

Environmental Services Division

BROOKHAVEN
NATIONAL LABORATORY

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

www.bnl.gov

January 21, 2003

Mr. Scott Mallette
Director, Operations Management Division
U. S. Department of Energy
Brookhaven Group
Upton, NY 11973

Dear Mr. Mallette:

SUBJECT: NPDES - Discharge Monitoring Report (DMR) for December 2002

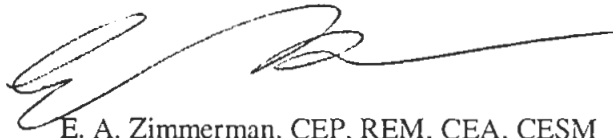
Included as Attachment I, please find the DMR for the month of December 2002. Chemical analyses for the reported parameters are conducted by a NYS Department of Health certified contractor laboratory. Copies of the analytical reports are contained in Attachments II and III. Field measured parameters (pH, settleable solids, flow) are recorded and/or measured by the Plant Engineering Division, Sewage Treatment Plant Operators or the Environmental Services Division, Field Sampling Team.

With the exception of an excursion for pH measured at Outfall 002, the analytical data indicates that all parameters met their respective SPDES effluent limitations this reporting period. Please refer to item six of the Discharge Monitoring Report Notes section for a description of the excursion, which was associated with stormwater run-off. On Friday December 20th, heavy rains resulted in run-off from a construction site. The pH of the run-off from newly poured concrete and a crushed-concrete parking lot base was measured at 10 SU. This run-off, combined with other run-off from non-construction areas, resulted in a pH measured at the Outfall of 9.4 SU. The pH was back to acceptable levels on the next business day. A Non-compliance Report is attached to document this incident.

Collection and analysis of the SPDES permit samples are performed in accordance with the guidelines of the BNL Quality Assurance program. These guidelines include the routine calibration of instruments, standard operating procedures for collection and analysis of samples, use of standard methods of analysis, and validation of the contractor analytical data by the BNL analytical services laboratory. Brookhaven National Laboratory personnel collected all samples. A Quality Assurance inspection is performed periodically on contractor laboratories. The Quality Assurance documentation is available from the Environmental Services Division and Plant Engineering Divisions. Based on this information, we believe the values reported on the DMR are representative of the effluent from the BNL during the month of December 2002.

Although it is no longer necessary for BNL to include copies of the laboratory analysis when submitting the DMR, we are including them in the package submitted to you for record-keeping purposes. You do not have to forward the analytical reports to the NYSDEC-Region 1 or SCDHS when submitting the DMR. Please sign each page of the computer generated DMR where indicated and transmit it to the New York State Department of Environmental Conservation and the Suffolk County Department of Health Services no later than January 28, 2003. If there are any questions regarding the information contained on the DMR or the analytical data packages, please do not hesitate to contact R. Lee at extension 3148 or M. Allocco at extension 3166.

Sincerely,



E. A. Zimmerman, CEP, REM, CEA, CESM
Interim Division Manager

EAZ/MA:cr

- Attachment I: Discharge Monitoring Report for December 2002.
- Attachment II: Non-Compliance Report for December SPDES Excursion at Outfall 002.
- Attachment III: Analytical Results from H2M Labs for samples collected on 12/2/02, 12/4 and 12/6/02 from Outfall 001.
- Attachment IV: Analytical Results from H2M Labs for samples collected from Outfalls 001A, 001B, 001D, 002, 002B, 005, 006A, 006B, 008, and 010.
- Attachment V: Analytical Results from CHEMTEX, Inc. for samples collected from Outfalls 001F, 002, 002B, 005, 006A, and 006B.

cc:	M. Allocco	w/attachments	M. Baldwin	w/attachments
	M. Bebon	w/o attachments	K. Brog	w/o attachments
	W. Chaloupka	w/attachments	S. Dierker	w/o attachments
	G. Granzen	w/o attachments	J. Higbie	w/attachments
	C. Johnson	w/o attachments	R. Lee	w/attachments
	E. Lessard	w/o attachments	D. Lowenstein	w/o attachments
	E. Murphy	w/attachments	A. Queirolo	w/o attachments
	V. Radeka	w/o attachments	D. Van Duyne	w/attachments
	M. Petersen	w/o attachments	E. Zimmerman	w/o attachments

File: EC62ER.03

ATTACHMENT I

BROOKHAVEN NATIONAL LABORATORY

SPDES PERMIT NO. NY0005835

DISCHARGE MONITORING REPORT FOR DECEMBER 2002

FOR OUTFALLS NO. 001 - 010

Brookhaven National Laboratory
SPDES Permit No. NY0005835
Discharge Monitoring Report for December 2002
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. Since flow records are maintained on a weekly or monthly basis, the flow rate provided is the daily average.
3. Flow is estimated based upon an instantaneous flow measurement and the assumption that flow continued for the entire day (i.e., 1,440 minutes).
4. PCBs were not detected at a method detection limit of 0.065 ppb per congener. Total PCBs have been reported as less than the individual detection limit.
5. Two individual photographic processors generate photographic rinse waters discharged from Building 197B. Wastewater samples are collected from each processor and analyzed separately. Table I summarizes the individual results. The maximum concentrations and total average flow have been reported in the DMR.

Location	Flow	pH	Total Nitrogen	Cyanide	Silver	Phenolics
1-87	0.6 GPD	5.59 SU	1,100 mg/L	< 10.0 µg/L	1,240 ^(a) µg/L	< 5.0 µg/L
1-93B	34.2 GPD	7.30 SU	3.4 mg/L	< 10.0 µg/L	49.9 ^(a) µg/L	< 5.0 µg/L
Total Flow	34.8 GPD					

(a) The duplicate analysis reported concentration is estimated at less than the method detection limit but greater than the instrument detection limit.

6. The pH at outfall 002 on 12/20/02 at 11:23am was measured at 9.35 SU during weekly flow chart exchange and water quality measurement. A reading 15 minutes later confirmed the excursion with a pH reading of 9.10 SU. An immediate investigation into the excursion found storm water with an elevated pH of ~10 (total rainfall was 1.53 inches) due to its interaction with concrete at a construction site within the storm water area which feeds outfall 002. As per the NYSDEC the pH was rechecked on 12/23/02 and a value of 8.06 SU was measured.
7. The reported concentration is estimated due to interference during analysis.

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
 U S O E
 ADDRESS BROOKHAVEN NATIONAL LABORATORY
 BROOKHAVEN AREA OFFICE
 UPTON NY 11973
 FACILITY BROOKHAVEN NATIONAL LABORATORY
 LOCATION UPTON NY 11973
 ATTN: GEORGE MALOSH, GROUP MGR

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

MAJOR (SUBR 01)
 F - FINAL
 ACID/CAUSTIC CLEANG RINSE 535B
 *** No Discharge ****

NY0005835 Permit Number
 001 A Discharge Number
 Monitoring Period
 From To
 YR MO DAY YR MO DAY
 02 10 01 02 12 31

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION		NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	MINIMUM	MAXIMUM				UNITS
FLOW RATE	1800	*****	*****	*****	0	03/90	RC
00056 1 0 1 EFFLUENT GROSS VALUE	REPORT DAILY AV	*****	*****	*****	0	QTRLY	RCORDR
PH	*****	*****	7.7	7.7	0	01/90	GR
00400 1 0 0 EFFLUENT GROSS VALUE	*****	*****	REPORT MINIMUM	REPORT MAXIMUM	0	QTRLY	GRAB
BIS (2-ETHYLHEXYL) PHTHALATE	*****	*****	*****	*****	0	01/90	GR
39100 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	REPORT DAILY MX	0	QTRLY	GRAB
DI-N-BUTYL PHTHALATE	*****	*****	*****	< 10	0	01/90	GR
39110 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	REPORT DAILY MX	0	QTRLY	GRAB
MEASUREMENT							
PERMIT REQUIREMENT							
MEASUREMENT							
PERMIT REQUIREMENT							
MEASUREMENT							
PERMIT REQUIREMENT							
MEASUREMENT							
PERMIT REQUIREMENT							

Note: Read Instructions before completing this form

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.

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
 Mr. Michael Holland
 Area Group Manager

Telephone
 631-344-3424

Signature of Principal Executive Officer or Authorized Agent
 Date Signed

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

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

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

NAME U S D O E
ADDRESS BROOKHAVEN NATIONAL LABORATORY
BROOKHAVEN AREA OFFICE
UPTON NY 11973
FACILITY BROOKHAVEN NATIONAL LABORATORY
LOCATION UPTON NY 11973
ATTN: GEORGE MALOSH, GROUP MGR

Permit Number
Monitoring Period
From To
YR MO DAY YR MO DAY
02 10 01 02 12 31

MAJOR (SUBR 01)
F - FINAL
RINSE FROM CENTRL DEGREASR 498
*** No Discharge ****

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW RATE	240	*****	*****	*****	*****	(07)	0	01/90	RC
00056 1 0 1 EFFLUENT GROSS VALUE PH	REPORT DAILY AV	*****	*****	*****	*****	GPD	0	QTRLY	RCORDR
00400 1 0 0 EFFLUENT GROSS VALUE CHROMIUM, TOTAL (AS CR)	*****	*****	8.5	*****	*****		0	01/90	GR
01034 1 0 0 EFFLUENT GROSS VALUE COPPER, TOTAL (AS CU)	*****	*****	REPORT MINIMUM	*****	*****	SU	0	QTRLY	GRAB
01042 1 0 0 EFFLUENT GROSS VALUE IRON, TOTAL (AS FE)	*****	*****	*****	*****	*****	UG/L	0	01/90	GR
01045 1 0 0 EFFLUENT GROSS VALUE MANGANESE, TOTAL (AS MN)	*****	*****	*****	*****	*****	UG/L	0	QTRLY	GRAB
01055 1 0 0 EFFLUENT GROSS VALUE NICKEL, TOTAL (AS NI)	*****	*****	*****	*****	*****	UG/L	0	01/90	GR
01067 1 0 0 EFFLUENT GROSS VALUE NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	*****	*****	*****	*****	*****	UG/L	0	QTRLY	GRAB

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Mr. Michael Holland
Area Group Manager

Typed or Printed

Telephone
631-344-3424

Signature of Principal Executive Officer or Authorized Agent

Date Signed

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

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
 NAME U S D O E
 ADDRESS BROOKHAVEN NATIONAL LABORATORY
 BROOKHAVEN AREA OFFICE NY 11973
 FACILITY BROOKHAVEN NATIONAL LABORATORY
 LOCATION UPTON NY 11973
 ATTN: GEORGE MALOSH, GROUP MGR

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

Permit Number NY0005835
 Discharge Number 001 B (SUBR 01)
 F - FINAL
 Monitoring Period From To
 YR MO DAY YR MO DAY
 02 10 01 02 12 31
 RINSE FROM CENTRAL DEGREASER 498
 *** No Discharge ****

MAJOR

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	MINIMUM	AVERAGE	MAXIMUM	UNITS			
ZINC, TOTAL (AS ZN)	*****	*****	*****	*****	*****	(28)	0	01/90	GR
01092 1 0 0	*****	*****	*****	*****	*****	REPORT DAILY MX		QTRLY	GRAB
EFFLUENT GROSS VALUE 1,2-DICHLOROETHANE	*****	*****	*****	*****	*****	< 1	0	01/90	GR
32103 1 0 0	*****	*****	*****	*****	*****	REPORT DAILY MX		QTRLY	GRAB
EFFLUENT GROSS VALUE CHLOROFORM	*****	*****	*****	*****	*****	< 1	0	01/90	GR
32106 1 0 0	*****	*****	*****	*****	*****	REPORT DAILY MX		QTRLY	GRAB
EFFLUENT GROSS VALUE 1,1,1-TRICHLOROETHANE	*****	*****	*****	*****	*****	< 1	0	01/90	GR
34506 1 0 0	*****	*****	*****	*****	*****	REPORT DAILY MX		QTRLY	GRAB
EFFLUENT GROSS VALUE BROMODICHLOROMETHANE	*****	*****	*****	*****	*****	< 1	0	01/90	GR
38693 1 0 0	*****	*****	*****	*****	*****	REPORT DAILY MX		QTRLY	GRAB
EFFLUENT GROSS VALUE BIS (2-ETHYLHEXYL) PHTHALATE	*****	*****	*****	*****	*****	< 10	0	01/90	GR
39100 1 0 0	*****	*****	*****	*****	*****	REPORT DAILY MX		QTRLY	GRAB
EFFLUENT GROSS VALUE DI-N-BUTYL PHTHALATE	*****	*****	*****	*****	*****	< 10	0	01/90	GR
39110 1 0 0	*****	*****	*****	*****	*****	REPORT DAILY MX		QTRLY	GRAB
EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	REPORT DAILY MX		QTRLY	GRAB

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NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
 Mr. Michael Holland
 Area Group Manager

Telephone
 631-344-3424

Date Signed

Signature of Principal Executive Officer or Authorized Agent

Signature of Principal Executive Officer or Authorized Agent

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

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 BROOKHAVEN AREA OFFICE
 UPTON NY 11973
 FACILITY BROOKHAVEN NATIONAL LABORATORY
 LOCATION UPTON NY 11973
 ATTN: GEORGE MALOSH, GROUP MGR

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

001 B
 Permit Number Discharge Number
 MAJOR (SUBR 01)
 F - FINAL
 Monitoring Period
 From To
 YR MO DAY YR MO DAY
 02 10 01 02 12 31
 RINSE FROM CENTRL DEGREASR 498
 *** No Discharge *****

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION		NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	MINIMUM	MAXIMUM				UNITS
TETRACHLOROETHYLENE	*****	*****	*****	< 1	0	01/90	GR
85814 1 0 0	*****	*****	*****	REPORT DAILY MX		QTRLY	GRAB
EFFLUENT GROSS VALUE	*****	*****	*****				

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NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Mr. Michael Holland Area Group Manager	Telephone 631-344-3424
Typed or Printed	Date Signed

Signature of Principal Executive Officer or Authorized Agent

Comments and Explanation of any violations (Reference all attachments here)
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 FACILITY BROOKHAVEN NATIONAL LABORATORY
 LOCATION UPTON NY 11973
 ATTN: GEORGE MALOSH, GROUP MGR

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

Permit Number NY0005835
 Discharge Number 001 D
 MAJOR (SUBR 01) F - FINAL

Monitoring Period From To
 YR MO DAY YR MO DAY
 02 10 01 02 12 31
 PHOTOPROCESSING RINSE FROM 197B
 *** No Discharge ***

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE				MAXIMUM	UNITS
FLOW RATE	34.8	*****	(07)	*****	*****	0	03/90	RC
00056 1 0 1 EFFLUENT GROSS VALUE	REPORT DAILY AV	*****	GPD	*****	*****	0	QTRLY	RCORDR
PH	*****	*****		5.6	7.3	0	02/90	GR
00400 1 0 0 EFFLUENT GROSS VALUE	*****	*****		REPORT MINIMUM	REPORT MAXIMUM	0	QTRLY	GRAB
NITROGEN, TOTAL (AS N)	*****	*****		*****	1100	0	02/90	GR
00600 1 0 0 EFFLUENT GROSS VALUE	*****	*****		*****	REPORT DAILY MX	0	QTRLY	GRAB
CYANIDE, TOTAL (AS CN)	*****	*****		*****	< 10.0	0	02/90	GR
00720 1 0 0 EFFLUENT GROSS VALUE	*****	*****		*****	REPORT DAILY MX	0	QTRLY	GRAB
SILVER, TOTAL (AS AG)	*****	*****		*****	1240	0	02/90	GR
01077 1 0 0 EFFLUENT GROSS VALUE	*****	*****		*****	REPORT DAILY MX	0	QTRLY	GRAB
PHENOLICS, TOTAL RECOVERABLE	*****	*****		*****	< 5.0	0	02/90	GR
32730 1 0 0 EFFLUENT GROSS VALUE	*****	*****		*****	REPORT DAILY MX	0	QTRLY	GRAB

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Telephone
631-344-3424

Signature of Principal Executive Officer or Authorized Agent

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 MANHOLE NEAREST THE BUILDING. SEE PERMIT FOR ADDITIONAL NOTES, COMMENTS AND REQUIREMENTS

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

NAME U S D O E
 ADDRESS BROOKHAVEN NATIONAL LABORATORY
 BROOKHAVEN AREA OFFICE NY 11973
 FACILITY BROOKHAVEN NATIONAL LABORATORY
 LOCATION UPTON NY 11973
 ATTN: GEORGE MALOSH, GROUP MGR

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

Permit Number NY005835
 Discharge Number 001 M
 MAJOR (SUBR 01)
 F - FINAL

Monitoring Period
 From To
 YR MO DAY YR MO DAY
 02 10 01 02 12 31

PROCESS SANIT & STORMWTR RNOFF
 ... No Discharge

Note: Read Instructions before completing this form

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE				MAXIMUM	UNITS
TEMPERATURE, WATER	*****	*****	*****	*****	*****	0	01/01	GR
DEG. FAHRENHEIT	*****	*****	*****	*****	*****	0	DAILY	GRAB
00011 1 0 0	*****	*****	*****	*****	*****	0	03/30	24
EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	0	ONCE/MONTH	COMP24
BOD, 5-DAY (20 DEG. C)	*****	*****	*****	*****	*****	0	01/01	GR
00310 1 0 0	*****	*****	*****	*****	*****	0	03/30	24
EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	0	ONCE/MONTH	COMP24
PH	*****	*****	*****	*****	*****	0	01/01	GR
00400 1 0 0	*****	*****	*****	*****	*****	0	DAILY	GRAB
EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	0	03/30	24
SOLIDS, TOTAL SUSPENDED	*****	*****	*****	*****	*****	0	ONCE/MONTH	COMP24
00530 1 0 0	*****	*****	*****	*****	*****	0	01/01	GR
EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	0	DAILY	GRAB
SOLIDS, SETTLEABLE	*****	*****	*****	*****	*****	0	03/30	24
00545 1 0 0	*****	*****	*****	*****	*****	0	ONCE/MONTH	COMP24
EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	0	01/01	GR
NITROGEN, TOTAL (AS N)	*****	*****	*****	*****	*****	0	DAILY	GRAB
00600 1 0 0	*****	*****	*****	*****	*****	0	03/30	24
EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	0	ONCE/MONTH	COMP24
NITROGEN, AMMONIA TOTAL (AS N)	*****	*****	*****	*****	*****	0	03/30	24
00610 1 0 0	*****	*****	*****	*****	*****	0	ONCE/MONTH	COMP24
EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	0	03/30	24

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.

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
 Mr. Michael Holland
 Area Group Manager

Telephone
 631-344-3424

Signature of Principal Executive Officer or Authorized Agent
 Date Signed

Comments and Explanation of any violations (Reference all attachments here)
 QUANTITIES OR CONCENTRATIONS OF RADIOACTIVITY IN EFFLUENT ARE SUBJECT TO REQUIREMENTS OF THE USDOE INCL BUT NOT LIMITED TO USDOE ORDER 5400.5. APPROX 15% OF STP DISCHARGE CAN BE TO GW VIA EXFLT FROM SFBS. SEE PERMIT FOR ADDITIONAL NOTES COMMENTS AND REQUIREMENTS.

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

NAME U S D O E
 ADDRESS BROOKHAVEN NATIONAL LABORATORY
 BROOKHAVEN AREA OFFICE
 UPTON NY 11973
 FACILITY BROOKHAVEN NATIONAL LABORATORY
 LOCATION UPTON NY 11973
 ATTN: GEORGE MALOSH, GROUP MGR

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

Permit Number NY0005835
 Discharge Number 001 M (SUBR 01)
 F - FINAL
 Monitoring Period
 From To
 YR MO DAY YR MO DAY
 02 10 01 02 12 31
 PROCESS SANIT & STORMWTR RNOFF
 *** No Discharge ***

MAJOR

Note: Read Instructions before completing this form

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE		
	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				UNITS	
PHOSPHORUS, TOTAL (AS P)	00665 1 0 0	MEASUREMENT PERMIT REQUIREMENT	*****	*****	*****	*****	1.2	(19)	0	03/30	24
EFFLUENT GROSS VALUE			*****	*****	*****	*****	REPORT DAILY MX	MG/L		ONCE/MONTH	COMP24
CYANIDE, TOTAL (AS CN)	00720 1 0 0	MEASUREMENT PERMIT REQUIREMENT	*****	*****	*****	*****	< 10	(28)	0	03/30	GRAB
EFFLUENT GROSS VALUE			*****	*****	*****	*****	100 DAILY MX	UG/L		TWICE/MONTH	GRAB
COPPER, TOTAL (AS CU)	01042 1 0 0	MEASUREMENT PERMIT REQUIREMENT	*****	*****	*****	*****	0.043	(19)	0	03/30	24
EFFLUENT GROSS VALUE			*****	*****	*****	*****	0.15 DAILY MX	MG/L		ONCE/MONTH	COMP24
IRON, TOTAL (AS FE)	01045 1 0 0	MEASUREMENT PERMIT REQUIREMENT	*****	*****	*****	*****	0.20	(19)	0	03/30	24
EFFLUENT GROSS VALUE			*****	*****	*****	*****	0.37 DAILY MX	MG/L		ONCE/MONTH	COMP24
LEAD, TOTAL (AS PB)	01051 1 0 0	MEASUREMENT PERMIT REQUIREMENT	*****	*****	*****	*****	< 0.0008	(19)	0	03/30	24
EFFLUENT GROSS VALUE			*****	*****	*****	*****	0.019 DAILY MX	MG/L		ONCE/MONTH	COMP24
NICKEL, TOTAL (AS NI)	01067 1 0 0	MEASUREMENT PERMIT REQUIREMENT	*****	*****	*****	*****	0.0066	(19)	0	03/30	24
EFFLUENT GROSS VALUE			*****	*****	*****	*****	0.11 DAILY MX	MG/L		ONCE/MONTH	COMP24
SILVER, TOTAL (AS AG)	01077 1 0 0	MEASUREMENT PERMIT REQUIREMENT	*****	*****	*****	*****	0.001	(19)	0	03/30	24
EFFLUENT GROSS VALUE	See Note 1		*****	*****	*****	*****	0.015 DAILY MX	MG/L		ONCE/MONTH	COMP24

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.

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
 Mr. Michael Holland
 Area Group Manager
 Signature of Principal Executive Officer or Authorized Agent
 Telephone 631-344-3424
 Date Signed

Comments and Explanation of any violations (Reference all attachments here)
 QUANTITIES OR CONCENTRATIONS OF RADIOACTIVITY IN EFFLUENT ARE SUBJECT TO REQUIREMENTS OF THE USDOE INCL BUT NOT LIMITED TO USDOE ORDER 5400.5.
 APPROX 15% OF STP DISCHARGE CAN BE TO GW VIA EXFILTR FROM SFBS. SEE PERMIT FOR ADDITIONAL NOTES COMMENTS AND REQUIREMENTS.

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

U S D O E
 BROOKHAVEN NATIONAL LABORATORY
 BROOKHAVEN AREA OFFICE
 UPTON NY 11973
 BROOKHAVEN NATIONAL LABORATORY
 UPTON NY 11973
 GEORGE MALOSH, GROUP MGR

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

001 M Discharge Number
 NY0005835 Permit Number

MAJOR (SUBR 01)
 F - FINAL
 PROCESS SANIT & STORMWTR RNOFF
 *** No Discharge ****

Note: Read Instructions before completing this form

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	MINIMUM	AVERAGE	MAXIMUM	UNITS			
ZINC, TOTAL (AS ZN) See Note 7	*****	*****	*****	*****	*****	(19)	0	03/30	24
EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	MG/L	0	ONCE/MONTH	COMP24
TOLUENE	*****	*****	*****	*****	*****	(28)	0	03/30	GR
34010 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	UG/L	0	TWICE/MONTH	GRAB
METHYLENE CHLORIDE	*****	*****	*****	*****	*****	(28)	0	03/30	GR
34423 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	UG/L	0	TWICE/MONTH	GRAB
1,1,1-TRICHLORO-ETHANE	*****	*****	*****	*****	*****	(28)	0	03/30	GR
34506 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	UG/L	0	TWICE/MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	0.32	0.46	(03)	*****	*****	*****	0	99/99	RC
50050 1 0 0 EFFLUENT GROSS VALUE	REPORT DAILY AV	DAILY MX	MGD	*****	*****	*****	0	CONTINUOUS	RCORDR
MERCURY, TOTAL (AS HG) See Note 1	*****	*****	*****	*****	*****	(19)	0	03/30	24
71900 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	MG/L	0	ONCE/MONTH	COMP24
COLIFORM, FECAL GENERAL	*****	*****	*****	*****	*****	(13)	0	03/30	GR
74055 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	#/100ML	0	ONCE/MONTH	GRAB
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.									
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			Signature of Principal Executive Officer or Authorized Agent						
Mr. Michael Holland Area Group Manager			Telephone 631-344-3424						
Typed or Printed			Date Signed						

Comments and Explanation of any violations (Reference all attachments here)
 QUANTITIES OR CONCENTRATIONS OF RADIOACTIVITY IN EFFLUENT ARE SUBJECT TO REQUIREMENTS OF THE USDOE INCL BUT NOT LIMITED TO USDOE ORDER 5400.5.
 APPROX 15% OF STP DISCHARGE CAN BE TO GW VIA EXFILTR FROM SFBS. SEE PERMIT FOR ADDITIONAL NOTES COMMENTS AND REQUIREMENTS.

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
 U S D O E
 ADDRESS BROOKHAVEN NATIONAL LABORATORY
 BROOKHAVEN AREA OFFICE
 UPTON NY 11973
 FACILITY BROOKHAVEN NATIONAL LABORATORY
 LOCATION UPTON NY 11973
 ATTN: GEORGE MALOSH, GROUP MGR

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

MAJOR (SUBR 01)
 F - FINAL
 PROCESS SANIT EFFL & STORMWTR
 *** No Discharge ****

NY0005835	001 Q	Discharge Number
Permit Number		
Monitoring Period		
From	To	
YR MO DAY	YR MO DAY	
02 10 01	02 12 31	

Note: Read Instructions before completing this form

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
POLYCHLORINATED BIPHENYLS (PCBS) 39516 1 0 0 See Note 4	SAMPLE MEASUREMENT	*****	*****	*****	*****	< 0.065	0	03/90	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	REPORT DAILY MX		QTRLY	GRAB
EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT								
	PERMIT REQUIREMENT								
	SAMPLE MEASUREMENT								
	PERMIT REQUIREMENT								
	SAMPLE MEASUREMENT								
	PERMIT REQUIREMENT								
	SAMPLE MEASUREMENT								
	PERMIT REQUIREMENT								
	SAMPLE MEASUREMENT								
	PERMIT REQUIREMENT								
	SAMPLE MEASUREMENT								
	PERMIT REQUIREMENT								
	SAMPLE MEASUREMENT								
	PERMIT REQUIREMENT								
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NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Mr. Michael Holland Area Group Manager									
Signature of Principal Executive Officer or Authorized Agent									
Telephone 631-344-3424									
Date Signed									

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

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
 NAME U S O E
 ADDRESS BROOKHAVEN NATIONAL LABORATORY
 BROOKHAVEN AREA OFFICE
 UPTON NY 11973
 FACILITY BROOKHAVEN NATIONAL LABORATORY
 LOCATION UPTON NY 11973
 ATTN: GEORGE MALOSH, GROUP MGR

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 DISCHARGE MONITORING REPORT (DMR)
 MAJOR (SUBR 01)
 F - FINAL
 RF(1004) & BRAHMS(1002) BLOWDN
 *** No Discharge ***

NY0005835		002 B	
Permit Number		Discharge Number	
Monitoring Period			
From	To		
YR MO DAY YR MO DAY			
02 10 01 02 12 31			

Note: Read instructions before completing this form

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				UNITS
PH	*****	*****		7.2	*****	(12)	0	02/30	GR
00400 1 0 0 EFFLUENT GROSS VALUE OIL & GREASE	*****	*****	****	REPORT MINIMUM	*****	SU	0	ONCE/ MONTH	GRAB
00556 1 0 0 EFFLUENT GROSS VALUE FLOW, IN CONDUIT OR THRU TREATMENT PLANT	*****	*****	****	*****	*****	(19)	0	01/30	GR
50050 1 0 0 EFFLUENT GROSS VALUE	*****	0.0063	(03)	*****	*****	MG/L	0	ONCE/ MONTH	GRAB
	*****	REPORT DAILY MX	MGD	*****	*****		0	04/30	RC
	*****	*****		*****	*****			ONCE/ MONTH	RCORDR
	*****	*****		*****	*****				
	*****	*****		*****	*****				
	*****	*****		*****	*****				
	*****	*****		*****	*****				
	*****	*****		*****	*****				
	*****	*****		*****	*****				

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.

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
 Mr. Michael Holland
 Area Group Manager
 Telephone
 631-344-3424

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 & A NEW RECHARGE BASIN IS CONSTRUCTED, DISCHARGE SHOULD BE TO NEW BASIN.

Signature of Principal Executive Officer or Authorized Agent
 Date Signed

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

NAME U S O E
 ADDRESS BROOKHAVEN NATIONAL LABORATORY
 BROOKHAVEN AREA OFFICE NY 11973
 UPTON
 FACILITY BROOKHAVEN NATIONAL LABORATORY
 LOCATION UPTON NY 11973
 ATTN: GEORGE MALOSH, GROUP MGR

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

Permit Number NY0005835
 Discharge Number 002 M
 Monitoring Period From To
 YR MO DAY YR MO DAY
 02 10 01 02 12 31

MAJOR (SUBR 01)
 F - FINAL
 AGS NON-C COOLING,PRCP,ETC (HN)
 *** No Discharge ***

Note: Read Instructions before completing this form

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	MINIMUM	AVERAGE	MAXIMUM	UNITS			
PH	.....	.....	6.6	.....	9.4	(12)	1	04/30	GR
See Note 6	.....	.....	REPORT MINIMUM	.....	9.0 MAXIMUM	SU		ONCE/MONTH	GRAB
00400 1 0 0 EFFLUENT GROSS VALUE OIL & GREASE	.....	.....	.....	.....	< 5.0	(19)	0	04/30	GR
00556 1 0 0 EFFLUENT GROSS VALUE FLOW, IN CONDUIT OR THRU TREATMENT PLANT	.....	.....	.....	.....	15 DAILY MX	MG/L		ONCE/MONTH	GRAB
50050 1 0 1 EFFLUENT GROSS VALUE	0.51	.....	.....	.....	.....		0	04/30	RC
	REPORT DAILY AV	.....	.....	.....	.....			ONCE/MONTH	RCORDR
	MEASUREMENT								
	PERMIT REQUIREMENT								
	MEASUREMENT								
	PERMIT REQUIREMENT								
	MEASUREMENT								
	PERMIT REQUIREMENT								
	MEASUREMENT								
	PERMIT REQUIREMENT								
	MEASUREMENT								
	PERMIT REQUIREMENT								
	MEASUREMENT								
	PERMIT REQUIREMENT								

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Telephone
631-344-3424

Date Signed

Name/Title Principal Executive Officer
 Mr. Michael Hofland
 Area Group Manager

Signature of Principal Executive Officer or Authorized Agent

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 LOCATION DOWNSTREAM OF WHERE EXISTING DISCHARGE MIXES WITH THE COOLING TOWER BLOWDOWN FROM THE STAR DETECTOR.

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

NAME U S D O E
 ADDRESS BROOKHAVEN NATIONAL LABORATORY
 BROOKHAVEN AREA OFFICE
 UPTON NY 11973
 FACILITY BROOKHAVEN NATIONAL LABORATORY
 LOCATION UPTON NY 11973
 ATTN: GEORGE MALOSH, GROUP MGR

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

Permit Number NY0005835
 Discharge Number 002 Q
 Monitoring Period From To
 YR MO DAY YR MO DAY
 02 10 01 02 12 31

MAJOR (SUBR 01)
 F - FINAL
 AGS NON-C COOLG.PRECP ETC (HN)
 *** No Discharge ****

Note: Read Instructions before completing this form

PARAMETER	QUANTITY OR LOADING		QUANTITY OR CONCENTRATION		NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	MINIMUM	MAXIMUM				UNITS
ALUMINUM, TOTAL (AS AL) See Note 1	*****	*****	*****	0.067	(19)	0	01/90 GR
EFFLUENT GROSS VALUE	*****	*****	*****	2.0	MG/L	0	QTRLY GRAB
CHLOROFORM	*****	*****	*****	< 1	(28)	0	01/90 GR
EFFLUENT GROSS VALUE	*****	*****	*****	7	UG/L	0	QTRLY GRAB
1,1,1-TRICHLORO-ETHANE	*****	*****	*****	< 1	(28)	0	01/90 GR
EFFLUENT GROSS VALUE	*****	*****	*****	5	UG/L	0	QTRLY GRAB
BROMODICHLOROMETHANE	*****	*****	*****	< 1	(28)	0	01/90 GR
EFFLUENT GROSS VALUE	*****	*****	*****	50	UG/L	0	QTRLY GRAB
1-HYDROXY-ETHYLIDENE	*****	*****	*****	0.10	(19)	0	01/90 GR
EFFLUENT GROSS VALUE	*****	*****	*****	0.5	MG/L	0	QTRLY GRAB
TOLYTRIAZOLE	*****	*****	*****	< 0.005	(19)	0	01/90 GR
EFFLUENT GROSS VALUE	*****	*****	*****	0.2	MG/L	0	QTRLY GRAB

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NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
 Mr. Michael Holland
 Area Group Manager
 Typed or Printed

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.

Telephone
 631-344-3424

Signature of Principal Executive Officer or Authorized Agent
 Date Signed

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

NAME U S O E
 ADDRESS BROOKHAVEN NATIONAL LABORATORY
 BROOKHAVEN AREA OFFICE
 UPTON NY 11973
 FACILITY BROOKHAVEN NATIONAL LABORATORY
 LOCATION UPTON NY 11973
 ATTN: GEORGE MALOSH, GROUP MGR

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

Permit Number
 Monitoring Period
 From To
 YR MO DAY YR MO DAY
 02 10 01 02 12 31

NY005835
 002 R Discharge Number
 F - FINAL

MAJOR (SUBR 01)
 RF(1004) & BRAHMS(1002) BLOWDN
 *** No Discharge ***

Note: Read Instructions before completing this form

PARAMETER	SAMPLE MEASUREMENT PERMIT REQUIREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
1-HYDROXY-ETHYLIDENE	MEASUREMENT PERMIT REQUIREMENT	*****	*****	*****	*****	0.09	(19)	*****	0	01/90	GR
85812 1 0 0 EFFLUENT GROSS VALUE TOLYTRIAZOLE	MEASUREMENT PERMIT REQUIREMENT	*****	*****	*****	*****	0.5 DAILY MX	MG/L	*****	0	QTRLY	GRAB
85813 1 0 0 EFFLUENT GROSS VALUE	MEASUREMENT PERMIT REQUIREMENT	*****	*****	*****	*****	< 0.005 DAILY MX	MG/L	*****	0	01/90	GR
	MEASUREMENT PERMIT REQUIREMENT										
	MEASUREMENT PERMIT REQUIREMENT										
	MEASUREMENT PERMIT REQUIREMENT										
	MEASUREMENT PERMIT REQUIREMENT										
	MEASUREMENT PERMIT REQUIREMENT										
	MEASUREMENT PERMIT REQUIREMENT										
	MEASUREMENT PERMIT REQUIREMENT										
	MEASUREMENT PERMIT REQUIREMENT										

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NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Mr. Michael Holland
 Area Group Manager

Telephone
 631-344-3424

Typed or Printed

Signature of Principal Executive Officer or Authorized Agent

Date Signed

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 & A NEW RECHARGE BASIN IS CONSTRUCTED, DISCHARGE SHOULD BE DIRECTED TO THE NEW BASIN.

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
 U S O E
 ADDRESS BROOKHAVEN NATIONAL LABORATORY
 BROOKHAVEN AREA OFFICE
 UPTON NY 11973
 FACILITY BROOKHAVEN NATIONAL LABORATORY
 LOCATION UPTON NY 11973
 ATTN: GEORGE MALOSH, GROUP MGR

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

MAJOR

Permit Number NY0005835		005 M Discharge Number	
Monitoring Period		F - FINAL	
From	To	NSLS COOLING TOWR BLDN ETC (HS)	
YR MO DAY	YR MO DAY	*** No Discharge	
02 10 01	02 12 31	*** No Discharge	

Note: Read Instructions before completing this form

PARAMETER	QUANTITY OR LOADING				QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS		MINIMUM	AVERAGE	MAXIMUM	UNITS			
PH	*****	*****	*****	*****	7.2	*****	8.0	(12)	0	04/30	GR
00400 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	REPORT MINIMUM	*****	8.5 MAXIMUM	SU	0	ONCE/ MONTH	GRAB
OIL & GREASE	*****	*****	*****	*****	*****	*****	< 5.0	(19)	0	01/30	GR
00556 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	*****	15 DAILY MX	MG/L	0	ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	0.26	*****	(03)	*****	*****	*****	*****	*****	0	04/30	RC
50050 1 0 1 EFFLUENT GROSS VALUE	REPORT DAILY AV	*****	MGD	*****	*****	*****	*****	*****	0	ONCE/ MONTH	RCORDR

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.

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
 Mr. Michael Holland
 Area Group Manager

Telephone
 631-344-3424

Signature of Principal Executive Officer or Authorized Agent

Date Signed

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

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

NAME U S D O E
 ADDRESS BROOKHAVEN NATIONAL LABORATORY
 BROOKHAVEN AREA OFFICE
 UPTON NY 11973
 FACILITY BROOKHAVEN NATIONAL LABORATORY
 LOCATION UPTON NY 11973
 ATTN: GEORGE MALOSH, GROUP MGR

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

005 Q Discharge Number
 NY0005835 Permit Number
 MAJOR (SUBR 01) F - FINAL
 NSLS COOLG TOWR BLOWDN ETC (HS) *** No Discharge

Monitoring Period		From		To	
YR	MO	DAY	YR	MO	DAY
02	10	01	02	12	31

Note: Read Instructions before completing this form

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	MINIMUM	AVERAGE	MAXIMUM	UNITS			
COPPER, TOTAL (AS CU) 01042 1 0 0 See Note 1	SAMPLE MEASUREMENT	*****	*****	*****	0.0036	(19)	0	01/90	GR
	PERMIT REQUIREMENT	*****	*****	*****	1.0 DAILY MX	MG/L		QTRLY	GRAB
1-HYDROXY-ETHYLIDENE	SAMPLE MEASUREMENT	*****	*****	*****	< 0.05	(19)	0	01/90	GR
	PERMIT REQUIREMENT	*****	*****	*****	0.5 DAILY MX	MG/L		QTRLY	GRAB
85812 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	*****	< 0.005	(19)	0	01/90	GR
	PERMIT REQUIREMENT	*****	*****	*****	0.2 DAILY MX	MG/L		QTRLY	GRAB
TOLYTRIAZOLE	SAMPLE MEASUREMENT	*****	*****	*****					
	PERMIT REQUIREMENT	*****	*****	*****					
85813 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	*****					
	PERMIT REQUIREMENT	*****	*****	*****					

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Mr. Michael Holland Area Group Manager	Telephone 631-344-3424
Comments and Explanation of any violations (Reference all attachments here) 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
Typed or Printed	Date Signed

NO ADDITIONAL WATER TREATMENT CHEMICAL ADDITIVES W/O PRIOR NYSDEC APPROVAL. SEE PERMIT FOR ADDITIONAL NOTES, COMMENTS AND REQUIREMENTS.

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
 NAME U S D O E
 ADDRESS BROOKHAVEN NATIONAL LABORATORY
 BROOKHAVEN AREA OFFICE NY 11973
 UPTON
 FACILITY BROOKHAVEN NATIONAL LABORATORY
 LOCATION UPTON NY 11973
 ATTN: GEORGE MALOSH, GROUP MGR

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

MAJOR

Permit Number NY0005835
 Discharge Number 007 M
 (SUBR 01)
 F - FINAL

Monitoring Period From To
 YR MO DAY YR MO DAY
 02 10 01 02 12 31
 WATER TREATMENT PLT BKWSH (HX)
 *** No Discharge ****

Note: Read instructions before completing this form

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE				MAXIMUM	UNITS
FLOW RATE	*****	280000	(07)	*****	*****	0	53/30	IN
00056 1 0 0 EFFLUENT GROSS VALUE	*****	REPORT DAILY MX	GPD	*****	*****		ONCE/MONTH	INSTAN
PH	*****	*****		7.2	7.2	0	01/30	GR
00400 1 0 0 EFFLUENT GROSS VALUE	*****	*****		REPORT MINIMUM	9.0 MAXIMUM		ONCE/MONTH	GRAB

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.

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
 Mr. Michael Holland
 Area Group Manager
 Typed or Printed

Comments and Explanation of any violations (Reference all attachments here)
 SAMPLES TO BE COLLECTED AT EFFLUENT PIPE TO WHICH EVER 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

Telephone
 631-344-3424

Signature of Principal Executive Officer or Authorized Agent
 Date Signed

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
 U S O E
 BROOKHAVEN NATIONAL LABORATORY
 UPTON NY 11973
 BROOKHAVEN NATIONAL LABORATORY
 UPTON NY 11973
 ATTN: GEORGE MALOSH, GROUP MGR

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

MAJOR (SUBR 01)
 F - FINAL
 STORMWTR RUNOFF WAREHOUSE (HW)
 *** No Discharge

NY0005835 Permit Number
 008 M Discharge Number
 Monitoring Period
 From To
 YR MO DAY YR MO DAY
 02 10 01 02 12 31

Note: Read Instructions before completing this form

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE				MAXIMUM	UNITS
FLOW RATE	760	760	(07)	*****	*****	0	01/30	IN
00056 1 0 0 EFFLUENT GROSS VALUE PH	REPORT DAILY MX	*****	GPD	*****	*****	0	ONCE/MONTH	INSTAN
00400 1 0 0 EFFLUENT GROSS VALUE OIL & GREASE	*****	*****	*****	7.3	7.3	0	01/30	GR
00556 1 0 0 EFFLUENT GROSS VALUE 1,1-DICHLOROETHYLENE	*****	*****	*****	REPORT MINIMUM	8.5 MAXIMUM	0	ONCE/MONTH	GRAB
34501 1 0 0 EFFLUENT GROSS VALUE 1,1,1-TRICHLORO-ETHANE	*****	*****	*****	*****	< 5.0	0	01/30	GR
34506 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	15 DAILY MX	0	ONCE/MONTH	GRAB
	*****	*****	*****	*****	< 1	0	01/30	GR
	*****	*****	*****	*****	5 DAILY MX	0	ONCE/MONTH	GRAB
	*****	*****	*****	*****	< 1	0	01/30	GR
	*****	*****	*****	*****	5 DAILY MX	0	ONCE/MONTH	GRAB

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.

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
 Mr. Michael Holland
 Area Group Manager

Telephone
 631-344-3424

Signature of Principal Executive Officer or Authorized Agent

Date Signed

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

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

NAME U S O E
 ADDRESS BROOKHAVEN NATIONAL LABORATORY
 BROOKHAVEN AREA OFFICE
 UPTON NY 11973
 FACILITY BROOKHAVEN NATIONAL LABORATORY
 LOCATION UPTON NY 11973
 ATTN: GEORGE MALOSH, GROUP MGR

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

010 M Discharge Number
 (SUBR 01)
 F - FINAL
 MAJOR
 STORMWTR R O CENTRAL STEAM (H)
 *** No Discharge

Note: Read Instructions before completing this form

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW RATE	*****	1100	*****	*****	*****	*****	0	01/30	IN
00056 1 0 0 EFFLUENT GROSS VALUE	*****	REPORT DAILY MX	*****	*****	*****	*****	0	ONCE/MONTH	INSTAN
PH	*****	*****	7.4	*****	7.4	(12)	0	01/30	GR
00400 1 0 0 EFFLUENT GROSS VALUE	*****	*****	REPORT MINIMUM	*****	8.5	SU	0	ONCE/MONTH	GRAB
OIL & GREASE	*****	*****	*****	*****	<5.0	(19)	0	01/30	GR
00556 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	15	MG/L	0	ONCE/MONTH	GRAB

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.

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
 Mr. Michael Holland
 Area Group Manager
 Signature of Principal Executive Officer or Authorized Agent

Telephone
 631-344-3424

Date Signed

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

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
 NAME U S D O E
 ADDRESS BROOKHAVEN NATIONAL LABORATORY
 BROOKHAVEN AREA OFFICE NY 11973
 UPTON
 FACILITY BROOKHAVEN NATIONAL LABORATORY
 LOCATION UPTON NY 11973
 ATTN: GEORGE MALOSH, GROUP MGR

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

Permit Number NY0005835
 Monitoring Period From 02 10 01 02 12 31 To 06A M (SUBR 01) Discharge Number F - FINAL

MAJOR LINAC NCCW, FLOOR DNS, ETC (HT1) *** No Discharge ***

Note: Read Instructions before completing this form

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				UNITS
PH	*****	*****		7.2	*****	8.1	0	04/30	GR
00400 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	REPORT MINIMUM	*****	9.0 MAXIMUM	0	ONCE/MONTH	GRAB
OIL & GREASE	*****	*****	*****	*****	*****	< 5.0	0	01/30	GR
00556 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	15 DAILY MX	0	ONCE/MONTH	GRAB
THRU TREATMENT PLANT	0.037	*****	(03)	*****	*****	*****	0	04/30	RC
50050 1 0 1 EFFLUENT GROSS VALUE	REPORT DAILY AV.	*****	MGD	*****	*****	*****	0	ONCE/MONTH	RCORDR
MEASUREMENT									
PERMIT REQUIREMENT									
SAMPLE									
MEASUREMENT									
PERMIT REQUIREMENT									
SAMPLE									
MEASUREMENT									
PERMIT REQUIREMENT									
SAMPLE									
MEASUREMENT									
PERMIT REQUIREMENT									
SAMPLE									
MEASUREMENT									
PERMIT REQUIREMENT									

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.

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
 Mr. Michael Holland
 Area Group Manager
 Typed or Printed

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

Signature of Principal Executive Officer or Authorized Agent
 Telephone 631-344-3424
 Date Signed



Report of Noncompliance Event

NY Contact: R. Sorrentino

DEC Region: _____

Region: _____

Violations: _____ Other Violation: _____ Anticipated Noncompliance: _____ Bypass/Overflow: _____

SECTION 2

SPDES #: NY-0005833 Facility: U.S. Department of Energy Brookhaven National Laboratory

Date of Noncompliance: 12/20/02 Location: (Outfall) Treatment Unit or Pier Station: 002

Description of cause (operator(s) and cassette): The pH at Outfall 002 on 12/20/02 at 1123 was measured at 9.35
PH during weekly flow chart exchange and water quality measurement. A reading 15 minutes later
confirmed the elevation with a pH reading of 9.19 SU. The permit limit value is 9.0 SU. The
cause was determined to be stormwater run off from a construction site.

ATTACHMENT II

BROOKHAVEN NATIONAL LABORATORY

SPDES PERMIT NO. NY0005835

DISCHARGE MONITORING REPORT FOR DECEMBER 2002

NON-COMPLIANCE REPORT

Immediate corrective actions: DISCHARGE MONITORING REPORT FOR DECEMBER 2002
elevated pH of H2SO4 due to its interaction with a recently added concrete curb and
installed crushed concrete parking lot. The site within the stormwater
which feeds outfall 002. Total catchment area is 1.5 acres located from 12/20/02
to 12/23/02. Mr. Sorrentino, NYDEC Region 1, advised that no mitigative actions were needed.

Long term corrective actions: Mr. Sorrentino asked that the pH be rechecked on 12/23/02 to ensure
values had returned to normal. The pH was measured at 09:14 on 12/23/02; value was 8.06 SU.
A follow-up meeting will be held to discuss possible preventive actions.

SECTION 3

Describe this section if event was a bypass:

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

DEC Official consulted: _____ Date of DEC approval: _____

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: _____ Title: _____ Date: _____

Phone #: _____ Fax #: _____

ATTACHMENT III

BROOKHAVEN NATIONAL LABORATORY

SPDES PERMIT NO. NY0005835

DISCHARGE MONITORING REPORT FOR DECEMBER 2002

ANALYTICAL RESULTS FROM H2M LABS, INC.

FOR REGULATORY COMPLIANCE SAMPLES COLLECTED

12/2/02, 12/4/02 AND 12/6/02

FROM OUTFALL 001

INORGANIC ANALYSIS DATA SHEET

15784-001

Lab Name: H2M_LABS, INC.

Contract: _____

Lab Code: 10478

Case No.: _____

SAS No.: _____

SDG No.: BNLS710

Matrix (soil/water): WATER

Lab Sample ID: 0212024-001

Level (low/med): LOW

Date Received: 12/02/02

% Solids: _____

Concentration Units (ug/L or mg/kg dry weight):

UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	46.3	B		P
7440-36-0	Antimony	3.4	U		P
7440-38-2	Arsenic	1.8	U		P
7440-39-3	Barium	14.7	B		P
7440-41-7	Beryllium	0.16	B		P
7440-43-9	Cadmium	0.10	U		P
7440-70-2	Calcium	11700			P
7440-47-3	Chromium	1.2	B		P
7440-48-4	Cobalt	0.70	B		P
7440-50-8	Copper	31.2			P
7439-89-6	Iron	174			P
7439-92-1	Lead	0.80	U		P
7439-95-4	Magnesium	3310	B		P
7439-96-5	Manganese	3.6	B		P
7439-97-6	Mercury	0.10	B		CV
7440-02-0	Nickel	3.8	B		P
7440-09-7	Potassium	4510	B		P
7782-49-2	Selenium	2.6	U		P
7440-22-4	Silver	1.0	B		P
7440-23-5	Sodium	29200			P
7440-28-0	Thallium	3.1	B		P
7440-62-2	Vanadium	2.0	B		P
7440-66-6	Zinc	35.1		E	P
	Cyanide				NR

*Cutoff 501
Sampled 12-2-02
24 Hr. Composite*

Color Before: COLORLESS Clarity Before: CLEAR

Texture: _____

Color After: COLORLESS Clarity After: CLEAR

Artifacts: _____

Comments: DATE REPORTED 12/18/02

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

15789-001

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478 Case No.: _____

SAS No.: _____

SDG No.: BNLS710

Matrix (soil/water): WATER

Lab Sample ID: 0212128-001

Level (low/med): LOW

Date Received: 12/04/02

% Solids: _____

Concentration Units (ug/L or mg/kg dry weight):

UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	52.3	B		P
7440-36-0	Antimony	3.4	U		P
7440-38-2	Arsenic	1.8	U		P
7440-39-3	Barium	18.0	B		P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.10	U		P
7440-70-2	Calcium	14100			P
7440-47-3	Chromium	0.85	B		P
7440-48-4	Cobalt	0.63	B		P
7440-50-8	Copper	40.9			P
7439-89-6	Iron	196			P
7439-92-1	Lead	0.80	U		P
7439-95-4	Magnesium	3720	B		P
7439-96-5	Manganese	2.8	B		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	6.6	B		P
7440-09-7	Potassium	5170			P
7782-49-2	Selenium	2.6	U		P
7440-22-4	Silver	0.80	U		P
7440-23-5	Sodium	33600			P
7440-28-0	Thallium	2.5	U		P
7440-62-2	Vanadium	1.9	B		P
7440-66-6	Zinc	47.3		E	P
	Cyanide				NR

outfall 001
Sampled 12-4-02
24 Hr. Composite

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____
Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: DATE REPORTED 12/18/02

BNLS710 S 69

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

15792-001

Lab Name: H2M_LABS, INC. _____

Contract: _____

Lab Code: 10478_

Case No.: _____

SAS No.: _____

SDG No.: BNLS710

Matrix (soil/water): WATER_

Lab Sample ID: 0212178-001_

Level (low/med): LOW_

Date Received: 12/06/02_

% Solids: _____

Concentration Units (ug/L or mg/kg dry weight):

UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	84.0	B		P
7440-36-0	Antimony	3.4	U		P
7440-38-2	Arsenic	1.8	U		P
7440-39-3	Barium	18.6	B		P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.10	U		P
7440-70-2	Calcium	14700			P
7440-47-3	Chromium	1.1	B		P
7440-48-4	Cobalt	0.71	B		P
7440-50-8	Copper	42.7			P
7439-89-6	Iron	198			P
7439-92-1	Lead	0.80	U		P
7439-95-4	Magnesium	3840	B		P
7439-96-5	Manganese	3.1	B		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	4.7	B		P
7440-09-7	Potassium	5410			P
7782-49-2	Selenium	2.6	U		P
7440-22-4	Silver	0.80	U		P
7440-23-5	Sodium	34900			P
7440-28-0	Thallium	2.5	U		P
7440-62-2	Vanadium	1.6	B		P
7440-66-6	Zinc	52.7		E	P
	Cyanide				NR

*cutfall 001
Sampled 12-6-02
24 Hr. Composite*

Color Before: COLORLESS_

Clarity Before: CLEAR_

Texture: _____

Color After: COLORLESS_

Clarity After: CLEAR_

Artifacts: _____

Comments:

DATE REPORTED 12/18/02 _____

H2M LABS, INC.

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

LABORATORY RESULTS

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

Lab No. : 0212024-001

Sample Information...
Type : Aqueous

Origin:

Client ID. : 15784-001

Collected 12/2/2002 10:40:00 AM
Received 12/2/2002 3:12:00 PM
Collected By CLIENT
Copies To Bob Lee

Parameter(s)	Results	Units	Method Number	Analyzed
Biochemical Oxygen Demand	< 2	mg/L	E405.1	12/2/2002 2:02:00 PM
Nitrogen, Total	3.9	mg/L	M4500-N C	12/11/2002
Nitrogen, Ammonia (As N)	< 0.10	mg/L	E350.1	12/6/2002 3:40:44 PM
Nitrite as N	0.05	mg/L	E353.2	12/4/2002 9:51:03 AM
Nitrate as N	3.52	mg/L	E353.2	12/10/2002 6:22:03 PM
Phosphorus, Total (As P)	1.03	mg/L	E365.2	12/11/2002 7:02:00 AM
Nitrogen, Kjeldahl, Total	0.34	mg/L	E351.2	12/7/2002 1:41:06 PM
Suspended Solids	< 4	mg/L	E160.2	12/3/2002 2:19:00 PM

Out fall 001
Sampled 12-2-02
24 Hr. Composite

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

Date Reported : 1/2/2003

Joann M. Slavin

Laboratory Manager

H2M LABS, INC.

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

LABORATORY RESULTS

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

Lab No. : 0212024-004

Sample Information...
Type : Aqueous

Origin:

Client ID. : 15784-004

Collected 12/2/2002
Received 12/2/2002 3:12:00 PM
Collected By CLIENT
Copies To Bob Lee

<u>Parameter(s)</u>	<u>Results</u>	<u>Units</u>	<u>Method Number</u>	<u>Analyzed</u>
Biochemical Oxygen Demand	< 2	mg/L	E405.1	12/2/2002 2:05:00 PM

outfall 001
Sampled 12-2-02
24 Hr. Composite
Duplicate

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

Date Reported : 1/2/2003

Joann M. Slavin

Laboratory Manager

H2M LABS, INC.

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

LABORATORY RESULTS

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

Lab No. : 0212128-001

Sample Information...
Type : Aqueous

Origin:

Client ID. : 15789-001

Collected 12/4/2002 9:06:00 AM
Received 12/4/2002 3:35:00 PM
Collected By CLIENT
Copies To Bob Lee

<u>Parameter(s)</u>	<u>Results</u>	<u>Units</u>	<u>Method Number</u>	<u>Analyzed</u>
Biochemical Oxygen Demand	< 2	mg/L	E405.1	12/5/2002 2:13:00 PM
Nitrogen, Total	4.4	mg/L	M4500-N C	12/11/2002
Nitrogen, Ammonia (As N)	< 0.10	mg/L	E350.1	12/6/2002 3:43:43 PM
Nitrite as N	0.08	mg/L	E353.2	12/6/2002 11:08:30 AM
Nitrate as N	3.88	mg/L	E353.2	12/10/2002 6:25:22 PM
Phosphorus, Total (As P)	0.98	mg/L	E365.2	12/11/2002 7:05:00 AM
Nitrogen, Kjeldahl, Total	0.41	mg/L	E351.2	12/7/2002 1:43:18 PM
Suspended Solids	< 4	mg/L	E160.2	12/11/2002 3:02:00 PM

outfall 001
Sampled 12-4-02
24 Hr. Composite

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

Date Reported : 1/2/2003

Joann M. Slavin

Laboratory Manager

H2M LABS, INC.

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

LABORATORY RESULTS

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

Lab No. : 0212178-001

Sample Information...

Type : Aqueous

Origin:

Client ID. : 15792-001

Collected 12/6/2002 10:17:00 AM

Received 12/6/2002 3:37:00 PM

Collected By CLIENT

Copies To Bob Lee

<u>Parameter(s)</u>	<u>Results</u>	<u>Units</u>	<u>Method Number</u>	<u>Analyzed</u>
Biochemical Oxygen Demand	< 2	mg/L	E405.1	12/7/2002 2:02:00 PM
Nitrogen, Total	8.5	mg/L	M4500-N C	12/19/2002
Nitrogen, Ammonia (As N)	0.11	mg/L	E350.1	12/17/2002 1:44:46 PM
Nitrite as N	0.02	mg/L	E353.2	12/7/2002 11:18:16 AM
Nitrate as N	8.05	mg/L	E353.2	12/10/2002 6:26:01 PM
Phosphorus, Total (As P)	1.17	mg/L	E365.2	12/11/2002 7:06:00 AM
Nitrogen, Kjeldahl, Total	0.52	mg/L	E351.2	12/18/2002 4:31:51 PM
Suspended Solids	< 8	mg/L	E160.2	12/9/2002 12:24:00 AM

Outfall 001
Sampled 12-6-02
24 Hr. Composite

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

Date Reported : 1/2/2003

Joann M. Slavin

Laboratory Manager

H2M LABS, INC.

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

LABORATORY RESULTS

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

Lab No. : 0212024-002

Sample Information...
Type : Aqueous

Origin:

Client ID. : 15784-002

Collected 12/2/2002 2:10:00 PM
Received 12/2/2002 3:12:00 PM
Collected By CLIENT
Copies To Bob Lee

<u>Parameter(s)</u>	<u>Results</u>	<u>Units</u>	<u>Method Number</u>	<u>Analyzed</u>
Fecal Coliform	< 2	MPN	M9221 C	12/2/2002 4:00:00 PM

Outfall 001
Sampled 12-2-02
Grab Sample

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

Date Reported : 1/2/2003

Joann M. Slavin

Laboratory Manager

H2M LABS, INC.

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

LABORATORY RESULTS

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

Lab No. : 0212178-002

Sample Information...
Type : Aqueous
Origin:

Client ID. : 15792-002

Collected 12/6/2002 2:00:00 PM
Received 12/6/2002 3:37:00 PM
Collected By CLIENT
Copies To Bob Lee

Parameter(s)	Results	Units	Method Number	Analyzed
Fecal Coliform	< 2	MPN	M9221 C	12/6/2002 5:15:00 PM

Outfall 001
Sampled 12-6-02
Grab Sample

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

Date Reported : 1/2/2003

Joann M. Slavin

Laboratory Manager

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

15784-002

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478

Case No.: _____

SAS No.: _____

SDG No.: BNLS710

Matrix (soil/water): WATER

Lab Sample ID: 0212024-002

Level (low/med): LOW

Date Received: 12/02/02

% Solids: _____

Concentration Units (ug/L or mg/kg dry weight):

UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide	10.0	U		CA

Outfall 001
Sampled 12-2-02
Grab Sample

Color Before: _____

Clarity Before: _____

Texture: _____

Color After: _____

Clarity After: _____

Artifacts: _____

Comments:

DATE REPORTED 12/18/02

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

15789-002

Lab Name: H2M_LABS, INC.

Contract: _____

Lab Code: 10478

Case No.: _____

SAS No.: _____

SDG No.: BNLS710

Matrix (soil/water): WATER

Lab Sample ID: 0212128-002

Level (low/med): LOW

Date Received: 12/04/02

% Solids: _____

Concentration Units (ug/L or mg/kg dry weight):

UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide	10.0	U		CA

Outfall 001
Sampled 12-4-02
Grab Sample

Color Before: _____

Clarity Before: _____

Texture: _____

Color After: _____

Clarity After: _____

Artifacts: _____

Comments:

DATE REPORTED 12/18/02

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

15792-002

Lab Name: H2M_LABS, INC. _____

Contract: _____

Lab Code: 10478_ Case No.: _____

SAS No.: _____

SDG No.: BNLS710

Matrix (soil/water): WATER_

Lab Sample ID: 0212178-002_

Level (low/med): LOW_

Date Received: 12/06/02_

% Solids: _____

Concentration Units (ug/L or mg/kg dry weight):

UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide	10.0	U		CA

*Outfall 001
Sampled 12-6-02
Grab Sample*

Color Before: _____

Clarity Before: _____

Texture: _____

Color After: _____

Clarity After: _____

Artifacts: _____

Comments:

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

15784-002

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478Case No.: BNLS

SAS No.: _____

SDG No.: BNLS710Matrix: (soil/water) WATERLab Sample ID: 0212024-002ASample wt/vol: 5 (g/mL) MLLab File ID: V\F11405.DLevel: (low/med) LOWDate Received: 12/02/02

% Moisture: not dec.

Date Analyzed: 12/09/02GC Column: HP-VOCOL ID: .2 (mm)Dilution Factor: 1.00

Soil Extract Volume: _____ (µL)

Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	UG/L	Q
74-87-3	Chloromethane		1	U
75-01-4	Vinyl chloride		1	U
74-83-9	Bromomethane		1	U
75-00-3	Chloroethane		1	U
75-69-4	Trichlorofluoromethane		1	U
67-64-1	Acetone		3	J
75-35-4	1,1-Dichloroethene		1	U
75-09-2	Methylene chloride		1	U
75-15-0	Carbon disulfide		1	U
156-60-5	trans-1,2-Dichloroethene		1	U
156-59-2	cis-1,2-Dichloroethene		1	U
108-05-4	Vinyl acetate		1	U
75-34-3	1,1-Dichloroethane		1	U
78-93-3	2-Butanone		5	U
67-66-3	Chloroform		1	U
107-06-2	1,2-Dichloroethane		1	U
71-55-6	1,1,1-Trichloroethane		1	U
56-23-5	Carbon tetrachloride		1	U
71-43-2	Benzene		1	U
79-01-6	Trichloroethene		1	U
78-87-5	1,2-Dichloropropane		1	U
75-27-4	Bromodichloromethane		1	U
110-75-8	2-Chloroethylvinyl ether		1	U
10061-01-5	cis-1,3-Dichloropropene		1	U
10061-02-6	trans-1,3-Dichloropropene		1	U
79-00-5	1,1,2-Trichloroethane		1	U
100-41-4	Ethylbenzene		1	U
124-48-1	Dibromochloromethane		1	U
75-25-2	Bromoform		1	U
108-10-1	4-Methyl-2-pentanone		5	U
591-78-6	2-Hexanone		5	U
108-88-3	Toluene		1	U

outfall 001
 Sampled 12-2-02
 Grab Sample

FORM I VOA - 1

OLM04.2

BNLS710 S 56

VOLATILE ORGANICS ANALYSIS DATA SHEET

15789-002

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478Case No.: BNLS

SAS No.: _____

SDG No.: BNLS710Matrix: (soil/water) WATERLab Sample ID: 0212128-002ASample wt/vol: 5 (g/mL) MLLab File ID: V\F11409.DLevel: (low/med) LOWDate Received: 12/04/02

% Moisture: not dec.

Date Analyzed: 12/10/02GC Column: HP-VOCOL ID: .2 (mm)Dilution Factor: 1.00

Soil Extract Volume: _____ (µL)

Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	UG/L	Q
74-87-3	Chloromethane		1	U
75-01-4	Vinyl chloride		1	U
74-83-9	Bromomethane		1	U
75-00-3	Chloroethane		1	U
75-69-4	Trichlorofluoromethane		1	U
67-64-1	Acetone		5	
75-35-4	1,1-Dichloroethene		1	U
75-09-2	Methylene chloride		1	U
75-15-0	Carbon disulfide		1	U
156-60-5	trans-1,2-Dichloroethene		1	U
156-59-2	cis-1,2-Dichloroethene		1	U
108-05-4	Vinyl acetate		1	U
75-34-3	1,1-Dichloroethane		1	U
78-93-3	2-Butanone		5	U
67-66-3	Chloroform		1	U
107-06-2	1,2-Dichloroethane		1	U
71-55-6	1,1,1-Trichloroethane		1	U
56-23-5	Carbon tetrachloride		1	U
71-43-2	Benzene		1	U
79-01-6	Trichloroethene		1	U
78-87-5	1,2-Dichloropropane		1	U
75-27-4	Bromodichloromethane		1	U
110-75-8	2-Chloroethylvinyl ether		1	U
10061-01-5	cis-1,3-Dichloropropene		1	U
10061-02-6	trans-1,3-Dichloropropene		1	U
79-00-5	1,1,2-Trichloroethane		1	U
100-41-4	Ethylbenzene		1	U
124-48-1	Dibromochloromethane		1	U
75-25-2	Bromoform		1	U
108-10-1	4-Methyl-2-pentanone		5	U
591-78-6	2-Hexanone		5	U
108-88-3	Toluene		1	U

outfall ca
 Sampled 12-4-02
 Grab Sample

FORM I VOA - 1

OLM04.2

BNLS710 S 71

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

15789-002

Lab Name: H2MLABS, INC. Contract: _____

Lab Code: 10478 Case No.: BNLS SAS No.: _____ SDG No.: BNLS710

Matrix: (soil/water) WATER Lab Sample ID: 0212128-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: V\F11409.D

Level: (low/med) LOW Date Received: 12/04/02

% Moisture: not dec. Date Analyzed: 12/10/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND.	(µg/L or µg/Kg)	<u>UG/L</u>	Q
127-18-4	Tetrachloroethene		1	U
108-90-7	Chlorobenzene		1	U
1330-20-7	Xylene (total)		1	U
79-34-5	1,1,2,2-Tetrachloroethane		1	U
541-73-1	1,3-Dichlorobenzene		1	U
106-46-7	1,4-Dichlorobenzene		1	U
95-50-1	1,2-Dichlorobenzene		1	U

*outfall 001
Sampled 12-4-02
Grab Sample*

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

15792-002

Lab Name: H2MLABS, INC.

Contract: _____

Lab Code: 10478

Case No.: BNLS

SAS No.: _____

SDG No.: BNLS710

Matrix: (soil/water) WATER

Lab Sample ID: 0212178-002A

Sample wt/vol: 5 (g/mL) ML

Lab File ID: V\F11411.D

Level: (low/med) LOW

Date Received: 12/06/02

% Moisture: not dec.

Date Analyzed: 12/10/02

GC Column: HP-VOCOL ID: .2 (mm)

Dilution Factor: 1.00

Soil Extract Volume: _____ (µL)

Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	UG/L	Q
74-87-3	Chloromethane		1	U
75-01-4	Vinyl chloride		1	U
74-83-9	Bromomethane		1	U
75-00-3	Chloroethane		1	U
75-69-4	Trichlorofluoromethane		1	U
67-64-1	Acetone		3	J
75-35-4	1,1-Dichloroethene		1	U
75-09-2	Methylene chloride		1	U
75-15-0	Carbon disulfide		1	U
156-60-5	trans-1,2-Dichloroethene		1	U
156-59-2	cis-1,2-Dichloroethene		1	U
108-05-4	Vinyl acetate		1	U
75-34-3	1,1-Dichloroethane		1	U
78-93-3	2-Butanone		5	U
67-66-3	Chloroform		1	U
107-06-2	1,2-Dichloroethane		1	U
71-55-6	1,1,1-Trichloroethane		1	U
56-23-5	Carbon tetrachloride		1	U
71-43-2	Benzene		1	U
79-01-6	Trichloroethene		1	U
78-87-5	1,2-Dichloropropane		1	U
75-27-4	Bromodichloromethane		1	U
110-75-8	2-Chloroethylvinyl ether		1	U
10061-01-5	cis-1,3-Dichloropropene		1	U
10061-02-6	trans-1,3-Dichloropropene		1	U
79-00-5	1,1,2-Trichloroethane		1	U
100-41-4	Ethylbenzene		1	U
124-48-1	Dibromochloromethane		1	U
75-25-2	Bromoform		1	U
108-10-1	4-Methyl-2-pentanone		5	U
591-78-6	2-Hexanone		5	U
108-88-3	Toluene		1	U

Outfall 001
Sampled 12-6-02
Grab Sample

FORM I VOA - 1

OLM04.2

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VOLATILE ORGANICS ANALYSIS DATA SHEET

15792-002

Lab Name: H2MLABS, INC.

Contract: _____

Lab Code: 10478Case No.: BNLS

SAS No.: _____

SDG No.: BNLS710Matrix: (soil/water) WATERLab Sample ID: 0212178-002ASample wt/vol: 5 (g/mL) MLLab File ID: V\F11411.DLevel: (low/med) LOWDate Received: 12/06/02

% Moisture: not dec.

Date Analyzed: 12/10/02GC Column: HP-VOCOL ID: .2 (mm)Dilution Factor: 1.00

Soil Extract Volume: _____ (μL)

Soil Aliquot Volume _____ (μL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μg/L or μg/Kg)	UG/L	Q
127-18-4	Tetrachloroethene		1	U
108-90-7	Chlorobenzene		1	U
1330-20-7	Xylene (total)		1	U
79-34-5	1,1,2,2-Tetrachloroethane		1	U
541-73-1	1,3-Dichlorobenzene		1	U
106-46-7	1,4-Dichlorobenzene		1	U
95-50-1	1,2-Dichlorobenzene		1	U

cutfall 001
 Sampled 12-6-02
 Grab Sample

1E
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

15784-002

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: BNLS SAS No.: _____ SDG No.: BNLS710

Matrix: (soil/water) WATER Lab Sample ID: 0212024-002D

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A20964.RAW

% Moisture: _____ Decanted: (Y/N) N Date Received: 12/02/02

Extraction: (Type) _____ CONT Date Extracted: 12/06/02

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/12/02

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
57-74-9	Chlordane	1.0	U
8001-35-2	Toxaphene	5.0	U

*outfall 001
Sampled 12-2-02
Grab Sample*

IE
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

15789-002

Lab Name: H2MLABS, INC.

Contract: _____

Lab Code: 10478

Case No.: BNLS

SAS No.: _____

SDG No.: BNLS710

Matrix: (soil/water) WATER

Lab Sample ID: 0212128-002D

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: A20965.RAW

% Moisture: _____ Decanted: (Y/N) N

Date Received: 12/04/02

Extraction: (Type) CONT

Date Extracted: 12/06/02

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 12/12/02

Injection Volume: 0.5 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
57-74-9	Chlordane	1.0	U
8001-35-2	Toxaphene	5.0	U

*Outfall 001
Sampled 12-4-02
Grab Sample*

IE
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

15792-002

Lab Name: H2MLABS, INC. Contract: _____

Lab Code: 10478 Case No.: BNLS SAS No.: _____ SDG No.: BNLS710

Matrix: (soil/water) WATER Lab Sample ID: 0212178-002D

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A20966.RAW

% Moisture: Decanted: (Y/N) N Date Received: 12/06/02

Extraction: (Type) CONT Date Extracted: 12/09/02

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/12/02

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.21	P
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
57-74-9	Chlordane	1.0	U
8001-35-2	Toxaphene	5.0	U

*outfall 001
Sampled 12-6-02
Grab Sample*

1E
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

15784-002LL

Lab Name: H2MLABS, INC. Contract: _____

Lab Code: 10478 Case No.: BNLS SAS No.: _____ SDG No.: BNLS710

Matrix: (soil/water) WATER Lab Sample ID: 0212024-002D

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A20969.RAW

% Moisture: _____ Decanted: (Y/N) N Date Received: 12/02/02

Extraction: (Type) CONT Date Extracted: 12/06/02

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/12/02

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UGL	Q
12674-11-2	Aroclor 1016	0.065	U
11104-28-2	Aroclor 1221	0.065	U
11141-16-5	Aroclor 1232	0.065	U
53469-21-9	Aroclor 1242	0.065	U
12672-29-6	Aroclor 1248	0.065	U
11097-69-1	Aroclor 1254	0.065	U
11096-82-5	Aroclor 1260	0.065	U

*Outfall 001
Sampled 12-2-02
Grab Sample*

1E
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

15789-002LL

Lab Name: H2MLABS, INC. Contract: _____

Lab Code: 10478 Case No.: BNLS SAS No.: _____ SDG No.: BNLS710

Matrix: (soil/water) WATER Lab Sample ID: 0212128-002D

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A20970.RAW

% Moisture: _____ Decanted: (Y/N) N Date Received: 12/04/02

Extraction: (Type) CONT Date Extracted: 12/06/02

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/12/02

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
12674-11-2	Aroclor 1016	0.065	U
11104-28-2	Aroclor 1221	0.065	U
11141-16-5	Aroclor 1232	0.065	U
53469-21-9	Aroclor 1242	0.065	U
12672-29-6	Aroclor 1248	0.065	U
11097-69-1	Aroclor 1254	0.065	U
11096-82-5	Aroclor 1260	0.065	U

*Outfall 001
Sampled 12-4-02
Grab Sample*

IE
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

15792-002LL

Lab Name: H2MLABS, INC. Contract: _____

Lab Code: 10478 Case No.: BNLS SAS No.: _____ SDG No.: BNLS710

Matrix: (soil/water) WATER Lab Sample ID: 0212178-002D

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A20971.RAW

% Moisture: Decanted: (Y/N) N Date Received: 12/06/02

Extraction: (Type) CONT Date Extracted: 12/09/02

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/12/02

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
12674-11-2	Aroclor 1016	0.065	U
11104-28-2	Aroclor 1221	0.065	U
11141-16-5	Aroclor 1232	0.065	U
53469-21-9	Aroclor 1242	0.065	U
12672-29-6	Aroclor 1248	0.065	U
11097-69-1	Aroclor 1254	0.065	U
11096-82-5	Aroclor 1260	0.065	U

*outfall 001
Sampled 12-6-02
Grab Sample*

H2M LABS, INC.

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

LABORATORY RESULTS

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

Lab No. : **0212024-003**

Sample Information...
Type : Aqueous

Origin:

Client ID. : 15784-003

Collected 12/2/2002 11:30:00 AM
Received 12/2/2002 3:12:00 PM
Collected By CLIENT
Copies To Bob Lee

<u>Parameter(s)</u>	<u>Results</u>	<u>Units</u>	<u>Method Number</u>	<u>Analyzed</u>
Biochemical Oxygen Demand	29	mg/L	E405.1	12/2/2002 2:04:00 PM
Suspended Solids	50	mg/L	E160.2	12/3/2002 2:20:00 PM

STP Influent
Sampled 12-2-02
Grav 24 Hr. Composite
MS
1-6-03

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

Date Reported : 1/2/2003

Joann M. Slavin

Laboratory Manager

H2M LABS, INC.

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

LABORATORY RESULTS

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

Lab No. : 0212128-003

Sample Information...

Type : Aqueous

Origin:

Client ID. : 15789-003

Collected 12/4/2002 9:15:00 AM
Received 12/4/2002 3:35:00 PM
Collected By CLIENT
Copies To Bob Lee

<u>Parameter(s)</u>	<u>Results</u>	<u>Units</u>	<u>Method Number</u>	<u>Analyzed</u>
Biochemical Oxygen Demand	52	mg/L	E405.1	12/5/2002 2:14:00 PM
Suspended Solids	78	mg/L	E160.2	12/11/2002 3:03:00 PM

STP Influent
Sampled 12-4-02
24 Hr. Composite.

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

Date Reported : 1/2/2003

Joann M. Slavin

Laboratory Manager

H2M LABS, INC.

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

LABORATORY RESULTS

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

Lab No. : 0212178-003

Sample Information...
Type : Aqueous

Origin:

Client ID. : 15792-003

Collected 12/6/2002 11:19:00 AM
Received 12/6/2002 3:37:00 PM
Collected By CLIENT
Copies To Bob Lee

<u>Parameter(s)</u>	<u>Results</u>	<u>Units</u>	<u>Method Number</u>	<u>Analyzed</u>
Biochemical Oxygen Demand	37	mg/L	E405.1	12/7/2002 2:03:00 PM
Suspended Solids	24	mg/L	E160.2	12/9/2002 2:07:00 PM

STP Influent
Sampled 12-6-02
24 Hr. Composite

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

Date Reported : 1/2/2003

Joann M. Slavin

Laboratory Manager

H2M LABS, INC.

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

LABORATORY RESULTS

Sample Information...

Type : Aqueous

Origin:

Brookhaven National Lab. -BNLS

70 Bell Ave.

Upton, NY 11973

Attn To : S. SCARPITTA

Lab No. : 0212178-003

Client ID. : 15792-003

Collected 12/6/2002 11:19:00 AM

Received 12/6/2002 3:37:00 PM

Collected By CLIENT

Copies To Bob Lee

<u>Parameter(s)</u>	<u>Results</u>	<u>Units</u>	<u>Method Number</u>	<u>Analyzed</u>
Biochemical Oxygen Demand	37	mg/L	E405.1	12/7/2002 2:03:00 PM
Suspended Solids	24	mg/L	E160.2	12/9/2002 2:07:00 PM

STP Influent
Sampled 12-6-02
24 Hr. Composite

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

Date Reported : 1/2/2003

Joann M. Slavin

Laboratory Manager

ATTACHMENT IV
BROOKHAVEN NATIONAL LABORATORY
SPDES PERMIT NO. NY0005835
DISCHARGE MONITORING REPORT FOR DECEMBER 2002
ANALYTICAL RESULTS FROM H2M LABS INC.
FOR REGULATORY COMPLIANCE SAMPLES COLLECTED
FROM OUTFALLS 001A, 001B, 001D, 002, 002B, 005, 006A, 006B, 008, AND 010

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

15385-001

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478Case No.: BNLS

SAS No.: _____

SDG No.: BNLS696Matrix: (soil/water) WATERLab Sample ID: 0210517-001BSample wt/vol: 1000 (g/mL) MLLab File ID: A\C21827.D *outfall 001A*Level: (low/med) LOWDate Received: 10/16/02 *Sampled 10-15-02*% Moisture: Decanted: (Y/N) NDate Extracted: 10/21/02 *Grab Sample*Concentrated Extract Volume: 1000 (µL)Date Analyzed: 10/24/02

Injection Volume: (µL)

Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: _____Extraction: (Type) CONT

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	Q
62-75-9	N-Nitrosodimethylamine	10	U
108-95-2	Phenol	10	U
111-44-4	Bis(2-chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	25	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	Bis(2-chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

15385-001

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478Case No.: BNLS

SAS No.: _____

SDG No.: BNLS696Matrix: (soil/water) WATERLab Sample ID: 0210517-001BSample wt/vol: 1000 (g/mL) MLLab File ID: A\C21827.DLevel: (low/med) LOWDate Received: 10/16/02% Moisture: Decanted: (Y/N) NDate Extracted: 10/21/02Concentrated Extract Volume: 1000 (µL)Date Analyzed: 10/24/02

Injection Volume: (µL)

Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: _____Extraction: (Type) CONT

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	UG/L	Q
118-74-1	Hexachlorobenzene	10		U
87-86-5	Pentachlorophenol	25		U
85-01-8	Phenanthrene	10		U
120-12-7	Anthracene	10		U
84-74-2	Di-n-butyl phthalate	10		U
206-44-0	Fluoranthene	10		U
129-00-0	Pyrene	10		U
85-68-7	Butyl benzyl phthalate	10		U
56-55-3	Benzo(a)anthracene	10		U
91-94-1	3,3'-Dichlorobenzidine	20		U
218-01-9	Chrysene	10		U
117-81-7	Bis(2-ethylhexyl)phthalate	87		E
117-84-0	Di-n-octyl phthalate	10		U
205-99-2	Benzo(b)fluoranthene	10		U
207-08-9	Benzo(k)fluoranthene	10		U
50-32-8	Benzo(a)pyrene	10		U
193-39-5	Indeno(1,2,3-cd)pyrene	10		U
53-70-3	Dibenzo(a,h)anthracene	10		U
191-24-2	Benzo(g,h,i)perylene	10		U

Outfall 001A
 Sampled 10-15-02
 Grab Sample

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

15385-001DL

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478Case No.: BNLS

SAS No.: _____

SDG No.: BNLS696Matrix: (soil/water) WATERLab Sample ID: 0210517-001BSample wt/vol: 1000 (g/mL) MLLab File ID: A\C21832.DLevel: (low/med) LOWDate Received: 10/16/02 *Outfall cond*% Moisture: Decanted: (Y/N) NDate Extracted: 10/21/02 *Sampled 10-15-02*Concentrated Extract Volume: 1000 (µL)Date Analyzed: 10/24/02 *Grab Sample*

Injection Volume: (µL)

Dilution Factor: 2.00GPC Cleanup: (Y/N) N pH: _____Extraction: (Type) CONT

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(µg/L or µg/Kg) UG/L

Q

CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	Q
62-75-9	N-Nitrosodimethylamine	20	U
108-95-2	Phenol	20	U
111-44-4	Bis(2-chloroethyl)ether	20	U
95-57-8	2-Chlorophenol	20	U
541-73-1	1,3-Dichlorobenzene	20	U
106-46-7	1,4-Dichlorobenzene	20	U
95-50-1	1,2-Dichlorobenzene	20	U
108-60-1	2,2'-oxybis(1-Chloropropane)	20	U
621-64-7	N-Nitroso-di-n-propylamine	20	U
67-72-1	Hexachloroethane	20	U
98-95-3	Nitrobenzene	20	U
78-59-1	Isophorone	20	U
88-75-5	2-Nitrophenol	50	U
105-67-9	2,4-Dimethylphenol	20	U
111-91-1	Bis(2-chloroethoxy)methane	20	U
120-83-2	2,4-Dichlorophenol	20	U
120-82-1	1,2,4-Trichlorobenzene	20	U
91-20-3	Naphthalene	20	U
87-68-3	Hexachlorobutadiene	20	U
59-50-7	4-Chloro-3-methylphenol	20	U
77-47-4	Hexachlorocyclopentadiene	20	U
88-06-2	2,4,6-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	20	U
131-11-3	Dimethylphthalate	20	U
208-96-8	Acenaphthylene	20	U
606-20-2	2,6-Dinitrotoluene	20	U
83-32-9	Acenaphthene	20	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
121-14-2	2,4-Dinitrotoluene	20	U
84-66-2	Diethylphthalate	20	U
86-73-7	Fluorene	20	U
7005-72-3	4-Chlorophenyl-phenylether	20	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine	20	U
101-55-3	4-Bromophenyl-phenylether	20	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

15385-001DL

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478

Case No.: BNLS

SAS No.: _____

SDG No.: BNLS696

Matrix: (soil/water) WATER

Lab Sample ID: 0210517-001B

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: A\C21832.D

Level: (low/med) LOW

Date Received: 10/16/02

% Moisture: Decanted: (Y/N) N

Date Extracted: 10/21/02

Concentrated Extract Volume: 1000 (µL)

Date Analyzed: 10/24/02

Injection Volume: (µL)

Dilution Factor: 2.00

GPC Cleanup: (Y/N) N pH: _____

Extraction: (Type) CONT

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	UG/L	Q
118-74-1	Hexachlorobenzene	20		U
87-86-5	Pentachlorophenol	50		U
85-01-8	Phenanthrene	20		U
120-12-7	Anthracene	20		U
84-74-2	Di-n-butyl phthalate	20		U
206-44-0	Fluoranthene	20		U
129-00-0	Pyrene	20		U
85-68-7	Butyl benzyl phthalate	20		U
56-55-3	Benzo(a)anthracene	20		U
91-94-1	3,3'-Dichlorobenzidine	40		U
218-01-9	Chrysene	20		U
117-81-7	Bis(2-ethylhexyl)phthalate	120		D
117-84-0	Di-n-octyl phthalate	20		U
205-99-2	Benzo(b)fluoranthene	20		U
207-08-9	Benzo(k)fluoranthene	20		U
50-32-8	Benzo(a)pyrene	20		U
193-39-5	Indeno(1,2,3-cd)pyrene	20		U
53-70-3	Dibenzo(a,h)anthracene	20		U
191-24-2	Benzo(g,h,i)perylene	20		U

outfall 0015
Sampled 10-11-02
Grab Sample

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

15385-001

Lab Name: H2M_LABS,_INC. _____

Contract: _____

Lab Code: 10478_

Case No.: _____

SAS No.: _____

SDG No.: BNLS696

Matrix (soil/water): WATER_

Lab Sample ID: 0210517-001_

Level (low/med): LOW_

Date Received: 10/16/02_

% Solids: _____

Concentration Units (ug/L or mg/kg dry weight):

UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	34.7	B		P
7440-36-0	Antimony	3.4	U		P
7440-38-2	Arsenic	1.8	U		P
7440-39-3	Barium	18.2	B	E	P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.10	U		P
7440-70-2	Calcium	10200			P
7440-47-3	Chromium	0.50	U		P
7440-48-4	Cobalt	0.60	U		P
7440-50-8	Copper	116			P
7439-89-6	Iron	86.8	B	E	P
7439-92-1	Lead	5.5			P
7439-95-4	Magnesium	2470	B		P
7439-96-5	Manganese	13.0	B		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	0.86	B		P
7440-09-7	Potassium	827	B		P
7782-49-2	Selenium	2.6	U		P
7440-22-4	Silver	0.80	U		P
7440-23-5	Sodium	14800			P
7440-28-0	Thallium	2.5	U		P
7440-62-2	Vanadium	0.60	U		P
7440-66-6	Zinc	18.2	B		P
	Cyanide				NR

outfall coils
sampled 10-15-02
Grab Sample

Color Before: COLORLESS_

Clarity Before: CLEAR_

Texture: _____

Color After: COLORLESS_

Clarity After: CLEAR_

Artifacts: _____

Comments:

DATE REPORTED 10/28/02 _____

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

15353-006

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478

Case No.: BNLS

SAS No.: _____

SDG No.: BNLS685

Matrix: (soil/water) WATER

Lab Sample ID: 0210156-006C

Sample wt/vol: 5 (g/mL) ML

Lab File ID: V\F10591.D

Level: (low/med) LOW

Date Received: 10/04/02

% Moisture: not dec.

Date Analyzed: 10/10/02

GC Column: HP-VOCOL ID: .2 (mm)

Dilution Factor: 1.00

Soil Extract Volume: _____ (µL)

Soil Aliquot Volume _____ (µL)

*cutfall COIB
Sampled
10-4-02
Grab Sample*

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	UG/L	Q
74-87-3	Chloromethane		1	U
75-01-4	Vinyl chloride		1	U
74-83-9	Bromomethane		1	U
75-00-3	Chloroethane		1	U
75-69-4	Trichlorofluoromethane		1	U
67-64-1	Acetone		7.3	
75-35-4	1,1-Dichloroethene		1	U
75-09-2	Methylene chloride		1	U
75-15-0	Carbon disulfide		1	U
156-60-5	trans-1,2-Dichloroethene		1	U
108-05-4	Vinyl acetate		1	U
75-34-3	1,1-Dichloroethane		1	U
78-93-3	2-Butanone		5	U
67-66-3	Chloroform		1	U
107-06-2	1,2-Dichloroethane		1	U
71-55-6	1,1,1-Trichloroethane		1	U
56-23-5	Carbon tetrachloride		1	U
71-43-2	Benzene		1	U
79-01-6	Trichloroethene		1	U
78-87-5	1,2-Dichloropropane		1	U
75-27-4	Bromodichloromethane		1	U
110-75-8	2-Chloroethylvinyl ether		1	U
10061-01-5	cis-1,3-Dichloropropene		1	U
10061-02-6	trans-1,3-Dichloropropene		1	U
79-00-5	1,1,2-Trichloroethane		1	U
100-41-4	Ethylbenzene		1	U
124-48-1	Dibromochloromethane		1	U
75-25-2	Bromoform		1	U
108-10-1	4-Methyl-2-pentanone		5	U
591-78-6	2-Hexanone		5	U
108-88-3	Toluene		1	U
127-18-4	Tetrachloroethene		1	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

15353-006

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478Case No.: BNLS

SAS No.: _____

SDG No.: BNLS685Matrix: (soil/water) WATERLab Sample ID: 0210156-006CSample wt/vol: 5 (g/mL) MLLab File ID: V\F10591.DLevel: (low/med) LOWDate Received: 10/04/02

% Moisture: not dec.

Date Analyzed: 10/10/02GC Column: HP-VOCOL ID: .2 (mm)Dilution Factor: 1.00

Soil Extract Volume: _____ (µL)

Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	UG/L	Q
108-90-7	Chlorobenzene		1	U
1330-20-7	Xylene (total)		1	U
79-34-5	1,1,2,2-Tetrachloroethane		1	U
541-73-1	1,3-Dichlorobenzene		1	U
106-46-7	1,4-Dichlorobenzene		1	U
95-50-1	1,2-Dichlorobenzene		1	U

Outfall 001B
 Sampled 10-7-02
 Grab Sample

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

15353-006

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: BNLS SAS No.: _____ SDG No.: BNLS685

Matrix: (soil/water) WATER Lab Sample ID: 0210156-006B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C21700.D

Level: (low/med) LOW Date Received: 10/04/02 *Outfall 091B*

% Moisture: Decanted: (Y/N) N Date Extracted: 10/08/02 *Sampled 10-4-02*

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 10/10/02 *Grab Sample*

Injection Volume: (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	UG/L	Q
62-75-9	N-Nitrosodimethylamine	10		U
108-95-2	Phenol	10		U
111-44-4	Bis(2-chloroethyl) ether	10		U
95-57-8	2-Chlorophenol	10		U
541-73-1	1,3-Dichlorobenzene	10		U
106-46-7	1,4-Dichlorobenzene	10		U
95-50-1	1,2-Dichlorobenzene	10		U
108-60-1	2,2'-oxybis(1-Chloropropane)	10		U
621-64-7	N-Nitroso-di-n-propylamine	10		U
67-72-1	Hexachloroethane	10		U
98-95-3	Nitrobenzene	10		U
78-59-1	Isophorone	10		U
88-75-5	2-Nitrophenol	25		U
105-67-9	2,4-Dimethylphenol	10		U
111-91-1	Bis(2-chloroethoxy)methane	10		U
120-83-2	2,4-Dichlorophenol	10		U
120-82-1	1,2,4-Trichlorobenzene	10		U
91-20-3	Naphthalene	10		U
87-68-3	Hexachlorobutadiene	10		U
59-50-7	4-Chloro-3-methylphenol	10		U
77-47-4	Hexachlorocyclopentadiene	10		U
88-06-2	2,4,6-Trichlorophenol	10		U
91-58-7	2-Chloronaphthalene	10		U
131-11-3	Dimethylphthalate	10		U
208-96-8	Acenaphthylene	10		U
606-20-2	2,6-Dinitrotoluene	10		U
83-32-9	Acenaphthene	10		U
51-28-5	2,4-Dinitrophenol	25		U
100-02-7	4-Nitrophenol	25		U
121-14-2	2,4-Dinitrotoluene	10		U
84-66-2	Diethylphthalate	10		U
86-73-7	Fluorene	10		U
7005-72-3	4-Chlorophenyl-phenylether	10		U
534-52-1	4,6-Dinitro-2-methylphenol	25		U
86-30-6	N-Nitrosodiphenylamine	10		U
101-55-3	4-Bromophenyl-phenylether	10		U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

15353-006

Lab Name: H2MLABS, INC.

Contract: _____

Lab Code: 10478Case No.: BNLS

SAS No.: _____

SDG No.: BNLS685Matrix: (soil/water) WATERLab Sample ID: 0210156-006BSample wt/vol: 1000 (g/mL) MLLab File ID: A\C21700.DLevel: (low/med) LOWDate Received: 10/04/02% Moisture: Decanted: (Y/N) NDate Extracted: 10/08/02Concentrated Extract Volume: 1000 (µL)Date Analyzed: 10/10/02

Injection Volume: (µL)

Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: _____Extraction: (Type CONT)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butyl phthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butyl benzyl phthalate	10	U
56-55-3	Benzo (a) anthracene	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
205-99-2	Benzo (b) fluoranthene	10	U
207-08-9	Benzo (k) fluoranthene	10	U
50-32-8	Benzo (a) pyrene	10	U
193-39-5	Indeno (1,2,3-cd) pyrene	10	U
53-70-3	Dibenzo (a,h) anthracene	10	U
191-24-2	Benzo (g,h,i) perylene	10	U

outfall 001B
 Sampled 10-4-02
 Grab Sample

H2M LABS, INC.

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

LABORATORY RESULTS

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

Lab No. : 0210883-001

Sample Information...
Type : Aqueous

Origin:

Client ID. : 15709-001

Collected 10/28/2002 10:34:00 AM
Received 10/28/2002 3:00:00 PM
Collected By CLIENT
Copies To Bob Lee

<u>Parameter(s)</u>	<u>Results</u>	<u>Units</u>	<u>Method Number</u>	<u>Analyzed</u>
Cyanide	< 10	µg/L	E335.2	11/4/2002 4:18:00 PM
Nitrogen, Total	1100	mg/L	M4500-N C	11/7/2002
Nitrogen, Nitrate-Nitrite	238	mg/L	E353.2	11/4/2002 3:34:48 PM
Phenolics, Total Recoverable	< 5.0	µg/L	E420.1	11/4/2002 1:15:00 PM
Nitrogen, Kjeldahl, Total	860	mg/L	E351.2	11/5/2002 11:31:53 AM

Surface OGD
Sampled 10-28-02
Grab Sample
Rm1-27

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

Date Reported : 11/11/2002

Joann M. Slavin

Laboratory Manager

H2M LABS, INC.

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

LABORATORY RESULTS

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

Lab No. : **0210883-002**

Sample Information...
Type : Aqueous

Origin:

Client ID. : 15709-002

Collected 10/28/2002 10:10:00 AM
Received 10/28/2002 3:00:00 PM
Collected By CLIENT
Copies To Bob Lee

<u>Parameter(s)</u>	<u>Results</u>	<u>Units</u>	<u>Method Number</u>	<u>Analyzed</u>
Cyanide	< 10	µg/L	E335.2	11/4/2002 4:15:00 PM
Nitrogen, Total	3.4	mg/L	M4500-N C	11/7/2002
Nitrogen, Nitrate-Nitrite	0.24	mg/L	E353.2	11/4/2002 3:35:33 PM
Phenolics, Total Recoverable	< 5.0	µg/L	E420.1	11/4/2002 1:20:00 PM
Nitrogen, Kjeldahl, Total	3.19	mg/L	E351.2	11/5/2002 12:26:54 PM

Catfall 001D
Sampled 10-28-02
Grab Sample
Rm 1-93B

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

Date Reported : 11/11/2002

Joann M. Slavin

Laboratory Manager

H2M LABS, INC.

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

LABORATORY RESULTS

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

Lab No. : 0212131-003

Sample Information...
Type : Aqueous

Origin:

Client ID. : 15787-003

Collected 12/3/2002 10:10:00 AM
Received 12/4/2002 3:35:00 PM
Collected By CLIENT
Copies To Bob Lee

<u>Parameter(s)</u>	<u>Results</u>	<u>Units</u>	<u>Method Number</u>	<u>Analyzed</u>
Hexane Extr. Material (O&G)	< 5.0	mg/L	E1664A	12/9/2002 8:30:00 AM

Outfall 002
Sampled 12-3-02
Grab Sample

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

Date Reported : 12/17/2002

Joann M. Slavin

Laboratory Manager

VOLATILE ORGANICS ANALYSIS DATA SHEET

15353-003

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478Case No.: BNLS

SAS No.: _____

SDG No.: BNLS685Matrix: (soil/water) WATERLab Sample ID: 0210156-003CSample wt/vol: 5 (g/mL) MLLab File ID: V\F10590.DLevel: (low/med) LOWDate Received: 10/04/02

% Moisture: not dec.

Date Analyzed: 10/10/02*cut from air
Sampled 10-4-02
Grab Sample*GC Column: HP-VOCOL ID: .2 (mm)Dilution Factor: 1.00

Soil Extract Volume: _____ (µL)

Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	UG/L	Q
74-87-3	Chloromethane		1	U
75-01-4	Vinyl chloride		1	U
74-83-9	Bromomethane		1	U
75-00-3	Chloroethane		1	U
75-69-4	Trichlorofluoromethane		1	U
67-64-1	Acetone		6.2	
75-35-4	1,1-Dichloroethene		1	U
75-09-2	Methylene chloride		1	U
75-15-0	Carbon disulfide		1	U
156-60-5	trans-1,2-Dichloroethene		1	U
108-05-4	Vinyl acetate		1	U
75-34-3	1,1-Dichloroethane		1	U
78-93-3	2-Butanone		5	U
67-66-3	Chloroform		1	U
107-06-2	1,2-Dichloroethane		1	U
71-55-6	1,1,1-Trichloroethane		1	U
56-23-5	Carbon tetrachloride		1	U
71-43-2	Benzene		1	U
79-01-6	Trichloroethene		1	U
78-87-5	1,2-Dichloropropane		1	U
75-27-4	Bromodichloromethane		1	U
110-75-8	2-Chloroethylvinyl ether		1	U
10061-01-5	cis-1,3-Dichloropropene		1	U
10061-02-6	trans-1,3-Dichloropropene		1	U
79-00-5	1,1,2-Trichloroethane		1	U
100-41-4	Ethylbenzene		1	U
124-48-1	Dibromochloromethane		1	U
75-25-2	Bromoform		1.4	
108-10-1	4-Methyl-2-pentanone		5	U
591-78-6	2-Hexanone		5	U
108-88-3	Toluene		1	U
127-18-4	Tetrachloroethene		1	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

15353-003

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478Case No.: BNLS

SAS No.: _____

SDG No.: BNLS685Matrix: (soil/water) WATERLab Sample ID: 0210156-003CSample wt/vol: 5 (g/mL) MLLab File ID: V\F10590.DLevel: (low/med) LOWDate Received: 10/04/02

% Moisture: not dec.

Date Analyzed: 10/10/02GC Column: HP-VOCOL ID: .2 (mm)Dilution Factor: 1.00

Soil Extract Volume: _____ (µL)

Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	UG/L	Q
108-90-7	Chlorobenzene		1	U
1330-20-7	Xylene (total)		1	U
79-34-5	1,1,2,2-Tetrachloroethane		1	U
541-73-1	1,3-Dichlorobenzene		1	U
106-46-7	1,4-Dichlorobenzene		1	U
95-50-1	1,2-Dichlorobenzene		1	U

cutfall 002
 Sampled 10-4-02
 Grab Sample

H2M LABS, INC.

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

LABORATORY RESULTS

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

Lab No. : 0212404-004

Sample Information...
Type : Aqueous

Origin:

Client ID. : 15801-004

Collected 12/12/2002 9:34:00 AM
Received 12/13/2002 2:30:00 PM
Collected By CLIENT
Copies To Bob Lee

<u>Parameter(s)</u>	<u>Results</u>	<u>Units</u>	<u>Method Number</u>	<u>Analyzed</u>
Hexane Extr. Material (O&G)	< 5.0	mg/L	E1664A	12/18/2002 8:15:00 AM

cutfall 002B
Sampled 12-12-02
Grab Sample

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

Date Reported : 1/2/2003

Joann M. Flavin

Laboratory Manager

H2M LABS, INC.

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

LABORATORY RESULTS

Brookhaven National Lab.-BNLS

70 Bell Ave.

Upton, NY 11973

Attn To : S. Scarpitta

Lab No. : **0212131-004**

Sample Information...

Type : Aqueous

Origin:

Client ID. : 15787-004

Collected 12/3/2002 10:41:00 AM

Received 12/4/2002 3:35:00 PM

Collected By CLIENT

Copies To Bob Lee

<u>Parameter(s)</u>	<u>Results</u>	<u>Units</u>	<u>Method Number</u>	<u>Analyzed</u>
Hexane Extr. Material (O&G)	< 5.0	mg/L	E1664A	12/9/2002 8:35:00 AM

Outfall 005
Sampled 12-3-02
Grab Sample

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

Date Reported : 12/17/2002

Joann M. Slavin

Laboratory Manager

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

15353-005

Lab Name: H2M_LABS, INC. Contract: _____
 Lab Code: 10478 Case No.: _____ SAS No.: _____ SDG No.: BNLS685
 Matrix (soil/water): WATER Lab Sample ID: 0210156-005
 Level (low/med): LOW Date Received: 10/04/02
 Solids: _____

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper	3.6	B		P
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

*Outfall 005
 Sampled 10-4-02
 Grab Sample*

Color Before: LT_YELLOW Clarity Before: CLEAR Texture: _____
 Color After: LT_YELLOW Clarity After: CLEAR Artifacts: _____

Comments: _____
 DATE REPORTED 10/11/02 _____

BNLS685 S36

H2M LABS, INC.

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

LABORATORY RESULTS

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

Lab No. : 0212131-001

Sample Information...
Type : Aqueous

Origin:

Client ID. : 15787-001

Collected 12/3/2002 10:25:00 AM
Received 12/4/2002 3:35:00 PM
Collected By CLIENT
Copies To Bob Lee

<u>Parameter(s)</u>	<u>Results</u>	<u>Units</u>	<u>Method Number</u>	<u>Analyzed</u>
Hexane Extr. Material (O&G)	< 5.0	mg/L	E1664A	12/9/2002 8:20:00 AM

Cutfall area
Sampled 12-3-02
Grab sample

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

Date Reported : 12/17/2002

Joann M. Slavin

Laboratory Manager

H2M LABS, INC.

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

LABORATORY RESULTS

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

Lab No. : 0212131-002

Sample Information...
Type : Aqueous

Origin:

Client ID. : 15787-002

Collected 12/3/2002 10:18:00 AM
Received 12/4/2002 3:35:00 PM
Collected By CLIENT
Copies To Bob Lee

<u>Parameter(s)</u>	<u>Results</u>	<u>Units</u>	<u>Method Number</u>	<u>Analyzed</u>
Hexane Extr. Material (O&G)	< 5.0	mg/L	E1664A	12/9/2002 8:25:00 AM

*outfall 006B
Sampled 12-3-02
Grab Sample*

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

Date Reported : 12/17/2002

Joann M. Slavin

Laboratory Manager

VOLATILE ORGANICS ANALYSIS DATA SHEET

15801-003

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478Case No.: BNLS

SAS No.: _____

SDG No.: BNLS712Matrix: (soil/water) WATERLab Sample ID: 0212404-003BSample wt/vol: 5 (g/mL) MLLab File ID: v\F11629.DLevel: (low/med) LOWDate Received: 12/13/02

% Moisture: not dec.

Date Analyzed: 12/23/02GC Column: HP-VOCOL ID: .2 (mm)Dilution Factor: 1.00

Soil Extract Volume: _____ (µL)

Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND.	(µg/L or µg/Kg)	UG/L	Q
74-87-3	Chloromethane		1	U
75-01-4	Vinyl chloride		1	U
74-83-9	Bromomethane		1	U
75-00-3	Chloroethane		1	U
75-69-4	Trichlorofluoromethane		1	U
67-64-1	Acetone		5	U
75-35-4	1,1-Dichloroethene		1	U
75-09-2	Methylene chloride		1	U
75-15-0	Carbon disulfide		1	U
156-60-5	trans-1,2-Dichloroethene		1	U
156-59-2	cis-1,2-Dichloroethene		1	U
108-05-4	Vinyl acetate		1	U
75-34-3	1,1-Dichloroethane		1	U
540-59-0	1,2-Dichloroethene (total)		1	U
78-93-3	2-Butanone		5	U
67-66-3	Chloroform		1	U
107-06-2	1,2-Dichloroethane		1	U
71-55-6	1,1,1-Trichloroethane		1	U
56-23-5	Carbon tetrachloride		1	U
71-43-2	Benzene		1	U
79-01-6	Trichloroethene		1	U
78-87-5	1,2-Dichloropropane		1	U
75-27-4	Bromodichloromethane		1	U
110-75-8	2-Chloroethylvinyl ether		1	U
10061-01-5	cis-1,3-Dichloropropene		1	U
10061-02-6	trans-1,3-Dichloropropene		1	U
79-00-5	1,1,2-Trichloroethane		1	U
100-41-4	Ethylbenzene		1	U
124-48-1	Dibromochloromethane		1	U
75-25-2	Bromoform		1	U
108-10-1	4-Methyl-2-pentanone		5	U
591-78-6	2-Hexanone		5	U

outfall 008
 Sampled 12-12-02
 Grab Sample

VOLATILE ORGANICS ANALYSIS DATA SHEET

15801-003

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478Case No.: BNLS

SAS No.: _____

SDG No.: BNLS712Matrix: (soil/water) WATERLab Sample ID: 0212404-003BSample wt/vol: 5 (g/mL) MLLab File ID: v\F11629.DLevel: (low/med) LOWDate Received: 12/13/02

% Moisture: not dec.

Date Analyzed: 12/23/02GC Column: HP-VOCOL ID: .2 (mm)Dilution Factor: 1.00

Soil Extract Volume: _____ (µL)

Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	UG/L	Q
108-88-3	Toluene		1	U
127-18-4	Tetrachloroethene		1	U
108-90-7	Chlorobenzene		1	U
1330-20-7	Xylene (total)		1	U
79-34-5	1,1,2,2-Tetrachloroethane		1	U
541-73-1	1,3-Dichlorobenzene		1	U
106-46-7	1,4-Dichlorobenzene		1	U
95-50-1	1,2-Dichlorobenzene		1	U

cutfall ccs
 Sampled 12-12-02
 Grab Sample

H2M LABS, INC.

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

LABORATORY RESULTS

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

Lab No. : 0212404-003

Sample Information...

Type : Aqueous

Origin:

Client ID. : 15801-003

Collected 12/12/2002 9:40:00 AM
Received 12/13/2002 2:30:00 PM
Collected By CLIENT
Copies To Bob Lee

<u>Parameter(s)</u>	<u>Results</u>	<u>Units</u>	<u>Method Number</u>	<u>Analyzed</u>
Hexane Extr. Material (O&G)	< 5.0	mg/L	E1664A	12/18/2002 8:10:00 AM

outfall 008
Sampled 12-12-02
Grab Sample

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

Date Reported : 1/2/2003

Joann M. Slavin

Laboratory Manager

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

15373-001

Lab Name: H2M_LABS, INC. _____

Contract: _____

Lab Code: 10478_

Case No.: _____

SAS No.: _____

SDG No.: BNLS694

Matrix (soil/water): WATER_

Lab Sample ID: 0210387-001_

Level (low/med): LOW_

Date Received: 10/11/02_

Solids: _____

Concentration Units (ug/L or mg/kg dry weight):

UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	211			P
7440-36-0	Antimony	3.4	U		P
7440-38-2	Arsenic	1.8	U		P
7440-39-3	Barium	3.8	B		P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.80	B		P
7440-70-2	Calcium	3050	B		P
7440-47-3	Chromium	0.99	B		P
7440-48-4	Cobalt	0.60	U		P
7440-50-8	Copper	6.9	B		P
7439-89-6	Iron	303			P
7439-92-1	Lead	4.4			P
7439-95-4	Magnesium	760	B		P
7439-96-5	Manganese	5.6	B		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	1.4	B		P
7440-09-7	Potassium	334	B		P
7782-49-2	Selenium	2.6	U		P
7440-22-4	Silver	0.80	U		P
7440-23-5	Sodium	949	B		P
7440-28-0	Thallium	2.5	U		P
7440-62-2	Vanadium	2.4	B		P
7440-66-6	Zinc	34.8			P
	Cyanide				NR

Outfall ⁸ COX ¹¹⁻¹⁵⁻⁰²
Sampled 10-11-02
Grab Sample
Unfiltered

Color Before: COLORLESS_ Clarity Before: CLEAR_ Texture: _____
Color After: COLORLESS_ Clarity After: CLEAR_ Artifacts: _____

Comments:
DATE REPORTED 10/28/02

BNLS694 S27

H2M LABS, INC.

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

LABORATORY RESULTS

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

Lab No. : 0212404-001

Sample Information...
Type : Aqueous

Origin:

Client ID. : 15801-001

Collected 12/12/2002 9:04:00 AM
Received 12/13/2002 2:30:00 PM
Collected By CLIENT
Copies To Bob Lee

Parameter(s)	Results	Units	Method Number	Analyzed
Hexane Extr. Material (O&G)	< 5.0	mg/L	E1664A	12/18/2002 8:00:00 AM

ms-17-03
outfall site
Sampled 12-12-02
Grab Sample

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

Date Reported : 1/2/2003

Joann M. Slavin

Laboratory Manager

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040. FAX: (631) 420-8436 NYSDOH ID# 10476

LABORATORY RESULTS

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

Lab No. : 0212404-002

Sample Information...
Type : Aqueous

Origin:

Client ID. : 15801-002

Collected 12/12/2002
Received 12/13/2002 2:30:00 PM
Collected By CLIENT
Copies To Bob Lee

<u>Parameter(s)</u>	<u>Results</u>	<u>Units</u>	<u>Method Number</u>	<u>Analyzed</u>
Hexane Extr. Material (O&G)	< 5.0	mg/L	E1664A	12/18/2002 8:05:00 AM

outfall 010
Sampled 12-12-02
Error Sample

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

Date Reported : 1/2/2003

Joann M. Slavin

Laboratory Manager

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

15733-002

Lab Name: H2M_LABS, INC. Contract: _____
 Lab Code: 10478 Case No.: _____ SAS No.: _____ SDG No.: BNLS704
 Matrix (soil/water): WATER Lab Sample ID: 0211190-002
 Level (low/med): LOW Date Received: 11/06/02
 % Solids: _____

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1790			P
7440-36-0	Antimony	3.1	U		P
7440-38-2	Arsenic	4.5	U		P
7440-39-3	Barium	10.5	B		P
7440-41-7	Beryllium	0.40	U		P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	3070	B		P
7440-47-3	Chromium	2.4	B		P
7440-48-4	Cobalt	1.0	U		P
7440-50-8	Copper	6.1	B		P
7439-89-6	Iron	1620		*N	P
7439-92-1	Lead	9.9			P
7439-95-4	Magnesium	580	B		P
7439-96-5	Manganese	16.1			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	7.5	B		P
7440-09-7	Potassium	446	B		P
7782-49-2	Selenium	2.4	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	1190	B		P
7440-28-0	Thallium	4.2	U		P
7440-62-2	Vanadium	17.4	B		P
7440-66-6	Zinc	14.4	B		P
	Cyanide				NR

*Cutoff OIC
 Sampled 11-6-02
 Grab Sample
 Unfiltered.
 (Sampled after
 geotextile installed
 to reduce impact
 of contaminated
 sediments on
 cutoff discharge)*

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____
 Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
 DATE REPORTED 12/5/02

BNLS704 S28

ATTACHMENT V

BROOKHAVEN NATIONAL LABORATORY

SPDES PERMIT NO. NY0005835

DISCHARGE MONITORING REPORT FOR DECEMBER 2002

ANALYTICAL RESULTS FROM CHEMTEX INC.

FOR REGULATORY COMPLIANCE SAMPLES COLLECTED

FROM OUTFALLS 001F, 002, 002B, 005, 006A, AND 006B

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

Report Date: 10/30/02

RESULTS OF ANALYSIS

PROJECT: ES SPDES

ATTACHMENT 1

Outfall 001F
 Sampled 10-4-02
 Grab Sample

COC_num	Site-ID	Samp_type	Samp-ID	Samp_date	Samp_time	Rec_date	SDG	Lab_file-ID	Samp_depth	Flow_rate	Notes	Lab_qual	Lab_QNotes	Rev_qual	Rev_conc	Rev_QNotes
15354	005-902 CT	W	Surface	10/04/02	1010	10/09/02		P2100195	0							
Cas_num	Name	Concen	Error	Det_limit	Units	Anal_date	Method	Lab_batch-ID	Ext_date	Dilution						
	Polypropylene Glycol Monobutyl Ether (PPGMBE)	< 0.50		0.50	mg/l	10/17/02	Sop # O 081-045	P2100199	10/17/02	1000ml ▲ 1 ml						

Required fields are shaded.
 Required field under some circumstances (see Att. 2)

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

Report Date: 10/30/02

RESULTS OF ANALYSIS

PROJECT: ES SPDES

ATTACHMENT 1

Cutfall 002
 Sampled 10-4-02
 Grab Sample

COC_num	Site-ID	Samp_type	Samp_ID	Samp_date	Samp_time	Rec_date	SDG	Lab_file-ID	Samp_depth	Flow_rate	Notes	Lab_qual	Rev_qual	Rev_conc	Rev_QCnotes
15354	004-HN	W	Surface Water	10/04/02	1030	10/09/02		P2100195	0						
Cas_num	Name	Concen	Error	Det limi	Units	Anal_date	Method	Lab_batch-ID	Ext_date	Dilution	Lab_qual	Lab_QCnotes	Rev_qual	Rev_conc	Rev_QCnotes
	HEDP as Organic Phosphorus	0.10		0.05	mg/l	10/09/02	EPA 365.3	P2100198							
	Inorganic Phosphorus	0.13		0.05	mg/l	10/09/02	EPA 365.3								
	Total Phosphorus	0.23		0.05	mg/l	10/09/02	EPA 365.3								
	Tolytriazole(TTA)	< 0.005		0.005	mg/l	10/15/02	Sop # O121-049								

Required fields are shaded.
 Required field under some circumstances (see Att. 2)

Report Date: 10/30/02

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

Outfall 005
 Sampled 10-4-02
 Grab Sample

RESULTS OF ANALYSIS

PROJECT: ES SPDES

ATTACHMENT I

COC_num	Site-ID	Samp_type	Samp-ID	Samp_date	Samp_time	Rec_date	SDG	Lab_file-ID	Samp_depth	Flow_rate	Notes	Lab_qual	Rev_qual	Rev_conc	Rev_QCnotes
15354	001-HS	W	Surface Water	10/04/02	1010	10/09/02		P2100195	0						
Cas_num	Name	Concen	Error	Det_limit	Units	Anal_date	Method	Lab_batch-ID	Ext_date	Dilution	Lab_qual	Lab_QCnotes	Rev_qual	Rev_conc	Rev_QCnotes
	H E D P as Organic Phosphorus	< 0.05		0.05	mg/l	10/09/02	EPA 365.3	P2100195							
	Inorganic Phosphorus	< 0.05		0.05	mg/l	10/09/02	EPA 365.3								
	Total Phosphorus	< 0.05		0.05	mg/l	10/09/02	EPA 365.3								
	Tolytriazole(TTA)	< 0.005		0.005	mg/l	10/15/02	Sop # O121-049								

Required fields are shaded.
 Required field under some circumstances (see Att. 2)

Client:

Brookhaven National Laboratory
Safety & Environmental
Protection Division
Bldg. 535A

Upton, NY 11973-5000

Attn: Mr. B. Lee

Report Date: 10/30/02

RESULTS OF ANALYSIS

PROJECT: ES SPDES

ATTACHMENT 1

Outfall 001A
Sampled 10-1-02
Grab Sample

COC_num	Site-ID	Samp_type	Samp-ID	Samp_date	Samp_time	Rec_date	SDG	Lab_file-ID	Samp_depth	Flow_rate	Notes	Lab_qual	Lab_QCnotes	Rev_qual	Rev_conc	Rev_QCnotes
15354	002-HT-w	W	Surface Water	10/04/02	1057	10/09/02		P2100195	0							
Cas_num	Name	Concen	Error	Det_limit	Units	Anal_date	Method	Lab_batch-ID	Ext_date	Dilution						
	H E D P as Organic Phosphorus	0.03		0.05	mg/l	10/09/02	EPA 365.3	P2100196								
	Inorganic Phosphorus	0.10		0.05	mg/l	10/09/02	EPA 365.3									
	Total Phosphorus	0.12		0.05	mg/l	10/09/02	EPA 365.3									
	Tolyltriazole(TTA)	< 0.005		0.005	mg/l	10/15/02	Sop # 0121-049									

Required fields are shaded.

Required field under some circumstances (see Att. 2)

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Report Date: 10/30/02

RESULTS OF ANALYSIS

PROJECT: ES SPDES

ATTACHMENT I

outfall 006B
 Sampled 10-4-02
 Grab Sample

COC_num	Site-ID	Sample type	Samp- ID	Samp_date	Samp_time	Rec_date	SDG	Lab_file- ID	Samp_depth	Flow_rate	Notes	Lab_QCnotes	Rev_conc	Rev_QCnotes
Cas_num	Name	Concen	Surface Water Error	Det_limit	Units	Anal_date	Method	Lab_batch- ID	Ext_Date	Dilution	Lab_qual	Lab_QCnotes	Rev_qual	Rev_QCnotes
15354	003-HI-c	W	Surface Water	10/04/02	1049	10/09/02		P2100195	0					
	HEDP as Organic Phosphorus	< 0.05		0.05	mg/l	10/09/02	EPA 365.3	P2100197						
	Inorganic Phosphorus	< 0.05		0.05	mg/l	10/09/02	EPA 365.3							
	Total Phosphorus	< 0.05		0.05	mg/l	10/09/02	EPA 365.3							
	Tolyltriazole(TTA)	< 0.005		0.005	mg/l	10/15/02	Sop # O121-049							

Required fields are shaded.
 Required field under some circumstances (see Att. 2)