interim and final requirements contained in this permit. Such reports shall be submitted no later than 14 days following the applicable schedule date or compliance deadline. (25 Pa. Code § 92a.51(c), 40 CFR 122.47(a)(4))

B. Permit Modification, Termination, or Revocation and Reissuance

1. This permit may be modified, terminated, or revoked and reissued during its term in accordance with Title 25 Pa. Code § 92a.72 and 40 CFR 122.41(f).
2. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition. (40 CFR 122.41(f))
3. In the absence of DEP action to modify or revoke and reissue this permit, the permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants within the time specified in the regulations that establish those standards or prohibitions. (40 CFR 122.41(a)(1))

C. Duty to Provide Information

1. The permittee shall furnish to DEP, within a reasonable time, any information which DEP may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. (40 CFR 122.41(h))
2. The permittee shall furnish to DEP, upon request, copies of records required to be kept by this permit. (40 CFR 122.41(h))
3. Other Information - Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to DEP, it shall promptly submit the correct and complete facts or information. (40 CFR 122.41(l)(8))

D. Proper Operation and Maintenance

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the terms and conditions of this permit. Proper operation and maintenance includes, but is not limited to, adequate laboratory controls including appropriate quality assurance procedures. This provision also includes the operation of backup or auxiliary facilities or similar systems that are installed by the permittee, only when necessary to achieve compliance with the terms and conditions of this permit. (40 CFR 122.41(e))

E. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any discharge, sludge use or disposal in violation of this permit that has a reasonable likelihood of adversely affecting human health or the environment. (40 CFR 122.41(d))

F. Bypassing

1. Bypassing Not Exceeding Permit Limitations - The permittee may allow a bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions in paragraphs two, three and four of this section. (40 CFR 122.41(m)(2))
  2. Other Bypassing - In all other situations, bypassing is prohibited and DEP may take enforcement action against the permittee for bypass unless:
    - a. A bypass is unavoidable to prevent loss of life, personal injury or "severe property damage." (40 CFR 122.41(m)(4)(i)(A))
    - b. There are no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate backup equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance. (40 CFR 122.41(m)(4)(i)(B))
    - c. The permittee submitted the necessary notice required in F.4.a. and b. below. (40 CFR 122.41(m)(4)(i)(C))
  3. DEP may approve an anticipated bypass, after considering its adverse effects, if DEP determines that it will meet the conditions listed in F.2. above. (40 CFR 122.41(m)(4)(ii))
  4. Notice
    - a. Anticipated Bypass – If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible, at least 10 days before the bypass. (40 CFR 122.41(m)(3)(i))
    - b. Unanticipated Bypass – The permittee shall submit oral notice of any other unanticipated bypass within 24 hours, regardless of whether the bypass may endanger health or the environment or whether the bypass exceeds effluent limitations. The notice shall be in accordance with Part A III.C.4.b.
- G. Termination of Permit Coverage (25 Pa. Code § 92a.74 and 40 CFR 122.64)
1. Notice of Termination (NOT) – If the permittee plans to cease operations or will otherwise no longer require coverage under this permit, the permittee shall submit DEP's NPDES Notice of Termination (NOT) for Permits Issued Under Chapter 92a (3800-BCW-0410), signed in accordance with Part A III.B.6 of this permit, at least 30 days prior to cessation of operations or the date by which coverage is no longer required.
  2. Where the permittee plans to cease operations, NOTs must be accompanied with an operation closure plan that identifies how tankage and equipment will be decommissioned and how pollutants will be managed, as applicable.
  3. The permittee shall submit the NOT to the DEP regional office with jurisdiction over the county in which the facility is located.

## II. PENALTIES AND LIABILITY

### A. Violations of Permit Conditions

Any person violating Sections 301, 302, 306, 307, 308, 318 or 405 of the Clean Water Act or any permit condition or limitation implementing such sections in a permit issued under Section 402 of the Act is subject to civil, administrative and/or criminal penalties as set forth in 40 CFR 122.41(a)(2).

Any person or municipality, who violates any provision of this permit; any rule, regulation or order of DEP; or any condition or limitation of any permit issued pursuant to the Clean Streams Law, is subject to criminal and/or civil penalties as set forth in Sections 602, 603 and 605 of the Clean Streams Law.

#### B. Falsifying Information

Any person who does any of the following:

- Falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit, or
- Knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit (including monitoring reports or reports of compliance or noncompliance)

Shall, upon conviction, be punished by a fine and/or imprisonment as set forth in 18 Pa.C.S.A § 4904 and 40 CFR 122.41(j)(5) and (k)(2).

#### C. Liability

Nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance pursuant to Section 309 of the Clean Water Act or Sections 602, 603 or 605 of the Clean Streams Law.

Nothing in this permit shall be construed to preclude the institution of any legal action or to relieve the permittee from any responsibilities, liabilities or penalties to which the permittee is or may be subject to under the Clean Water Act and the Clean Streams Law.

#### D. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. (40 CFR 122.41(c))

### III. OTHER RESPONSIBILITIES

#### A. Right of Entry

Pursuant to Sections 5(b) and 305 of Pennsylvania's Clean Streams Law, and Title 25 Pa. Code Chapter 92a and 40 CFR 122.41(i), the permittee shall allow authorized representatives of DEP and EPA, upon the presentation of credentials and other documents as may be required by law:

1. To enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit; (40 CFR 122.41(i)(1))
2. To have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit; (40 CFR 122.41(i)(2))
3. To inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices or operations regulated or required under this permit; and (40 CFR 122.41(i)(3))
4. To sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act or the Clean Streams Law, any substances or parameters at any location. (40 CFR 122.41(i)(4))

#### B. Transfer of Permits

1. Transfers by modification. Except as provided in paragraph 2 of this section, a permit may be transferred by the permittee to a new owner or operator only if this permit has been modified or revoked and reissued, or a minor modification made to identify the new permittee and incorporate such other requirements as may be necessary under the Clean Water Act. (40 CFR 122.61(a))
2. Automatic transfers. As an alternative to transfers under paragraph 1 of this section, any NPDES permit may be automatically transferred to a new permittee if:
  - a. The current permittee notifies DEP at least 30 days in advance of the proposed transfer date in paragraph 2.b. of this section; (40 CFR 122.61(b)(1))
  - b. The notice includes the appropriate DEP transfer form signed by the existing and new permittees containing a specific date for transfer of permit responsibility, coverage and liability between them; (40 CFR 122.61(b)(2))
  - c. DEP does not notify the existing permittee and the proposed new permittee of its intent to modify or revoke and reissue this permit, the transfer is effective on the date specified in the agreement mentioned in paragraph 2.b. of this section; and (40 CFR 122.61(b)(3))
  - d. The new permittee is in compliance with existing DEP issued permits, regulations, orders and schedules of compliance, or has demonstrated that any noncompliance with the existing permits has been resolved by an appropriate compliance action or by the terms and conditions of the permit (including compliance schedules set forth in the permit), consistent with 25 Pa. Code §\_92a.51 (relating to schedules of compliance) and other appropriate DEP regulations. (25 Pa. Code § 92a.71)
3. In the event DEP does not approve transfer of this permit, the new owner or operator must submit a new permit application.

C. Property Rights

The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege. (40 CFR 122.41(g))

D. Duty to Reapply

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for a new permit. (40 CFR 122.41(b))

E. Other Laws

The issuance of this permit does not authorize any injury to persons or property or invasion of other private rights, or any infringement of state or local law or regulations.

**PART C**

**I. CHESAPEAKE BAY NUTRIENT REQUIREMENTS**

A. The Annual Net Total Nitrogen (TN) and Annual Net Total Phosphorus (TP) Mass Load effluent limitations (“Cap Loads”) in Part A of this permit are required in order to meet the downstream water quality standards of the State of Maryland, as required by 25 Pa. Code Chapter 92a, the federal Clean Water Act, and implementing regulations.

B. Definitions

**Annual Net Mass Load (lbs):** The Annual Total Mass Load for one year beginning October 1st and ending September 30th, adjusted for Credits sold and applied and Offsets applied. Annual Net Mass Loads are compared to Cap Loads to determine compliance.

**Cap Load (lbs):** The mass load of a pollutant authorized by an NPDES permit. Cap Loads for TN and TP are implemented in NPDES permits by the establishment of Annual Net Mass Load limits. The term “Net” is used to recognize that Credits and Offsets may be used to comply with the limits. The Annual Net Mass Load must be less than or equal to the Cap Load to achieve compliance.

**Certification:** Written approval by DEP of a proposed pollutant reduction activity to generate credits before the credits are verified and registered to be used to comply with NPDES permit effluent limitations.

**Compliance Year:** The year-long period starting October 1<sup>st</sup> and ending September 30<sup>th</sup>. The Compliance Year will be named for the year in which it ends. For example, the period of October 1, 2015 through September 30, 2016 is compliance year 2016.

**Credit:** The tradable unit of compliance that corresponds with a unit of reduction of a pollutant as recognized by DEP which, when certified, verified and registered, may be used to comply with NPDES permit effluent limitations.

**Delivery Ratio:** A ratio that compensates for the natural attenuation of a pollutant as it travels in water before it reaches a defined compliance point.

**Offset:** The pollutant load reduction measured in pounds (lbs) that is created by an action, activity or technology which when approved by DEP may be used to comply with NPDES permit effluent limitations, conditions and stipulations under 25 Pa. Code Chapter 92a (relating to NPDES permitting, monitoring and compliance.) The offset may only be used by the NPDES permittee that DEP determines is associated with the load reduction achieved by the action, activity or technology.

**Registration:** An accounting mechanism used by DEP to track certified and verified credits before they may be used to comply with NPDES permit effluent limitations.

**Total Mass Load (lbs):**

**Monthly Total Mass Load** = The sum of the actual daily discharge loads for TN and TP (lbs/day) divided by the number of samples per month, multiplied by the number of days in the month in which there was a discharge. The daily discharge load for TN and TP (lbs/day) equals the average daily flow (MGD) on the day of sampling, multiplied by that day’s sample concentration for TN and TP (mg/l), multiplied by 8.34.

**Annual Total Mass Load** = The sum of the actual daily discharge loads for TN and TP (lbs/day) divided by the number of samples per Compliance Year, multiplied by the number of days in the Compliance Year in which there was a discharge.

**Total Nitrogen:** For concentration and load, Total Nitrogen is the sum of Total Kjeldahl-N (TKN) plus Nitrite-Nitrate as N ( $\text{NO}_2+\text{NO}_3\text{-N}$ ), where TKN and  $\text{NO}_2+\text{NO}_3\text{-N}$  are measured in the same sample.

**Truing Period:** The time provided following each Compliance Year for a permittee to comply with Cap Loads through the application of Credits and Offsets. The Truing Period will start on October 1<sup>st</sup> and end on November 28<sup>th</sup> of the same calendar year, unless DEP extends this period. During this period, compliance for the specified year may be achieved by using registered Credits that were generated during that Compliance Year. For example, Credits that are used to achieve compliance in Compliance Year 2016 must have been generated during Compliance Year 2016. Approved Offsets that have been generated may also be applied during the Truing Period.

**Verification:** Assurance that the verification plan contained in a certification, permit or other approval issued by DEP has been implemented. Verification is required prior to registration of the credits for use in an NPDES permit to comply with NPDES permit effluent limitations.

#### C. Nutrient Credits

1. Credits may be used for compliance with the Cap Loads when authorized under 25 Pa. Code § 96.8 (Use of offsets and tradable credits from pollution reduction activities in the Chesapeake Bay Watershed), including amendments, updates and revisions thereto; in accordance with DEP's Phase 3 WIP Wastewater Supplement (see [www.dep.pa.gov/npdes-bay](http://www.dep.pa.gov/npdes-bay)); and in accordance with DEP's Phase 3 WIP Nutrient Trading Supplement (see [www.dep.pa.gov/nutrient\\_trading](http://www.dep.pa.gov/nutrient_trading)).
2. Where effluent limitations for TN and/or TP are established in Part A of the permit for reasons other than the Cap Load assigned for protection of the Chesapeake Bay ("local nutrient limits"), the permittee may purchase and apply credits for compliance with the Cap Load(s) only when the permittee has demonstrated that local nutrient limits have been achieved.
3. Where local nutrient limits are established in Part A of the permit, the permittee may sell any credits generated only after the permittee has demonstrated that local nutrient limits have been achieved and those credits have been verified in accordance with the procedures established in the Phase 3 WIP Nutrient Trading Supplement.

#### D. Use of Offsets for Compliance

1. Offsets can only be used by the permittee to comply with its Cap Loads. Offsets are not eligible for use as Credits.
2. Offsets must be approved by DEP in writing before they may be applied for compliance with Cap Loads.
3. Offsets that are approved under this permit are listed in Part A, Footnotes. These Offsets may be applied each Compliance Year toward compliance with the Cap Loads. The application of these Offsets must be reported on an annual basis. Additional Offsets may be approved throughout the permit term.
4. Offsets may be approved for the transfer of load between facilities owned by the same entity if (1) the facility receiving Offsets does not discharge to waters classified as impaired for nutrients and (2) the Delivery Ratios approved by DEP for TN or TP, as applicable, are the same. Delivery ratios for the facility authorized to discharge under this permit are listed in DEP's Phase 3 Watershed Implementation Plan (WIP) Wastewater Supplement, available at the following website:

[www.dep.pa.gov/npdes-bay](http://www.dep.pa.gov/npdes-bay)

Such Offsets may only be applied in the Compliance Year in which the transfer occurred, and are not cumulative.

5. Industrial facilities that withdraw water from the same stream or water body to which they discharge, and which have intake monitoring requirements in Part A of this permit, may claim Offsets for background

nutrient loads of TN and/or TP if the Cap Loads do not include a deduction for background loads. To utilize the Offsets, the permittee must sample the intake and effluent on the same day, and determine mass loading using the actual flow data for intake and effluent on that day. No Offsets shall be granted for intake nutrients associated with groundwater withdrawals.

E. Reporting Requirements

1. eDMR System – The permittee shall utilize DEP’s electronic Discharge Monitoring Report (eDMR) system to submit DMR data and Supplemental DMR forms.
2. Chesapeake Bay Annual DMR – The permittee shall submit the Chesapeake Bay Annual DMR through the eDMR system to report Annual Total Mass Loads and Annual Net Mass Loads by November 28th following each Compliance Year.
3. Supplemental Reports – The permittee shall utilize DEP’s Annual Chesapeake Bay Spreadsheet (“Spreadsheet”), available at [www.dep.pa.gov/npdes-bay](http://www.dep.pa.gov/npdes-bay), to record all nutrient concentrations and loads throughout the Compliance Year. The permittee shall also use the Spreadsheet to document all Credits purchased and Offsets applied in order to calculate the facility’s Annual Net Mass Loads for TN and TP. The permittee shall submit the Spreadsheet through the eDMR system at the time the Chesapeake Bay Annual DMR is submitted.

II. **OTHER REQUIREMENTS**

- A. The approval herein given is specifically made contingent upon the permittee acquiring all necessary property rights by easement or otherwise, providing for the satisfactory construction, operation, maintenance or replacement of all structures associated with the herein approved discharge in, along, or across private property, with full rights of ingress, egress and regress.
- B. Collected screenings, slurries, sludges, and other solids shall be handled, recycled and/or disposed of in compliance with the Solid Waste Management Act (35 P.S. §§ 6018.101 – 6018.1003), 25 Pa. Code Chapters 287, 288, 289, 291, 295, 297, and 299 (relating to requirements for landfilling, impoundments, land application, composting, processing, and storage of residual waste), Chapters 261a, 262a, 263a, and 270a (related to identification of hazardous waste, requirements for generators and transporters, and hazardous waste, requirements for generators and transporters, and hazardous waste permit programs), federal regulation 40 CFR Part 257, The Clean Streams Law, and the Federal Clean Water Act and its amendments. Screenings collected at intake structures shall be collected and managed and not be returned to the receiving waters.

The permittee is responsible to obtain or assure that contracted agents have all necessary permits and approvals for the handling, storage, transport and disposal of solid waste materials generated as a result of wastewater treatment.

- C. The terms and conditions of Water Quality Management (WQM) permits that may have been issued to the permittee relating to discharge requirements are superseded by this NPDES permit unless otherwise stated herein.
- D. If the applicable standard or effluent guideline limitation relating to the application for Best Available Technology (BAT) Economically Achievable or to Best Conventional Technology (BCT) is developed by DEP or EPA for this type of industry, and if such standard or limitation is more stringent than the corresponding limitations of this permit (or if it controls pollutants not covered by this permit), DEP may modify or revoke and reissue the permit to conform with that standard or limitation.
- E. The permittee shall optimize chlorine dosages used for disinfection or other purposes to minimize the concentration of Total Residual Chlorine (TRC) in the effluent, meet applicable effluent limitations, and reduce the possibility of adversely affecting the receiving waters. Optimization efforts may include an evaluation of wastewater characteristics, mixing characteristics, and contact times, adjustments to process controls, and maintenance of the disinfection facilities. If DEP determines that effluent TRC is causing

adverse water quality impacts, DEP may reopen this permit to apply new or more stringent effluent limitations and/or require implementation of control measures or operational practices to eliminate such impacts.

Where the permittee does not use chlorine for primary or backup disinfection, but proposes the use of chlorine for cleaning or other purposes, the permittee shall notify DEP prior to initiating use of chlorine and monitor TRC concentrations in the effluent on each day in which chlorine is used. The results shall be submitted as an attachment to the DMR.

### III. WHOLE EFFLUENT TOXICITY (WET)

#### A. General Requirements

1. The permittee shall conduct CHRONIC WET tests as specified in this section. The permittee shall collect discharge samples and perform WET tests to generate growth, reproduction and survival data for both the cladoceran, *Ceriodaphnia dubia* and the fathead minnow, *Pimephales promelas*.
2. Samples shall be collected at Outfall 001 in accordance with paragraph E.
3. The permittee shall perform testing using the following dilution series: 100%, 60%, 30%, 2%, and 1% effluent, with a control, where 2.00 is the facility-specific Target In-Stream Waste Concentration (TIWC).
4. The determination of whether a test endpoint passes or fails shall be made using DEP's WET Analysis Spreadsheet (available at [www.dep.pa.gov/wett](http://www.dep.pa.gov/wett)) by comparing replicate data for the control with replicate data for the TIWC dilution or any dilution greater than the TIWC.
5. The permittee shall submit only valid WET test results to DEP.

#### B. Test Frequency and Reporting

1. WET testing shall be conducted annually, at a minimum, during the period January 1 – December 31. Annual WET tests must be completed at least 6 months apart, and shall start in the year the permit becomes effective if the permit effective date is prior to October 1.
2. A complete WET test report shall be submitted to the DEP regional office that issued the permit within 45 days of test completion. A complete WET test report submission shall include the information contained in paragraph H, below. The permittee shall continue annual WET monitoring, at a minimum, during the permit renewal review period and during any period of administrative extension of this permit.
3. If a test failure is determined for any endpoint during annual monitoring, the permittee shall initiate a re-test for the species with the failure within 45 days of test completion. All endpoints for the species shall be evaluated in the re-test. The results of the re-test shall be submitted to the DEP regional office that issued the permit.
4. If a passing result is determined for all endpoints in a re-test, the permittee may resume annual monitoring.
5. If there is a failure for one or more endpoints in a re-test, the permittee shall initiate or continue quarterly WET testing for both species until there are four consecutive passing results for all endpoints. The results of all tests shall be submitted to the DEP regional office that issued the permit. In addition, the permittee shall initiate a Phase I Toxicity Reduction Evaluation (TRE) as specified in paragraph C, below.
6. The permittee shall attach the WET Analysis Spreadsheet for the latest four consecutive WET tests to the NPDES permit renewal application that is submitted to DEP at least 180 days prior to the permit expiration date.

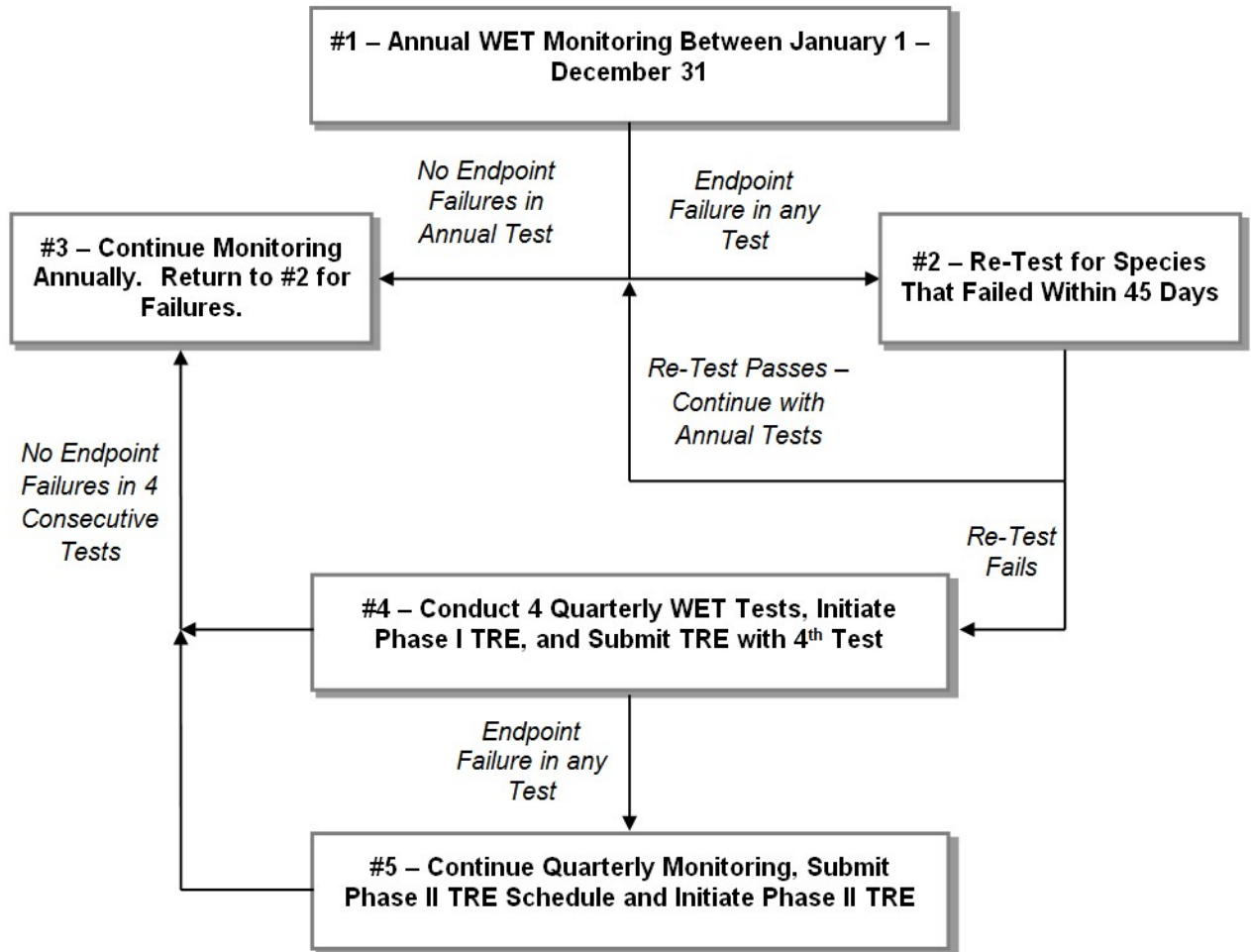
C. Phase I Toxicity Reduction Evaluation (TRE)

1. The Phase I TRE trigger is one WET endpoint failure followed by a re-test that confirms the failure for the same species. When the TRE process is triggered, quarterly WET testing shall be initiated for both species until there are four consecutive passing results for all endpoints. The Phase I TRE may include a Toxicity Identification Evaluation (TIE) if the permittee cannot immediately identify the possible causes of the effluent toxicity and the possible sources of the causative agents.
2. The permittee shall, within one year following the Phase I TRE trigger, submit a Phase I TRE report to the DEP regional office that issued the permit. The Phase I TRE shall be conducted in accordance with EPA's guidance, "Toxicity Reduction Evaluation for Municipal Wastewater Treatment Plants" (EPA/833B-99/002), "Generalized Methodology for Conducting Industrial Toxicity Reduction Evaluations" (EPA/600/2-88/070), and other relevant EPA guidance, as applicable. If a TIE is conducted as part of the Phase I TRE, it shall conform to EPA's guidance, "Methods for Aquatic Toxicity Identification Evaluations Phase I" (EPA/600/6-91/003), "Phase II" (EPA/600/R-92/080), "Phase III" (EPA/600/R-92/081) and other relevant EPA guidance. The Phase I TRE report shall be submitted with the fourth quarterly WET test report that is completed following the Phase I TRE trigger. The TRE shall include all activities undertaken to identify the cause(s) and source(s) of toxicity and any control efforts.
3. If all four quarterly WET tests produce passing results for all endpoints during the Phase I TRE process, performance of a Phase II TRE is not required, and annual WET testing in accordance with paragraph B.1 may resume.
4. If the four WET tests produce at least one failing result during the Phase I TRE process, the permittee shall continue quarterly WETT monitoring for both species and initiate a Phase II TRE in accordance with paragraph D. In this case, the Phase I TRE must include a schedule for completion of the Phase II TRE. The schedule must include interim milestones and a final completion date not to exceed two years from the initiation of the Phase II TRE. The permittee shall implement the Phase II TRE in accordance with the schedule unless DEP issues written approval to modify the schedule or cease performance of the Phase II TRE.
5. Re-tests during the TRE process are required for invalid tests but are optional and at the discretion of the permittee for valid tests. The results of all re-tests must be submitted to the DEP regional office that issued the permit along with the required elements in paragraph H.

D. Phase II Toxicity Reduction Evaluation (TRE)

1. The Phase II TRE trigger is one WET endpoint failure during performance of the Phase I TRE. A Phase II TRE, if required, shall conform to EPA's guidance, "Toxicity Reduction Evaluation for Municipal Wastewater Treatment Plants" (EPA/833B-99/002), "Generalized Methodology for Conducting Industrial Toxicity Reduction Evaluations" (EPA/600/2-88/070), and other relevant EPA guidance, as applicable. A Phase II TRE evaluates the possible control options to reduce or eliminate the effluent toxicity and the implementation of controls.
2. Once initiated, the Phase II TRE must continue until the source(s) of toxicity are controlled as evidenced by four consecutive WET test passing results for all endpoints, and a final TRE report must be submitted on or before the date specified in the schedule, unless otherwise approved by DEP in writing.
3. If four consecutive quarterly WET tests produce passing results for all endpoints during the Phase II TRE process, annual WET testing in accordance with paragraph B.1 may be initiated or resume.

An overview of the process described in paragraphs B, C and D is presented below:



E. Sample Collection

For each acute testing event, a 24-hour flow-proportioned composite sample shall be collected. For each chronic testing event, three 24-hour flow-proportioned, composite samples shall be collected over a seven day exposure period. The samples must be collected at a frequency of not greater than every two hours and must be flow-proportioned. The samples must be collected at the permit compliance sampling location. Samples must be analyzed within 36 hours from the end of the compositing period and must be placed on ice and held at  $\leq 6^{\circ}\text{C}$ . Refer to the sample handling and preservation regulations set forth in 40 CFR 136, 25 Pa. Code Chapter 252, The NELAC Institute (TNI) Standard, and the appropriate EPA methods.

F. Test Conditions and Methods

Laboratories must be accredited by the DEP Laboratory Accreditation Program in order to perform and report WET tests for NPDES permit compliance. Laboratories must be either State or NELAP accredited.

1. Acute tests shall be completed in accordance with EPA’s “Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms” (EPA-821-R-02-012, latest edition). Forty eight (48) hour static non-renewal tests shall be used.
2. Chronic tests shall be completed in accordance with EPA’s “Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms” (EPA-821-R-02-013, latest edition). Seven (7) day tests shall be used with renewal every 24 hours.

3. The quality assurance and control (QA/QC) requirements and test acceptability standards specified in EPA's test methods and the requirements set forth in 25 Pa Code Chapter 252 or the TNI Standard must be followed.
4. If the permittee or its accredited laboratory determines that QA/QC requirements and/or test acceptability standards have not been met, a re-test shall be initiated within 45 days. Original test data must be maintained by the laboratory and be submitted to DEP upon request. The justification for a re-test must be clearly documented and kept on file with the sample results.

#### G. Chemical Analyses

Chemical analyses must follow the requirements of the EPA methods and applicable State and/or Federal regulations.

1. Chemical analysis on effluent samples shall include pH, Conductivity, Total Alkalinity, Total Hardness, Total Residual Chlorine, Total Ammonia (Unionized Ammonia), Dissolved Oxygen and temperature. Chemical analyses as described in the EPA Methods (above) shall be performed for each sampling event, including each new batch of dilution water and each testing event.
2. In addition to the chemical analyses required above, those parameters listed in Part A of the NPDES permit for the outfall(s) tested shall be analyzed concurrently with the WET test by using the method(s) specified in the permit.

#### H. WET Report Elements

WET test reports that are submitted to DEP must include the requirements identified in 25 Pa. Code § 252.401(j)(1) – (15) or in the TNI Standard, or equivalent, as well as the following information:

1. A general test description, including the origin and age of test organisms, dates and results of reference toxicant tests, light and temperature regimes, and other documentation that QA and test acceptability criteria as specified in EPA's methods and DEP's QA Summaries have been met.
2. A description of sample collection procedures and sampling location.
3. Name(s) of individual(s) collecting and transporting samples, including sample renewals, and the date(s) and time(s) of sample collection.
4. All chemical and physical data including laboratory quantitation limits and observations made on the species. The hardness shall be reported for each test condition.
5. Copies of raw data sheets and/or bench sheets with data entries and signatures.
6. When effluents are dechlorinated, dechlorination procedures must be described and if applicable a thiosulfate control used in addition to the normal dilution water control. If the thiosulfate control results are significantly different from the normal control, as determined using DEP's WET Analysis Spreadsheet, the thiosulfate control shall be used in the spreadsheet for comparison with the TIWC condition. The WET report must specify which control was used to determine whether the test result is pass or fail.
7. A description of all observations or test conditions that may have affected the test outcome.
8. Control charts for the species tested regarding age, temperature test range, mortality data and all reference toxicant tests.
9. A completed WET test summary report (3800-FM-BCW0485).
10. A DEP WET Analysis Spreadsheet printout that provides control and TIWC replicate data and displays the outcome of the test (pass or fail) for each endpoint tested.

WETT reports shall be submitted to the DEP regional office that issued the permit and, for discharges to the Delaware River basin, the Delaware River Basin Commission (DRBC).

#### IV. **CHEMICAL ADDITIVES**

##### A. Approved Chemical Additives List

1. The permittee is authorized to use chemical additives that are published on DEP's Approved Chemical Additives List (Approved List) (see [www.dep.pa.gov/chemicaladditives](http://www.dep.pa.gov/chemicaladditives)) subject to paragraphs A.2 and A.3, below.
2. The permittee may not discharge a chemical additive at a concentration that is greater than the water quality-based effluent limitation (WQBEL) for the chemical additive or, if applicable, a technology-based effluent limitation. If effluent limitations are not specified in Part A of this permit for the chemical additive, the permittee is responsible for determining the WQBEL and ensuring the WQBEL is not exceeded by restricting usage to an amount that will not cause an excursion above in-stream water quality standards.
3. If the permittee decides to use a chemical additive that is on DEP's Approved List and the use would either (1) constitute an increase in the usage rate specified in the NPDES permit application or previous notification to DEP or (2) constitute a new use, not identified in the NPDES permit application or otherwise no previous notification occurred, the permittee shall complete and submit the "Chemical Additives Notification Form" (3800-FM-BCW0487) to the DEP regional office that issued the permit. The permittee may proceed to use the chemical additive as reported on the Form upon receipt by the DEP regional office.

##### B. New Chemical Additives, Not on Approved Chemical Additives List

1. In the event the permittee wishes to use a chemical additive that is not listed on DEP's Approved List, the permittee shall submit the "New Chemical Additives Request Form" (3800-FM-BCW0486) to DEP's Central Office, Bureau of Clean Water (BCW), Division of NPDES Permitting, Rachel Carson State Office Building, PO Box 8774, Harrisburg, PA 17105-8774, prior to use. A copy shall be submitted to the DEP regional office that issued the permit. The form must be completed in whole in order for BCW to approve the chemical additive, and a Material Safety Data Sheet (MSDS) that meets the minimum requirements of 29 CFR 1910.1200(g) must be attached.
2. Following placement of the chemical additive on the Approved List, the permittee may submit the Chemical Additive Notification Form in accordance with paragraph A.3, above, to notify DEP of the intent to use the approved chemical additive. The permittee may proceed with usage when the new chemical has been identified on DEP's Approved List and following DEP's receipt of the Chemical Additives Notification Form.
3. The permittee shall restrict usage of chemical additives to the maximum usage rates determined and reported to DEP on Chemical Additives Notification Forms.

##### C. Chemical Additives Usage Reporting Requirements

The "Chemical Additives Usage Form" (3800-FM-BCW0439) shall be used to report the usage of chemical additives and shall be submitted as an attachment to the Discharge Monitoring Report (DMR) at the time the DMR is submitted.

- D. DEP may amend this permit to include WQBELs or otherwise control usage rates of chemical additives if there is evidence that usage is adversely affecting receiving waters, producing Whole Effluent Toxicity test failures, or is causing excursions of in-stream water quality standards.

**V. REQUIREMENTS APPLICABLE TO STORMWATER OUTFALLS**

- A. The permittee is authorized to discharge non-polluting stormwater from its site, alone or in combination with other wastewaters, through the following outfalls:

Outfall No.	Area Drained (ft <sup>2</sup> )	Latitude	Longitude	Description
001	2,300,000	40° 57' 45"	-76° 38' 39"	East End
002	980,000	40° 57' 21"	-76° 39' 27"	East End Parking and Road
003	4,573,800	40° 57' 48"	-76° 38' 16"	West End Landfill

Monitoring requirements and effluent limitations for these outfalls are specified in Part A of this permit, if applicable.

- B. Stormwater Annual Report.

The permittee shall submit a complete Annual Report to the DEP office that issued the permit by May 1 each year using DEP's Annual Report template, attached to this permit. The Annual Report shall address activities under the permit for the previous calendar year. The permittee shall submit the Annual Report electronically if notified by DEP in writing. If the permittee discharges to a municipal separate storm sewer system (MS4), a copy of the Annual Report shall be submitted to the operator of the MS4.

- C. Best Management Practices (BMPs).

The permittee shall implement and, as necessary, maintain the following BMPs to remain in compliance with this permit.

1. Pollution Prevention and Exposure Minimization.

The permittee shall minimize the exposure of manufacturing, processing, and material storage areas (including loading and unloading, storage, disposal, cleaning, maintenance, and fueling operations) to rain, snow, snowmelt, and runoff in order to minimize pollutant discharges by either locating industrial materials and activities inside or protecting them with storm resistant coverings wherever feasible. The permittee shall implement and maintain the following measures, at a minimum:

- a. Use grading, berming or curbing to prevent runoff of polluted stormwater and divert run-on away from areas that contain or have the potential to generate polluted stormwater
- b. Locate materials, equipment, and activities so that potential leaks and spills are contained or able to be contained or diverted before discharge to surface waters
- c. Clean up spills and leaks promptly using dry methods (e.g., absorbents) to prevent the discharge of pollutants to surface waters
- d. Store leaky vehicles and equipment indoors or, if stored outdoors, use drip pans and absorbents to prevent the release of pollutants to the environment.
- e. Use spill/overflow protection equipment.
- f. Perform all vehicle and/or equipment cleaning operations indoors, under cover, or in bermed areas that prevent runoff and run-on and also that capture any overspray. Store all vehicle and equipment maintenance materials – such as oils, hydraulic fluids, and lubricants – indoors or under storm resistant coverings, with adequate spill protection measures in place.
- g. Ensure that all material and chemical storage containers with the potential to cause a discharge of pollutants remain properly sealed at all times, except while in use. All empty containers shall be properly sealed and stored prior to disposal.
- h. Drain fluids from equipment and vehicles that will be decommissioned, and, for any equipment and

vehicles that will remain unused for extended periods of time, inspect at least monthly for leaks.

- i. Keep all dumpster lids closed when not in use. For dumpsters and roll off boxes that do not have lids, ensure that discharges have a control (e.g., secondary containment, treatment). This permit does not authorize dry weather discharges from dumpsters or roll off boxes.
- j. Minimize contamination of stormwater runoff from fueling areas by implementing the following BMPs where determined to be feasible: cover fueling areas; install oil/water separators or oil and grease traps in fueling area storm drains; use berms to prevent run-on to and runoff from fueling areas; use spill/overflow protection and cleanup equipment; use dry cleanup methods; and/or treat and/or recycle collected stormwater runoff.
- k. Train employees routinely (no less than annually) on pollution prevention practices as contained in the PPC Plan.

2. Good Housekeeping.

The permittee shall perform good housekeeping measures in order to minimize pollutant discharges including the routine implementation of the following measures, at a minimum:

- a. Implement a routine cleaning and maintenance program for all impervious areas of the facility where particulate matter, dust or debris may accumulate to minimize the discharge of pollutants in stormwater. The cleaning and maintenance program must encompass, as appropriate, areas where material loading and unloading, storage, handling and processing occur.
- b. Store materials in appropriate containers.
- c. Minimize the potential for waste, garbage and floatable debris to be discharged by keeping exposed areas free of such materials, or by intercepting them before they are discharged.
- d. Eliminate floor drain connections to storm sewers.
- e. Use drip pans, drain boards, and drying racks to direct drips back into a fluid holding tank for reuse. Drain fluids from all equipment and parts prior to disposal. Promptly transfer used fluids to the proper container; do not leave full drip pans or other open containers around the shop. Empty and clean drip pans and containers.
- f. Label and track the recycling of waste material (e.g., used oil, spent solvents, batteries).
- g. Prohibit the practice of hosing down an area where the practice would result in the discharge of pollutants to a municipal or other storm water collection system that conveys pollutants off-site without proper treatment.
- h. Maintain the accessibility of all outfall locations for the purposes of inspections and sampling.

3. Erosion and Sediment Controls.

- a. The permittee shall minimize erosion and pollutant discharges by stabilizing exposed soils and placing flow velocity dissipation devices at discharge locations to minimize channel and stream bank erosion and scour in the immediate vicinity of stormwater outfalls.
- b. The permittee shall conduct all earth disturbance activities and, when applicable, shall maintain all post-construction stormwater management (PCSM) BMPs in accordance with 25 Pa. Code Chapter 102.
- c. The permittee may not utilize polymers or other chemicals to treat stormwater unless written permission is obtained from DEP.

4. Spill Prevention and Responses.

The permittee shall minimize the potential for leaks, spills and other releases that may be exposed to stormwater and develop a PPC Plan for effective responses to such releases. The permittee shall conduct the following spill prevention and response measures, at a minimum:

- a. Maintain an organized inventory of materials on-site. Plainly label containers (e.g., "Used Oil," "Spent Solvents," "Fertilizers and Pesticides") that could be susceptible to spillage or leakage to encourage proper handling and facilitate rapid response if spills or leaks occur.
- b. Implement procedures for material storage and handling, including the use of secondary containment and barriers between material storage and traffic areas, or a similarly effective means designed to prevent the discharge of pollutants from these areas.
- c. Develop and implement employee and contractor training on the procedures for expeditiously stopping, containing, and cleaning up leaks, spills, and other releases. This shall also address all sector-specific procedures and potential pollutant sources relating to the industrial activity present on site including, but not limited to: use of reused and recycled waters; solvents management; proper disposal of dyes, petroleum products, and spent lubricants; hazardous treatment chemicals; and any additional training requirements included in the applicable appendices. The permittee shall conduct periodic training, no less than annually, and document the training on the Annual Report specified in paragraph B of this section.
- d. Keep spill kits on-site, located near areas where spills may occur or where a rapid response can be made.
- e. Notify appropriate facility personnel when a leak, spill, or other release occurs.
- f. To the extent possible, eliminate or reduce the number and amount of hazardous materials and waste by substituting non-hazardous or less hazardous materials of equal function, as determined by the permittee.
- g. Clean up leaks, drips, and other spills without using large amounts of water or liquid cleaners. Use absorbents for dry cleanup whenever possible.

When a leak, spill or other release occurs during a 24-hour period that contains a hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under 40 CFR Parts 110, 117 or 302, the permittee shall, in addition to the notification requirements contained in Part A III.C.4 of this permit, notify the National Response Center (NRC) at (800) 424-8802 in accordance with the requirements of 40 CFR Parts 110, 117, and 302 as soon as the permittee becomes aware of the discharge.

5. Sector- and Site-Specific BMPs.

- a. The permittee shall implement the BMPs in the applicable Appendix to the NPDES PAG-03 General Permit for Discharges of Stormwater Associated with Industrial Activities that is currently in effect.

D. Routine Inspections.

1. The permittee shall visually inspect the following areas and BMPs on a semiannual basis (calendar periods), at a minimum:
  - a. Areas where industrial materials or activities are exposed to stormwater.
  - b. Areas identified in the PPC Plan as potential pollutant sources.
  - c. Areas where spills or leaks have occurred in the past three years.

- d. Stormwater outfalls and locations where authorized non-stormwater discharges may commingle.
- e. Physical BMPs used to comply with this permit.

At least once each calendar year, the routine inspection must be conducted during a storm event that is greater than 0.1 inch in magnitude and that occurs at least 72 hours from the previous measurable (greater than 0.1 inch rainfall) storm event when a stormwater discharge is occurring.

- 2. The permittee shall evaluate and document the following conditions, at a minimum, in the Annual Report required by paragraph B of this section through required inspections:
  - a. Raw materials, products (intermediate, in-process, or final) or wastes that may have or could come into contact with stormwater.
  - b. Leaks or spills from equipment, drums, tanks and other containers.
  - c. Off-site tracking of industrial or waste materials, or sediment where vehicles enter or exit the site.
  - d. Tracking or blowing of raw, final or waste materials from areas of no exposure to exposed areas.
  - e. Control measures or BMPs needing replacement, maintenance or repair.
  - f. The presence of authorized non-stormwater discharges that were not identified in the permit application and non-stormwater discharges not authorized by this permit.

E. Preparedness, Prevention and Contingency (PPC) Plan

- 1. The permittee shall develop and implement a PPC Plan in accordance with 25 Pa. Code § 91.34 following the guidance contained in DEP's "Guidelines for the Development and Implementation of Environmental Emergency Response Plans" (DEP ID 400-2200-001), its NPDES-specific addendum and the minimum requirements below.
  - a. The PPC Plan must identify all potential sources of pollutants that may reasonably be expected to affect the quality of stormwater discharges from the facility.
  - b. The PPC Plan must describe preventative measures and BMPs that will be implemented to reduce or eliminate pollutants from coming into contact with stormwater resulting from routine site activities and spills.
  - c. The PPC Plan must address actions that will be taken in response to on-site spills or other pollution incidents.
  - d. The PPC Plan must identify areas which, due to topography or other factors, have a high potential for soil erosion, and identify measures to limit erosion. Where necessary, erosion and sediment control measures must be developed and implemented in accordance with 25 Pa. Code Chapter 102 and DEP's "Erosion and Sediment Pollution Control Manual" (DEP ID 363-2134-008).
  - e. The PPC Plan must address security measures to prevent accidental or intentional entry which could result in an unintentional discharge of pollutants.
  - f. The PPC Plan must include a plan for training employees and contractors on pollution prevention, BMPs, and emergency response measures. This training must be conducted in accordance with paragraph C.4.c of this section.
  - g. If the facility is subject to SARA Title III, Section 313, the PPC Plan must identify releases of "Water Priority Chemicals" within the previous three years. Water Priority Chemicals are those identified in EPA's "Guidance for the Determination of Appropriate Methods for the Detection of Section 313

Water Priority Chemicals” (EPA 833-B-94-001, April 1994). The Plan must include an evaluation of all activities that may result in the stormwater discharge of Water Priority Chemicals.

- h. Spill Prevention Control and Countermeasure (SPCC) plans may be used to meet the requirements of this section if the minimum requirements are addressed.
2. The permittee shall review and if necessary update the PPC Plan on an annual basis, at a minimum, and when one or more of the following occur:
    - a. Applicable DEP or federal regulations are revised, or this permit is revised.
    - b. The PPC Plan fails in an emergency.
    - c. The facility’s design, industrial process, operation, maintenance, or other circumstances change in a manner that materially increases the potential for fires, explosions or releases of toxic or hazardous constituents; or which changes the response necessary in an emergency.
    - d. The list of emergency coordinators or equipment changes.
    - e. When notified in writing by DEP.

The permittee shall maintain all PPC Plan updates on-site, make the updates available to DEP upon request, and document the updates in Annual Reports.

F. Stormwater Monitoring Requirements.

1. The permittee shall conduct monitoring of its stormwater discharges at the representative outfalls identified in Part A of this permit, if applicable. The permittee shall document stormwater sampling event information and no exposure conditions for each calendar year on the Annual Report required by paragraph B of this section.
2. The permittee shall, upon written notice from DEP, install inlets, pipes, and/or other structures or devices that are considered necessary in order to conduct representative stormwater sampling, in accordance with a schedule provided by DEP.
3. The permittee shall collect all samples from discharges resulting from a storm event that is greater than 0.1 inch in magnitude and that occurs at least 72 hours from the previously measurable (greater than 0.1 inch rainfall) storm event. The 72-hour storm interval is waived when the preceding storm did not yield a measurable discharge, or if the permittee is able to document that a less than 72-hour interval is representative for local storm events during the sample period.
4. The permittee shall collect all grab samples within the first 30 minutes of a discharge, unless the permittee determines that this is not possible, in which case grab samples must be collected as soon as possible after the first 30 minutes of a discharge. The permittee shall explain why samples could not be collected within the first 30 minutes of any discharge on the Annual Report required by paragraph B of this section.
5. In the event that the permittee’s stormwater runoff is directed to a basin or other stormwater control structure that does not discharge during a given monitoring period, the permittee may report “No Discharge” on DMRs. The permittee shall submit the results of at least one sample near the basin outflow structure during a representative storm event on the renewal permit application.
6. The permittee shall collect stormwater samples at times when commingling with non-stormwater discharges is not occurring or at locations prior to the commingling of non-stormwater discharges, unless Part A of this permit recognizes commingling of stormwater and non-stormwater discharges.
7. In the event that stormwater discharge concentrations for a parameter exceeds the benchmark values identified below at the same outfall for two or more consecutive monitoring periods, the permittee shall

develop implement the following to reduce the concentrations of the parameters in stormwater discharges, based on the number of consecutive exceedances.

Parameter	Benchmark Value (mg/L)
Total Suspended Solids	100
Oil and Grease	30
pH	9.0
Chemical Oxygen Demand	120

- a. After **two or more** consecutive exceedances of benchmark values (starting on the effective date of this Permit), develop a corrective action plan (CAP) to reduce the concentrations of the pollutants in stormwater discharges. Failure to submit and implement a CAP constitutes non-compliance.

The permittee shall submit the CAP to DEP within 90 days of the end of the monitoring period triggering the need for the plan and shall implement the plan immediately or in accordance with a schedule proposed by the permittee in the CAP, unless otherwise notified by DEP in writing. The permittee shall, in developing the plan, evaluate alternatives to reduce stormwater concentrations and implement all relevant and feasible control measures, unless the permittee can demonstrate one or more of the following:

- i. The exceedances are solely attributable to natural background sources or to run-on from off-site;
  - ii. No further pollutant reductions are technologically available and economically practicable and achievable in light of best industry practice; or
  - iii. Further pollutant reductions are not necessary to prevent stormwater discharges from causing or contributing to an exceedance of applicable water quality standards.
- b. After **four or more** consecutive exceedances of benchmark values (starting on the effective date of this Permit), the permittee shall develop a CAP and consider implementation of all additional stormwater BMPs outlined in the Stormwater BMPs Checklist (3800-PM-BCW0083I) for the applicable appendix. Failure to submit and implement a CAP and the Stormwater BMPs Checklist constitutes non-compliance with this General Permit.

The permittee shall submit a new CAP and include the Stormwater BMPs Checklist (3800-PM-BCW0083I) to certify that all applicable controls have been considered for implementation within 90 days of the end of the monitoring period for which the fourth or more consecutive exceedance was identified. For each BMP in the checklist that is not implemented, the permittee shall demonstrate one or more of the following:

- i. The BMP is infeasible for the facility;
- ii. The exceedances are solely attributable to natural background sources or to run-on from off-site;
- iii. The exceedances were due to some aberration or extraordinary circumstances; or
- iv. Further pollutant reductions are not necessary to prevent stormwater discharges from causing or contributing to an exceedance of applicable water quality standards.

The permittee shall identify on the Stormwater BMPs Checklist that either the BMPs have been implemented or a reason why they were infeasible or not applicable. The Stormwater BMPs Checklist shall be included with the CAP for each additional consecutive exceedance.

**VI. COOLING WATER INTAKE STRUCTURE(S)**

- A. Nothing in this permit authorizes a take of endangered or threatened species under the Endangered Species Act.
- B. Technology and operational measures employed at the cooling water intake structures must be operated in a way that minimizes impingement mortality and entrainment to the smallest amount, extent, or degree reasonably possible.
- C. The location, design, construction or capacity of the intake structure(s) may not be altered without prior approval of DEP.
- D. The permittee must notify DEP before changing its source of cooling water.
- E. The permittee shall retain data and other records for any information developed pursuant to Section 316(b) of the Clean Water Act for a minimum of ten (10) years.
- F. Throughout the permit term, the permittee shall continue to operate and maintain the following technologies or BMPs that constitute Best Technology Available (BTA) for reducing impingement:
  - Closed-cycle recirculating cooling system.
- G. Throughout the permit term, the permittee shall continue to operate and maintain the following technologies or BMPs that constitute Best Technology Available (BTA) for reducing entrainment:
  - Closed-cycle recirculating cooling system.
- H. The permittee shall cease use of the cooling water intake structures by December 31, 2028.



**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 Cherokee Pharmaceuticals, LLC  
 ADDRESS P.O. Box 367  
Riverside, PA 17868-0367  
 FACILITY Cherokee Pharmaceuticals  
 LOCATION Riverside Borough  
Northumberland County  
 WATERSHED 5-E

<b>PA0008419</b>
PERMIT NUMBER

<b>001</b>
OUTFALL NUMBER

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY

Reporting Frequency: Annually  
 DMR Effective From: Permit Effective Date  
 DMR Effective To: Permit Expiration Date  
 Permit Expires: \_\_\_\_\_  
 Permit Application Due: \_\_\_\_\_  
 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			
Total Nitrogen (Total Load, lbs) Effluent Net	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	64884 Total Annual	lbs	XXX	XXX	XXX	XXX		1/year	Calculation
Total Nitrogen (Total Load, lbs)	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	Report Total Annual	lbs	XXX	XXX	XXX	XXX		1/year	Calculation
Ammonia-Nitrogen (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	11748 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

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



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		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Total Nitrogen (Total Load, lbs)	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	Report Total Annual	lbs	XXX	XXX	XXX	XXX		1/year	Calculation
Ammonia-Nitrogen (Total Load, lbs)	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	Report 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
Aluminum, Total	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	Report Daily Max	lbs/day	XXX	XXX	Report Daily Max	mg/L		1/year	24-Hr Composite
Iron, Total	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	Report Daily Max	lbs/day	XXX	XXX	Report Daily Max	mg/L		1/year	24-Hr Composite
Mercury, Total	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	Report Daily Max	lbs/day	XXX	XXX	Report Daily Max	mg/L		1/year	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		
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY
COMMENTS (Report all violations on the "Non-Compliance Reporting Form")						

3800-FM-BCW0462 12/2016



**COMMONWEALTH OF PENNSYLVANIA  
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MONITORING PERIOD							
YEAR	MO	DAY		TO	YEAR	MO	DAY

Reporting Frequency: Annually  
 DMR Effective From: Permit Effective Date  
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PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
PCBs, Total	PERMIT REQUIREMENT	XXX	Report Daily Max	lbs/day	XXX	XXX	Report Daily Max	mg/L		1/year	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		
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY
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3800-FM-BCW0462 12/2016



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PERMIT NUMBER

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OUTFALL NUMBER

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY

Reporting Frequency: Monthly  
 DMR Effective From: Permit Effective Date  
 DMR Effective To: Permit Expiration Date  
 Permit Expires: \_\_\_\_\_  
 Permit Application Due: \_\_\_\_\_  
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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	Metered
pH	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	6.0 Inst Min	XXX	9.0 IMAX	S.U.		1/day	Grab
Oil and Grease	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	15.0 Avg Mo	30.0 IMAX	mg/L		1/week	Grab
Nitrate-Nitrite as N	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	Report Avg Mo	XXX	mg/L		2/week	24-Hr Composite
Nitrate-Nitrite as N (Total Load, lbs)	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	Report Total Mo	XXX	lbs	XXX	XXX	XXX	XXX		1/month	Calculation
Total Nitrogen	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	Report Avg Mo	XXX	mg/L		1/month	Calculation

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

3800-FM-BCW0462 12/2016



**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 Cherokee Pharmaceuticals, LLC  
 ADDRESS P.O. Box 367  
Riverside, PA 17868-0367  
 FACILITY Cherokee Pharmaceuticals  
 LOCATION Riverside Borough  
Northumberland County  
 WATERSHED 5-E

<b>PA0008419</b>
PERMIT NUMBER

<b>001</b>
OUTFALL NUMBER

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY

Reporting Frequency: Monthly  
 DMR Effective From: Permit Effective Date  
 DMR Effective To: Permit Expiration Date  
 Permit Expires: \_\_\_\_\_  
 Permit Application Due: \_\_\_\_\_  
 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			
Total Nitrogen (Total Load, lbs)	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	Report Total Mo	XXX	lbs	XXX	XXX	XXX	XXX		1/month	Calculation
Total Nitrogen (Total Load, lbs) Effluent Net	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	Report Total Mo	XXX	lbs	XXX	XXX	XXX	XXX		1/month	Calculation
Ammonia-Nitrogen	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	Report Avg Mo	XXX	mg/L		2/week	24-Hr Composite
Ammonia-Nitrogen (Total Load, lbs)	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	Report Total Mo	XXX	lbs	XXX	XXX	XXX	XXX		1/month	Calculation
Total Kjeldahl Nitrogen	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	Report Avg Mo	XXX	mg/L		2/week	24-Hr Composite
Total Kjeldahl Nitrogen (Total Load, lbs)	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	Report Total Mo	XXX	lbs	XXX	XXX	XXX	XXX		1/month	Calculation

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DEPARTMENT OF ENVIRONMENTAL PROTECTION  
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		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Total Phosphorus	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	Report Avg Mo	XXX	mg/L		2/week	24-Hr Composite
Total Phosphorus (Total Load, lbs)	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	Report Total Mo	XXX	lbs	XXX	XXX	XXX	XXX		1/month	Calculation
Total Phosphorus (Total Load, lbs) Effluent Net	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	Report Total Mo	XXX	lbs	XXX	XXX	XXX	XXX		1/month	Calculation
Iron, Dissolved	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	XXX	7.0 IMAX	mg/L		1/week	Grab

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PERMIT NUMBER

<b>001</b>
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MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY

Reporting Frequency: Semi-Annually  
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		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Chemical Oxygen Demand (COD)	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	XXX	Report Daily Max	mg/L		1/6 months	Grab
Total Suspended Solids	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	XXX	Report Daily Max	mg/L		1/6 months	Grab

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<b>PA0008419</b>
PERMIT NUMBER

<b>002</b>
OUTFALL NUMBER

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY

Reporting Frequency: Semi-Annually  
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		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
pH	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	XXX	Report Daily Max	S.U.		1/6 months	Grab
Chemical Oxygen Demand (COD)	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	XXX	Report Daily Max	mg/L		1/6 months	Grab
Total Suspended Solids	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	XXX	Report Daily Max	mg/L		1/6 months	Grab
Oil and Grease	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	XXX	Report Daily Max	mg/L		1/6 months	Grab
Total Nitrogen	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	XXX	Report Daily Max	mg/L		1/6 months	Grab
Total Phosphorus	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	XXX	Report Daily Max	mg/L		1/6 months	Grab

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<b>PA0008419</b>
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<b>003</b>
OUTFALL NUMBER

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		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
pH	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	XXX	Report Daily Max	S.U.		1/6 months	Grab
Chemical Oxygen Demand (COD)	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	XXX	Report Daily Max	mg/L		1/6 months	Grab
Total Suspended Solids	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	XXX	Report Daily Max	mg/L		1/6 months	Grab
Oil and Grease	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	XXX	Report Daily Max	mg/L		1/6 months	Grab
Total Nitrogen	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	XXX	Report Daily Max	mg/L		1/6 months	Grab
Total Phosphorus	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	XXX	Report Daily Max	mg/L		1/6 months	Grab

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PERMITTEE NAME/ADDRESS

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<b>PA0008419</b>
PERMIT NUMBER

<b>101</b>
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MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY

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		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Cyanide, Total	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	Report Daily Max	lbs/day	XXX	XXX	Report Daily Max	mg/L		1/year	24-Hr Composite
4-Methyl-2-pentanone	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	Report Daily Max	lbs/day	XXX	XXX	Report Daily Max	mg/L		1/year	24-Hr Composite
Chlorobenzene	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	Report Daily Max	lbs/day	XXX	XXX	Report Daily Max	mg/L		1/year	24-Hr Composite
Dichlorobenzene, Total	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	Report Daily Max	lbs/day	XXX	XXX	Report Daily Max	mg/L		1/year	24-Hr Composite
Diethylamine	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	Report Daily Max	lbs/day	XXX	XXX	Report Daily Max	mg/L		1/year	24-Hr Composite
Isopropyl Ether	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	Report Daily Max	lbs/day	XXX	XXX	Report Daily Max	mg/L		1/year	24-Hr Composite

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

PERMITTEE NAME/ADDRESS

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 ADDRESS P.O. Box 367  
Riverside, PA 17868-0367  
 FACILITY Cherokee Pharmaceuticals  
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<b>PA0008419</b>
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		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
N-Nitrosodi-N-Propylamine	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	Report Daily Max	lbs/day	XXX	XXX	Report Daily Max	mg/L		1/year	24-Hr Composite
Xylenes, Total	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	Report Daily Max	lbs/day	XXX	XXX	Report Daily Max	mg/L		1/year	24-Hr Composite
n-amyl Acetate	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	Report Daily Max	lbs/day	XXX	XXX	Report Daily Max	mg/L		1/year	24-Hr Composite
Amyl Alcohol	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	Report Daily Max	lbs/day	XXX	XXX	Report Daily Max	mg/L		1/year	24-Hr Composite
Isobutyraldehyde	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	Report Daily Max	lbs/day	XXX	XXX	Report Daily Max	mg/L		1/year	24-Hr Composite
Methyl Cellosolve	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	Report Daily Max	lbs/day	XXX	XXX	Report Daily Max	mg/L		1/year	24-Hr Composite

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		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Flow	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	Report Avg Mo	Report Daily Max	MGD	XXX	XXX	XXX	XXX		Continuous	Metered
pH	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	6.0 Inst Min	XXX	9.0 IMAX	S.U.		1/day	Grab
Biochemical Oxygen Demand (BOD5)	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	890 Avg Mo	Report Daily Max	lbs/day	XXX	Report Avg Mo	Report Daily Max	mg/L		1/week	24-Hr Composite
Biochemical Oxygen Demand (BOD5) Industrial Influent	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	Report Avg Mo	Report Daily Max	lbs/day	XXX	Report Avg Mo	Report Daily Max	mg/L		1/week	24-Hr Composite
Chemical Oxygen Demand (COD)	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	3275 Avg Mo	Report Daily Max	lbs/day	XXX	510 Avg Mo	Report Daily Max	mg/L		1/week	24-Hr Composite
Chemical Oxygen Demand (COD) Industrial Influent	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	Report Avg Mo	Report Daily Max	lbs/day	XXX	Report Avg Mo	Report Daily Max	mg/L		1/week	24-Hr Composite

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BUREAU OF CLEAN WATER  
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		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Total Suspended Solids	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	1510 Avg Mo	Report Daily Max	lbs/day	XXX	Report Avg Mo	Report Daily Max	mg/L		1/week	24-Hr Composite
Ammonia-Nitrogen	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	185 Avg Mo	540 Daily Max	lbs/day	XXX	29.4 Avg Mo	84.1 Daily Max	mg/L		1/week	24-Hr Composite
Isopropanol	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	10.27 Avg Mo	25.04 Daily Max	lbs/day	XXX	1.6 Avg Mo	3.9 Daily Max	mg/L		2/month	24-Hr Composite
Phenol	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	0.12 Avg Mo	0.32 Daily Max	lbs/day	XXX	0.02 Avg Mo	0.05 Daily Max	mg/L		2/month	24-Hr Composite
Acetone	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	1.28 Avg Mo	3.21 Daily Max	lbs/day	XXX	0.2 Avg Mo	0.5 Daily Max	mg/L		2/month	24-Hr Composite
Acetonitrile	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	65.50 Avg Mo	160.54 Daily Max	lbs/day	XXX	10.2 Avg Mo	25.0 Daily Max	mg/L		2/month	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		
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY
COMMENTS (Report all violations on the "Non-Compliance Reporting Form")						

3800-FM-BCW0462 12/2016



**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 Cherokee Pharmaceuticals, LLC  
 ADDRESS P.O. Box 367  
Riverside, PA 17868-0367  
 FACILITY Cherokee Pharmaceuticals  
 LOCATION Riverside Borough  
Northumberland County  
 WATERSHED 5-E

<b>PA0008419</b>
PERMIT NUMBER

<b>101</b>
OUTFALL NUMBER

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY

Reporting Frequency: Monthly  
 DMR Effective From: Permit Effective Date  
 DMR Effective To: Permit Expiration Date  
 Permit Expires: \_\_\_\_\_  
 Permit Application Due: \_\_\_\_\_  
 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			
Benzene	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	0.12 Avg Mo	0.32 Daily Max	lbs/day	XXX	0.02 Avg Mo	0.05 Daily Max	mg/L		2/month	24-Hr Composite
n-Butyl Acetate	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	3.21 Avg Mo	8.34 Daily Max	lbs/day	XXX	0.5 Avg Mo	1.3 Daily Max	mg/L		2/month	24-Hr Composite
1,2-Dichloroethane	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	0.64 Avg Mo	2.56 Daily Max	lbs/day	XXX	0.1 Avg Mo	0.4 Daily Max	mg/L		2/month	24-Hr Composite
Chloroform	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	0.83 Avg Mo	1.28 Daily Max	lbs/day	XXX	0.13 Avg Mo	0.20 Daily Max	mg/L		2/month	24-Hr Composite
Dimethyl Sulfoxide	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	240.81 Avg Mo	587.59 Daily Max	lbs/day	XXX	37.5 Avg Mo	91.5 Daily Max	mg/L		2/month	24-Hr Composite
Ethanol	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	26.32 Avg Mo	64.21 Daily Max	lbs/day	XXX	4.1 Avg Mo	10.0 Daily Max	mg/L		2/month	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		
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY
COMMENTS (Report all violations on the "Non-Compliance Reporting Form")						

3800-FM-BCW0462 12/2016



**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 Cherokee Pharmaceuticals, LLC  
 ADDRESS P.O. Box 367  
Riverside, PA 17868-0367  
 FACILITY Cherokee Pharmaceuticals  
 LOCATION Riverside Borough  
Northumberland County  
 WATERSHED 5-E

<b>PA0008419</b>
PERMIT NUMBER

<b>101</b>
OUTFALL NUMBER

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY

Reporting Frequency: Monthly  
 DMR Effective From: Permit Effective Date  
 DMR Effective To: Permit Expiration Date  
 Permit Expires: \_\_\_\_\_  
 Permit Application Due: \_\_\_\_\_  
 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			
Ethyl Acetate	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	3.21 Avg Mo	8.34 Daily Max	lbs/day	XXX	0.5 Avg Mo	1.3 Daily Max	mg/L		2/month	24-Hr Composite
Heptane	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	0.12 Avg Mo	0.32 Daily Max	lbs/day	XXX	0.02 Avg Mo	0.05 Daily Max	mg/L		2/month	24-Hr Composite
Hexane	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	0.12 Avg Mo	0.19 Daily Max	lbs/day	XXX	0.02 Avg Mo	0.03 Daily Max	mg/L		2/month	24-Hr Composite
Methylene Chloride	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	1.92 Avg Mo	5.77 Daily Max	lbs/day	XXX	0.3 Avg Mo	0.9 Daily Max	mg/L		2/month	24-Hr Composite
Tetrahydrofuran	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	16.69 Avg Mo	53.94 Daily Max	lbs/day	XXX	2.6 Avg Mo	8.4 Daily Max	mg/L		2/month	24-Hr Composite
Toluene	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	0.12 Avg Mo	0.38 Daily Max	lbs/day	XXX	0.02 Avg Mo	0.06 Daily Max	mg/L		2/month	24-Hr Composite

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

3800-FM-BCW0462 12/2016



**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 Cherokee Pharmaceuticals, LLC  
 ADDRESS P.O. Box 367  
Riverside, PA 17868-0367  
 FACILITY Cherokee Pharmaceuticals  
 LOCATION Riverside Borough  
Northumberland County  
 WATERSHED 5-E

<b>PA0008419</b>
PERMIT NUMBER

<b>101</b>
OUTFALL NUMBER

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY

Reporting Frequency: Monthly  
 DMR Effective From: Permit Effective Date  
 DMR Effective To: Permit Expiration Date  
 Permit Expires: \_\_\_\_\_  
 Permit Application Due: \_\_\_\_\_  
 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			
Triethylamine	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	655.02 Avg Mo	1605.45 Daily Max	lbs/day	XXX	102.0 Avg Mo	250.0 Daily Max	mg/L		2/month	24-Hr Composite
Total Methanol	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	26.32 Avg Mo	64.21 Daily Max	lbs/day	XXX	4.1 Avg Mo	10.0 Daily Max	mg/L		2/month	24-Hr Composite
Methyl Formate	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	3.21 Avg Mo	8.34 Daily Max	lbs/day	XXX	0.5 Avg Mo	1.3 Daily Max	mg/L		2/month	24-Hr Composite
Isopropyl Acetate	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	3.21 Avg Mo	8.34 Daily Max	lbs/day	XXX	0.5 Avg Mo	1.3 Daily Max	mg/L		2/month	24-Hr Composite

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



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

PERMITTEE NAME/ADDRESS

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 ADDRESS P.O. Box 367  
Riverside, PA 17868-0367  
 FACILITY Cherokee Pharmaceuticals  
 LOCATION Riverside Borough  
Northumberland County  
 WATERSHED 5-E

<b>PA0008419</b>
PERMIT NUMBER

<b>201</b>
OUTFALL NUMBER

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY

Reporting Frequency: Monthly  
 DMR Effective From: Permit Effective Date  
 DMR Effective To: Permit Expiration Date  
 Permit Expires: \_\_\_\_\_  
 Permit Application Due: \_\_\_\_\_  
 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		1/week	Estimate
Total Suspended Solids	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	30.0 Avg Mo	XXX	mg/L		1/month	Grab
Aluminum, Total	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	4.0 Avg Mo	XXX	mg/L		1/month	Grab
Iron, Total	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	2.0 Avg Mo	XXX	mg/L		1/month	Grab
Manganese, Total	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	1.0 Avg Mo	XXX	mg/L		1/month	Grab

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		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")				

3800-FM-BCW0462 12/2016



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

PERMITTEE NAME/ADDRESS

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<b>PA0008419</b>
PERMIT NUMBER

<b>301</b>
OUTFALL NUMBER

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY

Reporting Frequency: Annually  
 DMR Effective From: Permit Effective Date  
 DMR Effective To: Permit Expiration Date  
 Permit Expires: \_\_\_\_\_  
 Permit Application Due: \_\_\_\_\_  
 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			
Aluminum, Total	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	Report Annl Avg	Report Daily Max	lbs/day	XXX	Report Annl Avg	Report Daily Max	mg/L		1/year	Grab
Iron, Total	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	Report Annl Avg	Report Daily Max	lbs/day	XXX	Report Annl Avg	Report Daily Max	mg/L		1/year	Grab

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



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

PERMITTEE NAME/ADDRESS

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<b>PA0008419</b>
PERMIT NUMBER

<b>301</b>
OUTFALL NUMBER

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY

Reporting Frequency: Monthly  
 DMR Effective From: Permit Effective Date  
 DMR Effective To: Permit Expiration Date  
 Permit Expires: \_\_\_\_\_  
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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		1/month	Metered
pH	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	6.0 Inst Min	XXX	9.0 IMAX	S.U.		1/month	Grab
Oil and Grease	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	Report Avg Mo	Report Daily Max	mg/L		1/month	Grab
Benzene	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	Report Avg Mo	Report Daily Max	lbs/day	XXX	Report Avg Mo	Report Daily Max	mg/L		1/month	Grab

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

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-BCW0440) 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**:

- E** All samples or results are not available due to analytical equipment failure, because a sample collection was overlooked, or samples could not be collected for the parameter during the reporting period. Use of this NODI code results in a violation.
- 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). This includes non-representative outfalls.
- FF** No Data, not covered by NODI codes "E" or "GG." Use in extenuating circumstances where the reason for the absence of data is not covered by NODI codes "E" or "GG." Use of this NODI code results in a violation.

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

Note: When the "E" and "FF" NODI codes are used, a comment explaining the violation is required and the Non-Compliance Reporting Form (3800-FM-BCW0440) must accompany the DMR.

### **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):

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

## **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.**



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF CLEAN WATER

**SUPPLEMENTAL REPORT  
DAILY EFFLUENT MONITORING**

Facility Name: Cherokee Pharmaceuticals  
Municipality: Riverside Borough County: Northumberland  
Watershed: 5-E  
Laboratories: \_\_\_\_\_

Month: \_\_\_\_\_ Year: \_\_\_\_\_  
NPDES Permit No.: PA0008419 Outfall No.: 001  
Renewal application due **180 days** prior to expiration  
This permit will expire on \_\_\_\_\_

Effluent Parameters																		
Day	Flow		pH		COD		TSS		Oil and Grease		Ammonia		Total Phosphorus		Total Aluminum		Dissolved Iron	
	Q	MGD	Q	S.U.	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L
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Prepared By: \_\_\_\_\_  
Title: \_\_\_\_\_

Signature: \_\_\_\_\_  
Date: \_\_\_\_\_



COMMONWEALTH OF PENNSYLVANIA  
 DEPARTMENT OF ENVIRONMENTAL PROTECTION  
 BUREAU OF CLEAN WATER

**SUPPLEMENTAL REPORT  
 DAILY EFFLUENT MONITORING**

Facility Name: Cherokee Pharmaceuticals  
 Municipality: Riverside Borough County: Northumberland  
 Watershed: 5-E  
 Laboratories: \_\_\_\_\_

Month: \_\_\_\_\_ Year: \_\_\_\_\_  
 NPDES Permit No.: PA0008419 Outfall No.: 001  
 Renewal application due **180 days** prior to expiration  
 This permit will expire on \_\_\_\_\_

Day	Effluent Parameters															
	Total Iron		Total Mercury		Total PCBs											
	Q	mg/L	Q	mg/L	Q	mg/L	Q		Q		Q		Q		Q	
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Prepared By: \_\_\_\_\_  
 Title: \_\_\_\_\_

Signature: \_\_\_\_\_  
 Date: \_\_\_\_\_



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF CLEAN WATER

**SUPPLEMENTAL REPORT  
DAILY EFFLUENT MONITORING**

Facility Name: Cherokee Pharmaceuticals  
Municipality: Riverside Borough County: Northumberland  
Watershed: 5-E  
Laboratories: \_\_\_\_\_

Month: \_\_\_\_\_ Year: \_\_\_\_\_  
NPDES Permit No.: PA0008419 Outfall No.: 002  
Renewal application due **180 days** prior to expiration  
This permit will expire on \_\_\_\_\_

Day	Effluent Parameters																		
	pH		COD		TSS		Oil and Grease		Total Phosphorus										
	Q	S.U.	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L	Q		Q		Q		Q		
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Prepared By: \_\_\_\_\_  
Title: \_\_\_\_\_

Signature: \_\_\_\_\_  
Date: \_\_\_\_\_



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF CLEAN WATER

**SUPPLEMENTAL REPORT  
DAILY EFFLUENT MONITORING**

Facility Name: Cherokee Pharmaceuticals  
Municipality: Riverside Borough County: Northumberland  
Watershed: 5-E  
Laboratories: \_\_\_\_\_

Month: \_\_\_\_\_ Year: \_\_\_\_\_  
NPDES Permit No.: PA0008419 Outfall No.: 003  
Renewal application due **180 days** prior to expiration  
This permit will expire on \_\_\_\_\_

Day	Effluent Parameters																		
	pH		COD		TSS		Oil and Grease		Total Phosphorus										
	Q	S.U.	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L	Q		Q		Q		Q		
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Prepared By: \_\_\_\_\_  
Title: \_\_\_\_\_

Signature: \_\_\_\_\_  
Date: \_\_\_\_\_



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF CLEAN WATER

**SUPPLEMENTAL REPORT  
DAILY EFFLUENT MONITORING**

Facility Name: Cherokee Pharmaceuticals  
Municipality: Riverside Borough County: Northumberland  
Watershed: 5-E  
Laboratories: \_\_\_\_\_

Month: \_\_\_\_\_ Year: \_\_\_\_\_  
NPDES Permit No.: PA0008419 Outfall No.: 101  
Renewal application due **180 days** prior to expiration  
This permit will expire on \_\_\_\_\_

Day	Effluent Parameters																	
	Flow		pH		BOD5		COD		TSS		Ammonia		Total Cyanide		4-Methyl-2-pentanone		Isopropanol	
	Q	MGD	Q	S.U.	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L
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Prepared By: \_\_\_\_\_  
Title: \_\_\_\_\_

Signature: \_\_\_\_\_  
Date: \_\_\_\_\_



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF CLEAN WATER

**SUPPLEMENTAL REPORT  
DAILY EFFLUENT MONITORING**

Facility Name: Cherokee Pharmaceuticals  
Municipality: Riverside Borough County: Northumberland  
Watershed: 5-E  
Laboratories: \_\_\_\_\_

Month: \_\_\_\_\_ Year: \_\_\_\_\_  
NPDES Permit No.: PA0008419 Outfall No.: 101  
Renewal application due **180 days** prior to expiration  
This permit will expire on \_\_\_\_\_

Day	Effluent Parameters																	
	Phenol		Acetone		Acetonitrile		Chlorobenzene		Dichlorobenzene		Benzene		n-Butyl Acetate		1,2-Dichloroethane		Chloroform	
	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L
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Prepared By: \_\_\_\_\_  
Title: \_\_\_\_\_

Signature: \_\_\_\_\_  
Date: \_\_\_\_\_



COMMONWEALTH OF PENNSYLVANIA  
 DEPARTMENT OF ENVIRONMENTAL PROTECTION  
 BUREAU OF CLEAN WATER

**SUPPLEMENTAL REPORT  
 DAILY EFFLUENT MONITORING**

Facility Name: Cherokee Pharmaceuticals  
 Municipality: Riverside Borough County: Northumberland  
 Watershed: 5-E  
 Laboratories: \_\_\_\_\_

Month: \_\_\_\_\_ Year: \_\_\_\_\_  
 NPDES Permit No.: PA0008419 Outfall No.: 101  
 Renewal application due **180 days** prior to expiration  
 This permit will expire on \_\_\_\_\_

Day	Effluent Parameters																		
	Diethylamine		Isopropyl Ether		Dimethyl Sulfoxide		Ethanol		Ethyl Acetate		Heptane		Hexane		Methylene Chloride		N-Nitrosodi-N-Propylamine		
	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L	
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Prepared By: \_\_\_\_\_  
 Title: \_\_\_\_\_

Signature: \_\_\_\_\_  
 Date: \_\_\_\_\_



COMMONWEALTH OF PENNSYLVANIA  
 DEPARTMENT OF ENVIRONMENTAL PROTECTION  
 BUREAU OF CLEAN WATER

**SUPPLEMENTAL REPORT  
 DAILY EFFLUENT MONITORING**

Facility Name: Cherokee Pharmaceuticals  
 Municipality: Riverside Borough County: Northumberland  
 Watershed: 5-E  
 Laboratories: \_\_\_\_\_

Month: \_\_\_\_\_ Year: \_\_\_\_\_  
 NPDES Permit No.: PA0008419 Outfall No.: 101  
 Renewal application due **180 days** prior to expiration  
 This permit will expire on \_\_\_\_\_

Day	Effluent Parameters																	
	Tetrahydrofuran		Toluene		Triethylamine		Total Xylenes		Total Methanol		n-Amyl Acetate		Amyl Alcohol		Isobutyraldehyde		Methyl Cellosolve	
	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L
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Prepared By: \_\_\_\_\_  
 Title: \_\_\_\_\_

Signature: \_\_\_\_\_  
 Date: \_\_\_\_\_



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF CLEAN WATER

**SUPPLEMENTAL REPORT  
DAILY EFFLUENT MONITORING**

Facility Name: Cherokee Pharmaceuticals  
Municipality: Riverside Borough County: Northumberland  
Watershed: 5-E  
Laboratories: \_\_\_\_\_

Month: \_\_\_\_\_ Year: \_\_\_\_\_  
NPDES Permit No.: PA0008419 Outfall No.: 101  
Renewal application due **180 days** prior to expiration  
This permit will expire on \_\_\_\_\_

Day	Effluent Parameters																		
	Methyl Formate		Isopropyl Acetate																
	Q	mg/L	Q	mg/L	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	
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Prepared By: \_\_\_\_\_  
Title: \_\_\_\_\_

Signature: \_\_\_\_\_  
Date: \_\_\_\_\_



COMMONWEALTH OF PENNSYLVANIA  
 DEPARTMENT OF ENVIRONMENTAL PROTECTION  
 BUREAU OF CLEAN WATER

**SUPPLEMENTAL REPORT  
 DAILY EFFLUENT MONITORING**

Facility Name: Cherokee Pharmaceuticals  
 Municipality: Riverside Borough County: Northumberland  
 Watershed: 5-E  
 Laboratories: \_\_\_\_\_

Month: \_\_\_\_\_ Year: \_\_\_\_\_  
 NPDES Permit No.: PA0008419 Outfall No.: 201  
 Renewal application due **180 days** prior to expiration  
 This permit will expire on \_\_\_\_\_

Day	Effluent Parameters																		
	Flow		TSS		Total Aluminum		Total Iron		Total Manganese										
	Q	MGD	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L	Q		Q		Q		Q		
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Prepared By: \_\_\_\_\_  
 Title: \_\_\_\_\_

Signature: \_\_\_\_\_  
 Date: \_\_\_\_\_



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF CLEAN WATER

**SUPPLEMENTAL REPORT  
DAILY EFFLUENT MONITORING**

Facility Name: Cherokee Pharmaceuticals  
Municipality: Riverside Borough County: Northumberland  
Watershed: 5-E  
Laboratories: \_\_\_\_\_

Month: \_\_\_\_\_ Year: \_\_\_\_\_  
NPDES Permit No.: PA0008419 Outfall No.: 301  
Renewal application due **180 days** prior to expiration  
This permit will expire on \_\_\_\_\_

Day	Effluent Parameters																		
	Flow		pH		Oil and Grease		Total Aluminum		Total Iron		Benzene								
	Q	MGD	Q	S.U.	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L	Q		Q		Q		
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Prepared By: \_\_\_\_\_  
Title: \_\_\_\_\_

Signature: \_\_\_\_\_  
Date: \_\_\_\_\_

**INSTRUCTIONS FOR COMPLETING  
DAILY EFFLUENT MONITORING  
SUPPLEMENTAL REPORT**

Use this form to report daily monitoring results for the parameters that must be monitored in effluent for compliance with the permit. Results for influent parameters are normally reported on Form 3800-FM-BCW0436.

1. Enter Facility Name, Municipality, County, Watershed No., Laboratories, Month, Year, NPDES Permit No., Outfall No., and Permit Expiration Date (it is noted that this information may be pre-populated if you have received this form with your permit). For Laboratories, list the names of all laboratories where samples were analyzed during the month, including on-site analysis.
2. In the column headers, below "Effluent Parameters," enter the names of parameters in the permit. Since limited space is provided, abbreviation may be necessary. If there are more parameters for an outfall than columns provided on the form, attach an additional sheet.
3. Below parameter names, and to the right of "Q" (Qualifier) column headers, enter the units associated each parameter (it is noted that this information may be pre-populated if you have received this form with your permit).
4. Enter monitoring results for parameters in the rows corresponding to the day of the month in which samples were collected. Enter results exactly as reported by the laboratory, or if measured with on-site equipment, to the level of precision recommended by the equipment manufacturer. Enter data qualifiers such as "<," ">," "J," and others in the "Q" column.
5. Calculate and report average values at the bottom of the table in accordance with the DMR Instructions (3800-FM-BCW0463) and DEP guidance (3800-BK-DEP3047). Note – for bacteria, calculate and report the geometric mean value.
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.



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF CLEAN WATER

**SUPPLEMENTAL REPORT – CHEMICAL ADDITIVES USAGE**

Facility Name: Cherokee Pharmaceuticals  
Municipality: Riverside Borough County: Northumberland  
Watershed: 5-E

Month: \_\_\_\_\_ Year: \_\_\_\_\_  
NPDES Permit No.: PA0008419 A-1 Outfall No.: \_\_\_\_\_  
Renewal application due **180 days** prior to expiration  
This permit will expire on \_\_\_\_\_

Day	Chemical Names															
	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs
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Prepared By: \_\_\_\_\_  
Title: \_\_\_\_\_

Signature: \_\_\_\_\_  
Date: \_\_\_\_\_



## INSTRUCTIONS FOR COMPLETING CHEMICAL ADDITIVES USAGE SUPPLEMENTAL REPORT

1. Enter Facility Name, Municipality, County, Watershed No., Month, Year, NPDES Permit No., Outfall No. and Permit Expiration Date. A separate sheet is required for each outfall that receives chemical additives.
2. In the spaces below the Chemical Names header in the table, enter the chemical additives used at the facility. If more than eight additives are used per Outfall, add more sheets.
3. Enter the daily usage rates for each chemical. Enter additives introduced in liquid form in the "gallons" column and additives in solid form (or if you have calculated the mass equivalent of liquid additives) under the "lbs" column.
4. Calculate and report the average and maximum usage rates for each chemical at the bottom of the table.
5. 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.





**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: Cherokee Pharmaceuticals  
Municipality: Riverside Borough County: Northumberland

Month: \_\_\_\_\_ Year: \_\_\_\_\_  
Permit No.: PA0008419

**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: \_\_\_\_\_  
Title: \_\_\_\_\_

Signature: \_\_\_\_\_  
Date: \_\_\_\_\_



## INSTRUCTIONS FOR COMPLETING 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). If you are reporting other non-compliance events, and the deadline for a written report (e.g., 5 days) does not coincide with your submission of the DMR, this form should be submitted separately to the Department by the reporting deadline set forth in the permit.

**If you are unsure of whether an incident constitutes non-compliance that may endanger health or the environment, it is recommended that you notify the Department verbally as soon as possible after you become aware of the incident. 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.**

### Instructions:

1. Enter the name of the facility, the municipality and county where it is located, the month and year when violations occurred, and the NPDES or WQM permit number for the facility.
2. If there were violations of permit effluent limitations during the month, check the box next to "Violations of Permit Effluent Limitations." (Note – if using the electronic version of this form, check the boxes first, and then select Tools – Unprotect Document to enter additional information). Enter the date of the violation (if a violation of a minimum or maximum limit, the date of sample collection, or if a violation of an average limit, the end of the monitoring period), the parameter name, the permit limit and units, the statistical code (e.g., "MIN", "MAX", "MO AVG", etc.), the measured result and units, the cause of the violation and the corrective action taken. **If there are more than two violations during the monitoring period and/or if the space provided is insufficient to explain the cause or corrective action, please attach additional pages.**
3. If there are Sanitary Sewer Overflow (SSO) discharges or other unauthorized discharges from the facility (e.g., spills, leaks, etc.) that enter or have the potential to enter waters of the Commonwealth, including groundwater, notify DEP by phone as soon as possible, and document the discharge on this form by checking the box next to "Sanitary Sewer Overflows and Other Unauthorized Discharges." Record the event (discharge) date, the substance discharged (e.g., sewage, on-site chemicals, etc.), the location where the discharge occurred (e.g., manhole number, pump station name, equipment description, etc.), the volume discharged (gallons), the approximate duration of the discharge (hours), the receiving waters (name of stream or groundwater), the impact on the receiving waters, if observed (e.g., solids deposition, foam, fish kill, etc.), the cause of the discharge, and the date on which the Department was verbally notified. **If there are more than two discharge events during the monitoring period and/or if the space provided is insufficient to explain the discharge, please attach additional pages.**
4. If there are other violations of the permit, check the box next to "Other Permit Violations," and check the appropriate box that describes the violation type. If not identified on the form, check the box next to "Other" and provide a written explanation. **If the space provided is insufficient to explain the violation, please attach additional pages.**
5. Type your name and title and sign and date the form after reading the certification statement.

If you have questions about completing this form, contact the Clean Water Program Operations Section of the Department in your region:

Southeast Region – (484) 250-5970  
Northeast Region – (570) 826-2553  
Southcentral Region – (717) 705-4707

Northcentral Region – (570) 327-3636  
Southwest Region – (412) 442-4060  
Northwest Region – (814) 332-6942



3. For each inspection, answer the following questions concerning inspection results (check box if answer is "Yes").

Inspection No.	Were raw materials, products or wastes observed that may have or could come into contact with stormwater?	Were leaks or spills from equipment, drums, tanks or other containers observed?	Was off-site tracking of industrial or waste materials or sediment where vehicles enter or exit the site observed?	Was tracking or blowing of raw, final or waste materials from exposed areas to areas of no exposure observed?	Were control measures or BMPs needing replacement, maintenance or repair observed?	Was the presence of authorized non-stormwater discharges not identified in the NOI or unauthorized non-stormwater discharges observed?
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

4. For any boxes checked above (i.e., for any "Yes" responses), indicate the corrective measures taken or are planned by the permittee.

5. Were all BMPs required by Part C and the applicable Appendix implemented by the permittee during the reporting period?  Yes  No  
If No, identify which BMPs were not implemented and efforts being undertaken to begin or resume implementation.



**STORMWATER SAMPLING EVENT INFORMATION**

1. For each stormwater sampling event conducted during the reporting period, provide the information in the table below.

Outfall No. Sampled	Sample Date	Duration of Storm Event (hrs)	Sample Collected within First 30 Minutes?	Precipitation Amount (in)	Duration Between Storm Event Sampled and Previous Measurable Storm Event (hrs)	Were Results Reported on DMR?	Were Benchmark Value(s) in Permit Exceeded?	Parameter(s) Exceeding Benchmark Value(s)
			<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	
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			<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	
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			<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	

2. Was the need to develop and submit a corrective action plan triggered during the reporting period?  Yes  No  
 If Yes, date of corrective action plan submission: \_\_\_\_\_ Date by which corrective measures will be in place: \_\_\_\_\_

3. If samples were not collected within the first 30 minutes for any stormwater sampling event, provide an explanation below as to why this could not be done.

**CERTIFICATION**

I certify under penalty of law that this report was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated 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).

\_\_\_\_\_  
**Name** (type or print legibly)

\_\_\_\_\_  
**Official Title**

\_\_\_\_\_  
**Signature**

\_\_\_\_\_  
**Date Signed**



## NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGES OF STORMWATER ASSOCIATED WITH INDUSTRIAL ACTIVITY ANNUAL REPORT INSTRUCTIONS

The submission of this Annual Report each year is a requirement under the individual permit for ongoing coverage under the individual permit.

Enter the reporting period (calendar year) at the top of the report (e.g., January 1, 2016 to December 31, 2016).

### General Information

Identify the permittee name (as it appears on the first page of the permit issued by DEP), the permittee address and phone number, the permit number, and the permit issuance date (i.e., latest new or reissued approval issued by DEP). Check the appropriate box to indicate whether the permittee's Preparedness, Prevention and Contingency (PPC) Plan has been reviewed and if necessary updated during the calendar year reporting period. Check the appropriate box to indicate whether annual employee training required by the permit has been provided during the reporting period and list the date(s) training occurred.

### Inspection Information

1. The permit requires visual inspections at least semiannually (once every calendar semiannual period). A table is provided to summarize all inspections conducted during the calendar year. Assign each inspection event a number, chronologically, and report the number in the table. Report the date of the inspection and the name and title of the inspector. Check the box in the column for "Stormwater Discharge During Inspection?" If a stormwater discharge was occurring during the inspection. The permit requires that at least one semiannual inspection be conducted during conditions where a stormwater discharge is occurring.
2. Check the appropriate boxes to indicate areas, activities and practices evaluated during the inspections. These areas, activities and practices must be inspected during all inspections in accordance with the permit.
3. For each inspection answer each of the questions listed in the column headers. Enter the Inspection No. corresponding to the inspection dates identified in No. 1, and check any box in which the answer to the question is "Yes".
4. Where any answer to No. 3 is "Yes", describe the corrective measures taken or are planned by the permittee.
5. Check the appropriate box to indicate whether all BMPs required by the permit were implemented during the reporting period (Yes or No). If No, identify which BMPs were not implemented and efforts being undertaken to begin or resume implementation of the BMPs.

### Stormwater Outfall Information

1. Permittees must complete the stormwater outfall table for each Annual Report. It is possible for conditions to change from year to year; for example, an outfall that is considered "No Exposure" one year is not the next year, and the percentage of impervious surface in an outfall's drainage area may change. The following lists the column headers and an explanation of the information requested:
  - **Outfall No.** – Provide a 3-digit identification number (numeric only) for each outfall (discharge point) discharging stormwater associated with industrial activity from the facility, starting with 001 and continuing with 002, 003, etc. If there are more outfalls than space allows, attach an additional sheet.
  - **No Exp.?** – Check the box if, during the reporting period, the listed outfall discharges stormwater consistent with a "No Exposure" condition.

No Exposure means that all industrial materials and activities (in the drainage area of the outfall) are protected by a storm resistant shelter to prevent exposure to rain, snow, snowmelt, and/or runoff. Industrial materials or

activities include, but are not limited to, material handling equipment or activities, industrial machinery, raw materials, intermediate products, by-products, final products, or waste products. Material handling activities include the storage, loading and unloading, transportation, or conveyance of any raw material, intermediate product, final product or waste product. (See the instructions to the No Exposure Certification application, 3850-PM-BCW0083e, for additional information).

By checking the box, the applicant is certifying that a No Exposure condition existed within the drainage area for the particular outfall during the reporting period.

- **Non-SW?** – Check the box if the listed outfall received any non-stormwater discharges during the reporting period.
- **Sampling?** – Check the box if the listed outfall has been sampled for analysis of pollutant concentrations, consistent with the permit, during the reporting period.
- **Rep. Outfall** – Identify the representative outfall, if applicable, for each listed outfall during the reporting period.

Permittees may group outfalls based on industrial activities occurring within the drainage areas of those outfalls and, if it is determined by the permittee that the quality of stormwater discharges are substantially identical, select one outfall to represent others in the group. Enter the representative outfall number, if applicable. For example, if during the reporting period Outfalls 001, 002 and 003 all have drainage areas characterized by unloading of the same raw materials and the applicant has reason to believe that the quality of Outfalls 001, 002 and 003 are substantially identical, the applicant may select Outfall 001 as representative of Outfalls 002 and 003. The permittee would then monitor stormwater discharges for pollutants for Outfall 001 only. In this example, for the Annual Report the “Rep. Outfall” column would remain blank for Outfall 001, and contain “001” for Outfalls 002 and 003 (see below).

Outfall No.	No Exp.?	Non-SW?	Sampling?	Rep. Outfall
001	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
002	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	001
003	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	001

- **DA (sf)** – Report the drainage area of the outfall in square feet, as of the last day of the reporting period.
  - **% Imp.** – Enter the percentage of the outfall’s drainage area that is impervious surface, as of the last day of the reporting period.
  - **Description of Materials/Activities in Drainage Area Exposed to Precipitation** – Enter a characterization of the drainage area for each outfall during the reporting period, identifying all existing activities including material storage and utilization. Attach additional pages with this information to the Annual Report if necessary.
  - **Description of BMPs in Drainage Area to Control Pollutants in Stormwater** – Identify and describe all best management practices (BMPs) that were implemented within the drainage areas of each outfall to control pollutants in stormwater during the reporting period. Attach additional pages with this information to the Annual Report if necessary.
2. Check the appropriate box to indicate whether any of the outfalls identified in Nos. 6 and 7 above discharge to a municipal separate storm sewer system (MS4) (Yes or No). If Yes, identify the name of the MS4 owner/operator and list all outfall numbers that discharge to the MS4.

**NOTE** – If the permittee discharges to an MS4, a copy of the Annual Report must be submitted to the operator of the MS4.

3. Indicate whether any changes to outfall information (Nos. 1 and 2 above) have changed during the reporting period as compared to the previous reporting period by checking the appropriate box (Yes or No). If changes have occurred, describe those changes in the space provided or as a separate attachment.

Stormwater Sampling Event Information

1. In the table provided, enter the information requested concerning each storm event in which samples were collected. The following lists the column headers and an explanation of the information requested:

- **Outfall No. Sampled** – List every outfall number sampled per storm event.
- **Sample Date** – Identify the date in which samples were collected.

Example – Three outfalls were sampled twice during the reporting period: one event took place on February 1 and the other event occurred on August 15. The first two columns should be completed as follows:

Outfall No. Sampled	Sample Date
001	2/1/2016
002	2/1/2016
003	2/1/2016
001	8/15/2016
002	8/15/2016
003	8/15/2016

- **Duration of Storm Event** – Report the duration, in hours, of the storm event in which samples were collected.
  - **Sample Collected within First 30 Minutes?** – Check the box if the sample was collected within the first 30 minutes of the stormwater discharge.
  - **Precipitation Amount** – Report the amount of precipitation, in inches, that fell during the storm event in which samples were collected. Note that the permit requires that samples be collected from storm events producing greater than 0.1 inch of precipitation.
  - **Duration Between Storm Event Sampled and Previous Measurable Storm Event** – Enter the amount of time, in hours, between the storm event sampled and the previous measurable storm event (greater than 0.1 inch of precipitation).
  - **Were Results Reported on DMR?** – Check the box if the analytical results for the sampling event were reported to DEP on a Discharge Monitoring Report (DMR).
  - **Were Benchmark Value(s) in Permit Exceeded?** – Check the box if any benchmark values identified in the permit were exceeded for the outfall and sampling event listed.
  - **Parameter(s) Exceeding Benchmark Value(s)** – If benchmark values were exceeded, report the name(s) of all parameter(s) in which stormwater concentrations exceeded the benchmarks.
2. Indicate whether the need to develop and submit a corrective action plan was triggered during the reporting period by checking the appropriate box (Yes or No). The permit requires submission of a corrective action plan within 90 days following the end of the reporting period that demonstrates two consecutive exceedances of benchmark values. If Yes, list the date the corrective action plan was submitted to DEP, and the date by which corrective measures will be implemented.
3. If samples were not collected within the first 30 minutes for any stormwater sampling event, provide an explanation below as to why this could not be done in the space provided. If not applicable, enter “N/A”.

Certification

The permittee must certify that the information contained in the Annual Report is true, accurate and complete.

**The Annual Report must be signed as follows:**

*For individually owned operations* - the owner of the facility must sign the Annual Report.

*For a Corporation* - by a responsible corporate officer. For purposes of this section, a responsible corporate officer means a principal executive officer of at least the level of vice president or an authorized representative, if the representative is responsible for the overall operation of the facility from which the discharge described in the Annual Report originates.

*For a Partnership or Sole Proprietorship* - by a general partner or the proprietor, respectively.

*For a Municipality* - state, federal or other public agency - by either a principal executive officer, ranking elected official or other authorized employee. For purposes of the Annual Report, a principal executive officer of a federal agency includes:

1. The chief executive officer of the agency, or
2. A senior executive officer who has responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrator of EPA).

Submission

One copy of the Annual Report must be submitted to the regional office of DEP that issued the permit, by the deadline established in the permit. For a list of DEP regional office addresses, please visit [www.dep.pa.gov](http://www.dep.pa.gov), and select "Regional Resources." Where the permittee discharges stormwater to an MS4, one copy of the Annual Report must be submitted to the operator of the MS4.



## WHOLE EFFLUENT TOXICITY (WET) TEST SUMMARY REPORT COVER SHEET

NPDES Permit Number: **PA0008419 A-1**

Facility Name: **Cherokee Pharmaceuticals**

Species Tested:  *Ceriodaphnia dubia*     *Pimphales promelas*    Test Type:  Chronic     Acute

Re-Test?  Yes     No (If Yes, indicate the date of original test completion: \_\_\_\_\_)

### SAMPLE INFORMATION

	<u>Date/Time</u>	<u>Sample Source</u>	<u>Temperature</u>	<u>Holding Time</u>	<u>Chlorine</u>	<u>Dechlorinated?</u>
1.	_____	_____	_____ °C	_____	_____ mg/L	<input type="checkbox"/> Yes <input type="checkbox"/> No
2.	_____	_____	_____ °C	_____	_____ mg/L	<input type="checkbox"/> Yes <input type="checkbox"/> No
3.	_____	_____	_____ °C	_____	_____ mg/L	<input type="checkbox"/> Yes <input type="checkbox"/> No

### TEST CONDITIONS

Date/Time of Test Initiation: \_\_\_\_\_ Date/Time of Test Termination: \_\_\_\_\_  
 Renewal Test     Non-Renewal Test    Frequency of Renewals: \_\_\_\_\_  
 Dilution Series: \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_ Target Instream Waste Concentration (TIWC): \_\_\_\_\_  
 Age of Organisms at Start of Tests: \_\_\_\_\_ Number of Organisms per Replicate: \_\_\_\_\_  
 Number of Replicates: \_\_\_\_\_ Feeding Regimen: \_\_\_\_\_  
 Source of Organisms: \_\_\_\_\_ Photoperiod: \_\_\_\_\_  
 Light Intensity: \_\_\_\_\_  
 Temperature measurements made at least once per 24-hour period?  Yes     No (attach log sheet)  
 DO measured daily in at least one replicate of each concentration?  Yes     No (attach log sheet)  
 Were the test chambers aerated?  Yes     No    Rate: \_\_\_\_\_  
 pH measured daily in at least one replicate of each concentration?  Yes     No (attach log sheet)  
 Were test acceptability criteria in the EPA method met?  Yes     No  
 Were there any modifications to or deviations from EPA methods (if Yes, explain on separate sheet)?  Yes     No

### DILUTION / REAGENT WATER

Date of Last Test for Chemistry: \_\_\_\_\_ Conductivity: \_\_\_\_\_ µmhos/cm  
 pH: \_\_\_\_\_ Chlorine: \_\_\_\_\_ mg/L

### CONTROL RESULTS

<p><b><i>Ceriodaphnia dubia</i></b>                  Survival: _____                  Percent that produced 3 broods (if applicable): _____                  % _____                  Young per Surviving Female (if applicable): _____</p>	<p><b><i>Pimphales promelas</i></b>                  Survival: _____                  Mean Dry Weight of Survivors (if applicable): _____</p>
---	---

### REFERENCE TOXICITY TESTS

Date of most recent test: \_\_\_\_\_ Same conditions as test?  Yes     No  
 Were test acceptability criteria in the EPA method met?  Yes     No

### TEST RESULTS

Control compared to:  TIWC Dilution     Other:  
 Survival:  Pass     Fail    Growth:  Pass     Fail    Reproduction:  Pass     Fail

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein; and based on my inquiry of the individuals personally responsible for obtaining the information, I believe the attached information is true, accurate and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine or imprisonment as provided by 18 Pa. C.S. §4904.

\_\_\_\_\_  
Name of Laboratory Manager

\_\_\_\_\_  
Signature of Laboratory Manager

\_\_\_\_\_  
Date

\_\_\_\_\_  
DEP Lab ID No.





## WHOLE EFFLUENT TOXICITY (WET) TEST SUMMARY REPORT INSTRUCTIONS

The Whole Effluent Toxicity (WET) Test Summary Report should be completed and submitted to the DEP regional office that issued the NPDES permit as part of the WET test report for each valid test. Submission of the complete WET Test Summary Report may be a requirement of the NPDES permit.

### COVER SHEET

A separate cover sheet should be used for each species tested. Identify the NPDES permit number and the name of the facility for which WET tests were completed. Check the appropriate boxes for the Species Tested and the Test Type. Check the "Yes" box to indicate if the test is a "Re-Test" and enter the date of the original test; if the test is not a Re-Test, check the "No" box.

### ***Sample Information***

In general, three samples should be collected for chronic tests and one sample for acute tests. For each sample collected provide the following information:

1. Date and time the sample was taken;
2. Sample source (i.e., outfall number);
3. Temperature of the sample in degrees Celsius;
4. Holding time before the sample was used for a test, in hours;
5. Chlorine concentration of the sample in mg/L; and
6. Whether or not the sample was dechlorinated prior to use in the test (Yes/No).

### ***Test Conditions***

1. Provide the date and time of test initiation and termination.
2. Check the appropriate box to indicate whether the test was renewal or non-renewal. If a renewal test, provide the frequency of renewals.
3. Provide the dilution series (5 dilutions, not including control) used for the test and the Target Instream Waste Concentration (TIWC). The TIWC concentration may be specified in the NPDES permit. The TIWC dilution is used to determine whether a test is considered "pass" or "failure."
4. Indicate the age of the organisms, in hours, at the start of the test.
5. List the number replicates of each dilution and the number of organisms in each replicate.
6. Provide the source of the organisms and the feeding regimen. Feeding regimen should include type of food and frequency of feeding.
7. Provide the light intensity throughout the test and the photoperiod.
8. Check the appropriate box for each Yes/No each quality assurance question and attach log sheets for temperature, DO, and pH. If modifications or deviations were made to approved EPA methods, attach a sheet explaining the changes and the agency that approved such changes.

### ***Dilution/Reagent Water***

In accordance with 25 Pa. Code § 252.403(h), at least once every 30 days a laboratory must verify and document that the reagent grade water meets specific criteria for conductivity, pH and Total Residual Chlorine (TRC). Provide the following information about the dilution water used for the test:

1. The date of the most recent test for chemistry;
2. Conductivity in  $\mu\text{mhos/cm}$ ;
3. pH in SU; and
4. TRC in mg/L.

### **Control Results**

Provide the following information about the results in the control condition:

*For chronic tests:*

1. The mean percent survival of the organisms in each dilution.
2. For Ceriodaphnia, the percent of organisms that produced 3 broods and the mean young per surviving female. For Pimephales, the mean dry weight of the survivors.

*For acute tests:* the mean percent survival of the organisms in each dilution.

### **Reference Toxicity Tests**

1. Provide the date of the most recent reference toxicity test.
2. Check the appropriate box to indicate whether the same test conditions were used for the reference test as the WET test, and if the test acceptability criteria in the EPA method were met.

### **Tests Results**

1. Indicate if the control was compared to the TIWC listed in the permit to determine if each test endpoint was considered a "pass" or "failure." If a dilution other than the TIWC dilution was used, check the box for "Other" and indicate the dilution (% effluent).
2. For the species tested, check the appropriate box(es) to indicate whether each applicable endpoint result is considered a "pass" or "failure."

**NOTE** – If required by the NPDES permit, DEP's WET Analysis Spreadsheet (see [www.dep.pa.gov/wett](http://www.dep.pa.gov/wett)) must be used to determine pass/failure results, and a printout of the spreadsheet results must be attached to the WET report submission to DEP.

### DATA SHEET

The purpose of the Data Sheet is for laboratories accredited by DEP to conduct WET testing to provide DEP with a standardized form to report results for test replicates. If a printout of DEP's WET Analysis Spreadsheet is attached to the report, submission of the Data Sheet is optional. For each species and endpoint, six conditions (columns) are available to enter replicate data. One column should record replicate data for the control condition, and the other five columns should record replicate data for each dilution used in the test.

The tables provide up to 15 replicates per species ("Rep. No."). If the Data Sheet is completed, enter the NPDES permit number and name of the facility and complete the remainder of the form as follows:

1. Check the box for the appropriate species tested; if a species other than Ceriodaphnia/Pimephales was tested, indicate the species name.
2. List the number of organisms in each replicate at the start of the test.
3. Indicate the method by which the pass/failure determination was made for the test by checking the box for TST (Test for Significant Toxicity), Other Hypothesis Testing (e.g., NOEC, LC50, etc.) or Other (specify the method if Other).
4. In each table header, record the value of the dilution series used.
5. In the survival columns of each table, list the number of organisms **still alive** in each replicate at the termination of the test.
6. In the reproduction columns, list the number of young in each replicate at the termination of the test.
7. In the growth columns, list the mean weight per original organism in each replicate at the termination of the test.