The State of New Hampshire



DEPARTMENT OF ENVIRONMENTAL SERVICES



Thomas S. Burack, Commissioner

May 3, 2016

Paula Anania Chief Plant Operator Portsmouth WWTF 680 Peverly Hill Road Portsmouth, NH 03801

Subject: National Pollutant Discharge Elimination System (NPDES)

Compliance Sampling Inspection (CSI)

Portsmouth Wastewater Treatment Facility (WWTF), Portsmouth, NH

NPDES Permit # NH0100234

Dear Ms. Anania:

On April 21, 2016, as a representative of the New Hampshire Department of Environmental Services (DES), Water Division, Wastewater Engineering Bureau, I conducted a NPDES CSI at the Portsmouth WWTF. Objectives of the CSI include determining compliance with NPDES permit conditions, verifying the accuracy of permit-required information and verifying the adequacy of permittee sampling and monitoring.

The following people were present during this CSI:

Paula Anania, Chief Plant Operator, Portsmouth WWTF Tim Babkirk, Assistant Chief Plant Operator, Portsmouth WWTF Stephanie Larson, Environmental Inspector, DES

Enclosed is a copy of EPA's Water Compliance Inspection Report Form 3560-3, Attachment A -Sample Data Summary, and the inspection sample results. The laboratory results for each of the parameters tested were within the allowable permit limitations. Only the enterococcus sample was taken in accordance with Portsmouth's permit requirements, thus the result must be included in the April 2016 Discharge Monitoring Report (DMR) calculations.

DEFICIENCY: (Response required).

During the inspection the following deficiency was noted:

1. Portsmouth was notified of a leak under the Peirce Island Road bridge on January 27, 2016. Because there are both water and wastewater lines under the bridge, they were not able to determine the source and nature of the leak until sometime in February. Portsmouth personnel did not notify DES of the wastewater discharge until March 4, 2016. This exceeded both the 24-hour verbal and 5-day written notification requirements in Part II.D.1.e. of the permit. Portsmouth personnel should ensure that all permit notifications and reporting requirements are done on time.

CORRECTIVE ACTIONS REQUIRED:

Describe all steps taken to correct the deficiency identified by the inspector. This description should also include the date the deficiency was corrected or the anticipated correction date. If the submitted response is acceptable to DES and has not resulted in environmental harm, DES will close out the inspection and no further action, other than continued compliance, is required by the permittee. If DES identifies repeat deficiencies or deficiencies that result in environmental harm in this or future inspections, DES may proceed immediately with enforcement.

DES requests that Portsmouth submit its response to this inspection by **June 3, 2016**. If DES does not receive a signed, complete response within the allowed time frame, DES may proceed with an appropriate enforcement action.

Please mail your inspection response to:

Stephanie Larson

NHDES/WD-WWEB

P.O. Box 95

Concord, NH 03302-0095

If you have any questions, please call me at (603) 271-1493.

Sincerely,

Stephanie Larson

Environmental Inspector

Compliance Section

Wastewater Engineering Bureau

Stephane Corson.

cc: DES, WD, WWEB/File

ec: Tracy L. Wood, P.E., Administrator, WWEB Joy Hilton, USEPA Water Technical Unit

Attachments: EPA Form 3560-3 - Water Compliance Inspection Report

Attachment A – Sample Data Summary

April 21, 2016 Sample Results



United States Environmental Protection Agency Washington, D.C. 20460

Water Compliance Inspection Report

Section A: National Data System	Coding (i.e., PCS)				
Transaction Code NPDES yr/mo/da	ay	Inspection Type	Inspector F	Fac Type	
1 N 2 5 3 N H 0 1 0 0 2 3 4 11 12 1 6 0 4	2 1 17	18 S	19 S 2	20 1	
Remarks					
21				66	
Inspection Work Days Facility Self-Monitoring Evaluation Rating B	1 QA		Reserved		
67 1 5 69 70 5 71	72 N	73 74	75	80	
Section B: I	acility Data				
Name and Location of Facility Inspected (For industrial users discharging to PC	OTW, aiso	Entry Time/Date	Permit Effective	Date	
include POTW name and NPDES permit number) POTW Name/I	Commit Ala	9:38 AM	8/1/2007		
PORTSHIOUGH VVVVIF	CITIIL NO.	4/21/2016			
Peirce Island		Exit Time/Date	Permit Expiration	n Date	
Portsmouth, NH 03801		12:25 PM 8/1/2012			
		4/21/2016			
Name(s) of On-Site Representative(s)/Title(s)/Phone and Fax Number(s) Paula Anania, Chief Plant Operator Tim Babkirk, Assist. Chief Plant Operator Phone: (603)42	7 4552	Other Facility Data (e.g., SIC NAICS, and other descriptive information)			
Tim Babkirk, Assist. Chief Plant Operator Phone: (603)42	/-1553				
Fax:					
Name, Address of Responsible Official/Title/Phone and Fax Number					
Pring Cooks, Don Dir of Bublic Morks					
690 Deverty Hill Dood					
Portsmouth, NH 03801	Contacted				
·	Yes VNo				
Section C: Areas Evaluated During Inspec		se areas evaluated)			
Permit Self Monitoring Program	Pretreatment		1S4		
	=	_	154		
Records/Reports Compliance Schedules	Pollution Preven	tion			
Facility Site Review Laboratory	Storm Water				
✓ Effluent/Receiving Waters Operations/Maintenance	Combined Sewer	r Overflow			
Flow Measurement Sludge Handling/Disposal	Sanitary Sewer (Overflow			
Section D: Summary o	f Findings/Comments			——	
(Attach additional sheets of narrative and checklists,			ssary)		
SEV Codes SEV Description					
Cianature of Increator	Agency/Office/Phon	e and Fax Numbers			
Signature of Inspector			نيا ۽ است		
Stephonee Green		(603) 271-3908/4128	5/2/16		
Signature of Management OA Reviewer	Agency/Office/Phon				
Tracy L. Wood, P.E. May S. Coso	NHDES/WD/WWEB	(603) 271-3908/4128	5 3 2	016	
EPA Form 3560-3 (Rev 7-05) Previous editions are obsolete.			E-1	L	

INSTRUCTIONS

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

Column 1: Transaction Code: Use N, C, or D for New, Change, or Delete. All inspections will be new unless there is an error in the data

Columns 3-11: NPDES Permit No. Enter the facility's NPDES permit number - third character in permit number indicates permit type for U=unpermitted, G=general permit, etc.. (Use the Remarks columns to record the State permit number, if necessary.)

Columns 12-17: Inspection Date. Insert the date entry was made into the facility. Use the year/month/day formal (e.g., 04/10/01 = October

Column 18: Inspection Type. Use one of the codes listed below to describe the type of inspection:

CU	idilita 19, mopositor type t ode on		t i	IU Inspection with Prefreatment Audit	1	Pretreatment Compliance (Oversight)
A	Performance Audit		Ä.	Traics Inspection	(a)	Follow-up (enforcement)
В	Compliance Biomonitoring Compliance Evaluation (non-sampling)		7	Queina Ringalitis	600	
K			T.	Commed Sever Overlow-Samoing	ŀ	Storm Water-Construction-Sampling
- F	Diagnostic Pretreatment (Follow-up)		\$	Combined Sewer Overlow-Non-Sampling	1	Sterm Water-Construction-Non-Sampling
G	Prefrealment (Audil)	63	±.	Sanitary Sewer Overflow Sampling Sanitary Sewer Overflow Non-Sampling	á	Storm Water-Non-Construction-Sampling
ŧ,	Industrial User (IU) Inspection		ČK.	CAFO-Sampling	-	
ل انا	Complaints Multimedia		.ex	CAPO-Non-Sampling		Storm Water-Non-Construction- Non-Sampling
Ŋ	Spill .	2.5	2	IU Sampling Inspection	<	Storm Water-MS4-Sampling
Ö.	Compliance Evaluation (Oversight)	-	3	IU Non-Sampling Inspection	. —	Storm Water-MS4-Non-Sampling
P	Pretreatment Compliance Inspection		2	IU Toxics Inspection IU Sampling Inspection with Pretreatment	->	Slorm Water-MS4-Audit
Ŗ	Reconnaissance Compliance Sampling		e a	IV Non-Sampling Inspection with Pretreatment		
5	Compliance sampling		7	IU Toxics with Pretreatment		

Column 19: Inspector Code. Use one of the codes listed below to describe the lead agency in the inspection.

```
    Other Inspectors, Federal/EPA (Specify in Remarks columns)
    Other Inspectors, State (Specify in Hemarks columns)
    EPA Regional Inspector
    Jale Inspector
    Joint State/EPA Inspectors—State lead

(Contractor)
                                                                                                      -EPA Lead
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Column 20: Facility Type. Use one of the codes below to describe the facility.

- Municipal. Publicly Owned Treatment Works (POTWs) with 1967 Standard Industrial Code (SIC) 4952.
- Industrial. Other than municipal, agricultural, and Federal facilities. 2 -
- Agricultural. Facilities classified with 1987 SIC 0111 to 0971. 3 -
- Federal. Facilities identified as Federal by the EPA Regional Office. Oil & Gas. Facilities classified with 1987 3IG 1311 to 1389.

Columns 21-66: Remarks. These columns are reserved for remarks at the discretion of the Region.

Columns 67-69: Inspection Work Days. Estimate the total work effort (to the nearest 0.1 work day), up to 99.9 days, that were used to complete the inspection and submit a OA reviewed report of findings. This estimate includes the accumulative effort of all participating inspectors; any effort for laboratory analyses, lesting, and remote sensing; and the billed payroll time for travel and pre and post inspection preparation. This estimate does not require detailed the complete travel and presented to the complete the complete the complete travel and presented to the complete travel and presented tra documentation.

Column 70: Facility Evaluation Rating. Use information gathered during the inspection (regardless of inspection type) to evaluate the quality of the facility self-monitoring program. Grade the program using a scale of 1 to 5 with a score of 5 being used for very reliable self-monitoring programs, 3 being satisfactory, and 1 being used for very unreliable programs.

Column 71: Biomonitoring Information. Enter D for static testing. Enter F for flow through testing. Enter N for no biomonitoring.

Column 72: Quality Assurance Data Inspection. Enter Q if the inspection was conducted as followup on quality assurance sample results. Enter N otherwise.

Columns 73-80: These columns are reserved for regionally defined information.

Section B: Facility Data

This section is self-explanatory except for "Other Facility Data," which may include new information not in the permit or PCS (e.g., new outfalls, names of receiving waters, new ownership, other updates to the record, SIC/NAICS Godes, Latitude/Longitude).

Section C: Areas Evaluated During Inspection

Check only those areas evaluated by marking the appropriate box. Use Section D and additional sheets as necessary. Support the findings, as necessary, in a brief narrative report. Use the headings given on the report form (e.g., Permit, Records/Reports) when discussing the areas evaluated during the inspection. The heading marked "Multimedia" may indicate medias such as GAA, RGRA, and TSCA.

Section 0: Summary of Findings/Comments

Briefly summarize the inspection findings. This summary should abstract the pertinent inspection findings, not replace the narrative report. Reference a list of attachments, such as completed checklists taken from the NPDES Compliance Inspection Manuals and pretreatment guidance documents, including effluent data when sampling has been done. Use extra sheets as necessary.

*Footnote: In addition to the inspection types listed above under column 18, a state may continue to use the following wet weather and CAFO inspection types until the state is brought into ICIS-NPDES: K: CAFO, V: CSO, W: Storm Water 9: MS4. States may also use the new wet weather, CAFO and MS4 inspections types shown to column 18 of this form. The EPA regions are required to use the new wet weather, CAFO, and MS4 inspection types for inspections with an inspection date (DTIN) on or after July 1, 2005.

Sample Data Summary - To be completed with every inspection Attachment A

Facility Name: Peirce Island WWTF

Sample Date: 4/21/16

Inspector: Stephanie Larson

Sampler: (in Bableirle

Sample Type: Grab

Sample Time: 12:24 5m Sample Location: final discharge after dechlorination

Is this the normal sample location for the plant effluent sampling? YES

Were split samples collected? YES NO

Comments:

Date/Time: 4.2/-/6 12:25

Laboratory Analyses - attach NH Public Health Lab report to this attachment

Comments					
Results	Ba mall	~ 10 mg [L	< 3 cts/100 mL	14.6 MAN/100 ML	
Permit Limit	No limit-report result only	No limit-report result only	No limit-report result only	No limit-report result only	
Analytical Method	Standard Methods 5210 B	Standard Methods 2540 D	Standard Methods 9222D	IDEXX Enterolert	
Analysis	ВОД	TSS	fecal coliform	enterococci	



Monday, May 02, 2016

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

RE:

Workorder:

B602055 - NPDES, MUNICIPAL

Project ID:

05-0021520 - NPDES MUNICIPAL

Dear STERGIOS SPANOS:

Enclosed are the analytical results for the sample(s) received by the laboratory on Thursday, Apr 21, 2016. Unless indicated as exceptions, the sample(s) met EPA requirements for hold times, preservation techniques, container types and other receipt conditions. Please contact us if you need measurement uncertainty values associated with radiological parameters. 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://www2.des.nh.gov/CertifiedLabs/Certified-Method.aspx 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.

Since

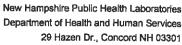
Lucio S. Barinelli, Ph.D.

Authorized Signature

Enclosures

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Phone: (603) 271-3445 Fax: (603) 271-2997



DATA QUALIFIER DESCRIPTIONS

Workorder: B602055 - NPDES,MUNICIPAL
Project ID: 05-0021520 - NPDES MUNICIPAL

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.

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.

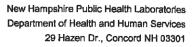
E = Estimated value; result exceeded the upper calibration level for the parameter.

Radiological results are expressed as a number + an uncertainty factor. Uncertainty is a calculated measure of the precision around the reported value.

All results for pH and residual chlorine samples analyzed more than 15 minutes after time of collection shall be considered QUALIFIED.

For assistance in interpreting your lab results and obtaining information regarding water treatment; go to www.des.nh.gov and search "Be Well Informed." Or go to http://xml2.des.state.nh.us/DWITool/.





Phone: (603) 271-3445 Fax: (603) 271-2997



SAMPLE SUMMARY

Workorder: B602055 - NPDES,MUNICIPAL
Project ID: 05-0021520 - NPDES MUNICIPAL

Lab ID	Sample ID	Ref ID	Matrix	Date Collected	Date Received Misc Info
B602055001	AFTER DECHLOR	WWTF PORTSMOUTH	WATER	4/21/2016 12:24	4/21/2016





New Hampshire Public Health Laboratories Department of Health and Human Services 29 Hazen Dr., Concord NH 03301

> Phone: (603) 271-3445 Fax: (603) 271-2997

ANALYTICAL REPORT COMMENTS AND QUALIFIERS

Workorder: B602055 - NPDES,MUNICIPAL
Project ID: 05-0021520 - NPDES MUNICIPAL

Sample Comments

Chlorine Residual (mg/L): 0

Parameter Footnotes

[1] Result is the average of the x50 x30 x25 and x12 dilutions. MS and MSD recoveries are 101and 126% on the x50 dilution.

[2] Method Blank = 1 mg/L

Date: 05/02/2016

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New Hampshire Public Health Laboratories Department of Health and Human Services 29 Hazen Dr., Concord NH 03301

> Phone: (603) 271-3445 Fax: (603) 271-2997

ANALYTICAL RESULTS

Workorder: B602055 - NPDES, MUNICIPAL Project ID: 05-0021520 - NPDES MUNICIPAL

Lab ID:

B602055001

Matrix:

WATER

Sample ID:

AFTER DECHLOR

Sample Type: SAMPLE

Sample ID. AFTER DECHLOR	Sam	ріетур	e: SAMPLE					
Description: WWTF PORTSMOUTH		Collector: STEPHANIE LARSON						
Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Microbiology Preparation Method: SM 9222D Analytical Method: SM 9222D								
Fecal Coliform, CTS	<3	CTS/100mL		1	4/21/2016 15:06	4/22/2016 16:17		
Preparation Method: ASTM D6503-99 Analytical Method: ASTM D6503-99								
Enterococci	14.6	MPN/100mL		1	4/21/2016 14:55	4/22/2016 16:10		
Wet Chemistry Analytical Method: SM 5210B								
Biochemical Oxygen Demand 5	82	mg/L		1		4/22/2016 10:10		1
Analytical Method: SM 2540D								
Total Suspended Solids	ND	mg/L	10	1		4/28/2016 11:30		2

Date: 05/02/2016

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(Laboratory Policy: Samples not meeting method requirements will be analyzed at the discretion of the DPHS, PHL.) IN PUBLIC HEALTH LABORATORIES-WATER LAB LOGIN AND CUSTODY SHEET

04/20/16 12:24 Lab Login # Section No.: 22.0 OS-0021520 OF-Revision No.: 7 Date 07-2011 Page 1 of 1 NHDES Site Number_ B602055001 hlorine -Sampler Comments Contact & Phone # Stechance Larson Samples must be delivered in a cooler with ice or ice packs. ر م Received For Laboratory By Temp. °C. Matrix: A= Air S= Soil AQ= Aqueous (Ground Water, Surface Water, Drinking Water, Waste Water) x Other: ENGER SOUND 1 SODate and Time 4 21 16 14:15 Received By_ Description: Tertsmouth WWITF Town: Portsmouth LAB ACCOUNT (Billing) <u>OS - COスにうみの</u> One Stop Project: Data Reviewed By SS1. Date and Time_ AQ AQ AQ **XinteM** to # entainers 3 9 12 7 Sampled Time Date Relinquished By Standa Quee | Sample Location/Station ID ŏ after dechlor Collected by: Relinquished By