



The State of New Hampshire  
**DEPARTMENT OF ENVIRONMENTAL SERVICES**



**Thomas S. Burack, Commissioner**

November 26, 2007

Mr. Arthur Auclair, Jr.  
Senior Environmental Coordinator  
Public Service Company of New Hampshire  
Merrimack Station  
97 River Road  
Bow, New Hampshire 03304-3314

NOV 30 2007

Subject: National Pollutant Discharge Elimination System (NPDES) Compliance Sampling  
Inspection at PSNH-Merrimack Station, Bow, NPDES Permit No. NH0001465

Dear Mr. Auclair:

On November 1, 2007, as a representative of the New Hampshire Department of Environmental Services (DES), Wastewater Engineering Bureau, I conducted a NPDES Compliance Sampling Inspection (CSI) at the PSNH-Merrimack Station. There were no deficiencies found during this CSI.

Please be advised that DES will continue to monitor PSNH-Merrimack Station's compliance status, and that this letter does not provide relief against any existing or future violations.

Attached is an EPA Water Compliance Inspection Report and TSS analytical results for outfall 003A. The results were within permitted limits. If you have any questions regarding this matter, please contact me at (603) 271-1494. Thank you for your cooperation.

Sincerely,

Roy D. Gilbreth  
Environmental Inspector  
Compliance Section, Wastewater Engineering Bureau

cc: DES, WD, WWEB/File

Paul Heirtzler, P.E., Esq., Administrator, WWEB  
Tracy Wood, P.E., Compliance Engineer, WWEB  
Joy Hilton, USEPA Water Technical Bureau

Attachment: EPA Water Compliance Inspection Report  
November 1, 2007 Sample Results  
Attachment A – Sample Data Summary

## Water Compliance Inspection Report

## Section A: National Data System Coding (i.e., PCS)

Transaction Code								NPDES							yr/mo/day						Inspection Type		Inspector		Fac Type							
1	N	2	S	3	N	H	O	O	O	I	A	E	S	11	12	O	T	I	O	I	17	18	S	19	S	20	Z					
Remarks																																
21																													66			
Inspection Work Days								Facility Self-Monitoring Evaluation Rating								B1	QA	-----Reserved-----														
67			1	4	69										70	5	71	N	72	N	73			74				75				80

## Section B: Facility Data

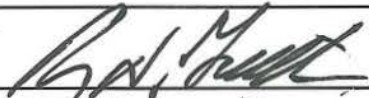

Name and Location of Facility Inspected (For industrial users discharging to POTW, also include POTW name and NPDES permit number) PSNH - Merrimack Station 97 River Road Bow, New Hampshire 03304-3314	Entry Time/Date 10:03 AM 11/1/2007	Permit Effective Date 7/25/1992
	Exit Time/Date 12:59 PM 11/1/2007	Permit Expiration Date 7/25/1997
Name(s) of On-Site Representative(s)/Title(s)/Phone and Fax Number(s) Athur Auclair, Jr., Senior Environmental Coordinator Ken Kroh, Chemical Foreman, Chemistry Department David Fradette, Maintenance Supervisor Phone: (603)224-4081 Fax: (603)634-2334	Other Facility Data (e.g., SIC NAICS, and other descriptive information)	
Name, Address of Responsible Official/Title/Phone and Fax Number William Smagula Director of Generation Phone: (603)224-4081 Fax: (603)634-2334 Contacted <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

## Section C: Areas Evaluated During Inspection (Check only those areas evaluated)

<input checked="" type="checkbox"/> Permit	<input checked="" type="checkbox"/> Self Monitoring Program	<input type="checkbox"/> Pretreatment	<input type="checkbox"/> MS4
<input checked="" type="checkbox"/> Records/Reports	<input type="checkbox"/> Compliance Schedules	<input type="checkbox"/> Pollution Prevention	
<input checked="" type="checkbox"/> Facility Site Review	<input checked="" type="checkbox"/> Laboratory	<input type="checkbox"/> Storm Water	
<input checked="" type="checkbox"/> Effluent/Receiving Waters	<input type="checkbox"/> Operations/Maintenance	<input type="checkbox"/> Combined Sewer Overflow	
<input checked="" type="checkbox"/> Flow Measurement	<input type="checkbox"/> Sludge Handling/Disposal	<input type="checkbox"/> Sanitary Sewer Overflow	

## Section D: Summary of Findings/Comments

*(Attach additional sheets of narrative and checklists, including Single Event Violation codes, as necessary)*

SEV Codes	SEV Description	
Signature of Inspector	 Signature of Management QA Reviewer Tracy L. Wood, P.E.	Agency/Office/Phone and Fax Numbers NHDES/WD/WWEB (603) 271-3908/4128 11/15/2007
	 Signature of Management QA Reviewer Tracy L. Wood, P.E.	Agency/Office/Phone and Fax Numbers NHDES/WD/WWEB (603) 271-3908/4128 11/15/2007



Thursday, November 29, 2007

STERGIOS SPANOS  
NHDES WASTEWATER ENGINEERING BUREAU  
29 HAZEN DR  
CONCORD NH 03301

RE: Workorder: A712740 - NPDES, INDUSTRIAL PERMITS  
Project ID: 05-0021510 - NPDES, INDUSTRIAL

Dear STERGIOS SPANOS:

Enclosed are the analytical results for the sample(s) received by the laboratory on Thursday, Nov 01, 2007. Unless indicated as exceptions, the sample(s) met EPA requirements for hold times, preservation techniques, container types and other receipt conditions. Results reported conform to the most current NELAC standard, where applicable, unless otherwise narrated in the body of the report. Any results reported for samples subcontracted to another laboratory are indicated on the report. Please refer to <http://www.des.state.nh.us/nhelap/accredited/> for a copy of our current NELAP certificate and accredited parameters.

We appreciate the opportunity to provide this analytical service for you. If you have any questions regarding this report or your results, please feel free to contact us.

The following signature indicates technical review and acceptance of the data.

Sincerely,

Authorized Signature

Enclosures

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## REPORT OF LABORATORY ANALYSIS

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## DATA QUALIFIER DESCRIPTIONS

Workorder: A712740 - NPDES, INDUSTRIAL PERMITS

Project ID: 05-0021510 - NPDES, INDUSTRIAL

The following are a list of some column headers and abbreviations with their meanings as used throughout the analysis report. Referring to them will assist you in interpreting your report.

RDL= The lowest value the laboratory calibrates its instrumentation for this parameter. Any instrumental estimate of results below the Report Limit is reported as Not Detected (ND).

DF= For some heavily contaminated samples, the laboratory must dilute samples to keep the final number within its calibration scale. This is referred to as the Dilution Factor. Final results and reporting limits are adjusted relative to the DF used.

ID= The Chemical Abstract Identification number or another generally accepted cross reference identification for this parameter.

QUAL= Indicates that the result has been qualified. Refer to the Analytical Report Comments and Qualifiers page for details.

LIMIT= Reflects the Maximum Contamination Level (MCL), if one exists, a secondary or recommended level or another State or Federal action level.

Surrogates = For some analyses, the laboratory adds a number of compounds to monitor analytical performance. These results are provided for your information.

> = Greater than

< = Less than

mg/L = milligrams per Liter

ug/L = micrograms per Liter

mg/kg = milligrams per kilogram

ug/kg = micrograms per kilogram

P-A = Present/Absent

CTS/100 mL = Counts per 100 milliliters

CFU = Colony forming unit

MPN = Most Probable Number

pCi/L = picoCuries per Liter

J = Estimated value; analyte detected at less than the Reporting Limit but greater than the laboratory's Method Detection Limit.

B = Analyte detected in the method blank for the batch of samples. Its presence in the sample may be suspect.

E = Estimated value; result exceeded the upper calibration level for the parameter.

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NEW HAMPSHIRE  
DEPARTMENT OF  
**Environmental  
Services**

NHDES  
29 HAZEN DRIVE PO BOX 95  
CONCORD NH 03302-0095  
Phone: (603) 271-3445  
Fax: (603) 271-2997

## SAMPLE SUMMARY

Workorder: A712740 - NPDES, INDUSTRIAL PERMITS

Project ID: 05-0021510 - NPDES, INDUSTRIAL

Lab ID	Sample ID	Ref ID	Matrix	Date Collected	Date Received	Misc Info
A712740001	003A OUTFALL WEIR	BOW	WATER	11/1/2007 10:48	11/1/2007	
A712740002	003A OUTFALL WEIR- DUPLICATE	BOW-PSNH MERRIMACK	WATER	11/1/2007 10:48	11/1/2007	

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NHDES  
29 HAZEN DRIVE PO BOX 95  
CONCORD NH 03302-0095  
Phone: (603) 271-3445  
Fax: (603) 271-2997

## ANALYTICAL RESULTS

Workorder: A712740 - NPDES, INDUSTRIAL PERMITS

Project ID: 05-0021510 - NPDES, INDUSTRIAL

Lab ID: A712740001

Matrix: WATER

Sample ID: 003A OUTFALL WEIR

Sample Type: SAMPLE

Description: BOW

Parameters	Results Units	RDL	DF Prepared	Analyzed	ID	Limit	Qual
<b>Wet Chemistry</b>							
Analytical Method: SM 2540D							
Total Suspended Solids	5.5 mg/L	5.0	1	11/7/2007 09:45			

Date: 11/29/2007

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29 HAZEN DRIVE PO BOX 95  
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## ANALYTICAL RESULTS

Workorder: A712740 - NPDES, INDUSTRIAL PERMITS

Project ID: 05-0021510 - NPDES, INDUSTRIAL

Lab ID: A712740002

Matrix: WATER

Sample ID: 003A OUTFALL WEIR-DUPLICATE

Sample Type: SAMPLE

Description: BOW-PSNH MERRIMACK

Parameters	Results	Units	RDL	DF Prepared	Analyzed	ID	Limit	Qual
<b>Wet Chemistry</b>								
Analytical Method: SM 2540D								
Total Suspended Solids	ND	mg/L	5.0	1	11/7/2007 09:45			

Date: 11/29/2007

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**(Laboratory Policy: Samples not meeting method requirements will be analyzed at the discretion of the NH DES Laboratory.)**

Temp. °C. 3°C

NHDES Site Number

Town: Bow

Contact & Phone # Roy Gilbreth 271-1494

[illegible]

Relinquished By \_\_\_\_\_ Date and Time \_\_\_\_\_ Received For Laboratory By W

Section No.: 22.0  
Revision No.: 4  
Date:03-02-05  
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Data Reviewed By J. K. [Signature] Date 11-15-07