Environmental Protection Division

BROOKHAVEN
NATIONAL LABORATORY

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

April 12, 2011

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 March 2011

In accordance with our SPDES permit (NY-0005835), enclosed as Attachment I, please find the DMR for the month of March 2011. 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 tolytriazole, hydroxyethilydene 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 two (2) noncompliance events for pH, one at Outfall 005 (HS) and one at Outfall 008 (HW), review of the analytical data show that all other parameters met their respective SPDES effluent limitations this reporting period. The pH at Outfall 005 (HS) was 8.8 SU and at Outfall 008 (HW) it was 9.1 SU, which both exceeded the permit limit of 8.5 SU. 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 March 2011

NSF
Registered to
ISO 14001

If you should have any questions, please contact Jason Remien of my staff at (631) 344-3477.

Sincerely,

Robert J. Lee
Interim Environmental Protection Division Manager

RJL/JR:mjt

Attachment I: Discharge Monitoring Report for March 2011.

Attachment II: Noncompliance Report for pH Excursions at Outfalls 005 and 008.

Attachment IV: Analytical Results from H2M Labs Inc. and General Engineering Laboratories, LLC for samples collected on 3/7/11, 3/9/11, and 3/11/11 from Outfall 001 (BNL Use Only).

Attachment V: Analytical Results from General Engineering Laboratories, LLC and CHEMTEX Environmental Laboratory, Inc. for samples collected from Outfalls 001A, 001B, 001F, 002, 002B, 005, 006A, 006B, 008, and 010 (BNL Use Only).

cc:
M. Bebon, w/o Attachments
G. Goode, w/o Attachments
M. Holland, w/o Attachments
A. Ackerman, w/all Attachments
E. Lessard, w/ all Attachments
E. Murphy, w/ all Attachments
J. Remien, w/ all Attachments
R. Backofen, w/o Attachments
R. Izzo, w/ all Attachments
W. Chaloupka, w/ all Attachments
G. Granzen, w/ all Attachments
C. Johnson, w/o Attachments
R. Lee, w/ all Attachments
T. Roser, w/o Attachments
V. Radeka, w/ all Attachments
J Sun, NYSDEC, w/ Attachment I
C. Olsen, SCDHS, w/ Attachment 1

File: EC62ER.11

Brookhaven National Laboratory
SPDES Permit No. NY0005835
Discharge Monitoring Report for March 2011
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. Testing of fathead minnow is not required at this time.

5. The pH measured at Outfall 005 (HS) did not meet the permit limit for the sample collected on March 11, 2011 during a rain event. Please see Attachment II for the Non-Compliance Report.

6. The pH measured at Outfall 008 (HW) did not meet the permit limit for the sample collected on March 11, 2011 during a rain event. Please see Attachment II for the Non-Compliance Report.

ATTACHMENT I

BROOKHAVEN NATIONAL LABORATORY

SPDES PERMIT NO. NY0005835

DISCHARGE MONITORING REPORT FOR MARCH 2011

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 U S D O E
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	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	01/01/2011	TO	03/31/2011

DMR MAILING ZIP CODE: 11973
MAJOR
(SUBR 01)
ACID/CAUSTIC CLEANG RINSE 535B
External Outfall

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	840	******		******	******	******	******	0	03/90	RC
00056 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. DAILY AV	******	gal/d	******	******	******	******		Quarterly	RCORDR
pH	SAMPLE MEASUREMENT	******	******	******	7.0	******	7.0		0	01/90	GR
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	Req. Mon. MINIMUM	******	Req. Mon. MAXIMUM	SU		Quarterly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE	DATE
Robert. J. Lee Interim Division Manager Environmental Protection Division	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.	Robert J. Lee SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	631-344-3148 Area Code | Number	4/12/11 MM/DD/YYYY
Typed or Printed				

Comments and Explanation of any violations (Reference all attachments here)
NO CHANGES OR ADDITIONS OF CHEMICALS TO COOLING OR BOILER WATER W/O PRIOR NYSDEC APPROVAL. SAMPLES TO BE COLLECTED FROM A DEDICATED DRAIN OR HOLDING TANKS PRIOR TO DISCH TO SEWER COLLECTION SYSTEM. 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 U S D O E
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	001-B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	01/01/2011	TO	03/31/2011

DMR MAILING ZIP CODE: 11973
MAJOR
(SUBR 01)
RINSE FROM CENTRL DEGREASR 498
External Outfall

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	185	******		******	******	******	******	0	01/90	GR
00056 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. DAILY AV	******	gal/d	******	******	******	******		Quarterly	RCORDR
pH	SAMPLE MEASUREMENT	******	******	******	3.0	******	3.0		0	01/90	GR
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	Req. Mon. MINIMUM	******	Req. Mon. MAXIMUM	SU		Quarterly	GRAB
Chromium, total (as Cr)	SAMPLE MEASUREMENT	******	******	******	******	******	98		0	01/90	GR
01034 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. DAILY MX	ug/L		Quarterly	GRAB
Copper, total (as Cu)	SAMPLE MEASUREMENT	******	******	******	******	******	2710		0	01/90	GR
01042 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. DAILY MX	ug/L		Quarterly	GRAB
Iron, total (as Fe)	SAMPLE MEASUREMENT	******	******	******	******	******	972		0	01/90	GR
01045 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. DAILY MX	ug/L		Quarterly	GRAB
Managanese, total (as Mn) SEE NOTE #1	SAMPLE MEASUREMENT	******	******	******	******	******	8.0		0	01/90	GR
01055 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. DAILY MX	ug/L		Quarterly	GRAB
Nickel, total (as Ni)	SAMPLE MEASUREMENT	******	******	******	******	******	43.9		0	01/90	GR
01067 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. DAILY MX	ug/L		Quarterly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE	DATE
Robert. J. Lee Interim Division Manager Environmental Protection Division	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.	Robert J Lee SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	631-344-3148 Area Code | Number	4/12/11 MM/DD/YYYY
Typed or Printed				

NO CHANGES OR ADDITIONS OF CHEMICALS TO COOLING OR BOILER WATER W/O PRIOR NYSDEC APPROVAL. SAMPLES TO BE COLLECTED FROM A DEDICATED DRAIN OR HOLDING TANKS PRIOR TO DISCH TO SEWER COLLECTION SYSTEM. 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 U S D O E
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	001-B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	01/01/2011	TO	03/31/2011

DMR MAILING ZIP CODE: 11973
MAJOR
(SUBR 01)
RINSE FROM CENTRL DEGREASR 498
External Outfall

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) SEE NOTE #1	SAMPLE MEASUREMENT	******	******	******	******	******	15.1		0	01/90	GR
01092 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. DAILY MX	ug/L		Quarterly	GRAB
Bis (2-ethylhexyl) phthalate	SAMPLE MEASUREMENT	******	******	******	******	******	<10		0	01/90	GR
39100 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. DAILY MX	ug/L		Quarterly	GRAB
Di-n-butyl phthalate	SAMPLE MEASUREMENT	******	******	******	******	******	<10		0	01/90	GR
39110 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. DAILY MX	ug/L		Quarterly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE	DATE
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Typed or Printed				

Comments and Explanation of any violations (Reference all attachments here)
NO CHANGES OR ADDITIONS OF CHEMICALS TO COOLING OR BOILER WATER W/O PRIOR NYSDEC APPROVAL. SAMPLES TO BE COLLECTED FROM A DEDICATED DRAIN OR HOLDING TANKS PRIOR TO DISCH TO SEWER COLLECTION SYSTEM. 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 U S D O E
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	001-F
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	01/01/2011	TO	03/31/2011

DMR MAILING ZIP CODE: 11973
MAJOR
(SUBR 01)
COOLING TOWER WTR & BLOWDN 902
External Outfall

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	763	******		******	******	******	******	0	03/90	RC
00056 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. DAILY AV	******	gal/d	******	******	******	******		Quarterly	RCORDR
pH	SAMPLE MEASUREMENT	******	******	******	7.7	******	7.7		0	01/90	GR
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	Req. Mon. MINIMUM	******	Req. Mon. MAXIMUM	SU		Quarterly	GRAB
Propylene glycol monobutyl ether	SAMPLE MEASUREMENT	******	******	******	******	******	<500		0	01/90	GR
49875 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. DAILY MX	ug/L		Quarterly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE	DATE
Robert. J. Lee Interim Division Manager Environmental Protection Division	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.	Robert J Lee	631-344-3146	4/12/11
Typed or Printed		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	Area Code | Number	MM/DD/YYYY

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

NO CHANGES OR ADDITIONS OF CHEMICALS TO COOLING OR BOILER WATER W/O PRIOR NYSDEC APPROVAL. SAMPLES TO BE COLLECTED FROM A DEDICATED DRAIN OR HOLDING TANKS PRIOR TO DISCHARGE TO SEWER COLLECTION SYSTEM. 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 U S D O E
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	001-M
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	03/01/2011	TO	03/31/2011

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

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Temperature, water deg. Fahrenheit	SAMPLE MEASUREMENT	******	******	******	******	******	50		0	01/01	GR
00011 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	90 DAILY MX	deg F		Daily	GRAB
BOD, 5-day, 20 deg. C	SAMPLE MEASUREMENT	******	******	******	******	******	<2		0	03/30	24
00310 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	5 DAILY MX	mg/L		Monthly	COMP24
pH	SAMPLE MEASUREMENT	******	******	******	6.6	******	7.2		0	01/01	GR
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	5.8 MINIMUM	******	9 MAXIMUM	SU		Daily	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	******	******	******	******	******	<0.6		0	03/30	24
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	20 DAILY MX	mg/L		Monthly	COMP24
Solids, settleable	SAMPLE MEASUREMENT	******	******	******	******	******	0.0		0	01/01	GR
00545 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	0.1 DAILY MX	mL/L		Daily	GRAB
Nitrogen, total (as N)	SAMPLE MEASUREMENT	******	******	******	******	******	7		0	03/30	24
00600 1 1 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	10 DAILY MX	mg/L		Monthly	COMP24
Nitrogen, ammonia total (as N)	SAMPLE MEASUREMENT	******	******	******	******	******	0.1		0	03/30	24
00610 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	1.5 DAILY MX	mg/L		Monthly	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE	DATE
Robert. J. Lee Interim Division Manager Environmental Protection Division	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.	Robert J Lee SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	631-344-3148 Area Code | Number	4/12/11 MM/DD/YYYY
Typed or Printed				

Comments and Explanation of any violations (Reference all attachments here)
PARAMETER HEDP IS NEW FOR THIS OUTFALL. PLEASE PLACE ITS VALUES UNDER THE PARAMETER LINE 1-HYDROXYETHYLIDENE 1,1-DIPHOSPHONIC ACID IS UNDER PARAMETER CODE 85812.

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

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

NAME U S D O E
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	001-M
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	03/01/2011	TO	03/31/2011

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

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	******	******	******	******	******	1.7		0	03/03	24
00665 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. DAILY MX	mg/L		Monthly	COMP24
Cyanide, total (as CN)	SAMPLE MEASUREMENT	******	******	******	******	******	1.7		0		
00720 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	100 DAILY MX	ug/L		Twice Per Month	GRAB
Copper, total (as Cu)	SAMPLE MEASUREMENT	******	******	******	******	******	0.033		0	03/03	24
01042 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	0.15 DAILY MX	mg/L		Monthly	COMP24
Iron, total (as Fe)	SAMPLE MEASUREMENT	******	******	******	******	******	0.23		0	03/03	24
01045 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	0.37 DAILY MX	mg/L		Monthly	COMP24
Lead, total (as Pb) SEE NOTE #1	SAMPLE MEASUREMENT	******	******	******	******	******	0.0024		0	03/03	24
01051 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	0.019 DAILY MX	mg/L		Monthly	COMP24
Nickel, total (as Ni) SEE NOTE #1	SAMPLE MEASUREMENT	******	******	******	******	******	0.0037		0	03/03	24
01067 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	0.11 DAILY MX	mg/L		Monthly	COMP24
Silver, total (as Ag) SEE NOTE #1	SAMPLE MEASUREMENT	******	******	******	******	******	0.0023		0	03/03	24
01077 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	0.015 DAILY MX	mg/L		Monthly	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE	DATE
Robert. J. Lee Interim Division Manager Environmental Protection Division	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.	Robert J Lee SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	631-344-3148 Area Code | Number	4/12/11 MM/DD/YYYY
Typed or Printed				

Comments and Explanation of any violations (Reference all attachments here)
PARAMETER HEDP IS NEW FOR THIS OUTFALL PLEASE PLACE ITS VALUES UNDER THE PARAMETER LINE 1-HYDROXYETHYLIDENE 1,1-DIPHOSPHONIC ACID IS UNDER PARAMETER CODE 85812.

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

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

NAME U S D O E
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	001-M
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	03/01/2011	TO	03/31/2011

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

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	******	******	******	******	******	0.07		0	03/30	24
01092 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	0.1 DAILY MX	mg/L		Monthly	COMP24
Toluene SEE NOTE #1	SAMPLE MEASUREMENT	******	******	******	******	******	0.3		0	03/30	GR
34010 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	5 DAILY MX	ug/L		Twice Per Month	GRAB
Methylene chloride	SAMPLE MEASUREMENT	******	******	******	******	******	<2		0	03/30	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	03/30	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	0.38		******	******	******	******	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	******	******	******	******	******	48		0	03/30	GR
71900 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	200 DAILY MX	ng/L		Monthly	GRAB
Coliform, fecal general	SAMPLE MEASUREMENT	******	******	******	******	<2	<2		0	03/30	GR
74055 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	200 DAILY AV	400 DAILY MX	#/100mL		Once Per Month	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE	DATE
Robert. J. Lee Interim Division Manager Environmental Protection Division	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.	Robert J Lee SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	631-344-3148 Area Code | Number	4/12/11 MM/DD/YYYY
Typed or Printed				

Comments and Explanation of any violations (Reference all attachments here)
PARAMETER HEDP IS NEW FOR THIS OUTFALL PLEASE PLACE ITS VALUES UNDER THE PARAMETER LINE 1-HYDROXYETHYLIDENE 1,1-DIPHOSPHONIC ACID IS UNDER PARAMETER CODE 85812.

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

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*
NAME U S D O E
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	001-M
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	03/01/2011	TO	03/31/2011

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

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	SAMPLE MEASUREMENT	******	******	******	******	******	<5		0	03/30	GR
78356 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	50 DAILY MX	ug/L		Twice Per Month	GRAB
BOD, 5-day, percent removal	SAMPLE MEASUREMENT	******	******	******	>98	******	******		0	01/30	CA
81010 K 0 Percent Removal	PERMIT REQUIREMENT	******	******	******	85 MO AV MN	******	******	%		Monthly	CALCTD
Solids, suspended percent removal	SAMPLE MEASUREMENT	******	******	******	>99	******	******		0	01/30	CA
81011 K 0 Percent Removal	PERMIT REQUIREMENT	******	******	******	85 MO AV MN	******	******	%		Monthly	CALCTD
HEDP	SAMPLE MEASUREMENT	******	******	******	******	******	<0.05		0	01/30	24
85812 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. DAILY MX	mg/L		Monthly	COMP24
Tolytriazole	SAMPLE MEASUREMENT	******	******	******	******	******	<0.005		0	01/30	24
85813 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. DAILY MX	mg/L		Monthly	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE	DATE
Robert. J. Lee Interim Division Manager Environmental Protection Division	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.	Robert J Lee SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	631-344-3148	4/12/11
Typed or Printed			Area Code | Number	MM/DD/YYYY

Comments and Explanation of any violations (Reference all attachments here)
PARAMETER HEDP IS NEW FOR THIS OUTFALL PLEASE PLACE ITS VALUES UNDER THE PARAMETER LINE 1-HYDROXYETHYLIDENE 1,1-DIPHOSPHONIC ACID IS UNDER PARAMETER CODE 85812.

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

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

NAME U S D O E
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	001-Q
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	01/01/2011	TO	03/31/2011

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

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Polychlorinated biphenyls (PCBs)	SAMPLE MEASUREMENT	******	******	******	******	******	<0.03		0	03/90	GR
39516 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. DAILY MX	ug/L		Quarterly	GRAB
Toxicity, ceriodaphnia chronic	SAMPLE MEASUREMENT	******	******	******	******	******	1		0	01/90	24
61426 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	1 DAILY MX	Tox chronic		Quarterly	COMP24
Toxicity, pimephales chronic SEE NOTE #4	SAMPLE MEASUREMENT	******	******	******	******	******	NODI-9		0	01/90	24
61428 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	1 DAILY MX	Tox chronic		Quarterly	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE	DATE
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Typed or Printed		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	Area Code | Number	MM/DD/YYYY

Comments and Explanation of any violations (Reference all attachments here)
PCB ANALYSIS TO USE EPA METHOD 608 WITH AN MDL GOAL OF 0.065 PPB.

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

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

NAME U S D O E
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	002-B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	03/01/2011	TO	03/31/2011

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

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	******	******	******	8.6	******	8.6		0	01/30	GR
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	Req. Mon. MINIMUM	******	9 MAXIMUM	SU		Monthly	GRAB
Oil & grease SEE NOTE #1	SAMPLE MEASUREMENT	******	******	******	******	******	2.0		0	01/30	GR
00556 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	15 DAILY MX	mg/L		Monthly	GRAB
Flow, in conduit or thru treatment plant SEE NOTE #3	SAMPLE MEASUREMENT	******	0.02		******	******	******	******	0	04/30	RC
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	******	Req. Mon. DAILY MX	Mgal/d	******	******	******	******		Monthly	RCORDR

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE	DATE
Robert. J. Lee Interim Division Manager Environmental Protection Division	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.	Robert J. Lee SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	631-344-3148 Area Code | Number	4/12/11 MM/DD/YYYY
Typed or Printed				

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.

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

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

NAME U S D O E
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	002-M
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	03/01/2011	TO	03/31/2011

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

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	******	******	******	7.2	******	8.0		0	04/30	GR
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	Req. Mon. MINIMUM	******	9 MAXIMUM	SU		Monthly	GRAB
Oil & grease SEE NOTE #1	SAMPLE MEASUREMENT	******	******	******	******	******	2.3		0	01/30	GR
00556 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	15 DAILY MX	mg/L		Monthly	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	0.01	******		******	******	******	******	0	04/30	RC
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. DAILY AV	******	Mgal/d	******	******	******	******		Monthly	RCORDR

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE	DATE
Robert. J. Lee Interim Division Manager Environmental Protection Division	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.	Robert J Lee	631-344-3148	4/12/11
Typed or Printed		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	Area Code | Number	MM/DD/YYYY

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)

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

NAME U S D O E
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	002-Q
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	01/01/2011	TO	03/31/2011

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

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Aluminum, total (as Al)	SAMPLE MEASUREMENT	******	******	******	******	******	<0.07		0	01/90	GR
01105 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	2 DAILY MX	mg/L		Quarterly	GRAB
Dichlorobromomethane	SAMPLE MEASUREMENT	******	******	******	******	******	<1		0	01/90	GR
32101 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	50 DAILY MX	ug/L		Quarterly	GRAB
Chloroform	SAMPLE MEASUREMENT	******	******	******	******	******	<1		0	01/90	GR
32106 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	7 DAILY MX	ug/L		Quarterly	GRAB
1, 1, 1 - Trichloroethane	SAMPLE MEASUREMENT	******	******	******	******	******	<1		0	01/90	GR
34506 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	5 DAILY MX	ug/L		Quarterly	GRAB
HEDP	SAMPLE MEASUREMENT	******	******	******	******	******	<0.3		0	01/90	GR
85812 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	0.5 DAILY MX	mg/L		Quarterly	GRAB
Tolyltriazole	SAMPLE MEASUREMENT	******	******	******	******	******	<0.005		0	01/90	GR
85813 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	0.2 DAILY MX	mg/L		Quarterly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE	DATE
Robert. J. Lee Interim Division Manager Environmental Protection Division	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.	Robert J Lee	631-344-3146	4/12/11
Typed or Printed		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	Area Code | Number	MM/DD/YYYY

Comments and Explanation of any violations (Reference all attachments here)
NO ADDITIONAL WATER TREATMENT CHEMICAL ADDITIVES W/O PRIOR NYSDEC APPROVAL. SEE PERMIT FOR ADDITIONAL NOTES, COMMENTS, AND REQUIREMENTS. SAMPLING TO BE DOWNSTREAM OF WHERE EXISTING DISCHARGE MIXES WITH COOLING TOWER BLOWDOWN FROM STAR DETECTOR.

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

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

NAME U S D O E
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	002-R
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	01/01/2011	TO	03/31/2011

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

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
HEDP	SAMPLE MEASUREMENT	******	******	******	******	******	<0.05		0	01/90	GR
85812 1 0 EFFLUENT GROSS	PERMIT REQUIREMENT	******	******	******	******	******	0.5 DAILY MX	mg/L		Quarterly	GRAB
Tolyltriazole	SAMPLE MEASUREMENT	******	******	******	******	******	<0.005		0	01/90	GR
85813 1 0 EFFLUENT GROSS	PERMIT REQUIREMENT	******	******	******	******	******	0.2 DAILY MX	mg/L		Quarterly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE	DATE
Robert. J. Lee Interim Division Manager Environmental Protection Division	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	631-344-3146	4/12/11
Typed or Printed			Area Code | Number	MM/DD/YYYY

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 DIRECTED TO THE NEW BASIN.

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

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

NAME U S D O E
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	005-M
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	03/01/2011	TO	03/31/2011

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

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
pH SEE NOTE #5	SAMPLE MEASUREMENT	******	******	******	7.1	******	8.8		1	04/30	GR
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	Req. Mon. MINIMUM	******	8.5 MAXIMUM	SU		Monthly	GRAB
Oil & grease SEE NOTE #1	SAMPLE MEASUREMENT	******	******	******	******	******	1.5		0	01/30	GR
00556 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	15 DAILY MX	mg/L		Monthly	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	0.70	******		******	******	******		0	04/30	RC
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AV	******	Mgal/d	******	******	******			Monthly	RCORDR

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE	DATE
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Typed or Printed		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	Area Code | Number	MM/DD/YYYY

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 U S D O E
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	005-Q
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	01/01/2011	TO	03/31/2011

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

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Copper, total (as Cu) SEE NOTE #1	SAMPLE MEASUREMENT	******	******	******	******	******	<0.003		0	01/90	GR
01042 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	1 DAILY MX	mg/L		Quarterly	GRAB
HEDP	SAMPLE MEASUREMENT	******	******	******	******	******	0.3		0	01/90	GR
85812 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	0.5 DAILY MX	mg/L		Quarterly	GRAB
Tolyltriazole	SAMPLE MEASUREMENT	******	******	******	******	******	<0.005		0	01/90	GR
85813 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	0.2 DAILY MX	mg/L		Quarterly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE	DATE
Robert. J. Lee Interim Division Manager Environmental Protection Division	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.	Robert J Lee	631-344-3148	4/12/11
Typed or Printed		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	Area Code | Number	MM/DD/YYYY

Comments and Explanation of any violations (Reference all attachments here)
NO ADDITIONAL WATER TREATMENT CHEMICAL ADDITIVES W/O PRIOR NYSDEC APPROVAL. 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 U S D O E
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	007-M
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	03/01/2011	TO	03/31/2011

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

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	******	160000		******	******	******	******	0	17/30	IN
00056 1 0 Effluent Gross	PERMIT REQUIREMENT	******	Req. Mon. DAILY MX	gal/d	******	******	******	******		Monthly	INSTAN
pH	SAMPLE MEASUREMENT	******	******	******	7.7	******	7.7		0	01/30	GR
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	Req. Mon. MINIMUM	******	9 MAXIMUM	SU		Monthly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE	DATE
Robert. J. Lee Interim Division Manager Environmental Protection Division	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.	Robert J Lee	631-344-3148	4/12/11
Typed or Printed		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	Area Code | Number	MM/DD/YYYY

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 U S D O E
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	008-M
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	03/01/2011	TO	03/31/2011

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

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	******	103800		******	******	******		0	01/30	IN
00056 1 0 Effluent Gross	PERMIT REQUIREMENT	******	Req. Mon. DAILY MX	gal/d	******	******	******			Monthly	INSTAN
pH SEE NOTE #6	SAMPLE MEASUREMENT	******	******	******	9.1	******	9.1		1	01/30	GR
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	Req. Mon. MINIMUM	******	8.5 MAXIMUM	SU		Monthly	GRAB
Oil & grease SEE NOTE #1	SAMPLE MEASUREMENT	******	******	******	******	******	2.3		0	01/30	GR
00556 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	15 DAILY MX	mg/L		Monthly	GRAB
1, 1 - Dichloroethylene	SAMPLE MEASUREMENT	******	******	******	******	******	<1		0	01/30	GR
34501 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	5 DAILY MX	ug/L		Monthly	GRAB
1, 1, 1 - Trichloroethane	SAMPLE MEASUREMENT	******	******	******	******	******	<1		0	01/30	GR
34506 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	5 DAILY MX	ug/L		Monthly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE	DATE
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Typed or Printed			Area Code | Number	MM/DD/YYYY

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)

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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	008-Q
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	01/01/2011	TO	03/31/2011

DMR MAILING ZIP CODE: 11973
MAJOR
(SUBR 01)
SW RUNOFF FROM WAREHOUSE AREA
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Aluminum, dissolved (as Al)	SAMPLE MEASUREMENT	******	******	******	******	******	0.2		0	01/90	GR
01106 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	2 DAILY MX	mg/L		Quarterly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE	DATE
Robert. J. Lee Interim Division Manager Environmental Protection Division	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.	Robert J Lee SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	631-344-3148 Area Code | Number	4/12/11 MM/DD/YYYY
Typed or Printed				

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

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

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

NAME U S D O E
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	010-M
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	03/01/2011	TO	03/31/2011

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

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	******	10600		******	******	******		0	01/30	IN
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	******	Req. Mon. DAILY MX	gal/d	******	******	******			Monthly	INSTAN
pH	SAMPLE MEASUREMENT	******	******	******	8.5	******	8.5		0	01/30	GR
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	Req. Mon. MINIMUM	******	8.5 MAXIMUM	SU		Monthly	GRAB
Oil & grease SEE NOTE #1	SAMPLE MEASUREMENT	******	******	******	******	******	1.7		0	01/30	GR
00556 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	15 DAILY MX	mg/L		Monthly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE	DATE
Robert. J. Lee Interim Division Manager Environmental Protection Division	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.	Robert J Lee SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	631-344-3148	4/12/11
Typed or Printed			Area Code | Number	MM/DD/YYYY

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 U S D O E
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	010-Q
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	01/01/2011	TO	03/31/2011

DMR MAILING ZIP CODE: 11973
MAJOR
(SUBR 01)
SW RUNOFF FROM CENTRAL STM (H)
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Copper, dissolved (as Cu)	SAMPLE MEASUREMENT	******	******	******	******	******	<0.001		0	01/90	GR
01040 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	1 DAILY MX	mg/L		Quarterly	GRAB
Lead, dissolved (as Pb)	SAMPLE MEASUREMENT	******	******	******	******	******	<0.0005		0	01/90	GR
01049 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	0.05 DAILY MX	mg/L		Quarterly	GRAB
Vanadium, dissolved (as V) SEE NOTE #1	SAMPLE MEASUREMENT	******	******	******	******	******	0.001		0	01/90	GR
01085 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. DAILY MX	mg/L		Quarterly	GRAB
Aluminum, dissolved (as Al)	SAMPLE MEASUREMENT	******	******	******	******	******	<0.07		0	01/90	GR
01106 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	2 DAILY MX	mg/L		Quarterly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE	DATE
Robert. J. Lee Interim Division Manager Environmental Protection Division	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.	Robert J Lee SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	631-344-3148	4/02/12
Typed or Printed			Area Code | Number	MM/DD/YYYY

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

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

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

NAME U S D O E
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	06A-M
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	03/01/2011	TO	03/31/2011

DMR MAILING ZIP CODE: 11973
MAJOR
(SUBR 01)
LINAC NCCW, FLOOR DNS,ETC (HT1)
External Outfall

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	******	******	******	7.4	******	7.8		0	04/30	GR
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	Req. Mon. MINIMUM	******	9 MAXIMUM	SU		Monthly	GRAB
Oil & grease SEE NOTE #1	SAMPLE MEASUREMENT	******	******	******	******	******	1.8		0	01/30	GR
00556 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	15 DAILY MX	mg/L		Monthly	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	0.13	******		******	******	******	******	0	04/30	RC
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. DAILY AV	******	Mgal/d	******	******	******	******		Monthly	RCORDR

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE	DATE
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Typed or Printed		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	Area Code | Number	MM/DD/YYYY

Comments and Explanation of any violations (Reference all attachments here)
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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

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

NAME U S D O E
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	06A-Q
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	01/01/2011	TO	03/31/2011

DMR MAILING ZIP CODE: 11973
MAJOR
(SUBR 01)
LINAC NCCW, FLOOR DNS, SW (HT1)
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
HEDP	SAMPLE MEASUREMENT	******	******	******	******	******	<0.3		0	01/90	GR
85812 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	0.5 DAILY MX	mg/L		Quarterly	GRAB
Tolyltriazole	SAMPLE MEASUREMENT	******	******	******	******	******	<0.005		0	01/90	GR
85813 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	0.2 DAILY MX	mg/L		Quarterly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE	DATE
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Typed or Printed		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	Area Code | Number	MM/DD/YYYY

Comments and Explanation of any violations (Reference all attachments here)
NO ADDITIONAL WATER TREATMENT CHEMICAL ADDITIVES W/O PRIOR NYSDEC APPROVAL. 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 U S D O E
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	06B-M
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	03/01/2011	TO	03/31/2011

DMR MAILING ZIP CODE: 11973
MAJOR
(SUBR 01)
COOLING TOWR FROM 919, FLOOR DRAINS
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
pH	SAMPLE MEASUREMENT	******	******	******	7.5	******	8.4		0	04/30	GR
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	Req. Mon. MINIMUM	******	9 MAXIMUM	SU		Monthly	GRAB
Oil & grease SEE NOTE #1	SAMPLE MEASUREMENT	******	******	******	******	******	1.4		0	01/30	GR
00556 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	15 DAILY MX	mg/L		Monthly	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	0.06	******		******	******	******	******	0	04/30	RC
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. DAILY AV	******	Mgal/d	******	******	******	******		Monthly	RCORDR

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE	DATE
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Typed or Printed		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	Area Code | Number	MM/DD/YYYY

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

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

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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	06B-Q
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	01/01/2011	TO	03/31/2011

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

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
HEDP	SAMPLE MEASUREMENT	******	******	******	******	******	<0.3		0	01/90	GR
85812 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	0.5 DAILY MX	mg/L		Quarterly	GRAB
Tolyltriazole	SAMPLE MEASUREMENT	******	******	******	******	******	<0.005		0	01/90	GR
85813 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	0.2 DAILY MX	mg/L		Quarterly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE	DATE
Robert. J. Lee Interim Division Manager Environmental Protection Division	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.	Robert J Lee SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	631-344-3148	4/12/11
Typed or Printed			Area Code | Number	MM/DD/YYYY

Comments and Explanation of any violations (Reference all attachments here)
NO ADDITIONAL WATER TREATMENT CHEMICAL ADDITIVES W/O PRIOR NYSDEC APPROVAL. SEE PERMIT FOR ADDITIONAL NOTES, COMMENTS, AND REQUIREMENTS.

ATTACHMENT II

BROOKHAVEN NATIONAL LABORATORY

SPDES PERMIT NO. NY0005835

DISCHARGE MONITORING REPORT FOR MARCH 2011

NONCOMPLIANCE REPORT

SECTION 1

New York State Department of Environmental Conservation
Division of Water

Report of Noncompliance Event

To: DEC Water Contact: **Mr. Joe Sun, Ph.D., P.E.** ***DEC Region:*** **1**

Report Type: ____ *5-Day* X *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: 3/11/2011 **Location (Outfall, Treatment Unit, or Pump Station):** 005 (HS) and 008 (HW)

Description of noncompliance(s) and cause(s): Samples collected from Outfalls 005 (HS) and 008 (HW) on 3/11/11 had a pH of 8.8 and 9.1 SU, respectively, which exceeded the SPDES permit level of 8.5 SU. The most likely cause of this pH excursion is from construction activities associated with the National Synchrotron Light Source (NSLS)-II (concrete forming/washout activities and construction of road/parking lot base using recycled concrete aggregate (RCA)). During heavy rain events, both of these outfalls receive a significant amount of stormwater from the NSLS-II construction site.

Has event ceased? (Yes) (No) If so, when? 3/12/11 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: An inspection of the NSLS-II construction site on April 6, 2011 by BNL's Environmental Protection Division revealed several issues with stormwater control management, including poorly protected stormwater catch basins near the small concrete batch plant and an area that recently had RCA placed down to expand a parking lot. The NSLS-II Construction Project Team was directed to repair all stormwater controls around the catch basins and also consider berming the area to contain storm water at the site.

Preventative (long term) corrective actions: BNL will continue to monitor the pH levels at Outfalls 005 and 008 during rain events to ensure any corrective actions implemented by the NSLS-II Project Team are effective and that pH levels are within effluent limits.

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: Robert J. Lee, P.E. **Title:** Interim Division Manager

Phone #: (631) 344-3148 **Fax #:** (631) 344-5812 **Date**

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Signature of Principal Executive Officer or Authorized Agent

ATTACHMENT III

BROOKHAVEN NATIONAL LABORATORY

SPDES PERMIT NO. NY0005835

DISCHARGE MONITORING REPORT FOR MARCH 2011

ANALYTICAL RESULTS FROM H2M LABS

AND GENERAL ENGINEERING LABORATORIES, LLC

FOR REGULATORY COMPLIANCE SAMPLES COLLECTED

3/7/11, 3/9/11, and 3/11/11

FROM OUTFALL 001

H2M labs
575 Broad Hollow Melville, NY 11747
TEL: 631-694-3040 FAX: 631-420-8436 NYSDOH ID#10478

LABORATORY RESULTS

For the submitted sample

Lab No. : 1103289-001

ClientSample ID. : 31016-001

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

Sample Information...
Type : Aqueous

Origin:

Collected :3/7/2011 11:00:00 AM
Received :3/7/2011 3:00:00 PM
Collected By CLIENT
Copies To :
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Biochemical Oxygen Demand	< 2		1	mg/L	SM5210B	03/09/2011 8:30 AM
Nitrogen, Ammonia (As N)	0.11		1	mg/L	SM4500-NH3 H	03/09/2011 2:11 PM
Nitrite as N	< 0.01		1	mg/L	E353.2	03/08/2011 8:17 AM
Nitrate as N	6.62	D	10	mg/L	E353.2	03/08/2011 9:35 AM
Nitrogen, Total	6.62		1	mg/L	M4500-N C	03/18/2011
Nitrogen, Kjeldahl, Total	< 0.10		1	mg/L	E351.2	03/15/2011 5:32 PM

Outfall 001
3/7/11
24 hour composite

Qualifiers:
E = Value above quantitation range
D = Results for Dilution
D.F. = Dilution Factor
H = Received/analyzed outside of analytical holding time

Joann M. Slavin
Laboratory Manager

Date Reported : 3/22/2011

BNLS940 A27

H2M labs
575 Broad Hollow Melville, NY 11747
TEL: 631-694-3040 FAX: 631-420-8436 NYSDOH ID#10478

LABORATORY RESULTS

For the submitted sample

Lab No. : **1103443-001**

ClientSample ID. : 31026-001

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

Sample Information...
Type : Aqueous

Origin:

Collected :3/9/2011 11:00:00 AM
Received :3/9/2011 3:00:00 PM
Collected By CLIENT
Copies To :
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Biochemical Oxygen Demand	< 2		1	mg/L	SM5210B	03/10/2011 11:25 AM
Nitrogen, Ammonia (As N)	0.11		1	mg/L	SM4500-NH3 H	03/14/2011 3:48 PM
Nitrite as N	< 0.01		1	mg/L	E353.2	03/10/2011 10:40 AM
Nitrate as N	5.12	D	10	mg/L	E353.2	03/10/2011 11:50 AM
Nitrogen, Total	5.11		1	mg/L	M4500-N C	03/18/2011
Nitrogen, Kjeldahl, Total	< 0.10		1	mg/L	E351.2	03/15/2011 5:34 PM

Outfall 001
3/9/11
24 hour Composite

Qualifiers:
E = Value above quantitation range
D = Results for Dilution
D.F. = Dilution Factor
H = Received/analyzed outside of analytical holding time

Joann M. Stavin
Laboratory Manager

Date Reported : 3/22/2011

BNLS940 A31

H2M labs
575 Broad Hollow Melville, NY 11747
TEL: 631-694-3040 FAX: 631-420-8436 NYSDOH ID#10478

LABORATORY RESULTS

For the submitted sample

Lab No. : **1103516-001**

ClientSample ID. : 31034-001

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

Sample Information...
Type : Aqueous

Origin:

Collected :3/11/2011 10:00:00 AM
Received :3/11/2011 3:20:00 PM
Collected By CLIENT
Copies To :
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Biochemical Oxygen Demand	< 2		1	mg/L	SM5210B	03/11/2011 3:35 PM
Nitrogen, Ammonia (As N)	0.11		1	mg/L	SM4500-NH3 H	03/18/2011 1:25 PM
Nitrite as N	< 0.01		1	mg/L	E353.2	03/12/2011 7:26 AM
Nitrate as N	7.37	D	10	mg/L	E353.2	03/12/2011 8:24 AM
Nitrogen, Total	7.37		1	mg/L	M4500-N C	03/18/2011
Nitrogen, Kjeldahl, Total	< 0.10		1	mg/L	E351.2	03/15/2011 5:35 PM

Outfall 001
3/11/11
24 hour Composite

Qualifiers:
E = Value above quantitation range
D = Results for Dilution
D.F. = Dilution Factor
H = Received/analyzed outside of analytical holding time

Joanne M. Slavin
Laboratory Manager

Date Reported : 3/22/2011

BNLS940 A34

H2M labs
575 Broad Hollow Melville, NY 11747
TEL: 631-694-3040 FAX: 631-420-8436 NYSDOH ID#10478

LABORATORY RESULTS
For the submitted sample

Lab No. : **1103289-002**
ClientSample ID. : 31016-002

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

Sample Information...
Type : Aqueous

Origin:

Collected :3/7/2011 11:10:00 AM
Received :3/7/2011 3:00:00 PM
Collected By CLIENT
Copies To :
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Total Coliform	< 2		1	MPN	SM9221BE	03/07/2011 3:30 PM
Fecal Coliform	< 2		1	MPN	SM9221BE	03/07/2011 3:30 PM

Outfall 001
3/7/11
Grab

Qualifiers:
E = Value above quantitation range
D = Results for Dilution
D.F. = Dilution Factor
H = Received/analyzed outside of analytical holding time

Joanne M. Slavin
Laboratory Manager

Date Reported : 3/22/2011

BNLS940 A28

H2M labs
575 Broad Hollow Melville, NY 11747
TEL: 631-694-3040 FAX: 631-420-8436 NYSDOH ID#10478

LABORATORY RESULTS

For the submitted sample

Lab No. : **1103443-002**

ClientSample ID. : 31026-002

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

Sample Information...
Type : Aqueous

Origin:

Collected :3/9/2011 11:10:00 AM
Received :3/9/2011 3:00:00 PM
Collected By CLIENT
Copies To :
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Total Coliform	< 2		1	MPN	SM9221BE	03/09/2011 4:00 PM
Fecal Coliform	< 2		1	MPN	SM9221BE	03/09/2011 4:00 PM

Outfall 001
Sampled 3/9/11
Grab

Qualifiers:
E = Value above quantitation range
D = Results for Dilution
D.F. = Dilution Factor
H = Received/analyzed outside of analytical holding time

Joann M. Alvino
Laboratory Manager

Date Reported : 3/22/2011

BNLS940 A32

H2M labs
575 Broad Hollow Melville, NY 11747
TEL: 631-694-3040 FAX: 631-420-8436 NYSDOH ID#10478

LABORATORY RESULTS

For the submitted sample

Lab No. : **1103516-002**

ClientSample ID. : 31034-002

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

Sample Information...
Type : Aqueous

Origin:

Collected :3/11/2011 10:10:00 AM
Received :3/11/2011 3:20:00 PM
Collected By CLIENT
Copies To :
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Total Coliform	< 2		1	MPN	SM9221BE	03/11/2011 4:30 PM
Fecal Coliform	< 2		1	MPN	SM9221BE	03/11/2011 4:30 PM

Outfall 001
3/11/11
Grab

Qualifiers:
E = Value above quantitation range
D = Results for Dilution
D.F. = Dilution Factor
H = Received/analyzed outside of analytical holding time

Joann M. Slavin
Laboratory Manager

Date Reported : 3/22/2011

BNLS940 A35

H2M labs
575 Broad Hollow Melville, NY 11747
TEL: 631-694-3040 FAX: 631-420-8436 NYSDOH ID#10478

LABORATORY RESULTS

For the submitted sample

Lab No. : **1103289-003**

ClientSample ID. : 31016-003

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

Sample Information...
Type : Aqueous

Origin:

Collected :3/7/2011 11:55:00 AM
Received :3/7/2011 3:00:00 PM
Collected By CLIENT
Copies To :
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Biochemical Oxygen Demand	212		1	mg/L	SM5210B	03/09/2011 8:40 AM

STP Influent
3/7/11
24 hour composite

Qualifiers:
E = Value above quantitation range
D = Results for Dilution
D.F. = Dilution Factor
H = Received/analyzed outside of analytical holding time

Joann M. Slavin
Laboratory Manager

Date Reported : 3/22/2011

BNLS940 A29

labs
575 Broad Hollow Melville, NY 11747
TEL: 631-694-3040 FAX: 631-420-8436 NYSDOH ID#10478

LABORATORY RESULTS

For the submitted sample

Lab No. : **1103443-003**

ClientSample ID. : 31026-003

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

Sample Information...
Type : Aqueous

Origin:

Collected : 3/9/2011 11:40:00 AM
Received : 3/9/2011 3:00:00 PM
Collected By CLIENT
Copies To :
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Biochemical Oxygen Demand	38		1	mg/L	SM5210B	03/10/2011 11:30 AM

STP Influent
3/9/11
29 hour composite

Qualifiers:
E = Value above quantitation range
D = Results for Dilution
D.F. = Dilution Factor
H = Received/analyzed outside of analytical holding time

Joann M. Stein
Laboratory Manager

Date Reported : 3/22/2011

BNLS940 A33

H2M labs
575 Broad Hollow Melville, NY 11747
TEL: 631-694-3040 FAX: 631-420-8436 NYSDOH ID#10478

LABORATORY RESULTS

For the submitted sample

Lab No. : 1103516-003

ClientSample ID. : 31034-003

Sample Information...
Type : Aqueous

Origin:

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

Collected :3/11/2011 11:00:00 AM
Received :3/11/2011 3:20:00 PM
Collected By CLIENT
Copies To :
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Biochemical Oxygen Demand	72		1	mg/L	SM5210B	03/11/2011 3:40 PM

STP Influent
3/11/11
24 hour composite

Qualifiers:
E = Value above quantitation range
D = Results for Dilution
D.F. = Dilution Factor
H = Received/analyzed outside of analytical holding time

Joann M. Alvino
Laboratory Manager

Date Reported : 3/22/2011

BNLS940 A36

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: March 29, 2011

Company : Brookhaven National Laboratory
Address : Building 462

Upton, New York 11973--5000
Contact: Mr. John Burke
Project: ES SPDES - Summary

Client Sample ID:	31017-001	Project:	BRKL00604
Sample ID:	273547001	Client ID:	BRKL006
Matrix:	W	COC:	31017
Collect Date:	07-MAR-11 11:00	Samp Recv.:	
Receive Date:	08-MAR-11 08:45	Client Desc.:	STP Effluent
Collector:	Client	Vol. Recv.:	

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA											
7470 Cold Vapor Hg Liquid "As Received"											
Mercury	U	ND	0.066	0.200	ug/L	1	ETL	03/21/11	0611	1081397	1
Metals Analysis-ICP											
6010 TAL Metals Liquid "As Received"											
Aluminum	U	ND	68.0	200	ug/L	1	CYL1	03/15/11	1806	1081381	2
Antimony	U	ND	3.50	60.0	ug/L	1					
Barium	J	23.3	1.00	200	ug/L	1					
Beryllium	U	ND	1.00	5.00	ug/L	1					
Cadmium	U	ND	1.00	5.00	ug/L	1					
Calcium		15400	50.0	5000	ug/L	1					
Chromium	U	ND	1.00	10.0	ug/L	1					
Cobalt	U	ND	1.00	50.0	ug/L	1					
Copper		32.8	3.00	25.0	ug/L	1					
Iron		229	30.0	100	ug/L	1					
Magnesium	J	3720	110	5000	ug/L	1					
Manganese	J	2.82	2.00	15.0	ug/L	1					
Nickel	J	3.65	1.50	40.0	ug/L	1					
Potassium		7180	50.0	5000	ug/L	1					
Silver	U	ND	1.00	10.0	ug/L	1					
Sodium		50200	100	5000	ug/L	1					
Tin	U	ND	2.50	10.0	ug/L	1					
Vanadium	J	1.19	1.00	50.0	ug/L	1					
Zinc		53.5	3.30	20.0	ug/L	1					
Metals Analysis-ICP-MS											
3005/6020 Arsenic "As Received"											
Arsenic	U	ND	1.70	15.0	ug/L	1	RMJ	03/24/11	1829	1081377	3
Lead	J	2.09	0.500	10.0	ug/L	1					
Selenium	U	ND	1.50	15.0	ug/L	1					
Thallium	U	ND	0.450	20.0	ug/L	1	RMJ	03/26/11	0523	1081377	4
Nutrient Analysis											
EPA 365.4 Phosphorus, Total in "As Received"											
Phosphorus, Total as P		1.66	0.015	0.050	mg/L	1	KLP1	03/11/11	1533	1081419	5
Solids Analysis											
SM 2540D Total Suspended Liq "As Received"											
Total Suspended Solids	U	ND	0.570	2.50	mg/L		LYG1	03/09/11	1024	1081166	6

Outfall 001
3/7/4
24 hour
Composite

The following Prep Methods were performed

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: March 29, 2011

Company : Brookhaven National Laboratory
Address : Building 462

Upton, New York 11973--5000
Contact: Mr. John Burke
Project: ES SPDES - Summary

Client Sample ID:	31017-002	Project:	BRKL00604
Sample ID:	273547002	Client ID:	BRKL006
Matrix:	W	COC:	31017
Collect Date:	07-MAR-11 11:10	Samp Recv.:	
Receive Date:	08-MAR-11 08:45	Client Desc.:	STP Effluent
Collector:	Client	Vol. Recv.:	

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
SW9012A Cyanide, Total "As Received"											
Cyanide, Total	U	ND	1.70	5.00	ug/L	1	SDS	03/11/11	1059	1081476	1
Volatile Organics											
EPA 624 Method List "As Received"											
1,1,1-Trichloroethane	U	ND	0.325	1.00	ug/L	1	SYK1	03/10/11	2126	1082193	2
1,1,2,2-Tetrachloroethane	U	ND	0.250	1.00	ug/L	1					
1,1,2-Trichloroethane	U	ND	0.250	1.00	ug/L	1					
1,1-Dichloroethane	U	ND	0.300	1.00	ug/L	1					
1,1-Dichloroethylene	U	ND	0.300	1.00	ug/L	1					
1,2-Dichlorobenzene	U	ND	0.250	1.00	ug/L	1					
1,2-Dichloroethane	U	ND	0.250	1.00	ug/L	1					
1,2-Dichloropropane	U	ND	0.250	1.00	ug/L	1					
1,3-Dichlorobenzene	U	ND	0.250	1.00	ug/L	1					
1,4-Dichlorobenzene	U	ND	0.250	1.00	ug/L	1					
2-Butanone	U	ND	1.25	5.00	ug/L	1					
2-Chloroethylvinyl ether	U	ND	1.50	5.00	ug/L	1					
2-Hexanone	U	ND	1.25	5.00	ug/L	1					
4-Methyl-2-pentanone	U	ND	1.25	5.00	ug/L	1					
Acetone	U	ND	1.50	5.00	ug/L	1					
Acetonitrile	U	ND	6.25	25.0	ug/L	1					
Benzene	U	ND	0.300	1.00	ug/L	1					
Bromodichloromethane	U	ND	0.250	1.00	ug/L	1					
Bromoform	U	ND	0.250	1.00	ug/L	1					
Bromomethane	U	ND	0.300	1.00	ug/L	1					
Carbon tetrachloride	U	ND	0.300	1.00	ug/L	1					
Chlorobenzene	U	ND	0.250	1.00	ug/L	1					
Chloroethane	U	ND	0.300	1.00	ug/L	1					
Chloroform	U	ND	0.250	1.00	ug/L	1					
Chloromethane	U	ND	0.300	1.00	ug/L	1					
Dibromochloromethane	U	ND	0.300	1.00	ug/L	1					
Ethylbenzene	U	ND	0.250	1.00	ug/L	1					
Methylene chloride	U	ND	2.00	2.00	ug/L	1					
Tetrachloroethylene	U	ND	0.300	1.00	ug/L	1					
Toluene	J	0.320	0.250	1.00	ug/L	1					
Trichloroethylene	U	ND	0.250	1.00	ug/L	1					
Trichlorofluoromethane	U	ND	0.300	1.00	ug/L	1					
Vinyl chloride	U	ND	0.500	1.00	ug/L	1					
cis-1,3-Dichloropropylene	U	ND	0.250	1.00	ug/L	1					

Outfall 001
3/7/11
Grab

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: March 29, 2011

Company : Brookhaven National Laboratory
Address : Building 462

Upton, New York 11973--5000
Contact: Mr. John Burke
Project: ES SPDES - Summary

Client Sample ID:	31017-003	Project:	BRKL00604
Sample ID:	273547003	Client ID:	BRKL006
Matrix:	W	COC:	31017
Collect Date:	07-MAR-11 11:55	Samp Recv.:	
Receive Date:	08-MAR-11 08:45	Client Desc.:	STP Influent
Collector:	Client	Vol. Recv.:	

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA											
7470 Cold Vapor Hg Liquid "As Received"											
Mercury	U	ND	0.066	0.200	ug/L	1	ETL	03/21/11	0621	1081397	1
Metals Analysis-ICP											
6010 TAL Metals Liquid "As Received"											
Aluminum		1650	68.0	200	ug/L	1	CYL1	03/15/11	1817	1081381	2
Antimony	U	ND	3.50	60.0	ug/L	1					
Barium		412	1.00	200	ug/L	1					
Beryllium	U	ND	1.00	5.00	ug/L	1					
Cadmium	J	1.52	1.00	5.00	ug/L	1					
Calcium		26600	50.0	5000	ug/L	1					
Chromium		13.9	1.00	10.0	ug/L	1					
Cobalt	J	3.12	1.00	50.0	ug/L	1					
Copper		734	3.00	25.0	ug/L	1					
Iron		4460	30.0	100	ug/L	1					
Magnesium		5220	110	5000	ug/L	1					
Manganese		46.9	2.00	15.0	ug/L	1					
Nickel	J	30.5	1.50	40.0	ug/L	1					
Potassium		6490	50.0	5000	ug/L	1					
Silver	J	5.56	1.00	10.0	ug/L	1					
Sodium		49700	100	5000	ug/L	1					
Tin		11.3	2.50	10.0	ug/L	1					
Vanadium	J	17.6	1.00	50.0	ug/L	1					
Zinc		522	3.30	20.0	ug/L	1					
Metals Analysis-ICP-MS											
3005/6020 Arsenic "As Received"											
Arsenic	J	5.28	1.70	15.0	ug/L	1	RMJ	03/24/11	1855	1081377	3
Lead		49.4	0.500	10.0	ug/L	1					
Selenium	U	ND	1.50	15.0	ug/L	1					
Thallium	U	ND	0.450	20.0	ug/L	1	RMJ	03/26/11	0519	1081377	4
Solids Analysis											
SM 2540D Total Suspended Liq "As Received"											
Total Suspended Solids		514	25.9	114	mg/L		LYG1	03/09/11	1024	1081166	5

STP Influent
Sampled 3/7/11
24 hour composite

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005 PREP	LYH1	03/15/11	0930	1081376

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: March 29, 2011

Company : Brookhaven National Laboratory
Address : Building 462

Upton, New York 11973--5000
Contact: Mr. John Burke
Project: ES SPDES - Summary

Client Sample ID:	31017-001	Project:	BRKL00604
Sample ID:	273547006	Client ID:	BRKL006
Matrix:	W	COC:	31017
Collect Date:	07-MAR-11 11:00	Samp Recv.:	
Receive Date:	08-MAR-11 08:45	Client Desc.:	STP Effluent
Collector:	Client	Vol. Recv.:	

Parameter	Qualifier	Result	DL	RL	Units	DF	Analys	Date	Time	Batch	Method
Semi-Volatile-GC/MS											
3510C/8270C BNA Liquid "As Received"											
1,2,4-Trichlorobenzene	U	ND	1.94	10.0	ug/L	1	AGS1	03/14/11	2218	1082387	1
1,2-Dichlorobenzene	U	ND	1.94	10.0	ug/L	1					
1,3-Dichlorobenzene	U	ND	1.94	10.0	ug/L	1					
1,4-Dichlorobenzene	U	ND	1.94	10.0	ug/L	1					
2,4,6-Trichlorophenol	U	ND	1.94	10.0	ug/L	1					
2,4-Dichlorophenol	U	ND	1.94	10.0	ug/L	1					
2,4-Dimethylphenol	U	ND	1.94	10.0	ug/L	1					
2,4-Dinitrophenol	U	ND	4.85	50.0	ug/L	1					
2,4-Dinitrotoluene	U	ND	1.94	10.0	ug/L	1					
2,6-Dinitrotoluene	U	ND	1.94	10.0	ug/L	1					
2-Chloronaphthalene	U	ND	0.291	10.0	ug/L	1					
2-Chlorophenol	U	ND	1.94	10.0	ug/L	1					
2-Methyl-4,6-dinitrophenol	U	ND	2.91	50.0	ug/L	1					
2-Nitrophenol	U	ND	1.94	10.0	ug/L	1					
3,3'-Dichlorobenzidine	U	ND	1.94	40.0	ug/L	1					
4-Bromophenylphenylether	U	ND	1.94	10.0	ug/L	1					
4-Chloro-3-methylphenol	U	ND	1.94	10.0	ug/L	1					
4-Chlorophenylphenylether	U	ND	1.94	10.0	ug/L	1					
4-Nitrophenol	U	ND	1.94	50.0	ug/L	1					
Acenaphthene	U	ND	0.301	10.0	ug/L	1					
Acenaphthylene	U	ND	0.194	10.0	ug/L	1					
Anthracene	U	ND	0.194	10.0	ug/L	1					
Benzo(a)anthracene	U	ND	0.194	10.0	ug/L	1					
Benzo(a)pyrene	U	ND	0.194	10.0	ug/L	1					
Benzo(b)fluoranthene	U	ND	0.194	10.0	ug/L	1					
Benzo(ghi)perylene	U	ND	0.194	10.0	ug/L	1					
Benzo(k)fluoranthene	U	ND	0.194	10.0	ug/L	1					
Butylbenzylphthalate	U	ND	1.94	10.0	ug/L	1					
Chrysene	U	ND	0.194	10.0	ug/L	1					
Di-n-butylphthalate	U	ND	1.94	10.0	ug/L	1					
Di-n-octylphthalate	U	ND	2.91	10.0	ug/L	1					
Dibenzo(a,h)anthracene	U	ND	0.194	10.0	ug/L	1					
Diethylphthalate	U	ND	1.94	10.0	ug/L	1					
Dimethylphthalate	U	ND	1.94	10.0	ug/L	1					
Diphenylamine	U	ND	2.91	10.0	ug/L	1					
Fluoranthene	U	ND	0.194	10.0	ug/L	1					
Fluorene	U	ND	0.194	10.0	ug/L	1					
Hexachlorobenzene	U	ND	1.94	10.0	ug/L	1					

Outfall 001
3/7/11
Grab

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: March 29, 2011

Company :	Brookhaven National Laboratory
Address :	Building 462
	Upton, New York 11973--5000
Contact:	Mr. John Burke
Project:	ES SPDES - Summary

Client Sample ID:	31017-002	Project:	BRKL00604
Sample ID:	273547005	Client ID:	BRKL006
Matrix:	W	COC:	31017
Collect Date:	07-MAR-11 11:10	Samp Recv.:	
Receive Date:	08-MAR-11 08:45	Client Desc.:	STP Effluent
Collector:	Client	Vol. Recv.:	

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Semi-Volatiles-Pesticide											
608/3510C Pest/PCB Liquid Fed "As Received"											
4,4'-DDD	U	ND	0.00194	0.00777	ug/L	2	RXE1	03/22/11	1945	1082361	1
4,4'-DDE	U	ND	0.000971	0.00777	ug/L	2					
4,4'-DDT	U	ND	0.00194	0.00777	ug/L	2					
Aldrin	U	ND	0.000971	0.00388	ug/L	2					
Aroclor-1016	U	ND	0.0323	0.0971	ug/L	2					
Aroclor-1221	U	ND	0.0323	0.0971	ug/L	2					
Aroclor-1232	U	ND	0.0323	0.0971	ug/L	2					
Aroclor-1242	U	ND	0.0323	0.0971	ug/L	2					
Aroclor-1248	U	ND	0.0323	0.0971	ug/L	2					
Aroclor-1254	U	ND	0.0323	0.0971	ug/L	2					
Aroclor-1260	U	ND	0.0323	0.0971	ug/L	2					
Chlordane (tech.)	U	ND	0.0149	0.0485	ug/L	2					
Dieldrin	U	ND	0.00194	0.00777	ug/L	2					
Endosulfan I	U	ND	0.000971	0.00388	ug/L	2					
Endosulfan II	U	ND	0.00194	0.00777	ug/L	2					
Endosulfan sulfate	U	ND	0.00194	0.00777	ug/L	2					
Endrin	U	ND	0.00194	0.00777	ug/L	2					
Endrin aldehyde	U	ND	0.000971	0.00777	ug/L	2					
Heptachlor	U	ND	0.000971	0.00388	ug/L	2					
Heptachlor epoxide	U	ND	0.000971	0.00388	ug/L	2					
Toxaphene	U	ND	0.0291	0.0971	ug/L	2					
alpha-BHC	U	ND	0.000971	0.00388	ug/L	2					
beta-BHC	U	ND	0.00117	0.00388	ug/L	2					
gamma-BHC (Lindane)	U	ND	0.000971	0.00388	ug/L	2					
delta-BHC		0.0315	0.000971	0.00388	ug/L	2	RXE1	03/22/11	1945	1082361	2

Outfall 001
3/7/11
Grab

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3510C	3510C-608 PEST/PCB Prep Liquid	RXC1	03/11/11	1245	1082359

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 608	
2	EPA 608	

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Certificate of Analysis

Report Date: March 29, 2011

Company :	Brookhaven National Laboratory
Address :	Building 462
	Upton, New York 11973--5000
Contact:	Mr. John Burke
Project:	ES SPDES - Summary

Client Sample ID:	31017-002	Project:	BRKL00604
Sample ID:	273538001	Client ID:	BRKL006
Matrix:	W	COC:	31017
Collect Date:	07-MAR-11 11:10	Samp Recv.:	
Receive Date:	08-MAR-11 08:44	Client Desc.:	STP Effluent
Collector:	Client	Vol. Recv.:	

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA											
EPA 1631 Low Level Mercury Analysis "As Received"											
Mercury		42.8	2.00	5.00	ng/L	10	ETL	03/28/11	0830	1081452	1

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 1631E	

Outfall 001
Sampled 3/7/11

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: March 30, 2011

Company : Brookhaven National Laboratory
Address : Building 462

Upton, New York 11973--5000
Contact: Mr. John Burke
Project: ES SPDES - Summary

Client Sample ID:	31025-001	Project:	BRKL00604
Sample ID:	273701001	Client ID:	BRKL006
Matrix:	W	COC:	31025
Collect Date:	09-MAR-11 11:00	Samp Recv.:	
Receive Date:	10-MAR-11 09:00	Client Desc.:	STP Effluent
Collector:	Client	Vol. Recv.:	

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA											
7470 Cold Vapor Hg Liquid "As Received"											
Mercury	U	ND	0.066	0.200	ug/L	1	JXL1	03/22/11	0945	1082148	1
Metals Analysis-ICP											
6010 TAL Metals Liquid "As Received"											
Aluminum	U	ND	68.0	200	ug/L	1	CYL1	03/16/11	1732	1082082	2
Antimony	U	ND	3.50	60.0	ug/L	1					
Barium	J	20.8	1.00	200	ug/L	1					
Beryllium	U	ND	1.00	5.00	ug/L	1					
Cadmium	U	ND	1.00	5.00	ug/L	1					
Calcium		14600	50.0	5000	ug/L	1					
Chromium	J	1.39	1.00	10.0	ug/L	1					
Cobalt	U	ND	1.00	50.0	ug/L	1					
Copper		30.9	3.00	25.0	ug/L	1					
Iron		176	30.0	100	ug/L	1					
Magnesium	J	3700	110	5000	ug/L	1					
Manganese	J	2.16	2.00	15.0	ug/L	1					
Nickel	J	3.44	1.50	40.0	ug/L	1					
Potassium		6220	50.0	5000	ug/L	1					
Silver	J	2.33	1.00	10.0	ug/L	1					
Sodium		45500	100	5000	ug/L	1					
Tin	U	ND	2.50	10.0	ug/L	1					
Vanadium	J	1.86	1.00	50.0	ug/L	1					
Zinc		66.3	3.30	20.0	ug/L	1					
Metals Analysis-ICP-MS											
3005/6020 Arsenic "As Received"											
Lead	J	2.03	0.500	10.0	ug/L	1	BAJ	03/17/11	2211	1082079	3
Thallium	U	ND	0.450	20.0	ug/L	1					
Arsenic	U	ND	1.70	15.0	ug/L	1	BAJ	03/21/11	1614	1082079	4
Selenium	U	ND	1.50	15.0	ug/L	1					
Nutrient Analysis											
EPA 365.4 Phosphorus, Total in "As Received"											
Phosphorus, Total as P		1.34	0.015	0.050	mg/L	1	SDS	03/16/11	1142	1082190	5
Semi-Volatile-GC/MS											
3510C/8270C BNA Liquid "As Received"											
1,2,4-Trichlorobenzene	U	ND	2.00	10.0	ug/L	1	AGS1	03/14/11	2243	1082387	6
1,2-Dichlorobenzene	U	ND	2.00	10.0	ug/L	1					
1,3-Dichlorobenzene	U	ND	2.00	10.0	ug/L	1					

Outfall 001
Sampled 3/9/11
24 hour
Composite

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: March 30, 2011

Company : Brookhaven National Laboratory
Address : Building 462

Upton, New York 11973--5000
Contact: Mr. John Burke
Project: ES SPDES - Summary

Client Sample ID: 31025-001 Project: BRKL00604
Sample ID: 273701001 Client ID: BRKL006

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Semi-Volatile-GC/MS											
3510C/8270C BNA Liquid "As Received"											
Indeno(1,2,3-cd)pyrene	U	ND	0.200	10.0	ug/L	1					
Isophorone	U	ND	3.00	10.0	ug/L	1					
N-Methyl-N-nitrosomethylamine	U	ND	2.00	10.0	ug/L	1					
N-Nitrosodipropylamine	U	ND	2.00	10.0	ug/L	1					
Naphthalene	U	ND	0.300	10.0	ug/L	1					
Nitrobenzene	U	ND	3.00	10.0	ug/L	1					
Pentachlorophenol	U	ND	2.00	50.0	ug/L	1					
Phenanthrene	U	ND	0.200	10.0	ug/L	1					
Phenol	U	ND	1.00	10.0	ug/L	1					
Pyrene	U	ND	0.300	10.0	ug/L	1					
bis(2-Chloroethoxy)methane	U	ND	3.00	10.0	ug/L	1					
bis(2-Chloroethyl) ether	U	ND	2.00	10.0	ug/L	1					
bis(2-Chloroisopropyl)ether	U	ND	2.00	10.0	ug/L	1					
bis(2-Ethylhexyl)phthalate	U	ND	2.00	10.0	ug/L	1					
Semi-Volatiles-HERB											
8151A Herbicide H2O% "As Received"											
2,4,5-TP	U	ND	0.0822	0.248	ug/L	1	TXK2	03/15/11	0000	1082523	7
2,4-D	U	ND	0.0822	0.248	ug/L	1					
2,4,5-T	J	0.131	0.0822	0.248	ug/L	1	TXK2	03/15/11	0000	1082523	8
Solids Analysis											
SM 2540D Total Suspended Liq "As Received"											
Total Suspended Solids	U	ND	0.570	2.50	mg/L		LYG1	03/11/11	1053	1082300	9

Outfall 001
3/9/11
24 hour composite

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 365.4 Prep	EPA 365.4 Phosphorus, Total in liquid PR	AXS5	03/15/11	1400	1082189
SW846 3005A	ICP-MS 3005 PREP	LYH1	03/16/11	0920	1082078
SW846 3005A	ICP-TRACE SW846 3005A	LYH1	03/16/11	0920	1082081
SW846 3510C	3510C BNA Liq. Prep-8270 Analysis	VYQ1	03/11/11	2146	1082386
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	TXB3	03/18/11	1205	1082147
SW846 8151A	8151A Herbicide Prep	JXC7	03/14/11	1528	1082522

The following Analytical Methods were performed

Method	Description	Analyst Comments

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Certificate of Analysis

Report Date: March 30, 2011

Company : Brookhaven National Laboratory
Address : Building 462

Upton, New York 11973--5000
Contact: Mr. John Burke
Project: ES SPDES - Summary

Client Sample ID:	31025-002	Project:	BRKL00604
Sample ID:	273701002	Client ID:	BRKL006
Matrix:	W	COC:	31025
Collect Date:	09-MAR-11 11:10	Samp Recv.:	
Receive Date:	10-MAR-11 09:00	Client Desc.:	STP Effluent
Collector:	Client	Vol. Recv.:	

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
SW9012A Cyanide, Total "As Received"											
Cyanide, Total	U	ND	1.70	5.00	ug/L	1	SDS	03/15/11	0827	1082259	1
Semi-Volatiles-Pesticide											
608/3510C Pest/PCB Liquid Fed "As Received"											
4,4'-DDD	U	ND	0.00194	0.00777	ug/L	2	RXE1	03/22/11	2020	1082361	2
4,4'-DDE	U	ND	0.000971	0.00777	ug/L	2					
4,4'-DDT	U	ND	0.00194	0.00777	ug/L	2					
Aldrin	U	ND	0.000971	0.00388	ug/L	2					
Aroclor-1016	U	ND	0.0323	0.0971	ug/L	2					
Aroclor-1221	U	ND	0.0323	0.0971	ug/L	2					
Aroclor-1232	U	ND	0.0323	0.0971	ug/L	2					
Aroclor-1242	U	ND	0.0323	0.0971	ug/L	2					
Aroclor-1248	U	ND	0.0323	0.0971	ug/L	2					
Aroclor-1254	U	ND	0.0323	0.0971	ug/L	2					
Aroclor-1260	U	ND	0.0323	0.0971	ug/L	2					
Chlordane (tech.)	U	ND	0.0149	0.0485	ug/L	2					
Dieldrin	U	ND	0.00194	0.00777	ug/L	2					
Endosulfan I	U	ND	0.000971	0.00388	ug/L	2					
Endosulfan II	U	ND	0.00194	0.00777	ug/L	2					
Endosulfan sulfate	U	ND	0.00194	0.00777	ug/L	2					
Endrin	U	ND	0.00194	0.00777	ug/L	2					
Endrin aldehyde	U	ND	0.000971	0.00777	ug/L	2					
Heptachlor	U	ND	0.000971	0.00388	ug/L	2					
Heptachlor epoxide	U	ND	0.000971	0.00388	ug/L	2					
Toxaphene	U	ND	0.0291	0.0971	ug/L	2					
alpha-BHC	U	ND	0.000971	0.00388	ug/L	2					
beta-BHC	U	ND	0.00117	0.00388	ug/L	2					
gamma-BHC (Lindane)	U	ND	0.000971	0.00388	ug/L	2					
delta-BHC		0.0271	0.000971	0.00388	ug/L	2	RXE1	03/22/11	2020	1082361	3
4,4'-DDD	Uh	ND	0.00194	0.00777	ug/L	2	RXE1	03/22/11	2221	1083705	4
4,4'-DDE	Uh	ND	0.000971	0.00777	ug/L	2					
4,4'-DDT	Uh	ND	0.00194	0.00777	ug/L	2					
Aldrin	Uh	ND	0.000971	0.00388	ug/L	2					
Aroclor-1016	Uh	ND	0.0323	0.0971	ug/L	2					
Aroclor-1221	Uh	ND	0.0323	0.0971	ug/L	2					
Aroclor-1232	Uh	ND	0.0323	0.0971	ug/L	2					
Aroclor-1242	Uh	ND	0.0323	0.0971	ug/L	2					
Aroclor-1248	Uh	ND	0.0323	0.0971	ug/L	2					

Outfall 001
3/9/11
Grab

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: March 30, 2011

Company : Brookhaven National Laboratory
Address : Building 462

Upton, New York 11973--5000
Contact: Mr. John Burke
Project: ES SPDES - Summary

Client Sample ID: 31025-002
Sample ID: 273701002

Project: BRKL00604
Client ID: BRKL006

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Volatile Organics											
EPA 624 Method List "As Received"											
Bromomethane	U	ND	0.300	1.00	ug/L	1					
Carbon tetrachloride	U	ND	0.300	1.00	ug/L	1					
Chlorobenzene	U	ND	0.250	1.00	ug/L	1					
Chloroethane	U	ND	0.300	1.00	ug/L	1					
Chloroform	U	ND	0.250	1.00	ug/L	1					
Chloromethane	U	ND	0.300	1.00	ug/L	1					
Dibromochloromethane	U	ND	0.300	1.00	ug/L	1					
Ethylbenzene	U	ND	0.250	1.00	ug/L	1					
Methylene chloride	U	ND	2.00	2.00	ug/L	1					
Tetrachloroethylene	U	ND	0.300	1.00	ug/L	1					
Toluene	U	ND	0.250	1.00	ug/L	1					
Trichloroethylene	U	ND	0.250	1.00	ug/L	1					
Trichlorofluoromethane	U	ND	0.300	1.00	ug/L	1					
Vinyl chloride	U	ND	0.500	1.00	ug/L	1					
cis-1,3-Dichloropropylene	U	ND	0.250	1.00	ug/L	1					
tert-Butyl methyl ether	U	ND	0.250	5.00	ug/L	1					
trans-1,2-Dichloroethylene	U	ND	0.300	1.00	ug/L	1					
trans-1,3-Dichloropropylene	U	ND	0.250	1.00	ug/L	1					

Outfall 001
3/9/11
Grab

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3510C	3510C-608 PEST/PCB Prep Liquid	RXC1	03/11/11	1245	1082359
SW846 3510C	3510C-608 PEST/PCB Prep Liquid	SXC2	03/17/11	1447	1083704
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/14/11	1437	1082256

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	
2	EPA 608	
3	EPA 608	
4	EPA 608	
5	EPA 608	
6	EPA 624	

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: March 30, 2011

Company : Brookhaven National Laboratory
Address : Building 462

Upton, New York 11973--5000
Contact: Mr. John Burke
Project: ES SPDES - Summary

Client Sample ID:	31025-003	Project:	BRKL00604
Sample ID:	273701003	Client ID:	BRKL006
Matrix:	W	COC:	31025
Collect Date:	09-MAR-11 11:40	Samp Recv.:	
Receive Date:	10-MAR-11 09:00	Client Desc.:	STP Influent
Collector:	Client	Vol. Recv.:	

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA											
7470 Cold Vapor Hg Liquid "As Received"											
Mercury	U	ND	0.066	0.200	ug/L	1	JXL1	03/22/11	0953	1082148	1
Metals Analysis-ICP											
6010 TAL Metals Liquid "As Received"											
Aluminum		520	68.0	200	ug/L	1	CYL1	03/16/11	1743	1082082	2
Antimony	U	ND	3.50	60.0	ug/L	1					
Barium	J	89.1	1.00	200	ug/L	1					
Beryllium	U	ND	1.00	5.00	ug/L	1					
Cadmium	J	1.95	1.00	5.00	ug/L	1					
Calcium		23200	50.0	5000	ug/L	1					
Chromium	J	3.58	1.00	10.0	ug/L	1					
Cobalt	J	2.68	1.00	50.0	ug/L	1					
Copper		101	3.00	25.0	ug/L	1					
Iron		1620	30.0	100	ug/L	1					
Magnesium		6060	110	5000	ug/L	1					
Manganese		35.5	2.00	15.0	ug/L	1					
Nickel	J	10.9	1.50	40.0	ug/L	1					
Potassium		6960	50.0	5000	ug/L	1					
Silver	J	2.39	1.00	10.0	ug/L	1					
Sodium		60000	100	5000	ug/L	1					
Tin	U	ND	2.50	10.0	ug/L	1					
Vanadium	J	14.6	1.00	50.0	ug/L	1					
Zinc		138	3.30	20.0	ug/L	1					
Metals Analysis-ICP-MS											
3005/6020 Arsenic "As Received"											
Lead		16.4	0.500	10.0	ug/L	1	BAJ	03/17/11	2236	1082079	3
Thallium	U	ND	0.450	20.0	ug/L	1					
Arsenic	U	ND	1.70	15.0	ug/L	1	BAJ	03/21/11	1623	1082079	4
Selenium	U	ND	1.50	15.0	ug/L	1					
Solids Analysis											
SM 2540D Total Suspended Liq "As Received"											
Total Suspended Solids		92.0	5.70	25.0	mg/L		LYG1	03/11/11	1053	1082300	5

STP Influent
3/9/11
24 hour composite

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005 PREP	LYH1	03/16/11	0920	1082078

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: March 30, 2011

Company :	Brookhaven National Laboratory
Address :	Building 462
	Upton, New York 11973--5000
Contact:	Mr. John Burke
Project:	ES SPDES - Summary

Client Sample ID:	31025-002	Project:	BRKL00604
Sample ID:	273823001	Client ID:	BRKL006
Matrix:	W	COC:	31025
Collect Date:	09-MAR-11 11:10	Samp Recv.:	
Receive Date:	10-MAR-11 09:00	Client Desc.:	STP Effluent
Collector:	Client	Vol. Recv.:	

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA											
EPA 1631 Low Level Mercury Analysis "As Received"											
Mercury		48.1	2.00	5.00	ng/L	10	ETL	03/29/11	0855	1082607	1

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 1631E	

Outfall 001
Sampled 3/9/11

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: April 1, 2011

Company : Brookhaven National Laboratory
Address : Building 462

Upton, New York 11973--5000
Contact: Mr. John Burke
Project: ES SPDES - Summary

Client Sample ID:	31033-001	Project:	BRKL00604
Sample ID:	273885001	Client ID:	BRKL006
Matrix:	w	COC:	31033
Collect Date:	11-MAR-11 10:00	Samp Recv.:	
Receive Date:	12-MAR-11 09:25	Client Desc.:	STP Effluent
Collector:	Client	Vol. Recv.:	

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA											
7470 Cold Vapor Hg Liquid "As Received"											
Mercury	U	ND	0.066	0.200	ug/L	1	JXL1	03/30/11	1253	1084073	1
Metals Analysis-ICP											
6010 TAL Metals Liquid "As Received"											
Aluminum	U	ND	68.0	200	ug/L	1	HSC	03/18/11	1018	1082908	2
Antimony	U	ND	3.50	60.0	ug/L	1					
Barium	J	25.2	1.00	200	ug/L	1					
Beryllium	U	ND	1.00	5.00	ug/L	1					
Cadmium	U	ND	1.00	5.00	ug/L	1					
Calcium		17400	50.0	5000	ug/L	1					
Chromium	U	ND	1.00	10.0	ug/L	1					
Cobalt	J	1.23	1.00	50.0	ug/L	1					
Copper		31.9	3.00	25.0	ug/L	1					
Iron		188	30.0	100	ug/L	1					
Magnesium	J	4280	110	5000	ug/L	1					
Manganese	U	ND	2.00	15.0	ug/L	1					
Nickel	J	3.25	1.50	40.0	ug/L	1					
Potassium		7430	50.0	5000	ug/L	1					
Silver	J	1.25	1.00	10.0	ug/L	1					
Sodium		50300	100	5000	ug/L	1					
Tin	U	ND	2.50	10.0	ug/L	1					
Vanadium	J	1.39	1.00	50.0	ug/L	1					
Zinc		60.3	3.30	20.0	ug/L	1					
Metals Analysis-ICP-MS											
3005/6020 Arsenic "As Received"											
Arsenic	U	ND	1.70	15.0	ug/L	1	BAJ	03/24/11	1706	1082903	3
Lead	J	2.40	0.500	10.0	ug/L	1					
Selenium	U	ND	1.50	15.0	ug/L	1					
Thallium	U	ND	0.450	20.0	ug/L	1					
Nutrient Analysis											
EPA 365.4 Phosphorus, Total in "As Received"											
Phosphorus, Total as P		1.44	0.015	0.050	mg/L	1	KLP1	03/18/11	1522	1083818	4
Semi-Volatile-GC/MS											
3510C/8270C BNA Liquid "As Received"											
1,2,4-Trichlorobenzene	U	ND	1.92	10.0	ug/L	1	JMB3	03/18/11	1353	1083822	5
1,2-Dichlorobenzene	U	ND	1.92	10.0	ug/L	1					
1,3-Dichlorobenzene	U	ND	1.92	10.0	ug/L	1					

Outfall 001
Sampled 3/11/11
24 hour
composite

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: April 1, 2011

Company : Brookhaven National Laboratory
Address : Building 462

Upton, New York 11973--5000
Contact: Mr. John Burke
Project: ES SPDES - Summary

Client Sample ID: 31033-001 Project: BRKL00604
Sample ID: 273885001 Client ID: BRKL006

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Semi-Volatile-GC/MS											
3510C/8270C BNA Liquid "As Received"											
Indeno(1,2,3-cd)pyrene	U	ND	0.192	10.0	ug/L	1					
Isophorone	U	ND	2.88	10.0	ug/L	1					
N-Methyl-N-nitrosomethylamine	U	ND	1.92	10.0	ug/L	1					
N-Nitrosodipropylamine	U	ND	1.92	10.0	ug/L	1					
Naphthalene	U	ND	0.288	10.0	ug/L	1					
Nitrobenzene	U	ND	2.88	10.0	ug/L	1					
Pentachlorophenol	U	ND	1.92	50.0	ug/L	1					
Phenanthrene	U	ND	0.192	10.0	ug/L	1					
Phenol	U	ND	0.962	10.0	ug/L	1					
Pyrene	U	ND	0.288	10.0	ug/L	1					
bis(2-Chloroethoxy)methane	U	ND	2.88	10.0	ug/L	1					
bis(2-Chloroethyl) ether	U	ND	1.92	10.0	ug/L	1					
bis(2-Chloroisopropyl)ether	U	ND	1.92	10.0	ug/L	1					
bis(2-Ethylhexyl)phthalate	U	ND	1.92	10.0	ug/L	1					
Semi-Volatiles-HERB											
8151A Herbicide H2O% "As Received"											
2,4,5-TP	U	ND	0.0874	0.263	ug/L	1	TXK2	03/24/11	0118	1083813	6
2,4-D	U	ND	0.0874	0.263	ug/L	1					
2,4,5-T	J	0.128	0.0874	0.263	ug/L	1	TXK2	03/24/11	0118	1083813	7
Solids Analysis											
SM 2540D Total Suspended Liq "As Received"											
Total Suspended Solids	U	ND	0.570	2.50	mg/L		LYG1	03/16/11	1339	1083636	8

Outfall 001
Sampled 3/11/11
24 hour
Composite

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 365.4 Prep	EPA 365.4 Phosphorus, Total in liquid PR	AXS5	03/17/11	1700	1083817
SW846 3005A	ICP-MS 3005 PREP	LYH1	03/17/11	0830	1082901
SW846 3005A	ICP-TRACE SW846 3005A	LYH1	03/17/11	0830	1082907
SW846 3510C	3510C BNA Liq. Prep-8270 Analysis	AXW1	03/17/11	2247	1083821
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	TXB3	03/29/11	1315	1084072
SW846 8151A	8151A Herbicide Prep	AXW1	03/17/11	2219	1083812

The following Analytical Methods were performed

Method	Description	Analyst Comments

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: April 1, 2011

Company : Brookhaven National Laboratory
Address : Building 462

Upton, New York 11973--5000
Contact: Mr. John Burke
Project: ES SPDES - Summary

Client Sample ID:	31033-002	Project:	BRKL00604
Sample ID:	273885002	Client ID:	BRKL006
Matrix:	w	COC:	31033
Collect Date:	11-MAR-11 11:10	Samp Recv.:	
Receive Date:	12-MAR-11 09:25	Client Desc.:	STP Effluent
Collector:	Client	Vol. Recv.:	

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
SW9012A Cyanide, Total "As Received"											
Cyanide, Total	U	ND	1.70	5.00	ug/L	1	SDS	03/17/11	0846	1083426	1
Semi-Volatiles-Pesticide											
608/3510C Pest/PCB Liquid Fed "As Received"											
4,4'-DDD	U	ND	0.00099	0.00396	ug/L	1	RXE1	03/22/11	2238	1083705	2
4,4'-DDE	U	ND	0.000495	0.00396	ug/L	1					
4,4'-DDT	U	ND	0.00099	0.00396	ug/L	1					
Aldrin	U	ND	0.000495	0.00198	ug/L	1					
Aroclor-1016	U	ND	0.0165	0.065	ug/L	1					
Aroclor-1221	U	ND	0.0165	0.065	ug/L	1					
Aroclor-1232	U	ND	0.0165	0.065	ug/L	1					
Aroclor-1242	U	ND	0.0165	0.065	ug/L	1					
Aroclor-1248	U	ND	0.0165	0.065	ug/L	1					
Aroclor-1254	U	ND	0.0165	0.065	ug/L	1					
Aroclor-1260	U	ND	0.0165	0.065	ug/L	1					
Chlordane (tech.)	U	ND	0.00757	0.0248	ug/L	1					
Dieldrin	U	ND	0.00099	0.00396	ug/L	1					
Endosulfan I	U	ND	0.000495	0.00198	ug/L	1					
Endosulfan II	U	ND	0.00099	0.00396	ug/L	1					
Endosulfan sulfate	U	ND	0.00099	0.00396	ug/L	1					
Endrin	U	ND	0.00099	0.00396	ug/L	1					
Endrin aldehyde	U	ND	0.000495	0.00396	ug/L	1					
Heptachlor	U	ND	0.000495	0.00198	ug/L	1					
Heptachlor epoxide	U	ND	0.000495	0.00198	ug/L	1					
Toxaphene	U	ND	0.0149	0.0495	ug/L	1					
alpha-BHC	U	ND	0.000495	0.00198	ug/L	1					
beta-BHC	U	ND	0.000594	0.00198	ug/L	1					
gamma-BHC (Lindane)	U	ND	0.000495	0.00198	ug/L	1					
delta-BHC		0.027	0.000495	0.00198	ug/L	1	RXE1	03/22/11	2238	1083705	3
Volatile Organics											
EPA 624 Method List "As Received"											
1,1,1-Trichloroethane	U	ND	0.325	1.00	ug/L	1	SYK1	03/17/11	2141	1084023	4
1,1,2,2-Tetrachloroethane	U	ND	0.250	1.00	ug/L	1					
1,1,2-Trichloroethane	U	ND	0.250	1.00	ug/L	1					
1,1-Dichloroethane	U	ND	0.300	1.00	ug/L	1					
1,1-Dichloroethylene	U	ND	0.300	1.00	ug/L	1					
1,2-Dichlorobenzene	U	ND	0.250	1.00	ug/L	1					
1,2-Dichloroethane	U	ND	0.250	1.00	ug/L	1					

Outfall 001
3/11/11
Grab

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: April 1, 2011

Company : Brookhaven National Laboratory
Address : Building 462

Upton, New York 11973--5000
Contact: Mr. John Burke
Project: ES SPDES - Summary

Client Sample ID: 31033-002
Sample ID: 273885002

Project: BRKL00604
Client ID: BRKL006

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	
2	EPA 608	
3	EPA 608	
4	EPA 624	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
4cmx	608/3510C Pest/PCB Liquid Fed "As Received"	0.0754 ug/L	0.099	76.2	(30%-111%)
Decachlorobiphenyl	608/3510C Pest/PCB Liquid Fed "As Received"	0.0558 ug/L	0.099	56.3	(30%-124%)
1,2-Dichloroethane-d4	EPA 624 Method List "As Received"	53.0 ug/L	50.0	106	(71%-130%)
Bromofluorobenzene	EPA 624 Method List "As Received"	50.3 ug/L	50.0	101	(80%-120%)
Toluene-d8	EPA 624 Method List "As Received"	54.1 ug/L	50.0	108	(80%-120%)

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: March 30, 2011

Company :	Brookhaven National Laboratory
Address :	Building 462
	Upton, New York 11973--5000
Contact:	Mr. John Burke
Project:	ES SPDES - Summary

Client Sample ID:	31033-002	Project:	BRKL00604
Sample ID:	273880001	Client ID:	BRKL006
Matrix:	W	COC:	31033
Collect Date:	11-MAR-11 10:10	Samp Recv.:	
Receive Date:	12-MAR-11 09:17	Client Desc.:	STP Effluent
Collector:	Client	Vol. Recv.:	

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA											
EPA 1631 Low Level Mercury Analysis "As Received"											
Mercury		47.5	2.00	5.00	ng/L	10	ETL	03/30/11	0720	1083081	1

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 1631E	

Outfall 001
Sampled 3/11/11

CHEMTEX
Environmental & Industrial Hygiene Services

3082 25th Street, Port Arthur, Texas 77642 • (409) 983-4575 FAX (409) 982-1522
5544 Leopard Street, Corpus Christi, Texas 78408 • (361) 299-9900 FAX (361) 299-1155
138 S. Cities Service Hwy., Sulphur, Louisiana 70663 • (337) 626-2121 FAX (337) 626-2126

Client: Brookhaven National Laboratory
Safety & Environmental Protection Division
Bldg. 535A
Upton, NY 11973-5000

Attn: Mr. B. Lee
Phone: 1-631-344-3148
E-mail: blee@bnl.gov

Reporting Date: 03/17/11
Sample Matrix: Water
Date Collected: 03/07/11
Time Collected: See Below
Collected by: Client
Date Received: 03/08/11
Time Received: 10:20am
CHEMTEX File #: P11030353

RESULTS OF ANALYSIS
PROJECT NAME: ES SPDES
CHAIN OF CUSTODY NO: 31015

CHEMTEX ID	Sample ID	Parameter	Units	Results	RL	Qual
P11030353	STP Effluent (11:00)	HEDP as Organic Phosphorus	mg/l	<0.05	0.05	
		Inorganic Phosphorus	mg/l	1.23	0.25	
		Total Phosphorus	mg/l	1.34	0.25	
		Tolytriazole(TTA)	mg/l	<0.005	0.005	
P11030354	FB-1 (10:00)	HEDP as Organic Phosphorus	mg/l	<0.05	0.05	
		Inorganic Phosphorus	mg/l	<0.05	0.05	
		Total Phosphorus	mg/l	<0.05	0.05	
		Tolytriazole(TTA)	mg/l	<0.005	0.005	

RL: Reporting Limit.

Qualifier Definition:

LABORATORY QUALITY CONTROL DATA
Method References/Analysis Dates & Analysts

Parameter	Method Reference	Date Analyzed/Analyzed By
Phosphorus	EPA Method 365.3	03/09/11 YS
Tolytriazole(TTA)	SOP#: O121-049	03/08/11 SPR

Outfall 001
Sampled 3/7/11

NOTICE/DISCLAIMER: The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. No person or entity other than the client may relay on this report. Any such reliance will be unjustified. Any person other than the client, that reads this report does so at his or her own risk. The analytical results, opinions and/or interpretations expressed herein represent the best judgement of Chemtex, based on the information and instructions received from the client. Chemtex makes no warranty or representation, express or implied, of any type, and expressly disclaims same. This report shall not be reproduced, in whole or in part, without the written approval of Chemtex. In no event shall Chemtex be responsible for any damage greater than the amount that it received for the analysis per formed.

ATTACHMENT IV

BROOKHAVEN NATIONAL LABORATORY

SPDES PERMIT NO. NY0005835

DISCHARGE MONITORING REPORT FOR MARCH 2011

ANALYTICAL RESULTS FROM H2M LABS INC.,

GENERAL ENGINEERING LABORATORIES, LLC,

AND CHEMTEX, ENVIRONMENTAL LABORATORY, INC.

FOR REGULATORY COMPLIANCE SAMPLES COLLECTED FROM

OUTFALLS 001A, 001B, 001F, 002, 002B, 005, 006A, 006B, 008, AND 010

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	271040	Date Collected:	01/24/2011 13:50	Matrix:	W
Lab Sample ID:	271040001	Date Received:	01/26/2011 09:15		
Client Sample:	535-PCB	Client:	BRKL006	Project:	BRKL00604
Client ID:	30901-001	Method:	EPA 625	SOP Ref:	GL-OA-E-009
Batch ID:	1068648	Inst:	MSD4.I	Dilution:	1
Run Date:	01/28/2011 13:23	Analyst:	JMB3	Inj. Vol:	1 uL
Prep Date:	01/27/2011 19:38	Aliquot:	1000 mL	Final Volume:	1 mL
Data File:	S012811.B\s4a2810.D	Column:	DB-5ms		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	RDL
62-75-9	N-Methyl-N-nitrosomethylamine	U	10.0	ug/L	2.00	10.0	10.0
108-95-2	Phenol	U	10.0	ug/L	1.00	10.0	10.0
111-44-4	bis(2-Chloroethyl) ether	U	10.0	ug/L	2.00	10.0	10.0
95-57-8	2-Chlorophenol	U	10.0	ug/L	2.00	10.0	10.0
541-73-1	1,3-Dichlorobenzene	U	10.0	ug/L	2.00	10.0	10.0
106-46-7	1,4-Dichlorobenzene	U	10.0	ug/L	2.00	10.0	10.0
95-50-1	1,2-Dichlorobenzene	U	10.0	ug/L	2.00	10.0	10.0
108-60-1	bis(2-Chloroisopropyl)ether	U	10.0	ug/L	2.00	10.0	10.0
621-64-7	N-Nitrosodipropylamine	U	10.0	ug/L	2.00	10.0	10.0
67-72-1	Hexachloroethane	U	10.0	ug/L	2.00	10.0	10.0
98-95-3	Nitrobenzene	U	10.0	ug/L	3.00	10.0	10.0
78-59-1	Isophorone	U	10.0	ug/L	3.00	10.0	10.0
88-75-5	2-Nitrophenol	U	10.0	ug/L	2.00	10.0	10.0
105-67-9	2,4-Dimethylphenol	U	10.0	ug/L	2.00	10.0	10.0
111-91-1	bis(2-Chloroethoxy)methane	U	10.0	ug/L	3.00	10.0	10.0
120-83-2	2,4-Dichlorophenol	U	10.0	ug/L	2.00	10.0	10.0
87-68-3	Hexachlorobutadiene	U	10.0	ug/L	2.00	10.0	10.0
59-50-7	4-Chloro-3-methylphenol	U	10.0	ug/L	2.00	10.0	10.0
91-20-3	Naphthalene	U	1.00	ug/L	0.300	1.00	10.0
77-47-4	Hexachlorocyclopentadiene	U	10.0	ug/L	3.00	10.0	10.0
88-06-2	2,4,6-Trichlorophenol	U	10.0	ug/L	2.00	10.0	10.0
91-58-7	2-Chloronaphthalene	U	1.00	ug/L	0.300	1.00	10.0
131-11-3	Dimethylphthalate	U	10.0	ug/L	2.00	10.0	10.0
606-20-2	2,6-Dinitrotoluene	U	10.0	ug/L	2.00	10.0	10.0
121-14-2	2,4-Dinitrotoluene	U	10.0	ug/L	2.00	10.0	10.0
208-96-8	Acenaphthylene	U	1.00	ug/L	0.200	1.00	10.0
83-32-9	Acenaphthene	U	1.00	ug/L	0.310	1.00	10.0
51-28-5	2,4-Dinitrophenol	U	20.0	ug/L	5.00	20.0	50.0
84-66-2	Diethylphthalate	U	10.0	ug/L	2.00	10.0	10.0
100-02-7	4-Nitrophenol	U	10.0	ug/L	2.00	10.0	50.0
86-73-7	Fluorene	U	1.00	ug/L	0.200	1.00	10.0
7005-72-3	4-Chlorophenylphenylether	U	10.0	ug/L	2.00	10.0	10.0
534-52-1	2-Methyl-4,6-dinitrophenol	U	10.0	ug/L	3.00	10.0	50.0
122-39-4	Diphenylamine	U	10.0	ug/L	3.00	10.0	10.0
101-55-3	4-Bromophenylphenylether	U	10.0	ug/L	2.00	10.0	10.0
118-74-1	Hexachlorobenzene	U	10.0	ug/L	2.00	10.0	10.0
87-86-5	Pentachlorophenol	U	10.0	ug/L	2.00	10.0	50.0
85-01-8	Phenanthrene	U	1.00	ug/L	0.200	1.00	10.0

Building 535 PCB Lab

1/24/11

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	271040	Date Collected:	01/24/2011 13:50	Matrix:	W
Lab Sample ID:	271040001	Date Received:	01/26/2011 09:15		
Client Sample:	535-PCB	Client:	BRKL006	Project:	BRKL00604
Client ID:	30901-001	Method:	EPA 625	SOP Ref:	GL-OA-E-009
Batch ID:	1068648	Inst:	MSD4.I	Dilution:	1
Run Date:	01/28/2011 13:23	Analyst:	JMB3	Inj. Vol:	1 uL
Prep Date:	01/27/2011 19:38	Aliquot:	1000 mL	Final Volume:	1 mL
Data File:	S012811.B\s4a2810.D	Column:	DB-5ms		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	RDL
120-12-7	Anthracene	U	1.00	ug/L	0.200	1.00	10.0
84-74-2	Di-n-butylphthalate	U	10.0	ug/L	2.00	10.0	10.0
206-44-0	Fluoranthene	U	1.00	ug/L	0.200	1.00	10.0
129-00-0	Pyrene	U	1.00	ug/L	0.300	1.00	10.0
85-68-7	Butylbenzylphthalate	U	10.0	ug/L	2.00	10.0	10.0
117-81-7	bis(2-Ethylhexyl)phthalate	U	10.0	ug/L	2.00	10.0	10.0
56-55-3	Benzo(a)anthracene	U	1.00	ug/L	0.200	1.00	10.0
218-01-9	Chrysene	U	1.00	ug/L	0.200	1.00	10.0
117-84-0	Di-n-octylphthalate	U	10.0	ug/L	3.00	10.0	10.0
205-99-2	Benzo(b)fluoranthene	U	1.00	ug/L	0.200	1.00	10.0
207-08-9	Benzo(k)fluoranthene	U	1.00	ug/L	0.200	1.00	10.0
50-32-8	Benzo(a)pyrene	U	1.00	ug/L	0.200	1.00	10.0
193-39-5	Indeno(1,2,3-cd)pyrene	U	1.00	ug/L	0.200	1.00	10.0
53-70-3	Dibenzo(a,h)anthracene	U	1.00	ug/L	0.200	1.00	10.0
191-24-2	Benzo(ghi)perylene	U	1.00	ug/L	0.200	1.00	10.0
91-94-1	3,3'-Dichlorobenzidine	U	10.0	ug/L	2.00	10.0	40.0
120-82-1	1,2,4-Trichlorobenzene	U	10.0	ug/L	2.00	10.0	10.0

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	271040	Date Collected:	01/24/2011 00:00	Matrix:	W
Lab Sample ID:	271040002	Date Received:	01/26/2011 09:15		
Client Sample:	BD-1	Client:	BRKL006	Project:	BRKL00604
Client ID:	30901-002	Method:	EPA 625	SOP Ref:	GL-OA-E-009
Batch ID:	1068648	Inst:	MSD4.I	Dilution:	1
Run Date:	01/28/2011 14:41	Analyst:	JMB3	Inj. Vol:	1 uL
Prep Date:	01/27/2011 19:38	Aliquot:	1040 mL	Final Volume:	1 mL
Data File:	S012811.B\s4a2813.D	Column:	DB-5ms		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	RDL
120-12-7	Anthracene	U	0.962	ug/L	0.192	0.962	10.0
84-74-2	Di-n-butylphthalate	U	9.62	ug/L	1.92	9.62	10.0
206-44-0	Fluoranthene	U	0.962	ug/L	0.192	0.962	10.0
129-00-0	Pyrene	U	0.962	ug/L	0.288	0.962	10.0
85-68-7	Butylbenzylphthalate	U	9.62	ug/L	1.92	9.62	10.0
117-81-7	bis(2-Ethylhexyl)phthalate	U	9.62	ug/L	1.92	9.62	10.0
56-55-3	Benzo(a)anthracene	U	0.962	ug/L	0.192	0.962	10.0
218-01-9	Chrysene	U	0.962	ug/L	0.192	0.962	10.0
117-84-0	Di-n-octylphthalate	U	9.62	ug/L	2.88	9.62	10.0
205-99-2	Benzo(b)fluoranthene	U	0.962	ug/L	0.192	0.962	10.0
207-08-9	Benzo(k)fluoranthene	U	0.962	ug/L	0.192	0.962	10.0
50-32-8	Benzo(a)pyrene	U	0.962	ug/L	0.192	0.962	10.0
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.962	ug/L	0.192	0.962	10.0
53-70-3	Dibenzo(a,h)anthracene	U	0.962	ug/L	0.192	0.962	10.0
191-24-2	Benzo(ghi)perylene	U	0.962	ug/L	0.192	0.962	10.0
91-94-1	3,3'-Dichlorobenzidine	U	9.62	ug/L	1.92	9.62	40.0
120-82-1	1,2,4-Trichlorobenzene	U	9.62	ug/L	1.92	9.62	10.0

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 271040 METHOD TYPE: SW846

SAMPLE ID: 271040001 CLIENT ID: 30901-001

CONTRACT: BRKL00604

MATRIX: W DATE RECEIVED 26-JAN-11 LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	MDL	DF	Instrument ID	Analytical Run
7429-90-5	Aluminum	68	ug/L	U		P	68	1	OPTIMA4	020311A-1
7440-36-0	Antimony	3.5	ug/L	U		P	3.5	1	OPTIMA4	020311A-1
7440-38-2	Arsenic	1.7	ug/L	U		MS	1.7	1	ICPMS5	110222-3
7440-39-3	Barium	28.8	ug/L	B		P	1	1	OPTIMA4	020311A-1
7440-41-7	Beryllium	1	ug/L	U		P	1	1	OPTIMA4	020311A-1
7440-43-9	Cadmium	1	ug/L	U		P	1	1	OPTIMA4	020311A-1
7440-70-2	Calcium	8280	ug/L			P	50	1	OPTIMA4	020311A-1
7440-47-3	Chromium	1	ug/L	U		P	1	1	OPTIMA4	020311A-1
7440-48-4	Cobalt	1	ug/L	U		P	1	1	OPTIMA4	020311A-1
7440-50-8	Copper	82.4	ug/L			P	3	1	OPTIMA4	020311A-1
7439-89-6	Iron	65	ug/L	B		P	30	1	OPTIMA4	020311A-1
7439-92-1	Lead	18.8	ug/L			MS	0.5	1	ICPMS5	110222-3
7439-95-4	Magnesium	2850	ug/L	B		P	110	1	OPTIMA4	020311A-1
7439-96-5	Manganese	261	ug/L			P	2	1	OPTIMA4	020311A-1
7439-97-6	Mercury	0.066	ug/L	U		AV	0.066	1	HG3	020111W1-4
7440-02-0	Nickel	2.62	ug/L	B		P	1.5	1	OPTIMA4	020311A-1
7440-09-7	Potassium	1140	ug/L	B		P	50	1	OPTIMA4	020411-2
7782-49-2	Selenium	1.5	ug/L	U		MS	1.5	1	ICPMS5	110222-3
7440-22-4	Silver	1	ug/L	U		P	1	1	OPTIMA4	020311A-1
7440-23-5	Sodium	26400	ug/L			P	100	1	OPTIMA4	020311A-1
7440-28-0	Thallium	0.45	ug/L	U		MS	0.45	1	ICPMS5	110222-3
7440-31-5	Tin	38.9	ug/L			P	2.5	1	OPTIMA4	020311A-1
7440-62-2	Vanadium	1	ug/L	U		P	1	1	OPTIMA4	020311A-1
7440-66-6	Zinc	104	ug/L			P	3.3	1	OPTIMA4	020311A-1

Building 535 PCB Lab
1/24/11

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 271040 METHOD TYPE: SW846

SAMPLE ID: 271040002 CLIENT ID: 30901-002

CONTRACT: BRKL00604

MATRIX:W DATE RECEIVED 26-JAN-11 LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	MDL	DF	Instrument ID	Analytical Run
7429-90-5	Aluminum	68	ug/L	U		P	68	1	OPTIMA4	020311A-1
7440-36-0	Antimony	3.5	ug/L	U		P	3.5	1	OPTIMA4	020311A-1
7440-38-2	Arsenic	1.7	ug/L	U		MS	1.7	1	ICPMS5	110222-3
7440-39-3	Barium	27.7	ug/L	B		P	1	1	OPTIMA4	020311A-1
7440-41-7	Beryllium	1	ug/L	U		P	1	1	OPTIMA4	020311A-1
7440-43-9	Cadmium	1	ug/L	U		P	1	1	OPTIMA4	020311A-1
7440-70-2	Calcium	8140	ug/L			P	50	1	OPTIMA4	020311A-1
7440-47-3	Chromium	1	ug/L	U		P	1	1	OPTIMA4	020311A-1
7440-48-4	Cobalt	1	ug/L	U		P	1	1	OPTIMA4	020311A-1
7440-50-8	Copper	83.6	ug/L			P	3	1	OPTIMA4	020311A-1
7439-89-6	Iron	58.7	ug/L	B		P	30	1	OPTIMA4	020311A-1
7439-92-1	Lead	15.1	ug/L			MS	0.5	1	ICPMS5	110222-3
7439-95-4	Magnesium	2780	ug/L	B		P	110	1	OPTIMA4	020311A-1
7439-96-5	Manganese	271	ug/L			P	2	1	OPTIMA4	020311A-1
7439-97-6	Mercury	0.066	ug/L	U		AV	0.066	1	HG3	020111W1-4
7440-02-0	Nickel	9.18	ug/L	B		P	1.5	1	OPTIMA4	020311A-1
7440-09-7	Potassium	1060	ug/L	B		P	50	1	OPTIMA4	020411-2
7782-49-2	Selenium	1.5	ug/L	U		MS	1.5	1	ICPMS5	110222-3
7440-22-4	Silver	1	ug/L	U		P	1	1	OPTIMA4	020311A-1
7440-23-5	Sodium	25900	ug/L			P	100	1	OPTIMA4	020311A-1
7440-28-0	Thallium	0.45	ug/L	U		MS	0.45	1	ICPMS5	110222-3
7440-31-5	Tin	49.2	ug/L			P	2.5	1	OPTIMA4	020311A-1
7440-62-2	Vanadium	1	ug/L	U		P	1	1	OPTIMA4	020311A-1
7440-66-6	Zinc	165	ug/L			P	3.3	1	OPTIMA4	020311A-1

Building 535 PCB Lab
Blind Duplicate
1/24/11

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	270848	Date Collected:	01/20/2011 11:15	Matrix:	W
Lab Sample ID:	270848001	Date Received:	01/21/2011 10:30		
Client Sample:	498-CF	Client:	BRKL006	Project:	BRKL00604
Client ID:	30893-001	Method:	EPA 625	SOP Ref:	GL-OA-E-009
Batch ID:	1067977	Inst:	MSD6.I	Dilution:	1
Run Date:	01/26/2011 14:12	Analyst:	JMB3	Inj. Vol:	1 uL
Prep Date:	01/25/2011 17:46	Aliquot:	1000 mL	Final Volume:	1 mL
Data File:	S012611.B\s6a2611.D	Column:	DB-5ms		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	RDL
62-75-9	N-Methyl-N-nitrosomethylamine	U	10.0	ug/L	2.00	10.0	10.0
108-95-2	Phenol	U	10.0	ug/L	1.00	10.0	10.0
111-44-4	bis(2-Chloroethyl) ether	U	10.0	ug/L	2.00	10.0	10.0
95-57-8	2-Chlorophenol	U	10.0	ug/L	2.00	10.0	10.0
541-73-1	1,3-Dichlorobenzene	U	10.0	ug/L	2.00	10.0	10.0
106-46-7	1,4-Dichlorobenzene	U	10.0	ug/L	2.00	10.0	10.0
95-50-1	1,2-Dichlorobenzene	U	10.0	ug/L	2.00	10.0	10.0
108-60-1	bis(2-Chloroisopropyl)ether	U	10.0	ug/L	2.00	10.0	10.0
621-64-7	N-Nitrosodipropylamine	U	10.0	ug/L	2.00	10.0	10.0
67-72-1	Hexachloroethane	U	10.0	ug/L	2.00	10.0	10.0
98-95-3	Nitrobenzene	U	10.0	ug/L	3.00	10.0	10.0
78-59-1	Isophorone	U	10.0	ug/L	3.00	10.0	10.0
88-75-5	2-Nitrophenol	U	10.0	ug/L	2.00	10.0	10.0
105-67-9	2,4-Dimethylphenol	U	10.0	ug/L	2.00	10.0	10.0
111-91-1	bis(2-Chloroethoxy)methane	U	10.0	ug/L	3.00	10.0	10.0
120-83-2	2,4-Dichlorophenol	U	10.0	ug/L	2.00	10.0	10.0
87-68-3	Hexachlorobutadiene	U	10.0	ug/L	2.00	10.0	10.0
59-50-7	4-Chloro-3-methylphenol	U	10.0	ug/L	2.00	10.0	10.0
91-20-3	Naphthalene	U	1.00	ug/L	0.300	1.00	10.0
77-47-4	Hexachlorocyclopentadiene	U	10.0	ug/L	3.00	10.0	10.0
88-06-2	2,4,6-Trichlorophenol	U	10.0	ug/L	2.00	10.0	10.0
91-58-7	2-Chloronaphthalene	U	1.00	ug/L	0.300	1.00	10.0
131-11-3	Dimethylphthalate	U	10.0	ug/L	2.00	10.0	10.0
606-20-2	2,6-Dinitrotoluene	U	10.0	ug/L	2.00	10.0	10.0
121-14-2	2,4-Dinitrotoluene	U	10.0	ug/L	2.00	10.0	10.0
208-96-8	Acenaphthylene	U	1.00	ug/L	0.200	1.00	10.0
83-32-9	Acenaphthene	U	1.00	ug/L	0.310	1.00	10.0
51-28-5	2,4-Dinitrophenol	U	20.0	ug/L	5.00	20.0	50.0
84-66-2	Diethylphthalate	U	10.0	ug/L	2.00	10.0	10.0
100-02-7	4-Nitrophenol	U	10.0	ug/L	2.00	10.0	50.0
86-73-7	Fluorene	U	1.00	ug/L	0.200	1.00	10.0
7005-72-3	4-Chlorophenylphenylether	U	10.0	ug/L	2.00	10.0	10.0
534-52-1	2-Methyl-4,6-dinitrophenol	U	10.0	ug/L	3.00	10.0	50.0
122-39-4	Diphenylamine	U	10.0	ug/L	3.00	10.0	10.0
101-55-3	4-Bromophenylphenylether	U	10.0	ug/L	2.00	10.0	10.0
118-74-1	Hexachlorobenzene	U	10.0	ug/L	2.00	10.0	10.0
87-86-5	Pentachlorophenol	U	10.0	ug/L	2.00	10.0	50.0
85-01-8	Phenanthrene	U	1.00	ug/L	0.200	1.00	10.0

Building 498 Cleaning Facility
1/20/11

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	270848	**Date Collected:**	01/20/2011 11:15	**Matrix:**	W
Lab Sample ID:	270848001	**Date Received:**	01/21/2011 10:30		
Client Sample:	498-CF	**Client:**	BRKL006	**Project:**	BRKL00604
Client ID:	30893-001	**Method:**	EPA 625	**SOP Ref:**	GL-OA-E-009
Batch ID:	1067977	**Inst:**	MSD6.I	**Dilution:**	1
Run Date:	01/26/2011 14:12	**Analyst:**	JMB3	**Inj. Vol:**	1 uL
Prep Date:	01/25/2011 17:46	**Aliquot:**	1000 mL	**Final Volume:**	1 mL
Data File:	S012611.B\s6a2611.D	**Column:**	DB-5ms		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	RDL
120-12-7	Anthracene	U	1.00	ug/L	0.200	1.00	10.0
84-74-2	Di-n-butylphthalate	U	10.0	ug/L	2.00	10.0	10.0
206-44-0	Fluoranthene	U	1.00	ug/L	0.200	1.00	10.0
129-00-0	Pyrene	U	1.00	ug/L	0.300	1.00	10.0
85-68-7	Butylbenzylphthalate	U	10.0	ug/L	2.00	10.0	10.0
117-81-7	bis(2-Ethylhexyl)phthalate	U	10.0	ug/L	2.00	10.0	10.0
56-55-3	Benzo(a)anthracene	U	1.00	ug/L	0.200	1.00	10.0
218-01-9	Chrysene	U	1.00	ug/L	0.200	1.00	10.0
117-84-0	Di-n-octylphthalate	U	10.0	ug/L	3.00	10.0	10.0
205-99-2	Benzo(b)fluoranthene	U	1.00	ug/L	0.200	1.00	10.0
207-08-9	Benzo(k)fluoranthene	U	1.00	ug/L	0.200	1.00	10.0
50-32-8	Benzo(a)pyrene	U	1.00	ug/L	0.200	1.00	10.0
193-39-5	Indeno(1,2,3-cd)pyrene	U	1.00	ug/L	0.200	1.00	10.0
53-70-3	Dibenzo(a,h)anthracene	U	1.00	ug/L	0.200	1.00	10.0
191-24-2	Benzo(ghi)perylene	U	1.00	ug/L	0.200	1.00	10.0
91-94-1	3,3'-Dichlorobenzidine	U	10.0	ug/L	2.00	10.0	40.0
120-82-1	1,2,4-Trichlorobenzene	U	10.0	ug/L	2.00	10.0	10.0

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 270848 **METHOD TYPE:** SW846

SAMPLE ID: 270848001 **CLIENT ID:** 30893-001

CONTRACT: BRKL00604

MATRIX: W **DATE RECEIVED** 21-JAN-11 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M	MDL	DF	Instrument ID	Analytical Run
7429-90-5	Aluminum	84.6	ug/L	B		P	68	1	OPTIMA1	012511B-1
7440-36-0	Antimony	3.5	ug/L	U		P	3.5	1	OPTIMA1	012511B-1
7440-38-2	Arsenic	1.7	ug/L	U		MS	1.7	1	ICPMS5	110214-3
7440-39-3	Barium	1.81	ug/L	B		P	1	1	OPTIMA1	012511B-1
7440-41-7	Beryllium	1	ug/L	U		P	1	1	OPTIMA1	012511B-1
7440-43-9	Cadmium	1	ug/L	U		P	1	1	OPTIMA1	012511B-1
7440-70-2	Calcium	240	ug/L	B		P	50	1	OPTIMA1	012511B-1
7440-47-3	Chromium	98	ug/L			P	1	1	OPTIMA1	012511B-1
7440-48-4	Cobalt	1	ug/L	U		P	1	1	OPTIMA1	012511B-1
7440-50-8	Copper	2710	ug/L			P	3	1	OPTIMA1	012511B-1
7439-89-6	Iron	972	ug/L			P	30	1	OPTIMA1	012511B-1
7439-92-1	Lead	5.81	ug/L	B		MS	0.5	1	ICPMS5	110211-2
7439-95-4	Magnesium	110	ug/L	U		P	110	1	OPTIMA1	012511B-1
7439-96-5	Manganese	8.02	ug/L	B		P	2	1	OPTIMA1	012511B-1
7439-97-6	Mercury	0.066	ug/L	U		AV	0.066	1	MER536	020111W2-4
7440-02-0	Nickel	43.9	ug/L			P	1.5	1	OPTIMA1	012511B-1
7440-09-7	Potassium	136	ug/L	B		P	50	1	OPTIMA1	012511B-1
7782-49-2	Selenium	1.5	ug/L	U		MS	1.5	1	ICPMS5	110211-2
7440-22-4	Silver	1	ug/L	U		P	1	1	OPTIMA1	012511B-1
7440-23-5	Sodium	16900	ug/L			P	100	1	OPTIMA1	012511B-1
7440-28-0	Thallium	0.45	ug/L	U		MS	0.45	1	ICPMS5	110211-2
7440-31-5	Tin	2.5	ug/L	U		P	2.5	1	OPTIMA1	012511B-1
7440-62-2	Vanadium	1	ug/L	U		P	1	1	OPTIMA1	012511B-1
7440-66-6	Zinc	15.1	ug/L	B		P	3.3	1	OPTIMA1	012511B-1

Building 498 Cleaning Facility
1/20/11

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: March 31, 2011

Company :	Brookhaven National Laboratory
Address :	Building 462
	Upton, New York 11973--5000
Contact:	Mr. John Burke
Project:	ES SPDES - Summary

Client Sample ID:	31050-003	Project:	BRKL00604
Sample ID:	274183003	Client ID:	BRKL006
Matrix:	W	COC:	31050
Collect Date:	16-MAR-11 11:40	Samp Recv.:	
Receive Date:	18-MAR-11 08:45	Client Desc.:	HN
Collector:	Client	Vol. Recv.:	

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Oil & Grease Analysis											
EPA 1664A n-Hexane Extractable Material (Oil and G "As Received"											
Oil and Grease	J	2.32	1.16	4.15	mg/L		JXT1	03/28/11	1059	1086902	1

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 1664A	

Outfall 002 (HN)
Sampled 3/16/11

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: March 31, 2011

Company :	Brookhaven National Laboratory
Address :	Building 462
	Upton, New York 11973--5000
Contact:	Mr. John Burke
Project:	ES SPDES - Summary

Client Sample ID:	31050-001	Project:	BRKL00604
Sample ID:	274183001	Client ID:	BRKL006
Matrix:	W	COC:	31050
Collect Date:	16-MAR-11 11:05	Samp Recv.:	
Receive Date:	18-MAR-11 08:45	Client Desc.:	HT-W
Collector:	Client	Vol. Recv.:	

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Oil & Grease Analysis											
EPA 1664A n-Hexane Extractable Material (Oil and G "As Received"											
Oil and Grease	J	1.76	1.12	4.00	mg/L		JXT1	03/28/11	1059	1086902	1

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 1664A	

Outfall 006A (HT-W)
Sampled 3/16/11

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: April 1, 2011

Company : Brookhaven National Laboratory
Address : Building 462

Upton, New York 11973--5000
Contact: Mr. John Burke
Project: ES SPDES - Summary

Client Sample ID: 31036-002
Sample ID: 273881002
Matrix: W
Collect Date: 11-MAR-11 10:15
Receive Date: 12-MAR-11 09:25
Collector: Client

Project: BRKL00604
Client ID: BRKL006
COC: 31036
Samp Recv.:
Client Desc.: HW
Vol. Recv.:

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Oil & Grease Analysis											
EPA 1664A n-Hexane Extractable Material (Oil and G "As Received"											
Oil and Grease	J	2.56	1.12	4.00	mg/L		JXT1	03/30/11	0939	1087696	1
Volatile Organics											
EPA 624 Method List "As Received"											
1,1,1-Trichloroethane	U	ND	0.325	5.00	ug/L	1	SYK1	03/17/11	2111	1084023	2
1,1,2,2-Tetrachloroethane	U	ND	0.250	5.00	ug/L	1					
1,1,2-Trichloroethane	U	ND	0.250	5.00	ug/L	1					
1,1-Dichloroethane	U	ND	0.300	5.00	ug/L	1					
1,1-Dichloroethylene	U	ND	0.300	5.00	ug/L	1					
1,2-Dichlorobenzene	U	ND	0.250	5.00	ug/L	1					
1,2-Dichloroethane	U	ND	0.250	5.00	ug/L	1					
1,2-Dichloropropane	U	ND	0.250	5.00	ug/L	1					
1,3-Dichlorobenzene	U	ND	0.250	5.00	ug/L	1					
1,4-Dichlorobenzene	U	ND	0.250	5.00	ug/L	1					
2-Chloroethylvinyl ether	U	ND	1.50	10.0	ug/L	1					
Acetonitrile	U	ND	6.25	25.0	ug/L	1					
Benzene	U	ND	0.300	5.00	ug/L	1					
Bromodichloromethane	U	ND	0.250	5.00	ug/L	1					
Bromoform	U	ND	0.250	5.00	ug/L	1					
Bromomethane	U	ND	0.300	10.0	ug/L	1					
Carbon tetrachloride	U	ND	0.300	5.00	ug/L	1					
Chlorobenzene	U	ND	0.250	5.00	ug/L	1					
Chloroethane	U	ND	0.300	10.0	ug/L	1					
Chloroform	U	ND	0.250	5.00	ug/L	1					
Chloromethane	U	ND	0.300	10.0	ug/L	1					
Dibromochloromethane	U	ND	0.300	5.00	ug/L	1					
Ethylbenzene	U	ND	0.250	5.00	ug/L	1					
Methylene chloride	U	ND	2.00	5.00	ug/L	1					
Tetrachloroethylene	U	ND	0.300	5.00	ug/L	1					
Toluene	U	ND	0.250	5.00	ug/L	1					
Trichloroethylene	U	ND	0.250	5.00	ug/L	1					
Trichlorofluoromethane	U	ND	0.300	5.00	ug/L	1					
Vinyl chloride	U	ND	0.500	10.0	ug/L	1					
cis-1,3-Dichloropropylene	U	ND	0.250	5.00	ug/L	1					
tert-Butyl methyl ether	U	ND	0.250	10.0	ug/L	1					
trans-1,2-Dichloroethylene	U	ND	0.300	5.00	ug/L	1					
trans-1,3-Dichloropropylene	U	ND	0.250	5.00	ug/L	1					

Outfall 008
(HW)
3/11/11

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: April 1, 2011

Company :	Brookhaven National Laboratory
Address :	Building 462
	Upton, New York 11973--5000
Contact:	Mr. John Burke
Project:	ES SPDES - Summary

Client Sample ID:	31036-003	Project:	BRKL00604
Sample ID:	273881003	Client ID:	BRKL006
Matrix:	W	COC:	31036
Collect Date:	11-MAR-11 09:30	Samp Recv.:	
Receive Date:	12-MAR-11 09:25	Client Desc.:	CSF-Outfall
Collector:	Client	Vol. Recv.:	

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Oil & Grease Analysis											
EPA 1664A n-Hexane Extractable Material (Oil and G "As Received"											
Oil and Grease	J	1.71	1.14	4.07	mg/L		JXT1	03/30/11	0939	1087696	1

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 1664A	

Outfall 010 (CSF)
3/11/11

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	270060	Date Collected:	01/07/2011 11:40	Matrix:	W
Lab Sample ID:	270060003	Date Received:	01/08/2011 09:20		
Client Sample:	HN	Client:	BRKL006	Project:	BRKL00604
Client ID:	30862-003	Method:	EPA 624	SOP Ref:	GL-OA-E-026
Batch ID:	1064251	Inst:	VOA1.I	Dilution:	1
Run Date:	01/12/2011 22:19	Analyst:	RXM4	Purge Vol:	5 mL
Prep Date:	01/12/2011 22:19				
Data File:	011211VI\1V326.D	Column:	RTX-624		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	RDL
74-87-3	Chloromethane	U	1.00	ug/L	0.300	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	0.300	1.00	10.0
75-00-3	Chloroethane	U	1.00	ug/L	0.300	1.00	10.0
75-69-4	Trichlorofluoromethane	U	1.00	ug/L	0.300	1.00	5.00
75-05-8	Acetonitrile	U	25.0	ug/L	6.25	25.0	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	0.325	1.00	5.00
56-23-5	Carbon tetrachloride	U	1.00	ug/L	0.300	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	0.300	1.00	5.00
124-48-1	Dibromochloromethane	U	1.00	ug/L	0.300	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	J	0.260	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	J	0.280	ug/L	0.250	1.00	5.00

Out Fall 002 (HN)
Sampled 1/7/11

METALS
–1–
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 270060 **METHOD TYPE:** SW846

SAMPLE ID: 270060003 **CLIENT ID:** 30862–003

CONTRACT: BRKL00604

MATRIX: W **DATE RECEIVED** 08–JAN–11 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M	MDL	DF	Instrument ID	Analytical Run
7429–90–5	Aluminum	68	ug/L	U		P	68	1	OPTIMA3	011411A–1
7440–36–0	Antimony	3	ug/L	U		P	3	1	OPTIMA3	011411A–1
7440–38–2	Arsenic	1.7	ug/L	U		MS	1.7	1	ICPMS5	110120–2
7440–39–3	Barium	24.1	ug/L	B		P	1	1	OPTIMA3	011411A–1
7440–41–7	Beryllium	1	ug/L	U		P	1	1	OPTIMA3	011411A–1
7440–43–9	Cadmium	1	ug/L	U		P	1	1	OPTIMA3	011411A–1
7440–70–2	Calcium	15300	ug/L			P	50	1	OPTIMA3	011411A–1
7440–47–3	Chromium	1	ug/L	U		P	1	1	OPTIMA3	011411A–1
7440–48–4	Cobalt	1	ug/L	U		P	1	1	OPTIMA3	011411A–1
7440–50–8	Copper	24.5	ug/L	B		P	3	1	OPTIMA3	011411A–1
7439–89–6	Iron	125	ug/L			P	30	1	OPTIMA3	011411A–1
7439–92–1	Lead	0.945	ug/L	B		MS	0.5	1	ICPMS5	110120–2
7439–95–4	Magnesium	4170	ug/L	B		P	85	1	OPTIMA3	011411A–1
7439–96–5	Manganese	5.69	ug/L	B		P	2	1	OPTIMA3	011411A–1
7439–97–6	Mercury	0.066	ug/L	U		AV	0.066	1	HG3	011311W1–3
7440–02–0	Nickel	1.5	ug/L	U		P	1.5	1	OPTIMA3	011411A–1
7440–09–7	Potassium	2470	ug/L	B		P	50	1	OPTIMA3	011411A–1
7782–49–2	Selenium	1.5	ug/L	U		MS	1.5	1	ICPMS5	110120–2
7440–22–4	Silver	1	ug/L	U		P	1	1	OPTIMA3	011411A–1
7440–23–5	Sodium	45500	ug/L			P	100	1	OPTIMA3	011411A–1
7440–28–0	Thallium	0.45	ug/L	U		MS	0.45	1	ICPMS5	110120–2
7440–31–5	Tin	2.5	ug/L	U		P	2.5	1	OPTIMA3	011411A–1
7440–62–2	Vanadium	1	ug/L	U		P	1	1	OPTIMA3	011411A–1
7440–66–6	Zinc	80.2	ug/L			P	3.3	1	OPTIMA3	011411A–1

Outfall 002 (HN)
Sampled 1/7/11
Unfiltered

METALS
–1–
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 270060 **METHOD TYPE:** SW846

SAMPLE ID: 270060004 **CLIENT ID:** 30862–004

CONTRACT: BRKL00604

MATRIX: W **DATE RECEIVED** 08–JAN–11 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M	MDL	DF	Instrument ID	Analytical Run
7429–90–5	Aluminum	68	ug/L	U		P	68	1	OPTIMA3	011411A–1
7440–36–0	Antimony	3	ug/L	U		P	3	1	OPTIMA3	011411A–1
7440–38–2	Arsenic	1.7	ug/L	U		MS	1.7	1	ICPMS5	110120–2
7440–39–3	Barium	23.7	ug/L	B		P	1	1	OPTIMA3	011411A–1
7440–41–7	Beryllium	1	ug/L	U		P	1	1	OPTIMA3	011411A–1
7440–43–9	Cadmium	1	ug/L	U		P	1	1	OPTIMA3	011411A–1
7440–70–2	Calcium	15500	ug/L			P	50	1	OPTIMA3	011411A–1
7440–47–3	Chromium	1	ug/L	U		P	1	1	OPTIMA3	011411A–1
7440–48–4	Cobalt	1	ug/L	U		P	1	1	OPTIMA3	011411A–1
7440–50–8	Copper	19.3	ug/L	B		P	3	1	OPTIMA3	011411A–1
7439–89–6	Iron	73.3	ug/L	B		P	30	1	OPTIMA3	011411A–1
7439–92–1	Lead	0.5	ug/L	U		MS	0.5	1	ICPMS5	110120–2
7439–95–4	Magnesium	4220	ug/L	B		P	85	1	OPTIMA3	011411A–1
7439–96–5	Manganese	4.95	ug/L	B		P	2	1	OPTIMA3	011411A–1
7439–97–6	Mercury	0.066	ug/L	U		AV	0.066	1	HG3	011311W1–3
7440–02–0	Nickel	1.5	ug/L	U		P	1.5	1	OPTIMA3	011411A–1
7440–09–7	Potassium	2470	ug/L	B		P	50	1	OPTIMA3	011411A–1
7782–49–2	Selenium	1.5	ug/L	U		MS	1.5	1	ICPMS5	110120–2
7440–22–4	Silver	1	ug/L	U		P	1	1	OPTIMA3	011411A–1
7440–23–5	Sodium	45500	ug/L			P	100	1	OPTIMA3	011411A–1
7440–28–0	Thallium	0.45	ug/L	U		MS	0.45	1	ICPMS5	110120–2
7440–31–5	Tin	2.5	ug/L	U		P	2.5	1	OPTIMA3	011411A–1
7440–62–2	Vanadium	1	ug/L	U		P	1	1	OPTIMA3	011411A–1
7440–66–6	Zinc	78	ug/L			P	3.3	1	OPTIMA3	011411A–1

outfall 002 (HN)
Sampled 1-7-11
Filtered

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 270060 **METHOD TYPE:** SW846

SAMPLE ID: 270060005 **CLIENT ID:** 30862-005

CONTRACT: BRKL00604

MATRIX: W **DATE RECEIVED** 08-JAN-11 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M	MDL	DF	Instrument ID	Analytical Run
7429-90-5	Aluminum	68	ug/L	U		P	68	1	OPTIMA3	011411A-1
7440-36-0	Antimony	3	ug/L	U		P	3	1	OPTIMA3	011411A-1
7440-38-2	Arsenic	1.7	ug/L	U		MS	1.7	1	ICPMS5	110120-2
7440-39-3	Barium	33.9	ug/L	B		P	1	1	OPTIMA3	011411A-1
7440-41-7	Beryllium	1	ug/L	U		P	1	1	OPTIMA3	011411A-1
7440-43-9	Cadmium	1	ug/L	U		P	1	1	OPTIMA3	011411A-1
7440-70-2	Calcium	16700	ug/L			P	50	1	OPTIMA3	011411A-1
7440-47-3	Chromium	6.9	ug/L	B		P	1	1	OPTIMA3	011411A-1
7440-48-4	Cobalt	1	ug/L	U		P	1	1	OPTIMA3	011411A-1
7440-50-8	Copper	3	ug/L	U		P	3	1	OPTIMA3	011411A-1
7439-89-6	Iron	63	ug/L	B		P	30	1	OPTIMA3	011411A-1
7439-92-1	Lead	0.5	ug/L	U		MS	0.5	1	ICPMS5	110120-2
7439-95-4	Magnesium	4430	ug/L	B		P	85	1	OPTIMA3	011411A-1
7439-96-5	Manganese	3	ug/L	B		P	2	1	OPTIMA3	011411A-1
7439-97-6	Mercury	0.066	ug/L	U		AV	0.066	1	HG3	011311W1-3
7440-02-0	Nickel	1.5	ug/L	U		P	1.5	1	OPTIMA3	011411A-1
7440-09-7	Potassium	2260	ug/L	B		P	50	1	OPTIMA3	011411A-1
7782-49-2	Selenium	1.5	ug/L	U		MS	1.5	1	ICPMS5	110120-2
7440-22-4	Silver	1	ug/L	U		P	1	1	OPTIMA3	011411A-1
7440-23-5	Sodium	35700	ug/L			P	100	1	OPTIMA3	011411A-1
7440-28-0	Thallium	0.45	ug/L	U		MS	0.45	1	ICPMS5	110120-2
7440-31-5	Tin	2.5	ug/L	U		P	2.5	1	OPTIMA3	011411A-1
7440-62-2	Vanadium	1	ug/L	U		P	1	1	OPTIMA3	011411A-1
7440-66-6	Zinc	6.27	ug/L	B		P	3.3	1	OPTIMA3	011411A-1

Outfall 005 (HS)
sampled 1/7/11
Unfiltered

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 270639 **METHOD TYPE:** SW846

SAMPLE ID: 270639003 **CLIENT ID:** 30880-003

CONTRACT: BRKL00604

MATRIX: W **DATE RECEIVED** 19-JAN-11 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M	MDL	DF	Instrument ID	Analytical Run
7429-90-5	Aluminum	183	ug/L	B		P	68	1	OPTIMA4	012811-1
7440-36-0	Antimony	3.5	ug/L	U		P	3.5	1	OPTIMA4	012811-1
7440-38-2	Arsenic	1.7	ug/L	U		MS	1.7	1	ICPMS5	110121-2
7440-39-3	Barium	6.57	ug/L	B		P	1	1	OPTIMA4	012811-1
7440-41-7	Beryllium	1	ug/L	U		P	1	1	OPTIMA4	012811-1
7440-43-9	Cadmium	1	ug/L	U		P	1	1	OPTIMA4	012811-1
7440-70-2	Calcium	23500	ug/L			P	50	1	OPTIMA4	012811-1
7440-47-3	Chromium	1.87	ug/L	B		P	1	1	OPTIMA4	012811-1
7440-48-4	Cobalt	1	ug/L	U		P	1	1	OPTIMA4	012811-1
7440-50-8	Copper	3	ug/L	U		P	3	1	OPTIMA4	012811-1
7439-89-6	Iron	133	ug/L			P	30	1	OPTIMA4	012811-1
7439-92-1	Lead	0.5	ug/L	U		MS	0.5	1	ICPMS5	110121-2
7439-95-4	Magnesium	1730	ug/L	B		P	110	1	OPTIMA4	012811-1
7439-96-5	Manganese	7.5	ug/L	B		P	2	1	OPTIMA4	012811-1
7439-97-6	Mercury	0.066	ug/L	U		AV	0.066	1	MER536	012111W2-3
7440-02-0	Nickel	1.5	ug/L	U		P	1.5	1	OPTIMA4	012811-1
7440-09-7	Potassium	1820	ug/L	B		P	50	1	OPTIMA4	012811-1
7782-49-2	Selenium	1.5	ug/L	U		MS	1.5	1	ICPMS5	110121-2
7440-22-4	Silver	1	ug/L	U		P	1	1	OPTIMA4	012811-1
7440-23-5	Sodium	31500	ug/L			P	100	1	OPTIMA4	012811-1
7440-28-0	Thallium	0.45	ug/L	U		MS	0.45	1	ICPMS5	110121-2
7440-31-5	Tin	2.5	ug/L	U		P	2.5	1	OPTIMA4	012811-1
7440-62-2	Vanadium	1.1	ug/L	B		P	1	1	OPTIMA4	012811-1
7440-66-6	Zinc	4.03	ug/L	B		P	3.3	1	OPTIMA4	012811-1

Outfall 008 (HW)
Sampled 1/18/11

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 270639 **METHOD TYPE:** SW846

SAMPLE ID: 270639005 **CLIENT ID:** 30880-005

CONTRACT: BRKL00604

MATRIX: W **DATE RECEIVED** 19-JAN-11 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M	MDL	DF	Instrument ID	Analytical Run
7429-90-5	Aluminum	68	ug/L	U		P	68	1	OPTIMA4	012811-1
7440-36-0	Antimony	3.5	ug/L	U		P	3.5	1	OPTIMA4	012811-1
7440-38-2	Arsenic	1.7	ug/L	U		MS	1.7	1	ICPMS5	110121-2
7440-39-3	Barium	13.4	ug/L	B		P	1	1	OPTIMA4	012811-1
7440-41-7	Beryllium	1	ug/L	U		P	1	1	OPTIMA4	012811-1
7440-43-9	Cadmium	1	ug/L	U		P	1	1	OPTIMA4	012811-1
7440-70-2	Calcium	48000	ug/L			P	50	1	OPTIMA4	012811-1
7440-47-3	Chromium	1.37	ug/L	B		P	1	1	OPTIMA4	012811-1
7440-48-4	Cobalt	1	ug/L	U		P	1	1	OPTIMA4	012811-1
7440-50-8	Copper	3.52	ug/L	B		P	3	1	OPTIMA4	012811-1
7439-89-6	Iron	51.6	ug/L	B		P	30	1	OPTIMA4	012811-1
7439-92-1	Lead	0.5	ug/L	U		MS	0.5	1	ICPMS5	110121-2
7439-95-4	Magnesium	1140	ug/L	B		P	110	1	OPTIMA4	012811-1
7439-96-5	Manganese	15.9	ug/L			P	2	1	OPTIMA4	012811-1
7439-97-6	Mercury	0.066	ug/L	U		AV	0.066	1	MER536	012111W2-3
7440-02-0	Nickel	1.5	ug/L	U		P	1.5	1	OPTIMA4	012811-1
7440-09-7	Potassium	4960	ug/L	B		P	50	1	OPTIMA4	012811-1
7782-49-2	Selenium	1.5	ug/L	U		MS	1.5	1	ICPMS5	110121-2
7440-22-4	Silver	1	ug/L	U		P	1	1	OPTIMA4	012811-1
7440-23-5	Sodium	367000	ug/L			P	100	1	OPTIMA4	012811-1
7440-28-0	Thallium	0.45	ug/L	U		MS	0.45	1	ICPMS5	110121-2
7440-31-5	Tin	2.5	ug/L	U		P	2.5	1	OPTIMA4	012811-1
7440-62-2	Vanadium	1.11	ug/L	B		P	1	1	OPTIMA4	012811-1
7440-66-6	Zinc	14.7	ug/L	B		P	3.3	1	OPTIMA4	012811-1

Outfall 010 (CSP)
Sampled 1/18/11

CHEMTEX
Environmental & Industrial Hygiene Services

3082 25th Street, Port Arthur, Texas 77642 • (409) 983-4575 FAX (409) 982-1522
5544 Leopard Street, Corpus Christi, Texas 78408 • (361) 299-9900 FAX (361) 299-1155
138 S. Cities Service Hwy., Sulphur, Louisiana 70663 • (337) 626-2121 FAX (337) 626-2126

Client: Brookhaven National Laboratory
Safety & Environmental Protection Division
Bldg. 535A
Upton, NY 11973-5000

Attn: Mr. B. Lee
Phone: 1-631-344-3148
E-mail: blee@bnl.gov

Reporting Date: 01/21/11
Sample Matrix: Water
Date Collected: 01/07/11
Time Collected: See Below
Collected by: Client
Date Received: 01/08/11
Time Received: 11:10am
CHEMTEX File #: P11010206

RESULTS OF ANALYSIS
PROJECT NAME: ES SPDES
CHAIN OF CUSTODY NO: 30863

CHEMTEX ID	Sample ID	Parameter	Units	Results	RL	Qual
P11010206	HT-W (11:20)	HEDP as Organic Phosphorus	mg/l	<0.25	0.25	
		Inorganic Phosphorus	mg/l	0.67	0.25	
		Total Phosphorus	mg/l	0.91	0.25	
		Tolytriazole(TTA)	mg/l	<0.005	0.005	
P11010207	HT-E (11:30)	HEDP as Organic Phosphorus	mg/l	<0.25	0.25	
		Inorganic Phosphorus	mg/l	1.02	0.25	
		Total Phosphorus	mg/l	1.05	0.25	
		Tolytriazole(TTA)	mg/l	<0.005	0.005	
P11010208	HN (11:40)	HEDP as Organic Phosphorus	mg/l	<0.25	0.25	
		Inorganic Phosphorus	mg/l	1.31	0.25	
		Total Phosphorus	mg/l	1.46	0.25	
		Tolytriazole(TTA)	mg/l	<0.005	0.005	
P11010209	HS (10:50)	HEDP as Organic Phosphorus	mg/l	0.25	0.25	
		Inorganic Phosphorus	mg/l	0.89	0.25	
		Total Phosphorus	mg/l	1.15	0.25	
		Tolytriazole(TTA)	mg/l	<0.005	0.005	
P11010210	902 Cooling Tower (11:10)	Polypropylene Glycol Monobutyl Ether (PPGMBE)	mg/l	<0.5	0.5	
P11010211	Field Blank #1 (10:00)	HEDP as Organic Phosphorus	mg/l	<0.05	0.05	
		Inorganic Phosphorus	mg/l	<0.05	0.05	
		Total Phosphorus	mg/l	<0.05	0.05	
		Tolytriazole(TTA)	mg/l	<0.005	0.005	

RL: Reporting Limit.

Qualifier Definition:

1/8/11

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CHEMTEX
Environmental & Industrial Hygiene Services

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Client: Brookhaven National Laboratory
Safety & Environmental Protection Division
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Upton, NY 11973-5000

Attn: Mr. B. Lee
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E-mail: blee@bnl.gov

Reporting Date: 01/24/11
Sample Matrix: Water
Date Collected: 01/18/11
Time Collected: See Below
Collected by: Client
Date Received: 01/19/11
Time Received: 9:40am
CHEMTEX File #: P11010428

RESULTS OF ANALYSIS

PROJECT NAME: ES SPDES
CHAIN OF CUSTODY NO: 30881

CHEMTEX ID	Sample ID	Parameter	Units	Results	RL	Qual
P11010428	1004/1002	HEDP as Organic Phosphorus	mg/l	<0.05	0.05	
	(13:15)	Inorganic Phosphorus	mg/l	0.08	0.05	
		Total Phosphorus	mg/l	0.10	0.05	
		Tolytriazole(TTA)	mg/l	<0.005	0.005	
P11010429	FB-1	HEDP as Organic Phosphorus	mg/l	<0.05	0.05	
	(13:05)	Inorganic Phosphorus	mg/l	<0.05	0.05	
		Total Phosphorus	mg/l	<0.05	0.05	
		Tolytriazole(TTA)	mg/l	<0.005	0.005	

RL: Reporting Limit.

Qualifier Definition:

LABORATORY QUALITY CONTROL DATA

Method References/Analysis Dates & Analysts

Parameter	Method Reference	Date Analyzed/Analyzed By
Phosphorus	EPA Method 365.3	01/20/11 YS
Tolytriazole(TTA)	SOP#: O121-049	01/19/11 SPR

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