

PRETREATMENT PERMIT MODIFICATION

issued to

BOEHRINGER INGELHEIM PHARMACEUTICALS, INC.
900 Ridgebury Road
Ridgefield, CT 06877

Location Address:

900 Ridgebury Road
Ridgefield, CT 06877

Permit ID: SP0000021

Permit Expires: September 29, 2015

SECTION 1: GENERAL PROVISIONS

- (A) This permit modification is issued in accordance with section 22a-430(e) of Chapter 446k, Connecticut General Statutes ("CGS"), and Regulations of Connecticut State Agencies ("RCSA") adopted thereunder, as amended, and a modified Memorandum of Agreement dated June 3, 1981, by the Administrator of the United States Environmental Protection Agency which authorizes the State of Connecticut to administer a Pretreatment Program pursuant to 40 CFR Part 403.
- (B) BOEHRINGER INGELHEIM PHARMACEUTICALS, INC., ("Permittee"), shall comply with all conditions of this permit including the following sections of the RCSA which have been adopted pursuant to section 22a-430 of the CGS and are hereby incorporated into this permit. Your attention is especially drawn to the notification requirements of subsections (i)(2), (i)(3), (j)(1), (j)(6), (j)(8), (j)(9)(C), (j)(11)(C), (D), (E), and (F), (k)(3) and (4) and (l)(2) of section 22a-430-3.

Section 22a-430-3 General Conditions

- (a) Definitions
- (b) General
- (c) Inspection and Entry
- (d) Effect of a Permit
- (e) Duty
- (f) Proper Operation and Maintenance
- (g) Sludge Disposal
- (h) Duty to Mitigate
- (i) Facility Modifications; Notification
- (j) Monitoring, Records and Reporting Requirements
- (k) Bypass
- (l) Conditions Applicable to POTWs
- (m) Effluent Limitation Violations (Upsets)
- (n) Enforcement
- (o) Resource Conservation
- (p) Spill Prevention and Control
- (q) Instrumentation, Alarms, Flow Recorders
- (r) Equalization

Section 22a-430-4 Procedures and Criteria

- (a) Duty to Apply
- (b) Duty to Reapply
- (c) Application Requirements
- (d) Preliminary Review
- (e) Tentative Determination
- (f) Draft Permits, Fact Sheets
- (g) Public Notice, Notice of Hearing

- (h) Public Comments
 - (i) Final Determination
 - (j) Public Hearings
 - (k) Submission of Plans and Specifications. Approval.
 - (l) Establishing Effluent Limitations and Conditions
 - (m) Case by Case Determinations
 - (n) Permit issuance or renewal
 - (o) Permit Transfer
 - (p) Permit revocation, denial or modification
 - (q) Variances
 - (r) Secondary Treatment Requirements
 - (s) Treatment Requirements for Metals and Cyanide
 - (t) Discharges to POTWs - Prohibitions
- (C) Violations of any of the terms, conditions or limitations contained in this permit may subject the Permittee to enforcement action, including but not limited to, penalties, injunctions and/or forfeitures pursuant to applicable sections of the CGS and RCSA. Specifically, civil penalties of up to twenty-five thousand dollars may be assessed per violation per day.
- (D) Any false statement in any information submitted pursuant to this permit may be punishable as a criminal offense under section 22a-438 or 22a-131a of the CGS or in accordance with section 22a-6, under section 53a-157b of the CGS.
- (E) The authorization to discharge under this permit may not be transferred without prior written approval of the Commissioner of Energy and Environmental Protection ("the Commissioner"). To request such approval, the Permittee and proposed transferee shall register such proposed transfer with the Commissioner at least thirty (30) days prior to the transferee becoming legally responsible for creating or maintaining any discharge which is the subject of the permit transfer. Failure by the transferee to obtain the Commissioner's approval prior to commencing such discharge(s) may subject the transferee to enforcement action for discharging without a permit pursuant to applicable sections of the CGS and RCSA.
- (F) Nothing in this permit shall relieve the Permittee of other obligations under applicable federal, state and local law.
- (G) An annual fee shall be paid for each year this permit is in effect as set forth in section 22a-430-7 of the RCSA.

SECTION 2: DEFINITIONS

- (A) The definitions of the terms used in this permit shall be the same as the definitions contained in section 22a-423 of the CGS and sections 22a-430-3(a) and 22a-430-6 of the RCSA.
- (B) In addition to the above the following definitions shall apply to this permit:

"----" in the limits column on the monitoring table means a limit is not specified, but a value must be reported on the discharge monitoring report ("DMR").

"Annually," in the context of a sampling frequency, means the sample must be collected in the month of June.

"Average Monthly Limit" means the maximum allowable "Average Monthly Concentration" as defined in section 22a-430-3(a) of the RCSA when expressed as a concentration (e.g. mg/l). Otherwise, it means "Average Monthly Discharge Limitation" as defined in section 22a-430-3(a) of the RCSA.

"Batch" means a process in which wastewater is neither entering nor leaving a tank or reactor during the treatment process.

"Daily Concentration" means the concentration of a substance as measured in a daily composite sample, or the arithmetic average of all grab sample results defining a grab sample average.

"Daily Quantity" means the quantity of waste generated during an operating day.

"Instantaneous Limit" means the highest allowable concentration of a substance as measured by a grab sample, or the highest allowable measurement of a parameter as obtained through instantaneous monitoring.

"Maximum Daily Limit" means the maximum allowable "Daily Concentration" (defined above) when

expressed as a concentration (e.g. mg/l). Otherwise, it means the maximum allowable "Daily Quantity" as defined above unless it is expressed as a flow quantity. If expressed as a flow quantity it means "Maximum Daily Flow" as defined in section 22a-430-3(a) of the RCSA.

"mg/l" means milligrams per liter.

"NA" as a Monitoring Table abbreviation means "not applicable".

"NR" as a Monitoring Table abbreviation means "not required".

"Quarterly", in the context of a sampling frequency, means sampling is required in the months of March, June, September and December.

"Range During Sampling" or "RDS", as a sample type, means the maximum and minimum of all values recorded as a result of analyzing each grab sample of; 1) a Composite Sample, or 2) a Grab Sample Average. For those permittees with continuous monitoring and recording pH meters, Range During Sampling shall mean the maximum and minimum readings recorded with the continuous monitoring device during the Composite or Grab Sample Average sample collection.

"Range During Month" or "RDM", as a sample type, means the lowest and the highest values of all of the monitoring data for the reporting month.

"Sub-discharge" means a discharge described under Tables B, C, D, E, F and G (those representing for example DSN 002A, 003A) of this permit.

"ug/l" means micrograms per liter.

SECTION 3: COMMISSIONER'S FINAL DETERMINATION

- (A) The Commissioner has made a final determination and found that the modification of the existing system or installation of a new system will protect the waters of the state from pollution. The Commissioner's decision is based on Application No. 201301365 for permit modification received on March 12, 2013 and the administrative record established in the processing of that application.
- (B) The Commissioner hereby authorizes the Permittee to discharge in accordance with the provisions of this permit, the above referenced application, and all approvals issued by the Commissioner or the Commissioner's authorized agent for the discharges and/or activities authorized by, or associated with, this permit as follows:
 - (1) From the issuance of this permit through and including October 31, 2013, the Commissioner hereby authorizes the Permittee to discharge in accordance with the terms and conditions of Permit No. SP0000021, issued by the Commissioner to the Permittee on September 30, 2010, the previous application submitted by the Permittee on April 12, 2004, and all modifications and approvals issued by the Commissioner or the Commissioner's authorized agent for the discharge and/or activities authorized by, or associated with, Permit No. SP0000021, issued by the Commissioner to the Permittee on September 30, 2010.
 - (2) From November 1, 2013 until this permit expires or is modified or revoked, the Commissioner hereby authorizes the Permittee to discharge in accordance with the terms and conditions of Permit No. SP0000021, issued by the Commissioner to the Permittee on October 25, 2013, Application No. 201301365 received by the Department on March 12, 2013, and all modifications and approvals issued by the Commissioner or the Commissioner's authorized agent for the discharge and/or activities authorized by, or associated with, Permit No. SP0000021, issued by the Commissioner to the Permittee on October 25, 2013.
- (C) The Commissioner reserves the right to make appropriate revisions to the permit in order to establish any appropriate effluent limitations, schedules of compliance or other provisions that may be authorized under the Federal Clean Water Act or the Connecticut General Statutes or regulations adopted thereunder, as amended. The permit as modified or renewed under this paragraph may also contain any other requirements of the Federal Clean Water Act or Connecticut General Statutes or regulations adopted thereunder which are then applicable.

SECTION 4: EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

- (A) The discharges shall not exceed and shall otherwise conform to specific terms and conditions listed below. The discharges are restricted by, and shall be monitored in accordance with, the tables below.

Table A

Discharge Serial Number: 001-1		Monitoring Location: 1						
Wastewater Description: Combined discharge of sanitary and process wastewaters. Process wastewaters consist of laboratory wastewaters, process heating and cooling water discharges, floor washdown wastewaters, and animal sewage.								
Monitoring Location Description: Final Effluent Lift Station								
Discharge is to: The City of Danbury Water Pollution Control Facility								
PARAMETER	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING		
		Average Monthly Limit	Maximum Daily Limit	Sample/Reporting Frequency ²	Sample Type or Measurement to be reported	Instantaneous limit or required range	Sample/ Reporting Frequency ²	Sample Type or measurement to be reported
Biological Oxygen Demand (5 day)	mg/l	-----	500	Weekly/ Monthly	Daily Composite	750	NR	Grab
Flow, (Day of Sampling)	gpd	NA	301,158	Weekly/ Monthly	Daily Flow	NA	NR	NA
Flow Rate, (Average Daily) ¹	gpd	276,300	NA	Continuous/ Monthly	Daily Flow	NA	NR	NA
Flow, Maximum during a 24 hour period ¹	gpd	NA	301,158	Continuous/ Monthly	Daily Flow	NA	NR	NA
Methylene Chloride	mg/l	NA	NA	NR	NA	----	Monthly	Grab
pH, (Day of Sampling)	S.U.	NA	NA	NR	NA	5.5 – 10.0	Weekly/ Monthly	RDS
pH, Minimum	S.U.	NA	NA	NR	NA	5.5	Continuous	Continuous
pH, Maximum	S.U.	NA	NA	NR	NA	10.0	Continuous	Continuous
Total Suspended Solids	mg/l	-----	700	Weekly/ Monthly	Daily Composite	1050	NR	Grab
Total Toxic Volatile Organics ³	mg/l	NA	NA	NR	NA	2.0	Weekly/ Monthly	Grab
Zinc, Total	mg/l	NA	----	Quarterly	Daily Composite	NA	NR	Grab

Table Footnotes and Remarks:**Footnotes:**

¹ For this parameter, the Permittee shall maintain at the facility a record of the Total Daily Flow for each day of discharge and shall report the Average Daily Flow and the Maximum Daily Flow for each sampling month.

² The first entry in this column is the 'Sample Frequency'. If this entry is not followed by a 'Reporting Frequency' and the 'Sample Frequency' is more frequent than monthly, then the 'Reporting Frequency' is monthly. If the 'Sample Frequency' is specified as monthly, or less frequent, then the 'Reporting Frequency' is the same as the 'Sample Frequency'.

³ EPA Method 624 is the method that needs to be used for testing.

Table B									
Discharge Serial Number: 001-B				Monitoring Location: 1					
Wastewater Description: Research & Development Building B2L2 – Laboratory wastewater									
Monitoring Location Description: Batch Treatment System Discharge Line									
Discharge is to: DSN 001-1									
PARAMETER	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING			
		Average Monthly Limit	Maximum Daily Limit	Sample/Reporting Frequency ²	Sample Type or Measurement to be reported	Instantaneous limit or required range	Sample// Reporting Frequency	Sample Type or measurement to be reported	
Biological Oxygen Demand (5 day)	mg/l	NA	-----	Quarterly	Daily Composite	NA	NR	Grab	
Flow, Maximum during a 24 hour period ¹	gpd	NA	25,000	Daily/ Quarterly	Daily Flow	NA	NR	NA	
Methylene Chloride	mg/l	NA	NA	NR	NA	----	Quarterly	Grab	
pH, (Day of Sampling)	S.U.	NA	NA	NR	NA	5.5 – 10.0	Quarterly	RDS	
Total Toxic Volatile Organics ³	mg/l	NA	NA	NR	NA	-----	Quarterly	Grab	
Footnotes:									
¹ For this parameter, the Permittee shall maintain at the facility a record of the Total Daily Flow for each day of discharge and shall report the Maximum Daily Flow for each sampling month.									
² The first entry in this column is the ‘Sample Frequency’. If this entry is not followed by a ‘Reporting Frequency’ and the ‘Sample Frequency’ is more frequent than monthly, then the ‘Reporting Frequency’ is monthly. If the ‘Sample Frequency’ is specified as monthly, or less frequent, then the ‘Reporting Frequency’ is the same as the ‘Sample Frequency’.									
³ EPA Method 624 is the method that needs to be used for testing.									

Table C

Table C							
Discharge Serial Number: 001-I			Monitoring Location: 1				
Wastewater Description: Briar Ridge Center (Batch Neutralization System) —Laboratory wastewaters and process heating and cooling water							
Monitoring Location Description: Treatment System Discharge Line							
Discharge is to: DSN 001-1							
PARAMETER	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING	
		Average Monthly Limit	Maximum Daily Limit	Sample/Reporting Frequency ²	Sample Type or Measurement to be reported	Instantaneous limit or required range	Sample// Reporting Frequency
Flow Rate, (Average Daily) ¹	gpd	-----	NA	Daily/ Annually	Daily Flow	NA	NA
Flow, Maximum during a 24 hour period ¹	gpd	NA	20,000	Daily/ Annually	Daily Flow	NA	NA
pH, Minimum	S.U.	NA	NA	NR	NA	5.5	Continuous
pH, Maximum	S.U.	NA	NA	NR	NA	10.0	Continuous
Table Footnotes and Remarks:							
Footnotes:							
¹ For this parameter, the Permittee shall maintain at the facility a record of the Total Daily Flow for each day of discharge and shall report the Average Daily Flow and the Maximum Daily Flow for each sampling month.							
² The first entry in this column is the 'Sample Frequency'. If this entry is not followed by a 'Reporting Frequency' and the 'Sample Frequency' is more frequent than monthly, then the 'Reporting Frequency' is monthly. If the 'Sample Frequency' is specified as monthly, or less frequent, then the 'Reporting Frequency' is the same as the 'Sample Frequency'.							

Table D

Table D	
Discharge Serial Number: 001-J	Monitoring Location: 1
Wastewater Description: Production Building -- Mop washer wastewaters, and process heating and cooling water discharge	
Monitoring Location Description: Manhole # 9	
Discharge is to: DSN 001-1	

Table E									
Discharge Serial Number: 001-L			Monitoring Location: I						
Wastewater Description: Process Chemistry lab (Batch Neutralization System)– Laboratory wastewater									
Monitoring Location Description: Treatment System Discharge Line									
Discharge is to: DSN 001-1									
PARAMETER	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING			
		Average Monthly Limit	Maximum Daily Limit	Sample/Reporting Frequency ²	Sample Type or Measurement to be reported	Instantaneous or limit required range	Sample// Reporting Frequency	Sample Type or measurement to be reported	
Biological Oxygen Demand (5 day)	mg/l	N/A	-----	Monthly	Daily Composite	-----	NR	Grab	
Flow Rate, (Average Daily) ¹	gpd	-----	NA	Daily/ Monthly	Daily Flow ¹	NA	NR	NA	
Flow, Maximum during a 24 hour period ¹	gpd	NA	10,000	Daily/Monthly	Daily Flow ¹	NA	NR	NA	
Methylene Chloride	mg/l	NA	NA	NR	NA	-----	Monthly	Grab	
pH, (Day of Sampling)	S.U.	NA	NA	NR	NA	5.5 – 10.0	Monthly	RDS	
Total Toxic Volatile Organics ³	mg/l	NA	NA	NR	NA	-----	Monthly	Grab	
Table Footnotes and Remarks:									
Footnotes:									
¹ For this parameter, the Permittee shall maintain at the facility a record of the Total Daily Flow for each day of discharge and shall report the Average Daily Flow and the Maximum Daily Flow for each sampling month.									
² The first entry in this column is the ‘Sample Frequency’. If this entry is not followed by a ‘Reporting Frequency’ and the ‘Sample Frequency’ is more frequent than monthly, then the ‘Reporting Frequency’ is monthly. If the ‘Sample Frequency’ is specified as monthly, or less frequent, then the ‘Reporting Frequency’ is the same as the ‘Sample Frequency’.									
³ EPA Method 624 is the method that needs to be used for testing.									

Table F									
Discharge Serial Number: 001-M				Monitoring Location: 1					
Wastewater Description: Research & Development Building 10 (Continuous Flow Neutralization)– Laboratory Wastewater									
Monitoring Location Description: Final Neutralization Tank Discharge Line									
Discharge is to: DSN 001-1									
PARAMETER	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING			
		Average Monthly Limit	Maximum Daily Limit	Sample/Reporting Frequency ²	Sample Type or Measurement to be reported	Instantaneous limit or required range	Sample/Reporting Frequency	Sample Type or measurement to be reported	
Biological Oxygen Demand (5 day)	mg/l	NA	-----	Quarterly	Daily Composite	-----	NR	Grab	
Flow Rate, (Average Daily) ¹	gpd	-----	NA	Quarterly	Daily Flow	NA	NR	NA	
Flow, Maximum during a 24 hour period ¹	gpd	NA	15,000	Quarterly	Daily Flow	NA	NR	NA	
Methylene Chloride	mg/l	NA	NA	NR	NA	-----	Quarterly	Grab	
pH, (Day of Sampling)	S.U.	NA	NA	NR	NA	5.5 – 10.0	Quarterly	RDS	
Total Toxic Volatile Organics ³	mg/l	NA	NA	NR	NA	-----	Quarterly	Grab	
Table Footnotes and Remarks:									
Footnotes:									
¹ For this parameter, the Permittee shall maintain at the facility a record of the Total Daily Flow for each day of discharge and shall report the Average Daily Flow and the Maximum Daily Flow for each sampling month.									
² The first entry in this column is the ‘Sample Frequency’. If this entry is not followed by a ‘Reporting Frequency’ and the ‘Sample Frequency’ is more frequent than monthly, then the ‘Reporting Frequency’ is monthly. If the ‘Sample Frequency’ is specified as monthly, or less frequent, then the ‘Reporting Frequency’ is the same as the ‘Sample Frequency’.									
³ FPA Method 624 is the method that needs to be used for testing.									

Table G

Discharge Serial Number: 001-N		Monitoring Location: 1						
Wastewater Description: PPR Building Batch Neutralization System – Laboratory wastewater (including glass wash wastewater), final rinse waters associated with reactor cleanings, excess prep solutions (water, acid + water, or base + water), wastewater from hose stations located in process rooms (this wastewater is associated with wash-down of rooms, equipment exteriors and floors), wastewater from hand sinks and janitor slop sinks, wastewater from safety showers/eye wash stations, and wastewater from floor washes								
Monitoring Location Description: Treatment System Discharge Line								
Discharge is to: DSN 001-1								
PARAMETER	UNITS	FLOW/TIME BASED MONITORING			INSTANTANEOUS MONITORING			
		Average Monthly Limit	Maximum Daily Limit	Sample/Reporting Frequency ²	Sample Type or Measurement to be reported	Instantaneous limit or required range	Sample// Reporting Frequency	Sample Type or measurement to be reported
Biological Oxygen Demand (5 day)	mg/l	N/A	-----	Monthly	Daily Composite	-----	NR	Grab
Flow Rate, (Average Daily) ¹	gpd	-----	NA	Daily/Monthly	Daily Flow ¹	NA	NR	NA
Flow, Maximum during a 24 hour period ¹	gpd	NA	10,000	Daily/Monthly	Daily Flow ¹	NA	NR	NA
Methylene Chloride	mg/l	NA	NA	NR	NA	-----	Monthly	Grab
pH, (Day of Sampling)	S.U.	NA	NA	NR	NA	5.5 – 10.0	Monthly	RDS
Total Toxic Volatile Organics ³	mg/l	NA	NA	NR	NA	-----	Monthly	Grab

Table Footnotes and Remarks:

Footnotes:

¹ For this parameter, the Permittee shall maintain at the facility a record of the Total Daily Flow for each day of discharge and shall report the Average Daily Flow and the Maximum Daily Flow for each sampling month.

² The first entry in this column is the 'Sample Frequency'. If this entry is not followed by a 'Reporting Frequency' and the 'Sample Frequency' is more frequent than monthly, then the 'Reporting Frequency' is monthly. If the 'Sample Frequency' is specified as monthly, or less frequent, then the 'Reporting Frequency' is the same as the 'Sample Frequency'.

³ EPA Method 624 is the method that needs to be used for testing.

- (B) All samples shall be comprised of only those wastewaters described in this schedule. Therefore, samples shall be taken prior to combination with wastewaters of any other type and after all approved treatment units, if applicable. All samples taken shall be representative of the discharge during standard operating conditions.
- (C) In cases where limits and sample type are specified but sampling is not required, the limits specified shall apply to all samples which may be collected and analyzed by, the Department of Energy and Environmental Protection personnel, the Permittee, or other parties.

SECTION 5: SAMPLE COLLECTION, HANDLING AND ANALYTICAL TECHNIQUES AND REPORTING REQUIREMENTS

- (A) Chemical analyses to determine compliance with effluent limits and conditions established in this permit shall be performed using the methods approved by the Environmental Protection Agency pursuant to 40 CFR 136 unless an alternative method has been approved in writing in accordance with 40 CFR 136.4 or as provided in section 22a-430-3(j)(7) of the RCSA. Chemicals which do not have methods of analysis defined in 40 CFR 136 shall be analyzed in accordance with methods specified in this permit.
- (B) All metals analyses identified in this permit shall refer to analyses for Total Recoverable Metal as defined in 40 CFR 136 unless otherwise specified.
- (C) The results of chemical analysis required above shall be entered on the DMR, provided by this office, and reported to the Bureau of Materials Management and Compliance Assurance at the address below. Except for continuous monitoring, any monitoring required more frequently than monthly shall be reported on an attachment to the DMR, and any additional monitoring conducted in accordance with 40 CFR 136 or other methods approved by the Commissioner shall also be included on the DMR, or as an attachment, if necessary. The report shall also include a detailed explanation of any violations of the limitations specified. The DMR shall be received at the address below by the last day of the month following the month in which samples are taken.

Water Permitting and Enforcement Division (Attn: DMR Processing)
Bureau of Materials Management and Compliance Assurance
Connecticut Department of Energy and Environmental Protection
79 Elm Street
Hartford, CT 06106-5127

- (D) If this permit requires monitoring of a discharge on a calendar basis (e.g. monthly, quarterly), but a discharge has not occurred within the frequency of sampling specified in the permit, the Permittee must submit the DMR as scheduled, indicating "NO DISCHARGE". For those permittees whose required monitoring is discharge dependent (e.g., per batch), the minimum reporting frequency is monthly. Therefore, if there is no discharge during a calendar month for a batch discharge, a DMR must be submitted indicating such by the end of the following month.
- (E) NetDMR Reporting Requirements

1. Prior to one-hundred and eighty (180) days after the issuance of this permit, the Permittee may either submit monitoring data and other reports to the Department in hard copy form or electronically using NetDMR, a web-based tool that allows Permittees to electronically submit discharge monitoring reports (DMRs) and other required reports through a secure internet connection. Unless otherwise approved in writing by the Commissioner, no later than one-hundred and eighty (180) days after the issuance of this permit the Permittee shall begin reporting electronically using NetDMR. Specific requirements regarding subscription to NetDMR and submittal of data and reports in hard copy form and for submittal using NetDMR are described below:

- a. Submittal of *NetDMR Subscriber Agreement*

On or before fifteen (15) days after the issuance of this permit, the Permittee and/or the person authorized to sign the Permittee's discharge monitoring reports ("Signatory Authority") as described in RCSA Section 22a-430-3(b)(2) shall contact the Department at deep.netdmr@ct.gov and initiate the NetDMR subscription process for electronic submission of Discharge Monitoring Report (DMR) information. Information on NetDMR is available on the Department's website at www.ct.gov/deep/netdmr. On or before ninety (90) days after issuance of this permit the Permittee shall submit a signed and notarized copy of the **Connecticut DEEP NetDMR Subscriber Agreement** to the Department.

b. Submittal of Reports Using NetDMR

Unless otherwise approved by the Commissioner, on or before one-hundred and eighty (180) days after issuance of this permit, the Permittee and/or the Signatory Authority shall electronically submit DMRs and reports required under this permit to the Department using NetDMR in satisfaction of the DMR submission requirement of Section 5(C) of this permit.

DMRs shall be submitted electronically to the Department no later than the 30th day of the month following the completed reporting period. All reports required under the permit, including any monitoring conducted more frequently than monthly or any additional monitoring conducted in accordance with 40 CFR 136, shall be submitted to the Department as an electronic attachment to the DMR in NetDMR. Once a Permittee begins submitting reports using NetDMR, it will no longer be required to submit hard copies of DMRs or other reports to the Department. The Permittee shall also electronically file any written report of non-compliance described in Section 6 of this permit as an attachment in NetDMR. NetDMR is accessed from: <http://www.epa.gov/netdmr>.

c. Submittal of NetDMR Opt-Out Requests

If the Permittee is able to demonstrate a reasonable basis, such as technical or administrative infeasibility, that precludes the use of NetDMR for electronically submitting DMRs and reports, the Commissioner may approve the submission of DMRs and other required reports in hard copy form ("opt-out request"). Opt-out requests must be submitted in writing to the Department for written approval on or before fifteen (15) days prior to the date a Permittee would be required under this permit to begin filing DMRs and other reports using NetDMR. This demonstration shall be valid for twelve (12) months from the date of the Department's approval and shall thereupon expire. At such time, DMRs and reports shall be submitted electronically to the Department using NetDMR unless the Permittee submits a renewed opt-out request and such request is approved by the Department.

All opt-out requests and requests for the NetDMR subscriber form should be sent to the following address or by email at deep.netdmr@ct.gov:

Attn: NetDMR Coordinator
Connecticut Department of Energy and Environmental Protection
79 Elm Street
Hartford, CT 06106-5127

- (F) Copies of all DMRs shall be submitted concurrently to the local Water Pollution Control Authority(ies) ("WPCA") involved in the treatment and collection of the permitted discharge.

SECTION 6: RECORDING AND REPORTING OF VIOLATIONS, ADDITIONAL TESTING REQUIREMENTS

- (A) If any sample analysis indicates that an effluent limitation specified in Section 4 of this permit has been exceeded, a second sample of the effluent shall be collected and analyzed for the parameter(s) in question and the results reported to the Bureau of Materials Management and Compliance Assurance (Attn: DMR Processing) within thirty (30) days of the exceedance.
- (B) The Permittee shall immediately notify the Bureau of Materials Management and Compliance Assurance and the local Water Pollution Control Authority of all discharges that could cause problems to the Publicly Owned Treatment Works ("POTW"), including but not limited to slug loadings of pollutants which may cause a violation of the POTW's NPDES permit, or which may inhibit or disrupt the POTW, its treatment processes or operations, or its sludge processes, use or disposal.
- (C) In addition to the notification requirements specified in Section 1B of this permit, if any sampling and analysis of the discharge performed by the Permittee indicates a violation of limits specified in Section 4 of this permit, the Permittee shall notify the Bureau of Materials Management and Compliance Assurance within twenty-four (24) hours of becoming aware of the violation.

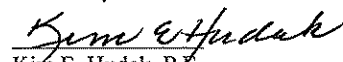
SECTION 7: COMPLIANCE CONDITIONS

In accordance with 40 CFR 403.8(f)(2)(viii), the Commissioner may provide public notification, in a newspaper of general circulation in the area of the respective POTW, of permittees that at any time in the previous twelve (12) months were in significant noncompliance with the provisions of this permit. For the purposes of this provision, a permittee that is a Significant Industrial User is in significant noncompliance if its violation(s) meet(s) one or more of the following criteria:

- **Chronic violations:** Those in which sixty-six percent (66%) or more of all measurements taken for the same pollutant parameter during a six-month period exceed (by any magnitude) the Average Monthly, Maximum Daily or Maximum Instantaneous Limit(s).
- **Technical Review Criteria violations:** Those in which thirty-three percent (33%) or more of all of the measurements taken for the same pollutant parameter during a six-month period equal or exceed the Average Monthly, Maximum Daily or Maximum Instantaneous Limit(s) multiplied by 1.4 for biochemical oxygen demand, total suspended solids or fats, oil, and grease, or 1.2 for all other pollutants except pH.
- **Monitoring Reports:** Failure to provide, within forty-five (45) days after the due date, required reports such as DMRs.
- **Compliance Schedule:** Failure to meet within ninety (90) days after the schedule date, a compliance schedule milestone contained in or linked to a respective permit for starting construction, completing construction or attaining final compliance.
- **Noncompliance Reporting:** Failure to accurately report noncompliance in accordance with provisions identified in Section 6 of this permit.
- **Discretionary:** Any other violation of an effluent limit that the Department determines has caused, alone or in combination with other discharges, a violation of the POTW's NPDES permit, inhibition or disruption of the POTW, its treatment processes or operations, or its sludge processes, use or disposal.
- **Imminent Endangerment:** Any discharge of a pollutant that has caused imminent endangerment to human health, welfare or to the environment, or has resulted in the Department's exercise of its emergency authority under 40 CFR 403.8(f)(1)(vi)(B) to halt or prevent such a discharge.
- **Best Management Practices ("BMPs"):** Any other violation or group of violations, which may include a violation of BMPs, which the Department determines will adversely affect the operation or implementation of the pretreatment program.

This permit modification replaces and supersedes, in its entirety, State Permit No. SP0000021 issued on September 30, 2010.

This permit modification is hereby issued on *Oct. 25, 2013.*


Kim E. Hudak, P.E.
Assistant Director
Water Permitting and Enforcement Division
Bureau of Materials Management and
Compliance Assurance

KEH/EMW

cc: Danbury POTW

DATA TRACKING AND TECHNICAL FACT SHEET

Permittee: Boehringer Ingelheim Pharmaceuticals, Inc.

PERMIT, ADDRESS, AND FACILITY DATA

PERMIT No. SP0000021

APPLICATION No. 201301365

<u>Mailing Address:</u>						<u>Location Address:</u>					
Street:	900 Ridgebury Road					Street:	900 Ridgebury Road				
City:	Ridgefield	ST:	CT	Zip:	06877	City:	Ridgefield	ST:	CT	Zip:	06877
Contact Name:	Jason Masi					DMR Contact	Jason Masi				
Phone No.:	(203) 798-5664					Phone No.:	(203) 798-5664				
Contact E-mail:	Jason.Masi@boehringer-ingelheim.com					DMR Contact E-mail:	Jason.Masi@boehringer-ingelheim.com				

PERMIT INFORMATION

DURATION 5 YEAR X 10 YEAR ____ 30 YEAR ____

TYPE New ____ Reissuance ____ Modification X

CATEGORIZATION POINT (X) NON-POINT () GIS #

NPDES () PRETREAT (X) GROUND WATER(UIC) () GROUND WATER (OTHER) ()

NPDES MAJOR(MA) ____
 NPDES SIGNIFICANT MINOR or PRETREAT SIU (SI) ____
 NPDES or PRETREATMENT MINOR (MI) ____

PRETREAT SIGNIFICANT INDUS USER(SIU) X
 PRETREAT CATEGORICAL (CIU) ____
 Note: If it's a CIU then check off SIU

POLLUTION PREVENTION MANDATE ____ ENVIRONMENTAL EQUITY ISSUE ____

SIC CODES 8731, 6719 ____

COMPLIANCE ISSUES

COMPLIANCE SCHEDULE YES ____ NO X ____

POLLUTION PREVENTION ____ TREATMENT REQUIREMENT ____ WATER CONSERVATION ____

WATER QUALITY REQUIREMENT ____ REMEDIATION ____ OTHER ____

IS THE PERMITTEE SUBJECT TO A PENDING ENFORCEMENT ACTION? NO X ____ YES ____

OWNERSHIP CODE

Private X Federal ____ State ____ Municipal (town only) ____ Other public ____

DEEP STAFF ENGINEER Ewa Wozniak

PERMIT FEES

<i>Discharge Code</i>	<i>DSN Number</i>	<i>Annual Fee</i>
501047N	001-I	NONE
501032Y	001-B, 001-I, 001-L, 001-M, 001-N	\$4,337.50
502000a	001-B, 001-I	\$656.25

FOR SEWER DISCHARGES

Discharge to the City of Danbury POTW via its collection system. The facility ID number of the POTW is 034-001.

NATURE OF BUSINESS GENERATING DISCHARGE

Boehringer conducts pharmaceutical research and development operations.

PROCESS AND TREATMENT DESCRIPTION (by DSN)

DSN 001-I: This discharge is made up of a maximum flow of 301,158 gallons per day of combined sanitary and process wastewaters.

DSN 001-B: This discharge is made up of a maximum flow of 25,000 gallons per day of laboratory wastewaters and process heating and cooling water. Treatment consists of batch neutralization.

DSN 001-I: This discharge is made up of a maximum flow of 20,000 gallons per day of laboratory wastewaters and process heating and cooling water. Treatment consists of batch neutralization.

DSN 001-J: This discharge is made up of mop washer wastewaters and process heating and cooling water. Treatment is not necessary.

DSN 001-L: This discharge is made up of a maximum flow of 10,000 gallons per day of laboratory wastewaters. Treatment consists of batch neutralization.

DSN 001-M: This discharge is made up of a maximum flow of 15,000 gallons per day of laboratory wastewaters and process heating and cooling water. Treatment consists of continuous flow neutralization.

DSN 001-N: This discharge is made up of a maximum flow of 10,000 gallons per day of laboratory wastewater. Treatment consists of batch neutralization.

RESOURCES USED TO DRAFT PERMIT

- ☐ Federal Effluent Limitation Guideline _____
- ☐ Performance Standards
- ☐ Federal Development Document
- ☐ Treatability Manual
- ☒ Department File Information
- ☐ Connecticut Water Quality Standards
- ☐ Anti-degradation Policy
- ☐ Coastal Management Consistency Review Form (See Other Comments)
- ☒ Other - Explain

BASIS FOR LIMITATIONS, STANDARDS OR CONDITIONS

- X Case-by-Case Determination using Best Professional Judgement (See Other Comments)
DSN 001-I: BOD, Methylene Chloride, pH, TSS, Total Toxic Volatile Organics, Zinc
DSN 001-B: BOD, Methylene Chloride, pH, Total Toxic Volatile Organics
DSN 001-I: pH
DSN 001-L: BOD, Methylene Chloride, pH, Total Toxic Volatile Organics
DSN 001-M: BOD, Methylene Chloride, pH, Total Toxic Volatile Organics
DSN 001-N: BOD, Methylene Chloride, pH, Total Toxic Volatile Organics

COMMENTS RELATED TO THE PERMIT ISSUED ON SEPTEMBER 30, 2010

Monitoring for parameters was included based on effluent quality over the past five year permit period, the potential for pollutant presence in the individual waste streams and consideration of the characteristics of each specific waste stream.

DSN 001-J1 from the previous permit was changed to DSN 001-J.

DSN 001-J, which was subject to 40 CFR 439, Subpart D (Pharmaceutical Manufacturing Point Source Category, Mixing/Compounding and Formulation Subcategory), limits and monitoring for n-amyl acetate, isopropyl alcohol, ethyl acetate and methylene chloride were modified from the previous permit. Monitoring for all of the above-mentioned parameters was changed from annually to semi – annually due to the fact that this discharge was categorical. The company's historical data shows that the concentrations of the above-mentioned parameters were much lower than the average and maximum daily limits specified in the Federal regulations. Therefore, based on a case-by-case determination using Best Professional Judgement, the Department implemented more stringent limits in this permit for the following parameters: n-amyl acetate, isopropyl alcohol and ethyl acetate.

During the process of this permit reissuance, the company expressed its desire to have the treatment system associated with DSN 001-B upgraded from a flow through system to a batch system. This switchover was completed before the permit was public noticed. The Department reduced the maximum daily flow limit for DSN 001-B from 45,000 gpd to 25,000 gpd because the new proposed batch treatment system would only be able to handle a maximum of 25,000 gpd of flow. In addition, maximum daily flow limits for DSN 001-I and DSN 001-L were increased from 5,460 gpd and 3,200 gpd to 20,000 gpd and 10,000 gpd, respectively. Both of these batch treatment systems would be able to treat the proposed amount of wastewater. Also, this increase in flow at DSN 001-I and DSN 001-L would not cause the company to exceed the total permitted flow at DSN001-1 (Lift Station).

DSN 001-I was equipped with alternate power generators to ensure that power would be provided to the lift station in case of main power failure. Also, because process wastewater comingles with domestic sewage prior to the compliance monitoring location, all wastewater was deemed process wastewater and would be covered under this individual permit.

Other Discharge Serial Numbers such as 001-C, D, E, F, G, H, or K were either eliminated through previous permit reissuance cycles or modifications or were never used.

COMMENTS RELATED TO THE PERMIT MODIFICATION

On March 12, 2013, Boehringer submitted to the Department an application to modify its existing State Permit No. SP0000021. Specifically, the company requested to add another discharge monitoring location, DSN 001-N, associated with laboratory wastewater discharges from the PPR Building. In the permit modification application, the company stated that the new discharge, associated with DSN 001-N, will be very similar to the current discharge (DSN 001-L) from the pH neutralization system located in the PDL/Kilo complex. The DSN 001-N discharge will consist of a maximum daily flow of 10,000 gallons per day and the treatment will consist of batch neutralization. The addition of the discharge associated with DSN 001-N will contribute an additional 10,000 gallons per day to the DSN 001-1 outfall. However, this increase in flow will not have an impact on the average monthly and maximum daily flow limits at DSN 001-1.

The following is a list of wastewaters discharged to the DSN 001-N batch neutralization system:

1. laboratory wastewater
2. final rinse waters associated with reactors cleanings
3. excess prep solutions (water, acid + water, or base + water)
4. wastewater from hose stations located in process rooms (this wastewater is associated with wash-down of rooms, equipment exteriors, and floors)
5. wastewater from hand sinks and janitor slop sinks

6. wastewater from safety showers/eye wash stations
7. floor wash wastewater

In a letter dated May 24, 2013, the company requested that the Department remove the monitoring requirements associated with DSN 001-J as the wastewaters generated from mixing, compounding, and formulation processes are no longer generated. As a result, the Department removed the monitoring requirements from the table associated with DSN 001-J from the permit. The only wastewater being discharged at DSN 001-J consists of mop washer wastewaters, and process heating and cooling water discharge. Additionally, since the company is no longer conducting any mixing, compounding, or formulation processes on site, the company is no longer subject to 40 CFR 439, Subpart D. Furthermore, the company is also not subject to 40 CFR 439, Subpart E (Research) because this subsection does not have any defined pre-treatment effluent guidelines. Nevertheless, the company is still required to have the individual permit because the company is unable to get coverage under the General Permit for Miscellaneous Discharges of Sewer Compatible (MISC) Wastewater due to the general permit's maximum flow limit of 50,000 gpd.

The pH limits established for DSN 001-N (5.5 – 10.0 S.U.) are considered to be protective of the sanitary sewer system. The limits for the other discharges are the same as in the previously issued permits.

Monitoring for Instantaneous Flow, associated with DSN 001-I, has been removed from the permit during this permit modification because it is no longer necessary.