

BROOKHAVEN
NATIONAL LABORATORY

Managed by Brookhaven Science Associates
for the U.S. Department of Energy

February 22, 2008

New York State Department of
Environmental Conservation
Division of Water
Bureau of Wastewater Facilities Operation
625 Broadway, 4th Floor
Albany, NY 12233-3506

Gentlemen:

**SUBJECT: State Pollutant Discharge Elimination System (SPDES) NY-0005835
Brookhaven National Laboratory (BNL) Discharge Monitoring Report (DMR)
for January 2008**

In accordance with our SPDES permit (NY-0005835), enclosed as Attachment I, please find the DMR for the month of January 2008. General Engineering Laboratories, LLC (ELAP Certification #11501) performs most of the analyses on SPDES samples, while H2M Labs, Inc. (NELAP Certification #10478) performs the BOD-5, Nitrogen series, and fecal coliform analyses and CHEMTEX Environmental Laboratory, Inc. (NELAP Certification #02077) performs specialty analyses for tolyltriazole, hydroxyethylidene diphosphonic acid, and polypropylene glycol monobutyl ether. These laboratories are certified by the New York State Department of Health. Field measured parameters (pH, settleable solids, flow) are recorded and/or measured by BNL. Copies of the analytical reports will be retained in our files and will be made available upon request.

With the exception of one noncompliance event for total nitrogen at Outfall 001, review of the analytical data shows that all other parameters met their respective SPDES effluent limitations this reporting period. A sample collected on January 7, 2008 exhibited a total nitrogen concentration of 11.0 mg/L, which exceeded the permit limit of 10 mg/L. Please see Attachment II for the noncompliance report, which provides more detail on the issue.

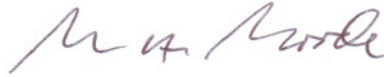
Collection and analysis of these samples are performed in accordance with the BNL Quality Assurance (QA) Program that specifies the standard operating procedures for collection and analysis of samples, QA data requirements, validation of contractor analytical data, and QA inspections performed periodically on contractor laboratories. All QA data, data validation reports, contractor laboratory assessment, and audit reports are available upon request. Based on this information, we believe the values reported on the DMR are representative of the effluent from BNL during the month of January 2008.



Registered to
ISO 14001

If you should have any questions, please contact Jason Remien or Robert Lee of my staff at (631) 344-3477 and (631) 344-3148 respectively.

Sincerely,



George A. Goode
Environmental & Waste Management Services
Division Manager

- Attachment I: Discharge Monitoring Report for January 2008.
- Attachment II: Noncompliance Report for Total Nitrogen Excursion at Outfall 001
- Attachment III: Analytical Results from H2M Labs Inc. and General Engineering Laboratories, LLC for samples collected on 1/4/08 and 1/7/08 from Outfall 001 (BNL Use Only).
- Attachment IV: Analytical Results from General Engineering Laboratories for samples collected from Outfalls 002, 002B, 005, 006A, 006B, 008, and 010 (BNL Use Only).

GAG/JR:djp

cc: M. Bebon, w/o Attachments
G. Goode, w/o Attachments
M. Holland, w/o Attachments
C. Kao, w/all Attachments
E. Lessard, w/ all Attachments
E. Murphy, w/ all Attachments
J. Remien, w/ all Attachments
R. Sorrentino, NYSDEC, w/ Attachment I

W. Chaloupka, w/ all Attachments
G. Granzen, w/ all Attachments
C. Johnson, w/o Attachments
R. Lee, w/ all Attachments
D. Lowenstein, w/o Attachments
V. Radeka, w/ all Attachments
E. Governale, SCDHS, w/ Attachment I
R. Backofen, w/o Attachments
R. Izzo, w/ all Attachments

File: EC62ER.08

Brookhaven National Laboratory
SPDES Permit No. NY0005835
Discharge Monitoring Report for January 2008
Discharge Monitoring Report Notes:

1. The reported concentration is estimated at less than the method detection limit but greater than the instrument detection limit.
2. Flow is estimated based upon an instantaneous flow measurement and the assumption that flow continued for the entire day (i.e., 1,440 minutes).
3. Since flow records are maintained on a weekly or monthly basis, the flow rate provided is the daily average.
4. The total nitrogen concentration did not meet the permit limits for the sample collected on January 7, 2008. Please see Attachment II for the Non-Compliance Report.

ATTACHMENT I

BROOKHAVEN NATIONAL LABORATORY

SPDES PERMIT NO. NY0005835

DISCHARGE MONITORING REPORT FOR JANUARY 2008

FOR OUTFALLS NO. 001 – 010

**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)**

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME BROOKHAVEN NATIONAL LABORATORY
 ADDRESS 53 BELL AVENUE, BLDG 464
 UPTON, NY 11973
 FACILITY BROOKHAVEN NATIONAL LABORATORY
 LOCATION 53 BELL AVENUE, BLDG 464
 UPTON, NY 11973
 ATTN: MICHAEL HOLLAND, OFFICE MGR

Page 1

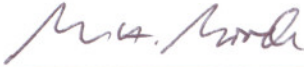
NY0005835	002B
PERMIT NUMBER	DISCHARGE NUMBER

DMR MAILING ZIP CODE: 11973
 MAJOR (SUBR 01)
 RF(1004) & BRAHMS(1002) BLOWDN
 External Outfall

MONITORING PERIOD					
FROM			TO		
YEAR	MO	DAY	YEAR	MO	DAY
08	01	01	08	01	31

No Discharge

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
pH 00400 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****		6.5	*****	6.5		0	01/30	GR
	PERMIT REQUIREMENT	*****	*****		Req. Mon. MINIMUM	*****	9 MAXIMUM	SU		Once Per Month	GRAB
Oil & grease 00556 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****		*****	*****	<1.4		0	01/30	GR
	PERMIT REQUIREMENT	*****	*****		*****	*****	15 DAILY MX	mg/L		Once Per Month	GRAB
Flow, in conduit or thru treatment plant SEE NOTE #3 50050 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	0.08		*****	*****	*****		0	04/30	RC
	PERMIT REQUIREMENT	*****	Req. Mon. DAILY MX	Mgal/d	*****	*****	*****			Once Per Month	RCORDR

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER George A. Goode Division Manager Environmental & Waste Management Services Division Typed or Printed	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE		
			2008	02	25
			YEAR	MO	DAY
			TELEPHONE		
			631-344-4549		

Comments and Explanation of any violations (Reference all attachments here)
 DISCHARGE MAY BE DIRECTED TO SURROUNDING LOW LYING AREA INSIDE THE ROADWAY THAT IS INSIDE RHIC RING. ONCE STORMWATER COLLECTION SYSTEM IS EXTENDED TO BLDG 1010 AND A NEW RECHARGE BASIN IS CONSTRUCTED, DISCHARGE SHOULD BE TO NEW BASIN.

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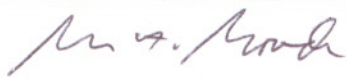
NY0005835	001M
PERMIT NUMBER	DISCHARGE NUMBER

DMR MAILING ZIP CODE: 11973
 MAJOR (SUBR 01)
 PROCESS SANIT & STORMWTR RNOFF
 External Outfall

MONITORING PERIOD					
FROM			TO		
YEAR	MO	DAY	YEAR	MO	DAY
08	01	01	08	01	31

No Discharge

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
00011 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****		*****	*****	50		0	01/01	GR
	PERMIT REQUIREMENT	*****	*****		*****	*****	90 DAILY MX	deg F		Daily	GRAB
00310 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****		*****	< 2	< 2		0	02/30	24
	PERMIT REQUIREMENT	*****	*****		*****	10 DAILY AV	20 DAILY MX	mg/L		Once Per Month	COMP24
00400 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****		6.3	*****	6.8		0	01/01	GR
	PERMIT REQUIREMENT	*****	*****		5.8 MINIMUM	*****	9.0 MAXIMUM	SU		Daily	GRAB
00530 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****		*****	<0.6	<0.6		0	02/30	24
	PERMIT REQUIREMENT	*****	*****		*****	10 DAILY AV	20 DAILY MX	mg/L		Once Per Month	COMP24
00545 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****		*****	*****	0.0		0	01/01	GR
	PERMIT REQUIREMENT	*****	*****		*****	*****	0.1 DAILY MX	mL/L		Daily	GRAB
00600 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****		*****	*****	11		1	02/30	24
	PERMIT REQUIREMENT	*****	*****		*****	*****	10 DAILY MX	mg/L		Once Per Month	COMP24
00610 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****		*****	*****	0.7		0	02/30	24
	PERMIT REQUIREMENT	*****	*****		*****	*****	2 DAILY MX	mg/L		Once Per Month	COMP24

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		 2018 02 25		
		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		

Comments and Explanation of any violations (Reference all attachments here)

QUANTITIES OR CONCENTRATIONS OF RADIOACTIVITY IN EFFLUENT ARE SUBJECT TO REQUIREMENTS OF THE USDOE INCL BUT NOT LIMITED TO USDOE ORDER 5400.5. APPROX 15% OF STP DISCHARGE CAN BE TO GW VIA EXFILT FROM SFBS. SEE PERMIT FOR ADDITIONAL NOTES, COMMENTS, AND REQUIREMENTS.

**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)**

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

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 UPTON, NY 11973
FACILITY BROOKHAVEN NATIONAL LABORATORY
LOCATION 53 BELL AVENUE, BLDG 464
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ATTN: MICHAEL HOLLAND, OFFICE MGR

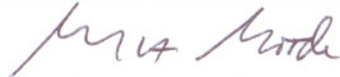
NY0005835	001M
PERMIT NUMBER	DISCHARGE NUMBER

DMR MAILING ZIP CODE: 11973
 MAJOR (SUBR 01)
 PROCESS SANIT & STORMWTR RNOFF
 External Outfall

MONITORING PERIOD					
FROM			TO		
YEAR	MO	DAY	YEAR	MO	DAY
08	01	01	08	01	31

No Discharge

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Phosphorus, total (as P)	SAMPLE MEASUREMENT	*****	*****		*****	*****	1.2		0	02/30	24
00665 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		*****	*****	Req. Mon. DAILY MX	mg/L		Once Per Month	COMP24
Cyanide, total (as CN)	SAMPLE MEASUREMENT	*****	*****		*****	*****	<1.5		0	02/30	GR
00720 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		*****	*****	100 DAILY MX	ug/L		Twice Per Month	GRAB
Copper, total (as Cu)	SAMPLE MEASUREMENT	*****	*****		*****	*****	0.12		0	02/30	24
01042 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		*****	*****	0.15 DAILY MX	mg/L		Once Per Month	COMP24
Iron, total (as Fe)	SAMPLE MEASUREMENT	*****	*****		*****	*****	0.23		0	02/30	24
01045 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		*****	*****	0.37 DAILY MX	mg/L		Once Per Month	COMP24
Lead, total (as Pb)	SEE NOTE #1 SAMPLE MEASUREMENT	*****	*****		*****	*****	0.0043		0	02/30	24
01051 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		*****	*****	0.019 DAILY MX	mg/L		Once Per Month	COMP24
Nickel, total (as Ni)	SEE NOTE #1 SAMPLE MEASUREMENT	*****	*****		*****	*****	0.0089		0	02/30	24
01067 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		*****	*****	0.11 DAILY MX	mg/L		Once Per Month	COMP24
Silver, total (as Ag)	SAMPLE MEASUREMENT	*****	*****		*****	*****	<0.001		0	02/30	24
01077 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		*****	*****	0.015 DAILY MX	mg/L		Once Per Month	COMP24

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		2008	02	15

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**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)**

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 UPTON, NY 11973
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NY0005835	001M
PERMIT NUMBER	DISCHARGE NUMBER

DMR MAILING ZIP CODE: 11973
 MAJOR
 (SUBR 01)
 PROCESS SANIT & STORMWTR RNOFF
 External Outfall

MONITORING PERIOD					
FROM			TO		
YEAR	MO	DAY	YEAR	MO	DAY
08	01	01	08	01	31

No Discharge

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Zinc, total (as Zn)	SAMPLE MEASUREMENT	*****	*****		*****	*****	0.1		0	02/30	24
01092 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		*****	*****	0.1 DAILY MX	mg/L		Once Per Month	COMP24
Toluene	SAMPLE MEASUREMENT	*****	*****		*****	*****	<1		0	02/30	GR
34010 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		*****	*****	5 DAILY MX	ug/L		Twice Per Month	GRAB
Methylene chloride	SAMPLE MEASUREMENT	*****	*****		*****	*****	<2		0	02/30	GR
34423 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		*****	*****	5 DAILY MX	ug/L		Twice Per Month	GRAB
1, 1, 1 - Trichloroethane	SAMPLE MEASUREMENT	*****	*****		*****	*****	<1		0	02/30	GR
34506 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		*****	*****	5 DAILY MX	ug/L		Twice Per Month	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	0.27	0.34		*****	*****	*****		0	99/99	RC
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. DAILY AV	2.3 DAILY MX	Mgal/d	*****	*****	*****			Continuous	RCORDR
Mercury, total (as Hg)	SAMPLE MEASUREMENT	*****	*****		*****	*****	0.00007		0	02/30	24
71900 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		*****	*****	0.0008 DAILY MX	mg/L		Once Per Month	COMP24
Coliform, fecal general	SAMPLE MEASUREMENT	*****	*****		*****	<2	<2		0	02/30	GR
74055 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		*****	200 DAILY AV	400 DAILY MX	#/100mL		Once Per Month	GRAB

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					2008 02 25 YEAR MO DAY
		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			TELEPHONE 631-344-4549

Comments and Explanation of any violations (Reference all attachments here)

QUANTITIES OR CONCENTRATIONS OF RADIOACTIVITY IN EFFLUENT ARE SUBJECT TO REQUIREMENTS OF THE USDOE INCL BUT NOT LIMITED TO USDOE ORDER 5400.5. APPROX 15% OF STP DISCHARGE CAN BE TO GW VIA EXFILT FROM SFBS. SEE PERMIT FOR ADDITIONAL NOTES, COMMENTS, AND REQUIREMENTS.

**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)**

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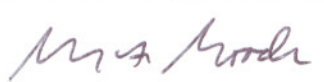
NY0005835	001M
PERMIT NUMBER	DISCHARGE NUMBER

DMR MAILING ZIP CODE: 11973
MAJOR (SUBR 01)
PROCESS SANIT & STORMWTR RNOFF
External Outfall

MONITORING PERIOD					
FROM			TO		
YEAR	MO	DAY	YEAR	MO	DAY
08	01	01	08	01	31

No Discharge

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
2 - Butanone 78356 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****		*****	*****	<5		0	02/30	GR
	PERMIT REQUIREMENT	*****	*****		*****	*****	50 DAILY MX	ug/L		Twice Per Month	GRAB
BOD, 5-day, percent removal 81010 K 0 Percent Removal	SAMPLE MEASUREMENT	*****	*****		>96	*****	*****		0	01/30	CA
	PERMIT REQUIREMENT	*****	*****		85 MO AV MN	*****	*****	%		Once Per Month	CALCTD
Solids, suspended percent removal 81011 K 0 Percent Removal	SAMPLE MEASUREMENT	*****	*****		>99	*****	*****		0	01/30	CA
	PERMIT REQUIREMENT	*****	*****		85 MO AV MN	*****	*****	%		Once Per Month	CALCTD

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			YEAR	MO	DAY
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			TELEPHONE		
			631-344-4549		

Comments and Explanation of any violations (Reference all attachments here)

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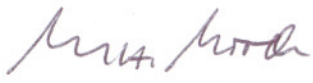
NY0005835	002M
PERMIT NUMBER	DISCHARGE NUMBER

DMR MAILING ZIP CODE: 11973
 MAJOR (SUBR 01)
 AGS NON-C COOLING, PRCP, ETC (HN)
 External Outfall

MONITORING PERIOD					
FROM			TO		
YEAR	MO	DAY	YEAR	MO	DAY
08	01	01	08	01	31

No Discharge

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
pH 00400 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****		7.2	*****	8.2		0	04/30	GR
	PERMIT REQUIREMENT	*****	*****		Req. Mon. MINIMUM	*****	9 MAXIMUM	SU		Once Per Month	GRAB
Oil & grease 00556 1 0 Effluent Gross	SEE NOTE #1										
	SAMPLE MEASUREMENT	*****	*****		*****	*****	3.3		0	01/30	GR
Flow, in conduit or thru treatment plant 50050 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		*****	*****	15 DAILY MX	mg/L		Once Per Month	GRAB
	SAMPLE MEASUREMENT	1.5	*****		*****	*****	*****		0	04/30	RC
	PERMIT REQUIREMENT	Req. Mon. DAILY AV	*****	Mgal/d	*****	*****	*****			Once Per Month	RCORDR

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			2008	02	25
			YEAR	MO	DAY
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			TELEPHONE		
			631-344-4549		

Comments and Explanation of any violations (Reference all attachments here)

SEE PERMIT FOR ADDITIONAL NOTES, COMMENTS AND REQUIREMENTS. SAMPLING FOR THIS OUTFALL SHALL BE CONDUCTED AT A LOCTION DOWNSTREAM OF WHERE EXISTING DISCHARGE MIXES WITH THE COOLING TOWER BLOWDOWN FROM THE STAR DETECTOR.

**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)**

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ATTN: MICHAEL HOLLAND, OFFICE MGR

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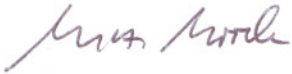
NY0005835	005M
PERMIT NUMBER	DISCHARGE NUMBER

DMR MAILING ZIP CODE: 11973
MAJOR (SUBR 01)
NSLS COOLING TOWR BLDN ETC (HS)
External Outfall

MONITORING PERIOD					
FROM			TO		
YEAR	MO	DAY	YEAR	MO	DAY
08	01	01	08	01	31

No Discharge

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
pH 00400 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****		7.5	*****	8.2		0	04/30	GR
	PERMIT REQUIREMENT	*****	*****		Req. Mon. MINIMUM	*****	8.5 MAXIMUM	SU		Once Per Month	GRAB
Oil & grease 00556 1 0 Effluent Gross	SEE NOTE #1 SAMPLE MEASUREMENT	*****	*****		*****	*****	1.8		0	01/30	GR
	PERMIT REQUIREMENT	*****	*****		*****	*****	15 DAILY MX	mg/L		Once Per Month	GRAB
Flow, in conduit or thru treatment plant 50050 1 0 Effluent Gross	SAMPLE MEASUREMENT	0.22	*****		*****	*****	*****		0	04/30	RC
	PERMIT REQUIREMENT	Req. Mon. MO AV	*****	Mgal/d	*****	*****	*****			Once Per Month	RCORDR

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER George A. Goode Division Manager Environmental & Waste Management Services Division Typed or Printed	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.		DATE		
			2008	02	25
			YEAR	MO	DAY
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			TELEPHONE		
			631-344-4549		

Comments and Explanation of any violations (Reference all attachments here)
SEE PERMIT FOR ADDITIONAL NOTES, COMMENTS, AND REQUIREMENTS.

**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)**

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME BROOKHAVEN NATIONAL LABORATORY
 ADDRESS 53 BELL AVENUE, BLDG 464
 UPTON, NY 11973
 FACILITY BROOKHAVEN NATIONAL LABORATORY
 LOCATION 53 BELL AVENUE, BLDG 464
 UPTON, NY 11973
 ATTN: MICHAEL HOLLAND, OFFICE MGR

Page 8

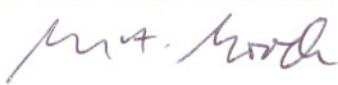
NY0005835	007M
PERMIT NUMBER	DISCHARGE NUMBER

DMR MAILING ZIP CODE: 11973
 MAJOR (SUBR 01)
 WATER TREATMENT PLT BKWSH (HX)
 External Outfall

MONITORING PERIOD					
FROM			TO		
YEAR	MO	DAY	YEAR	MO	DAY
08	01	01	08	01	31

No Discharge

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Flow rate	SAMPLE MEASUREMENT	*****	280000	*****	*****	*****	*****		0	20/30	IN
00056 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	Req. Mon. DAILY MX	gal/d	*****	*****	*****			Once Per Month	INSTAN
pH	SAMPLE MEASUREMENT	*****	*****	*****	7.6	*****	7.6		0	01/30	GR
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	Req. Mon. MINIMUM	*****	9 MAXIMUM	SU		Once Per Month	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER George A. Goode Division Manager Environmental & Waste Management Services Division Typed or Printed	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.		DATE		
			2008	02	25
		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE 631-344-4549		

Comments and Explanation of any violations (Reference all attachments here)

SAMPLES TO BE COLLECTED AT EFFLUENT PIPE TO WHICHEVER BASIN IS IN OPERATION AT THE TIME. STANDING WATER IN EITHER BASIN SHALL NOT BE COLLECTED FOR DMR SAMPLING PURPOSES. SEE PERMIT FOR ADDITIONAL NOTES, COMMENTS, AND REQUIREMENTS.

**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)**

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME BROOKHAVEN NATIONAL LABORATORY
ADDRESS 53 BELL AVENUE, BLDG 464
UPTON, NY 11973
FACILITY BROOKHAVEN NATIONAL LABORATORY
LOCATION 53 BELL AVENUE, BLDG 464
UPTON, NY 11973
ATTN: MICHAEL HOLLAND, OFFICE MGR

Page 9

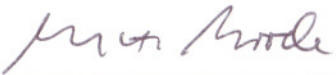
NY0005835	008M
PERMIT NUMBER	DISCHARGE NUMBER

DMR MAILING ZIP CODE: 11973
MAJOR
(SUBR 01)
STORMWTR RUNOFF WAREHOUSE (HW)
External Outfall

MONITORING PERIOD					
FROM			TO		
YEAR	MO	DAY	YEAR	MO	DAY
08	01	01	08	01	31

No Discharge

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE	
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS				
Flow rate	SEE NOTE #2	SAMPLE MEASUREMENT	*****	65800		*****	*****	*****		0	01/30	IN
00056 1 0 Effluent Gross		PERMIT REQUIREMENT	*****	Req. Mon. DAILY MX	gal/d	*****	*****	*****			Once Per Month	INSTAN
pH		SAMPLE MEASUREMENT	*****	*****		6.9	*****	6.9		0	01/30	GR
00400 1 0 Effluent Gross		PERMIT REQUIREMENT	*****	*****		Req. Mon. MINIMUM	*****	8.5 MAXIMUM	SU		Once Per Month	GRAB
Oil & grease	SEE NOTE #1	SAMPLE MEASUREMENT	*****	*****		*****	*****	5		0	01/30	GR
00556 1 0 Effluent Gross		PERMIT REQUIREMENT	*****	*****		*****	*****	15 DAILY MX	mg/L		Once Per Month	GRAB
1, 1 - Dichloroethylene		SAMPLE MEASUREMENT	*****	*****		*****	*****	<1		0	01/30	GR
34501 1 0 Effluent Gross		PERMIT REQUIREMENT	*****	*****		*****	*****	5 DAILY MX	ug/L		Once Per Month	GRAB
1, 1, 1 - Trichloroethane		SAMPLE MEASUREMENT	*****	*****		*****	*****	<1		0	01/30	GR
34506 1 0 Effluent Gross		PERMIT REQUIREMENT	*****	*****		*****	*****	5 DAILY MX	ug/L		Once Per Month	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER George A. Goode Division Manager Environmental & Waste Management Services Division Typed or Printed	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.		DATE		
			2008	02	25
			YEAR	MO	DAY
			SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		
			631-344-4549		

Comments and Explanation of any violations (Reference all attachments here)
PARAMETERS EXCEPT FOR FLOW TO BE SAMPLED MONTHLY DURING A STORM EVENT. (IF NO DISCHARGE, ENTER AN "X" IN THE "NO DISCHARGE" BOX AT THE UPPER RIGHT.)
SEE PERMIT FOR ADDITIONAL NOTES, COMMENTS, AND REQUIREMENTS

**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)**

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME BROOKHAVEN NATIONAL LABORATORY
ADDRESS 53 BELL AVENUE, BLDG 464
UPTON, NY 11973
FACILITY BROOKHAVEN NATIONAL LABORATORY
LOCATION 53 BELL AVENUE, BLDG 464
UPTON, NY 11973
ATTN: MICHAEL HOLLAND, OFFICE MGR

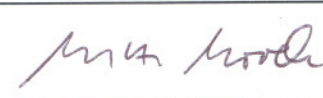
NY0005835	010M
PERMIT NUMBER	DISCHARGE NUMBER

DMR MAILING ZIP CODE: 11973
MAJOR (SUBR 01)
STORMWTR R O CENTRAL STEAM (H)
External Outfall

MONITORING PERIOD					
FROM			TO		
YEAR	MO	DAY	YEAR	MO	DAY
08	01	01	08	01	31

No Discharge

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE	
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS				
Flow rate	SEE NOTE #2	SAMPLE MEASUREMENT	*****	150400		*****	*****	*****		0	01/30	IN
00056 1 0 Effluent Gross		PERMIT REQUIREMENT	*****	Req. Mon. DAILY MX	gal/d	*****	*****	*****			Once Per Month	INSTAN
pH		SAMPLE MEASUREMENT	*****	*****		7.0	*****	7.0		0	01/30	GR
00400 1 0 Effluent Gross		PERMIT REQUIREMENT	*****	*****		Req. Mon. MINIMUM	*****	8.5 MAXIMUM	SU		Once Per Month	GRAB
Oil & grease	SEE NOTE #1	SAMPLE MEASUREMENT	*****	*****		*****	*****	1.9		0	01/30	GR
00556 1 0 Effluent Gross		PERMIT REQUIREMENT	*****	*****		*****	*****	15 DAILY MX	mg/L		Once Per Month	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER George A. Goode Division Manager Environmental & Waste Management Services Division Typed or Printed	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.		DATE		
			2008	02	25
		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE 631-344-4549		

Comments and Explanation of any violations (Reference all attachments here)
PARAMETERS EXCEPT FOR FLOW TO BE SAMPLED MONTHLY DURING A STORM EVENT. (IF NO DISCHARGE, ENTER AN "X" IN THE "NO DISCHARGE" BOX AT THE UPPER RIGHT.)
SEE PERMIT FOR ADDITIONAL NOTES, COMMENTS, AND REQUIREMENTS.

**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)**

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME BROOKHAVEN NATIONAL LABORATORY
 ADDRESS 53 BELL AVENUE, BLDG 464
 UPTON, NY 11973
 FACILITY BROOKHAVEN NATIONAL LABORATORY
 LOCATION 53 BELL AVENUE, BLDG 464
 UPTON, NY 11973
 ATTN: MICHAEL HOLLAND, OFFICE MGR

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NY0005835	06AM
PERMIT NUMBER	DISCHARGE NUMBER

DMR MAILING ZIP CODE: 11973

MAJOR

(SUBR 01)

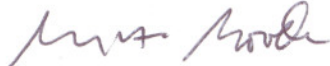
LINAC NCCW, FLOOR DNS,ETC (HT1)

External Outfall

MONITORING PERIOD					
FROM			TO		
YEAR	MO	DAY	YEAR	MO	DAY
08	01	01	08	01	31

No Discharge

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
pH	SAMPLE MEASUREMENT	*****	*****		7.3	*****	8.0		0	04/30	GR
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		Req. Mon. MINIMUM	*****	9 MAXIMUM	SU		Once Per Month	GRAB
Oil & grease	SEE NOTE #1 SAMPLE MEASUREMENT	*****	*****		*****	*****	2.5		0	01/30	GR
00556 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		*****	*****	15 DAILY MX	mg/L		Once Per Month	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	0.23	*****		*****	*****	*****		0	04/30	RC
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. DAILY AV	*****	Mgal/d	*****	*****	*****			Once Per Month	RCORDR

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER George A. Goode Division Manager Environmental & Waste Management Services Division Typed or Printed	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	DATE		
				
		YEAR 2008	MO 02	DAY 25
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE 631-344-4549		

Comments and Explanation of any violations (Reference all attachments here)

SEE PERMIT FOR ADDITIONAL NOTES, COMMENTS, AND REQUIREMENTS.

**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)**

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME BROOKHAVEN NATIONAL LABORATORY
 ADDRESS 53 BELL AVENUE, BLDG 464
 UPTON, NY 11973
 FACILITY BROOKHAVEN NATIONAL LABORATORY
 LOCATION 53 BELL AVENUE, BLDG 464
 UPTON, NY 11973
 ATTN: MICHAEL HOLLAND, OFFICE MGR

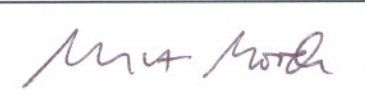
NY0005835	06BM
PERMIT NUMBER	DISCHARGE NUMBER

DMR MAILING ZIP CODE: 11973
 MAJOR (SUBR 01)
 COOLING TOWER FROM 919 ETC (HT2)
 External Outfall

MONITORING PERIOD					
FROM			TO		
YEAR	MO	DAY	YEAR	MO	DAY
08	01	01	08	01	31

No Discharge

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
pH 00400 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****		7.3	*****	8.3		0	04/30	GR
	PERMIT REQUIREMENT	*****	*****		Req. Mon. MINIMUM	*****	9 MAXIMUM	SU		Once Per Month	GRAB
Oil & grease 00556 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****		*****	*****	4		0	01/30	GR
	PERMIT REQUIREMENT	*****	*****		*****	*****	15 DAILY MX	mg/L		Once Per Month	GRAB
Flow, in conduit or thru treatment plant 50050 1 0 Effluent Gross	SAMPLE MEASUREMENT	0.34	*****		*****	*****	*****		0	04/30	RC
	PERMIT REQUIREMENT	Req. Mon. DAILY AV	*****	Mgal/d	*****	*****	*****			Once Per Month	RCORDR

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER George A. Goode Division Manager Environmental & Waste Management Services Division Typed or Printed	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE		
			2008	02	25
			YEAR	MO	DAY
			TELEPHONE 631-344-4549		

Comments and Explanation of any violations (Reference all attachments here)
 SEE PERMIT FOR ADDITIONAL NOTES, COMMENTS, AND REQUIREMENTS.

ATTACHMENT II

BROOKHAVEN NATIONAL LABORATORY

SPDES PERMIT NO. NY0005835

DISCHARGE MONITORING REPORT FOR JANUARY 2008

NONCOMPLIANCE REPORT

SECTION 1



New York State Department of Environmental Conservation
Division of Water



Report of Noncompliance Event

To: DEC Water Contact: R. Sorrentino DEC Region: 1

Report Type: 5-Day Permit Violation Order Violation Anticipated Noncompliance Bypass/Overflow

SECTION 2

SPDES #: NY- 0005835 Facility: U.S. Department of Energy/Brookhaven National Laboratory

Date of noncompliance: 1/7/08 Location (Outfall, Treatment Unit, or Pump Station): 001

Description of noncompliance(s) and cause(s): A 24-hour composite sample was collected on January 7, 2008 from Outfall 001 that had a total nitrogen concentration of 11.0 mg/L, which exceeds BNL's permit limit of 10 mg/L. Brookhaven National Laboratory (BNL) is actively investigating the potential sources of the elevated nitrogen levels. Lower than normal flow conditions, decreased BOD5 levels, and increased steam condensate releases from BNL's Central Steam Facility during cold weather are all potential contributing causes to the increased levels of nitrogen in the discharge.

Has event ceased? (Yes) (No) If so, when? 1/7/08 Was event due to plant upset? (Yes) (No) SPDES limits violated? (Yes) (No)

Start date, time of event: _____ (AM) (PM) End date, time of event: _____ (AM) (PM)
Date Time Date Time

Date, time oral notification made to DEC? _____ (AM) (PM) DEC Official contacted: _____
Date Time

Immediate corrective actions: None. Due to the lag time between sample collection, analysis, and receipt of results no immediate actions were possible. However, nitrate levels in the plant are measured frequently along with several other parameters that may contribute to the increased levels of nitrogen in the discharge (e.g., oxygen levels, flow, and temperature) so that adjustments can be made to the process to avoid further exceedances. In-house process control sampling and analysis of effluent indicates that nitrate levels have decreased and that this is not a continuous event.

Preventative (long term) corrective actions: BNL has begun an investigation into the potential sources of the elevated nitrogen concentrations observed in November 2007 and, most recently, January 2008 and will implement any corrective actions that are identified. This includes the collection of additional samples to help determine fluctuations in nitrate levels at various locations throughout the plant.

SECTION 3

Complete this section if event was a bypass:

Bypass amount: _____ Was prior DEC authorization received for this event? (Yes) (No)

DEC Official contacted: _____ Date of DEC approval: _____
Date

Describe event in "Description of noncompliance and cause" area in Section 2. Detail the start and end dates and times in Section 2 also.

SECTION 4

Facility Representative: George A. Goode Title: Division Manager 2/22/08
Date

Phone #: (631) 344-4549 Fax #: (631) 344-7334

I Certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.

Signature of Principal Executive Officer or Authorized Agent

ATTACHMENT III

BROOKHAVEN NATIONAL LABORATORY

SPDES PERMIT NO. NY0005835

DISCHARGE MONITORING REPORT FOR JANUARY 2008

ANALYTICAL RESULTS FROM H2M LABS

AND GENERAL ENGINEERING LABORATORIES, LLC

FOR REGULATORY COMPLIANCE SAMPLES COLLECTED

1/4/08 and 1/7/08

FROM OUTFALL 001

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631)694-3040 . FAX: (631)420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

Brookhaven National Lab.-BNLS
70 Bell Ave.
Upton, NY 11973
Attn To : Bob Lee

Lab No. : 0801135-001

Sample Information...
Type : Aqueous

Origin:

Client ID. : 25247-001

Collected : 1/4/2008 10:30:00 AM
Received : 1/4/2008 3:20:00 PM
Collected By CLIENT
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Biochemical Oxygen Demand	< 2		1	mg/L	E405.1	01/04/2008 4:00 PM
Nitrogen, Total	7.7		1	mg/L	M4500-N C	01/15/2008
Nitrogen, Ammonia (As N)	0.50		1	mg/L	E350.1	01/09/2008 3:03 PM
Nitrite as N	< 0.01		1	mg/L	E353.2	01/05/2008 7:26 AM
Nitrate as N	6.77		10	mg/L	E353.2	01/11/2008 10:57 AM
Nitrogen, Kjeldahl, Total	0.89		1	mg/L	E351.2	01/15/2008 12:13 PM

Outfall 001
sampled 1/4/08
24 hour composite

Qualifiers: E - Value above quantitation range
D - Results for Dilution

D.F. = Dilution Factor

Date Reported :

Joann M. Slavin

Laboratory Manager

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

Brookhaven National Lab.-BNLS
70 Bell Ave.
Upton, NY 11973
Attn To : Bob Lee

Lab No. : 0801203-001

Sample Information...
Type : Aqueous

Origin:

Client ID. : 25255-001

Collected : 1/7/2008 10:50:00 AM
Received : 1/7/2008 3:25:00 PM
Collected By CLIENT
Copies To : Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Biochemical Oxygen Demand	<2		1	mg/L	E405.1	01/09/2008 8:55 AM
Nitrogen, Total	11.0		1	mg/L	M4500-N C	01/15/2008
Nitrogen, Ammonia (As N)	0.74		1	mg/L	E350.1	01/09/2008 3:07 PM
Nitrite as N	0.01		1	mg/L	E353.2	01/08/2008 9:22 AM
Nitrate as N	9.59		10	mg/L	E353.2	01/11/2008 11:03 AM
Nitrogen, Kjeldahl, Total	1.45		1	mg/L	E351.2	01/15/2008 12:15 PM

outfall 001
sampled 1/7/08
24 hour composite

Qualifiers: E - Value above quantitation range
D - Results for Dilution

D.F. = Dilution Factor

Date Reported :

Joann M. Slavin

Laboratory Manager

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

Brookhaven National Lab.-BNLS
70 Bell Ave.
Upton, NY 11973
Attn To : Bob Lee

Lab No. : 0801135-002

Sample Information...

Type : Aqueous

Origin:

Client ID. : 25247-002

Collected : 1/4/2008 2:00:00 PM
Received : 1/4/2008 3:20:00 PM
Collected By CLIENT
Copies To : Original
CC

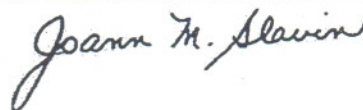
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Method Number</u>	<u>Analyzed</u>
Total Coliform	< 2		1	MPN	M9221 BC	01/04/2008 4:00 PM
Fecal Coliform	< 2		1	MPN	M9221 BC	01/04/2008 4:00 PM

Outfall 001
sampled 1/4/08

Qualifiers: E - Value above quantitation range
D - Results for Dilution

D.F. = Dilution Factor

Date Reported :



Laboratory Manager

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

Brookhaven National Lab.-BNLS
70 Bell Ave.
Upton, NY 11973
Attn To : Bob Lee

Lab No. : 0801203-002

Sample Information...
Type : Aqueous

Origin:

Client ID. : 25255-002

Collected : 1/7/2008 1:30:00 PM
Received : 1/7/2008 3:25:00 PM
Collected By CLIENT
Copies To : Original
CC

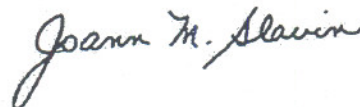
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Method Number</u>	<u>Analyzed</u>
Total Coliform	< 2		1	MPN	M9221 BC	01/07/2008 3:30 PM
Fecal Coliform	< 2		1	MPN	M9221 BC	01/07/2008 3:30 PM

Outfall 001
Sampled 1/7/08

Qualifiers: E - Value above quantitation range
D - Results for Dilution

D.F. = Dilution Factor

Date Reported :



Laboratory Manager

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

Brookhaven National Lab.-BNLS
70 Bell Ave.
Upton, NY 11973
Attn To : Bob Lee

Lab No. : 0801135-003

Sample Information...
Type : Aqueous

Origin:

Client ID. : 25247-003

Collected : 1/4/2008 11:00:00 AM
Received : 1/4/2008 3:20:00 PM
Collected By CLIENT
Copies To :Original
CC

<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Method Number</u>	<u>Analyzed</u>
Biochemical Oxygen Demand	55		1	mg/L	E405.1	01/04/2008 4:15 PM

STP Outfall
Sampled 1/4/08
24 hour composite

Qualifiers: E - Value above quantitation range
D - Results for Dilution

D.F. = Dilution Factor

Date Reported :

Joann M. Slavin

Laboratory Manager

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

Brookhaven National Lab.-BNLS
70 Bell Ave.
Upton, NY 11973
Attn To : Bob Lee

Lab No. : 0801203-003

Sample Information...
Type : Aqueous

Origin:

Client ID. : 25255-003

Collected : 1/7/2008 11:10:00 AM
Received : 1/7/2008 3:25:00 PM
Collected By CLIENT
Copies To : Original
CC

<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Method Number</u>	<u>Analyzed</u>
Biochemical Oxygen Demand	43		1	mg/L	E405.1	01/09/2008 9:00 AM

STP Influent
Sampled 1/7/08
24 hour composite

Qualifiers: E - Value above quantitation range
D - Results for Dilution

D.F. = Dilution Factor

Date Reported :

Joann M. Slavin

Laboratory Manager

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 200410	Date Collected: 01/04/2008 14:00	Matrix: WATER
Lab Sample ID: 200410002	Date Received: 01/08/2008 10:45	
Client Sample: STP Effluent	Client: BRKL005	Project: BRKL00504
Client ID: 25246-002	Method: EPA 624	SOP Ref: GL-OA-E-026
Batch ID: 717124	Inst: VOA7.I	Dilution: 1
Run Date: 01/10/2008 19:00	Analyst: SJW1	Purge Vol: 5 mL
Prep Date: 01/10/2008 19:00		
Data File: 7s415.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
74-87-3	Chloromethane	U	1.00	ug/L	0.500	1.00
75-01-4	Vinyl chloride	U	1.00	ug/L	0.500	1.00
74-83-9	Bromomethane	U	1.00	ug/L	0.500	1.00
75-00-3	Chloroethane	U	1.00	ug/L	0.500	1.00
75-69-4	Trichlorofluoromethane	U	1.00	ug/L	0.310	1.00
67-64-1	Acetone	U	5.00	ug/L	1.25	5.00
75-05-8	Acetonitrile	U	25.0	ug/L	6.25	25.0
75-35-4	1,1-Dichloroethylene	U	1.00	ug/L	0.300	1.00
75-09-2	Methylene chloride	U	2.00	ug/L	2.00	2.00
1634-04-4	tert-Butyl methyl ether	U	5.00	ug/L	0.250	5.00
156-60-5	trans-1,2-Dichloroethylene	U	1.00	ug/L	0.300	1.00
75-34-3	1,1-Dichloroethane	U	1.00	ug/L	0.300	1.00
78-93-3	2-Butanone	U	5.00	ug/L	1.25	5.00
67-66-3	Chloroform	U	1.00	ug/L	0.250	1.00
71-55-6	1,1,1-Trichloroethane	U	1.00	ug/L	0.300	1.00
56-23-5	Carbon tetrachloride	U	1.00	ug/L	0.250	1.00
107-06-2	1,2-Dichloroethane	U	1.00	ug/L	0.250	1.00
71-43-2	Benzene	U	1.00	ug/L	0.300	1.00
79-01-6	Trichloroethylene	U	1.00	ug/L	0.250	1.00
78-87-5	1,2-Dichloropropane	U	1.00	ug/L	0.250	1.00
75-27-4	Bromodichloromethane	U	1.00	ug/L	0.250	1.00
110-75-8	2-Chloroethylvinyl ether	U	5.00	ug/L	1.50	5.00
108-10-1	4-Methyl-2-pentanone	U	5.00	ug/L	1.25	5.00
10061-01-5	cis-1,3-Dichloropropylene	U	1.00	ug/L	0.250	1.00
108-88-3	Toluene	U	1.00	ug/L	0.250	1.00
10061-02-6	trans-1,3-Dichloropropylene	U	1.00	ug/L	0.250	1.00
79-00-5	1,1,2-Trichloroethane	U	1.00	ug/L	0.250	1.00
591-78-6	2-Hexanone	U	5.00	ug/L	1.25	5.00
127-18-4	Tetrachloroethylene	U	1.00	ug/L	0.250	1.00
124-48-1	Dibromochloromethane	U	1.00	ug/L	0.250	1.00
108-90-7	Chlorobenzene	U	1.00	ug/L	0.250	1.00
100-41-4	Ethylbenzene	U	1.00	ug/L	0.250	1.00
75-25-2	Bromoform	U	1.00	ug/L	0.250	1.00
79-34-5	1,1,2,2-Tetrachloroethane	U	1.00	ug/L	0.250	1.00
541-73-1	1,3-Dichlorobenzene	U	1.00	ug/L	0.250	1.00
106-46-7	1,4-Dichlorobenzene	U	1.00	ug/L	0.250	1.00
95-50-1	1,2-Dichlorobenzene	U	1.00	ug/L	0.250	1.00

Outfall 001
sampled 1/4/08

**Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 200417	Date Collected: 01/07/2008 13:30	Matrix: WATER
Lab Sample ID: 200417002	Date Received: 01/08/2008 10:45	
Client Sample: STP Effluent	Client: BRKL005	Project: BRKL00504
Client ID: 25254-002	Method: EPA 624	SOP Ref: GL-OA-E-026
Batch ID: 717124	Inst: VOA7.I	Dilution: 1
Run Date: 01/10/2008 20:00	Analyst: SJW1	Purge Vol: 5 mL
Prep Date: 01/10/2008 20:00		
Data File: 7s417.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
74-87-3	Chloromethane	U	1.00	ug/L	0.500	1.00
75-01-4	Vinyl chloride	U	1.00	ug/L	0.500	1.00
74-83-9	Bromomethane	U	1.00	ug/L	0.500	1.00
75-00-3	Chloroethane	U	1.00	ug/L	0.500	1.00
75-69-4	Trichlorofluoromethane	U	1.00	ug/L	0.310	1.00
67-64-1	Acetone	U	5.00	ug/L	1.25	5.00
75-05-8	Acetonitrile	U	25.0	ug/L	6.25	25.0
75-35-4	1,1-Dichloroethylene	U	1.00	ug/L	0.300	1.00
75-09-2	Methylene chloride	U	2.00	ug/L	2.00	2.00
1634-04-4	tert-Butyl methyl ether	U	5.00	ug/L	0.250	5.00
156-60-5	trans-1,2-Dichloroethylene	U	1.00	ug/L	0.300	1.00
75-34-3	1,1-Dichloroethane	U	1.00	ug/L	0.300	1.00
78-93-3	2-Butanone	U	5.00	ug/L	1.25	5.00
67-66-3	Chloroform	U	1.00	ug/L	0.250	1.00
71-55-6	1,1,1-Trichloroethane	U	1.00	ug/L	0.300	1.00
56-23-5	Carbon tetrachloride	U	1.00	ug/L	0.250	1.00
107-06-2	1,2-Dichloroethane	U	1.00	ug/L	0.250	1.00
71-43-2	Benzene	U	1.00	ug/L	0.300	1.00
79-01-6	Trichloroethylene	U	1.00	ug/L	0.250	1.00
78-87-5	1,2-Dichloropropane	U	1.00	ug/L	0.250	1.00
75-27-4	Bromodichloromethane	U	1.00	ug/L	0.250	1.00
110-75-8	2-Chloroethylvinyl ether	U	5.00	ug/L	1.50	5.00
108-10-1	4-Methyl-2-pentanone	U	5.00	ug/L	1.25	5.00
10061-01-5	cis-1,3-Dichloropropylene	U	1.00	ug/L	0.250	1.00
108-88-3	Toluene	U	1.00	ug/L	0.250	1.00
10061-02-6	trans-1,3-Dichloropropylene	U	1.00	ug/L	0.250	1.00
79-00-5	1,1,2-Trichloroethane	U	1.00	ug/L	0.250	1.00
591-78-6	2-Hexanone	U	5.00	ug/L	1.25	5.00
127-18-4	Tetrachloroethylene	U	1.00	ug/L	0.250	1.00
124-48-1	Dibromochloromethane	U	1.00	ug/L	0.250	1.00
108-90-7	Chlorobenzene	U	1.00	ug/L	0.250	1.00
100-41-4	Ethylbenzene	U	1.00	ug/L	0.250	1.00
75-25-2	Bromoform	U	1.00	ug/L	0.250	1.00
79-34-5	1,1,2,2-Tetrachloroethane	U	1.00	ug/L	0.250	1.00
541-73-1	1,3-Dichlorobenzene	U	1.00	ug/L	0.250	1.00
106-46-7	1,4-Dichlorobenzene	U	1.00	ug/L	0.250	1.00
95-50-1	1,2-Dichlorobenzene	U	1.00	ug/L	0.250	1.00

Outfall 001
Sampled 1/7/08

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 200410

METHOD TYPE: SW846

SAMPLE ID: 200410001

CLIENT ID: 25246-001

CONTRACT: BRKL00504

MATRIX: W

DATE RECEIVED 08-JAN-08

LEVEL: Low %SOLIDS:

<u>CAS No</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>C</u>	<u>Qual</u>	<u>M</u>	<u>MDL</u>	<u>DF</u>	<u>Instrument ID</u>	<u>Analytical Run</u>
7429-90-5	Aluminum	68	ug/L	U		P	68	1	OPTIMA3	011708A-5
7440-36-0	Antimony	3	ug/L	U		P	3	1	OPTIMA3	011708A-5
7440-38-2	Arsenic	1.5	ug/L	U		MS	1.5	1	ICPMS6	080110-4
7440-39-3	Barium	14.4	ug/L	B		P	1	1	OPTIMA3	011708A-5
7440-41-7	Beryllium	1	ug/L	U		P	1	1	OPTIMA3	011708A-5
7440-43-9	Cadmium	1	ug/L	U		P	1	1	OPTIMA3	011708A-5
7440-70-2	Calcium	13500	ug/L			P	30	1	OPTIMA3	011708A-5
7440-47-3	Chromium	2	ug/L	U		P	2	1	OPTIMA3	011708A-5
7440-48-4	Cobalt	1	ug/L	U		P	1	1	OPTIMA3	011708A-5
7440-50-8	Copper	91.8	ug/L			P	3	1	OPTIMA3	011708A-5
7439-89-6	Iron	173	ug/L			P	25	1	OPTIMA3	011708A-5
7439-92-1	Lead	1.3	ug/L	B		MS	0.5	1	ICPMS6	080110-2
7439-95-4	Magnesium	3540	ug/L	B		P	85	1	OPTIMA3	011708A-5
7439-96-5	Manganese	2.9	ug/L	B		P	2	1	OPTIMA3	011708A-5
7439-97-6	Mercury	0.050	ug/L	B		AV	0.03	1	MER536	012508W2-1
7440-02-0	Nickel	7.9	ug/L	B		P	1	1	OPTIMA3	011708A-5
7440-09-7	Potassium	3780	ug/L	B		P	50	1	OPTIMA3	011708A-5
7782-49-2	Selenium	1	ug/L	U		MS	1	1	ICPMS6	080110-2
7440-22-4	Silver	1	ug/L	U		P	1	1	OPTIMA3	011708A-5
7440-23-5	Sodium	36500	ug/L			P	45	1	OPTIMA3	011708A-5
7440-28-0	Thallium	0.580	ug/L	B		MS	0.3	1	ICPMS6	080110-2
7440-31-5	Tin	2.5	ug/L	U		P	2.5	1	OPTIMA3	011708A-5
7440-62-2	Vanadium	1.7	ug/L	B		P	1	1	OPTIMA3	011708A-5
7440-66-6	Zinc	90.1	ug/L			P	2	1	OPTIMA3	011708A-5

Outfall 001
Sampled 1/4/08
24 hour composite

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 200417

METHOD TYPE: SW846

SAMPLE ID: 200417001

CLIENT ID: 25254-001

CONTRACT: BRKL00504

MATRIX: W

DATE RECEIVED 08-JAN-08

LEVEL: Low %SOLIDS:

<u>CAS No</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>C</u>	<u>Qual</u>	<u>M</u>	<u>MDL</u>	<u>DF</u>	<u>Instrument ID</u>	<u>Analytical Run</u>
7429-90-5	Aluminum	68	ug/L	U		P	68	1	OPTIMA3	011708A-5
7440-36-0	Antimony	3	ug/L	U		P	3	1	OPTIMA3	011708A-5
7440-38-2	Arsenic	1.5	ug/L	U		MS	1.5	1	ICPMS6	080110-4
7440-39-3	Barium	17.6	ug/L	B		P	1	1	OPTIMA3	011708A-5
7440-41-7	Beryllium	1	ug/L	U		P	1	1	OPTIMA3	011708A-5
7440-43-9	Cadmium	1	ug/L	U		P	1	1	OPTIMA3	011708A-5
7440-70-2	Calcium	14400	ug/L			P	30	1	OPTIMA3	011708A-5
7440-47-3	Chromium	2	ug/L	U		P	2	1	OPTIMA3	011708A-5
7440-48-4	Cobalt	1	ug/L	U		P	1	1	OPTIMA3	011708A-5
7440-50-8	Copper	116	ug/L			P	3	1	OPTIMA3	011708A-5
7439-89-6	Iron	233	ug/L			P	25	1	OPTIMA3	011708A-5
7439-92-1	Lead	4.3	ug/L	B		MS	0.5	1	ICPMS6	080110-2
7439-95-4	Magnesium	3690	ug/L	B		P	85	1	OPTIMA3	011708A-5
7439-96-5	Manganese	2.9	ug/L	B		P	2	1	OPTIMA3	011708A-5
7439-97-6	Mercury	0.073	ug/L	B		AV	0.03	1	MER536	012508W2-1
7440-02-0	Nickel	8.9	ug/L	B		P	1	1	OPTIMA3	011708A-5
7440-09-7	Potassium	5090	ug/L			P	50	1	OPTIMA3	011708A-5
7782-49-2	Selenium	1	ug/L	U		MS	1	1	ICPMS6	080110-2
7440-22-4	Silver	1	ug/L	U		P	1	1	OPTIMA3	011708A-5
7440-23-5	Sodium	37100	ug/L			P	45	1	OPTIMA3	011708A-5
7440-28-0	Thallium	0.30	ug/L	U		MS	0.3	1	ICPMS6	080110-2
7440-31-5	Tin	2.5	ug/L	U		P	2.5	1	OPTIMA3	011708A-5
7440-62-2	Vanadium	2.2	ug/L	B		P	1	1	OPTIMA3	011708A-5
7440-66-6	Zinc	124	ug/L			P	2	1	OPTIMA3	011708A-5

Outfall 001
Sampled 1/7/08
24 hour composite

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 200410

METHOD TYPE: SW846

SAMPLE ID: 200410003

CLIENT ID: 25246-003

CONTRACT: BRKL00504

MATRIX: W

DATE RECEIVED 08-JAN-08

LEVEL: Low %SOLIDS:

<u>CAS No</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>C</u>	<u>Qual</u>	<u>M</u>	<u>MDL</u>	<u>DF</u>	<u>Instrument ID</u>	<u>Analytical Run</u>
7429-90-5	Aluminum	134	ug/L	B		P	68	1	OPTIMA3	011708A-5
7440-36-0	Antimony	3	ug/L	U		P	3	1	OPTIMA3	011708A-5
7440-38-2	Arsenic	1.5	ug/L	U		MS	1.5	1	ICPMS6	080110-4
7440-39-3	Barium	44.7	ug/L	B		P	1	1	OPTIMA3	011708A-5
7440-41-7	Beryllium	1	ug/L	U		P	1	1	OPTIMA3	011708A-5
7440-43-9	Cadmium	1	ug/L	U		P	1	1	OPTIMA3	011708A-5
7440-70-2	Calcium	12100	ug/L			P	30	1	OPTIMA3	011708A-5
7440-47-3	Chromium	2	ug/L	U		P	2	1	OPTIMA3	011708A-5
7440-48-4	Cobalt	1	ug/L	U		P	1	1	OPTIMA3	011708A-5
7440-50-8	Copper	79.1	ug/L			P	3	1	OPTIMA3	011708A-5
7439-89-6	Iron	917	ug/L			P	25	1	OPTIMA3	011708A-5
7439-92-1	Lead	6.8	ug/L	B		MS	0.5	1	ICPMS6	080110-2
7439-95-4	Magnesium	3460	ug/L	B		P	85	1	OPTIMA3	011708A-5
7439-96-5	Manganese	56.3	ug/L			P	2	1	OPTIMA3	011708A-5
7439-97-6	Mercury	0.220	ug/L			AV	0.03	1	MER536	012508W2-1
7440-02-0	Nickel	5.1	ug/L	B		P	1	1	OPTIMA3	011708A-5
7440-09-7	Potassium	6650	ug/L			P	50	1	OPTIMA3	011708A-5
7782-49-2	Selenium	1	ug/L	U		MS	1	1	ICPMS6	080110-2
7440-22-4	Silver	1	ug/L	U		P	1	1	OPTIMA3	011708A-5
7440-23-5	Sodium	39000	ug/L			P	45	1	OPTIMA3	011708A-5
7440-28-0	Thallium	0.30	ug/L	U		MS	0.3	1	ICPMS6	080110-2
7440-31-5	Tin	8.8	ug/L	B		P	2.5	1	OPTIMA3	011708A-5
7440-62-2	Vanadium	1.6	ug/L	B		P	1	1	OPTIMA3	011708A-5
7440-66-6	Zinc	109	ug/L			P	2	1	OPTIMA3	011708A-5

STP Influent
sampled 1/4/08
24 hour composite

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 200417

METHOD TYPE: SW846

SAMPLE ID: 200417003

CLIENT ID: 25254-003

CONTRACT: BRKL00504

MATRIX: W

DATE RECEIVED 08-JAN-08

LEVEL: Low %SOLIDS: 4

<u>CAS No</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>C</u>	<u>Qual</u>	<u>M</u>	<u>MDL</u>	<u>DF</u>	<u>Instrument ID</u>	<u>Analytical Run</u>
7429-90-5	Aluminum	240	ug/L			P	68	1	OPTIMA3	011708A-5
7440-36-0	Antimony	3	ug/L	U		P	3	1	OPTIMA3	011708A-5
7440-38-2	Arsenic	1.5	ug/L	U		MS	1.5	1	ICPMS6	080110-4
7440-39-3	Barium	83.5	ug/L	B		P	1	1	OPTIMA3	011708A-5
7440-41-7	Beryllium	1	ug/L	U		P	1	1	OPTIMA3	011708A-5
7440-43-9	Cadmium	1	ug/L	U		P	1	1	OPTIMA3	011708A-5
7440-70-2	Calcium	11400	ug/L			P	30	1	OPTIMA3	011708A-5
7440-47-3	Chromium	2.2	ug/L	B		P	2	1	OPTIMA3	011708A-5
7440-48-4	Cobalt	1	ug/L	B		P	1	1	OPTIMA3	011708A-5
7440-50-8	Copper	146	ug/L			P	3	1	OPTIMA3	011708A-5
7439-89-6	Iron	1220	ug/L			P	25	1	OPTIMA3	011708A-5
7439-92-1	Lead	10.7	ug/L			MS	0.5	1	ICPMS6	080110-2
7439-95-4	Magnesium	3170	ug/L	B		P	85	1	OPTIMA3	011708A-5
7439-96-5	Manganese	39.3	ug/L			P	2	1	OPTIMA3	011708A-5
7439-97-6	Mercury	0.390	ug/L			AV	0.03	1	MER536	012508W2-1
7440-02-0	Nickel	6.9	ug/L	B		P	1	1	OPTIMA3	011708A-5
7440-09-7	Potassium	2730	ug/L	B		P	50	1	OPTIMA3	011708A-5
7782-49-2	Selenium	1	ug/L	U		MS	1	1	ICPMS6	080110-2
7440-22-4	Silver	1	ug/L	U		P	1	1	OPTIMA3	011708A-5
7440-23-5	Sodium	32600	ug/L			P	45	1	OPTIMA3	011708A-5
7440-28-0	Thallium	0.30	ug/L	U		MS	0.3	1	ICPMS6	080110-2
7440-31-5	Tin	7.4	ug/L	B		P	2.5	1	OPTIMA3	011708A-5
7440-62-2	Vanadium	4.5	ug/L	B		P	1	1	OPTIMA3	011708A-5
7440-66-6	Zinc	112	ug/L			P	2	1	OPTIMA3	011708A-5

STP Influent
Sampled 1/7/08
24 Hour composite

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Brookhaven National Laboratory
 Address : Building 51
 Upton, New York 11973--5000

Report Date: January 16, 2008

Contact: Mr. John Burke
 Project: ES SPDES--Summary

Client Sample ID: 25246-001
 Sample ID: 200410001
 Matrix: Water
 Collect Date: 04-JAN-08 10:30
 Receive Date: 08-JAN-08 10:45
 Collector: Client

Project: BRKL00504
 Client ID: BRKL005
 COC: 25246
 Samp Recv.:
 Client Desc.: STP Effluent

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis Federal											
<i>EPA 365.4 Phosphorus, Total in "As Received"</i>											
Phosphorus, Total as P		0.940	0.024	0.050	mg/L	1	AXH3	01/10/08	1406	716889	1
Solids Analysis Federal											
<i>EPA 160.2 Total Suspended Liq "As Received"</i>											
Total Suspended Solids	U	0.200	0.570	2.50	mg/L		NXM	01/09/08	1143	716695	2
											1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 365.4 Prep	EPA 365.4 Phosphorus, Total in liquid-Fe	AXH3	01/10/08	0909	716888

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 365.4	
2	EPA 160.2	

outfall 001
 sampled 1/4/08
 24 hour composite

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Company : Brookhaven National Laboratory
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Report Date: January 23, 2008

Contact: Mr. John Burke
Project: ES SPDES--Summary

Client Sample ID: 25254-001
Sample ID: 200417001
Matrix: Water
Collect Date: 07-JAN-08 10:50
Receive Date: 08-JAN-08 10:45
Collector: Client

Project: BRKL00504
Client ID: BRKL005
COC: 25254
Samp Recv.:
Client Desc.: STP Effluent

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis Federal											
<i>EPA 365.4 Phosphorus, Total in "As Received"</i>											
Phosphorus, Total as P		1.16	0.024	0.050	mg/L	1	AXH3	01/10/08	1409	716889	1
Solids Analysis Federal											
<i>EPA 160.2 Total Suspended Liq "As Received"</i>											
Total Suspended Solids	U	-0.10	0.570	2.50	mg/L		NXM	01/09/08	1143	716695	2
										1	

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 365.4 Prep	EPA 365.4 Phosphorus, Total in liquid-Fe	AXH3	01/10/08	0909	716888

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 365.4	
2	EPA 160.2	

Outfall 001
Sampled 1/7/08
24 hour composite

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Certificate of Analysis

Company : Brookhaven National Laboratory
Address : Building 51
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Contact: Mr. John Burke
Project: ES SPDES--Summary

Report Date: January 16, 2008

Client Sample ID: 25246-002
Sample ID: 200410002
Matrix: Water
Collect Date: 04-JAN-08 14:00
Receive Date: 08-JAN-08 10:45
Collector: Client

Project: BRKL00504
Client ID: BRKL005
COC: 25246
Samp Recv.:
Client Desc.: STP Effluent

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis Federal											
<i>SW9012A Cyanide, Total Federal "As Received"</i>											
Cyanide, Total	U	-0.514	1.50	5.00	ug/L	1	KLP1	01/10/08	1446	716655	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/10/08	0949	716654

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

Outfall 00/
Sampled 1/4/08
Grab

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Company : Brookhaven National Laboratory
Address : Building 51
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Report Date: January 23, 2008

Contact: Mr. John Burke
Project: ES SPDES--Summary

Client Sample ID:	25254-002	Project:	BRKL00504
Sample ID:	200417002	Client ID:	BRKL005
Matrix:	Water	COC:	25254
Collect Date:	07-JAN-08 13:30	Samp Recv.:	
Receive Date:	08-JAN-08 10:45	Client Desc.:	STP Effluent
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis Federal											
<i>SW9012A Cyanide, Total Federal "As Received"</i>											
Cyanide, Total	U	-0.785	1.50	5.00	ug/L	1	KLP1	01/10/08	1449	716655	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/10/08	0949	716654

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

Outfall 001
Sampled 1/7/08
Grab

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Certificate of Analysis

Company : Brookhaven National Laboratory
Address : Building 51
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Contact: Mr. John Burke
Project: ES SPDES--Summary

Report Date: January 16, 2008

Client Sample ID: 25246-003
Sample ID: 200410003
Matrix: Water
Collect Date: 04-JAN-08 11:00
Receive Date: 08-JAN-08 10:45
Collector: Client

Project: BRKL00504
Client ID: BRKL005
COC: 25246
Samp Recv.:
Client Desc.: STP Influent

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Solids Analysis Federal											
<i>EPA 160.2 Total Suspended Liq "As Received"</i>											
Total Suspended Solids		46.7	3.10	13.6	mg/L		NXM	01/09/08	1143	716695	1

The following Analytical Methods were performed

Method	Description	Analyst	Comments
1	EPA 160.2		

STP Influent
Sampled 1/4/08
24 hour composite

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Certificate of Analysis

Company : Brookhaven National Laboratory
Address : Building 51
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Report Date: January 23, 2008

Contact: Mr. John Burke
Project: ES SPDES--Summary

Client Sample ID: 25254-003
Sample ID: 200417003
Matrix: Water
Collect Date: 07-JAN-08 11:10
Receive Date: 08-JAN-08 10:45
Collector: Client

Project: BRKL00504
Client ID: BRKL005
COC: 25254
Samp Recv.:
Client Desc.: STP Influent

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Solids Analysis Federal										
<i>EPA 160.2 Total Suspended Liq "As Received"</i>										
Total Suspended Solids		72.0	5.70	25.0	mg/L		NXM 01/14/08	1028	717709	1

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 160.2	

STP Influent
Sampled 1/7/08
24 hour composite

ATTACHMENT IV

BROOKHAVEN NATIONAL LABORATORY

SPDES PERMIT NO. NY0005835

DISCHARGE MONITORING REPORT FOR JANUARY 2008

ANALYTICAL RESULTS FROM

GENERAL ENGINEERING LABORATORIES, LLC,

FOR REGULATORY COMPLIANCE SAMPLES COLLECTED FROM

OUTFALLS 002, 002B, 005, 006A, 006B, 008, AND 010

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Brookhaven National Laboratory
Address : Building 51
Upton, New York 11973--5000

Report Date: January 30, 2008

Contact: Mr. John Burke
Project: ES SPDES--Summary

Client Sample ID: 25273-006
Sample ID: 200795006
Matrix: Water
Collect Date: 11-JAN-08 10:10
Receive Date: 12-JAN-08 09:20
Collector: Client

Project: BRKL00504
Client ID: BRKL005
COC: 25273
Samp Recv.:
Client Desc.: 1004/1002

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Oil & Grease Analysis Federal										
<i>EPA 1664A n-Hexane Extractable Material (Oil and G</i>										
Oil and Grease	U	1.22	1.43	5.09	mg/L		JXT1 01/29/08	1325	722131	1

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 1664A	

Outfall 002B (1004/1002)
Sampled 1/11/08

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Brookhaven National Laboratory
Address : Building 51
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Report Date: January 16, 2008

Contact: Mr. John Burke
Project: ES SPDES--Summary

Client Sample ID: 25260-003
Sample ID: 200503003
Matrix: Water
Collect Date: 08-JAN-08 11:07
Receive Date: 09-JAN-08 09:00
Collector: Client

Project: BRKL00504
Client ID: BRKL005
COC: 25260
Samp Recv.:
Client Desc.: HN

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Oil & Grease Analysis Federal											
<i>EPA 1664A n-Hexane Extractable Material (Oil and G"As Received"</i>											
Oil and Grease	J	3.33	1.41	5.05	mg/L		JXT1	01/15/08	0909	717981	1

The following Analytical Methods were performed

Method	Description	Analyst	Comments
1	EPA 1664A		

Outfall 002 (HN)
Sampled 1/8/08

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Brookhaven National Laboratory
Address : Building 51
Upton, New York 11973--5000

Report Date: January 30, 2008

Contact: Mr. John Burke
Project: ES SPDES--Summary

Client Sample ID: 25273-005
Sample ID: 200795005
Matrix: Water
Collect Date: 11-JAN-08 11:45
Receive Date: 12-JAN-08 09:20
Collector: Client

Project: BRKL00504
Client ID: BRKL005
COC: 25273
Samp Recv.:
Client Desc.: HS

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Oil & Grease Analysis Federal										
<i>EPA 1664A n-Hexane Extractable Material (Oil and G</i>										
Oil and Grease	J	1.77	1.37	4.91	mg/L		JXT1 01/29/08	1322	722131	1

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 1664A	

outfall 005 (HS)
sampled 1/11/08

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Certificate of Analysis

Company : Brookhaven National Laboratory
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Report Date: January 16, 2008

Contact: Mr. John Burke
Project: ES SPDES--Summary

Client Sample ID: 25260-001
Sample ID: 200503001
Matrix: Water
Collect Date: 08-JAN-08 11:25
Receive Date: 09-JAN-08 09:00
Collector: Client

Project: BRKL00504
Client ID: BRKL005
COC: 25260
Samp Recv.:
Client Desc.: HTW

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Oil & Grease Analysis Federal											
<i>EPA 1664A n-Hexane Extractable Material (Oil and G"As Received"</i>											
Oil and Grease	J	2.47	1.44	5.15	mg/L		JXT1	01/15/08	0855	717981	1

The following Analytical Methods were performed

Method	Description	Analyst	Comments
1	EPA 1664A		

outfall ~~412~~⁹² 006A (HT-w)
Sampled 1/8/08

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Certificate of Analysis

Company : Brookhaven National Laboratory
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Report Date: January 16, 2008

Contact: Mr. John Burke
Project: ES SPDES--Summary

Client Sample ID: 25260-002
Sample ID: 200503002
Matrix: Water
Collect Date: 08-JAN-08 11:18
Receive Date: 09-JAN-08 09:00
Collector: Client

Project: BRKL00504
Client ID: BRKL005
COC: 25260
Samp Recv.:
Client Desc.: HTE

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Oil & Grease Analysis Federal											
<i>EPA 1664A n-Hexane Extractable Material (Oil and G"As Received"</i>											
Oil and Grease	J	4.04	1.41	5.05	mg/L		JXT1	01/15/08	0909	717981	1

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 1664A	

Outfall 006B (HT-E)
Sampled 1/8/08

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Brookhaven National Laboratory
Address : Building 51
Upton, New York 11973--5000

Report Date: January 30, 2008

Contact: Mr. John Burke
Project: ES SPDES--Summary

Client Sample ID: 25273-002
Sample ID: 200795002
Matrix: Water
Collect Date: 11-JAN-08 10:00
Receive Date: 12-JAN-08 09:20
Collector: Client

Project: BRKL00504
Client ID: BRKL005
COC: 25273
Samp Recv.:
Client Desc.: HW

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Oil & Grease Analysis Federal										
<i>EPA 1664A n-Hexane Extractable Material (Oil and G</i>										
Oil and Grease	J	5.00	1.43	5.10	mg/L		JXT1 01/29/08	1322	722131	1

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 1664A	

outfall 008(itw)
sampled 1/11/08

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Brookhaven National Laboratory
Address : Building 51
Upton, New York 11973--5000

Report Date: January 30, 2008

Contact: Mr. John Burke
Project: ES SPDES--Summary

Client Sample ID: 25273-003
Sample ID: 200795003
Matrix: Water
Collect Date: 11-JAN-08 09:40
Receive Date: 12-JAN-08 09:20
Collector: Client

Project: BRKL00504
Client ID: BRKL005
COC: 25273
Samp Recv.:
Client Desc.: CSF

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Oil & Grease Analysis Federal										
<i>EPA 1664A n-Hexane Extractable Material (Oil and G</i>										
Oil and Grease	J	1.94	1.51	5.38	mg/L		JXT1 01/29/08 1322	722131	1	

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 1664A	

Outfall 010 (CSF)
Sampled 1/11/08

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 200795	Date Collected: 01/11/2008 10:00	Matrix: WATER
Lab Sample ID: 200795002	Date Received: 01/12/2008 09:20	
Client Sample: HW	Client: BRKL005	Project: BRKL00504
Client ID: 25273-002	Method: EPA 624	SOP Ref: GL-OA-E-026
Batch ID: 717542	Inst: VOA9.1	Dilution: 1
Run Date: 01/12/2008 22:30	Analyst: GRB2	Purge Vol: 5 mL
Prep Date: 01/12/2008 22:30		
Data File: 9s636.d	Column: RTX-Volatiles	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	RDL
74-87-3	Chloromethane	U	1.00	ug/L	0.500	1.00	10.0
75-01-4	Vinyl chloride	U	1.00	ug/L	0.500	1.00	10.0
74-83-9	Bromomethane	U	1.00	ug/L	0.500	1.00	10.0
75-00-3	Chloroethane	U	1.00	ug/L	0.500	1.00	10.0
75-69-4	Trichlorofluoromethane	U	1.00	ug/L	0.310	1.00	5.00
75-05-8	Acetonitrile	U	25.0	ug/L	6.25	25.0	
75-35-4	1,1-Dichloroethylene	U	1.00	ug/L	0.300	1.00	5.00
75-09-2	Methylene chloride	U	2.00	ug/L	2.00	2.00	5.00
1634-04-4	tert-Butyl methyl ether	U	5.00	ug/L	0.250	5.00	10.0
156-60-5	trans-1,2-Dichloroethylene	U	1.00	ug/L	0.300	1.00	5.00
75-34-3	1,1-Dichloroethane	U	1.00	ug/L	0.300	1.00	5.00
67-66-3	Chloroform	U	1.00	ug/L	0.250	1.00	5.00
71-55-6	1,1,1-Trichloroethane	U	1.00	ug/L	0.300	1.00	5.00
56-23-5	Carbon tetrachloride	U	1.00	ug/L	0.250	1.00	5.00
107-06-2	1,2-Dichloroethane	U	1.00	ug/L	0.250	1.00	5.00
71-43-2	Benzene	U	1.00	ug/L	0.300	1.00	5.00
79-01-6	Trichloroethylene	U	1.00	ug/L	0.250	1.00	5.00
78-87-5	1,2-Dichloropropane	U	1.00	ug/L	0.250	1.00	5.00
75-27-4	Bromodichloromethane	U	1.00	ug/L	0.250	1.00	5.00
110-75-8	2-Chloroethylvinyl ether	U	5.00	ug/L	1.50	5.00	10.0
10061-01-5	cis-1,3-Dichloropropylene	U	1.00	ug/L	0.250	1.00	5.00
108-88-3	Toluene	U	1.00	ug/L	0.250	1.00	5.00
10061-02-6	trans-1,3-Dichloropropylene	U	1.00	ug/L	0.250	1.00	5.00
79-00-5	1,1,2-Trichloroethane	U	1.00	ug/L	0.250	1.00	5.00
127-18-4	Tetrachloroethylene	U	1.00	ug/L	0.250	1.00	5.00
124-48-1	Dibromochloromethane	U	1.00	ug/L	0.250	1.00	5.00
108-90-7	Chlorobenzene	U	1.00	ug/L	0.250	1.00	5.00
100-41-4	Ethylbenzene	U	1.00	ug/L	0.250	1.00	5.00
75-25-2	Bromoform	U	1.00	ug/L	0.250	1.00	5.00
79-34-5	1,1,2,2-Tetrachloroethane	U	1.00	ug/L	0.250	1.00	5.00
541-73-1	1,3-Dichlorobenzene	U	1.00	ug/L	0.250	1.00	5.00
106-46-7	1,4-Dichlorobenzene	U	1.00	ug/L	0.250	1.00	5.00
95-50-1	1,2-Dichlorobenzene	U	1.00	ug/L	0.250	1.00	5.00

Outfall 008 (HW)
Sampled 1/11/08



Concurrence Sheet

Certain types of correspondence and reports should be reviewed by the Section Head and the Division Manager prior to distribution beyond the Divisional organizational units. Examples of material that should be reviewed include:

1. ESH Policy and Standards – both draft and final.
2. Corrective action plans or other documents which commit Division or Laboratory resources in a significant manner.
3. Recommendations to Laboratory departments or divisions or interpretation of policy, which create significant impact on program or resources.
4. Correspondence to non-BNL organization (e.g., regulatory groups, DOE, the public), which deal with sensitive topics or issues.
5. Information being placed on the Laboratory computer networks for access by non-Environmental Services Division personnel is subject to the same reviews.

Correspondence involving routine reporting of information, data, schedules, etc. does not need Division Head review. These criteria are not intended to suggest review of typical correspondence that takes place between Environmental Services Division and BNL staff.

Preparer: **Jason Remien** *JR 2/21/08*

Subject: **State Pollutant Discharge Elimination System (SPDES) NY-0005835 Brookhaven National Laboratory (BNL) Discharge Monitoring Report (DMR) for January 2008**

Date: **February 21, 2008**

Project Manager/Group Leader: **Robert J. Lee** *R. Lee 2/25/08*

Division Manager: **George A. Goode** *G. Goode 2/25/08*

Assistant Laboratory Director: _____

General Council: _____

EXPLORING EARTH'S MYSTERIES
...PROTECTING ITS FUTURE