

Building 120 P.O. Box 5000 Upton, NY 11973-5000 Phone 631 344-8370 Fax 631 344-6079 cunniff@bnl.gov

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

www.bnl.gov

March 19, 2002

Mr. Robert Desmarais
Director, Project Management Division
U. S. Department of Energy
Brookhaven Group
Upton, NY 11973

Dear Mr. Desmarais:

SUBJECT: NPDES - Discharge Monitoring Report (DMR) for February 2002 REFERENCE: Letter from Robert Desmarais to Cunniff dated February 25, 2002

Included as Attachment I, please find the DMR for the month of February 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.

Review of the analytical data shows that all parameters met their respective SPDES effluent limitations this reporting period. Please note that for the majority of the Outfalls, flow measurements are conducted weekly or monthly; consequently, a daily maximum flow rate cannot be reported. All flow values reported for Outfalls 002, 002B, 003, 005, 006A, 006B, and 007 are therefore, daily averages. 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 February 2002.

Please sign each page of the DMR where indicated and transmit the DMR and associated attachments to the New York State Department of Environmental Conservation and the Suffolk County Department of Health Services no later than March 28, 2002. 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,

Lori Cunniff, CE

Division Manager

LEC/MA:cr

Attachment I: Discharge Monitoring Report for February 2002.

Attachment II: Analytical Results from H2M Labs for samples collected on 2/4/02 and 2/7/02

from Outfall 001.

Attachment III: Analytical Results from H2M Labs for samples collected from Outfalls 002, 003,

005, 006A, 006B, 007, and 008.

M. Allocco w/attachments M. Baldwin w/attachments cc: W. Chaloupka w/attachments L. Cunniff w/o attachments S. Dierker w/o attachments G. Granzen w/o attachments J. Higbie w/attachments C. Johnson w/o attachments R. Lee E. Lessard w/attachments w/o attachments D. Lowenstein w/o attachments E. Murphy w/attachments V. Radeka A. Queirolo w/o attachments w/o attachments T. Sheridan w/o attachments D. Van Duyne w/attachments

EC62ER.02

### Brookhaven National Laboratory SPDES Permit No. NY0005835 Discharge Monitoring Report for February 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. There was no discharge from Outfalls 002A and Outfall 010 during this reporting period. In May 2001, the two discharges to Outfall 002A were connected to the stormwater collection system and no longer discharge locally. The cooling water discharge from Bldg. 1002 is now directed to Outfall 002B located at Building 1004. The cooling water discharge from Bldg. 1010 is now directed to Outfall 002 (HN). A SPDES permit modification package was submitted which reflected this change.
- 5. The total flow for January at Outfall 002B was 450 gallons with a 16 gallon per day average. There was no flow at the weir during the four attempts to collect the compliance samples when the flow data was attained and in addition, the sampling personnel made additional attempts (a minimum of once per week) to collect the compliance samples during their "daily rounds". Therefore no analytical data is reportable for Outfall 002B.
- 6. The Environmental Services Division was notified in June 2001, that the cooling water discharge from the Brookhaven Medical Research Reactor (BMRR) would be terminated due to the permanent shutdown of the facility and therefore no discharge to Outfall 004. A SPDES permit modification package was submitted which reflected this change.
- 7. The percent removal for BOD, 5-day was calculated using one-half, the method detection limit as the value for all concentrations reported as less than the method detection limit (<MDL).

### ATTACHMENT I

## BROOKHAVEN NATIONAL LABORATORY

SPDES PERMIT NO. NY0005835

DISCHARGE MONITORING REPORT FOR FEBRUARY 2002

FOR OUTFALLS NO. 001 – 010

MONITORING PERIOD

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ADDRESS BROOKHAVEN NATIONAL LABORATORY 53 BELL AVE. BLDG 464 UPTON

NY 11973 FACILITY BROOKHAVEN NATIONAL LABORATORY LOCATIONUPTON

NY0005835 PERMIT NUMBER

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r. Michael Holland rea Group Manager

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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.

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

OMB No. 2040-0004

NY 0005835 PERMIT NUMBER 002 B DISCHARGE NUMBER MAJOR (SUBR 01) F - FINAL

RF(1004) COOLING TOWER BLOWDN

\*\*\* NO DISCHARGE | \*\*\*
NOTE: Read instructions before completing this form.

ATTN: GEORGE MALOSH, GROUP HGR **PARAMETER** QUANTITY OR LOADING NO. PREQUENCY QUALITY OR CONCENTRATION SAMPLE EX TYPE ANALYSIS **AVERAGE** MAXIMUM UNITS MINIMUM **AVERAGE MAXIMUM** UNITS SAMPLE \*\*\*\* \*\*\*\*\* \*\*\*\* See Note 5 (12)MEASUREMENT PERMIT 10400 1 0 0 \*\*\*\*\* \*\*\*\* \*\*\*\*\*\* \*\*\* REPORT ING SAIGNAE REQUIREMENT FFLUENT GROSS VALUE HONTH \*\*\* HINIMUM **MAXI HUM** SU IL & GREASE SAMPLE \*\*\*\* \*\*\*\*\* \*\*\*\*\* (19)\*\*\*\* MEASUREMENT ee Note 5 0556 1 0 0 PERMIT \*\*\*\*\* \*\*\*\*\* \*\*\*\*\* REQUIREMENT FFLUENT GROSS VALUE 医组织性肠膜 \*\*\*\* **不能的性性** DAILY HX MG/L HONTH \*\*\* LOW. IN CONDUIT OR SAMPLE \*\*\*\* ( 03) \*\*\*\* \*\*\*\* 0.00002 4/MO KCORDR HRU TREATMENT PLANT MEASUREMENT 0050 1 0 0 PERMIT \*\*\*\*\* REPORT \*\*\*\*\* \*\*\*\* \*\* IN THE PARTY OF TH FFLUENT GROSS VALUE REQUIREMENT DAILY HX MGD \*\*\*\* HONTH SAMPLE ee Note 5 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 ME/TITLE PRINCIPAL EXECUTIVE OFFICER TELEPHONE prepared under my direction or supervision in accordance with a system designed DATE 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, :. Michael Holland or those persons directly responsible for gathering the information, the information ea Group Manager submitted is, to the best of my knowledge and belief, true, accurate, and complete. 631, 344-3424 I am aware that there are significant penalties for submitting false information. SIGNATURE OF PRINCIPAL EXECUTIVE including the possibility of fine and imprisonment for knowing violations. TYPED OR PRINTED NUMBER OFFICER OR AUTHORIZED AGENT YEAR MO DAY AMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

ISCHARGE MAY BE DIRECTED TO SURROUNDING LOW LYING AREA INSIDE 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.

Form 3320-1 (Rev. 3/99) Previous editions may be used.

01203/02625084-nag form.

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DCATION LIPT ON

DORESS BROOKHAVEN NATIONAL LABORATORY

ACILITY BROOKHAVEN NATIONAL LABORATORY

NY 11973

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

Form Approved. OMB No. 2040-0004

NY0005835 PERMIT NUMBER

002 M DISCHARGE NUMBER

DAY

MA.IDR (SHBR 01)

F - FTNAL AGS NON-C COOLNG.PRCP.ETC (HN)

\*\*\* NO DISCHARGE | | \*\*\* NOTE: Read instructions before completing this form.

MONITORING PERIOD YEAR MO DAY YEAR MO FROM 02 01 UZ.

TTN: GEORGE MALOSH, GROUP MGR **PARAMETER** QUANTITY OR LOADING FREQUENCY QUALITY OR CONCENTRATION NO. SAMPLE EX TYPE AVERAGE ANALYSIS MAXIMUM UNITS MINIMUM AVERAGE MAXIMUM UNITS SAMPLE н \*\*\*\* \*\*\*\* \*\*\*\* (12)MEASUREMENT 7.1 7.5 4/MO **GRAb** 0400 1 PERMIT n n REPORT nie INCEVERAB FFLUENT GROSS VALUE REQUIREMENT \*\*\*\* HINIMUM HAXIMUM SU HONTH 3 IL & GREASE SAMPLE \*\*\*\* \*\*\*\* \*\*\*\* (19)MEASUREMENT **<** 5 1 /MO CRAR 0556 1 0 0 PERMIT \*\*\*\*\* \*\*\*\*\* 7777 1] [四四月 FFLUENT GROSS VALUE REQUIREMENT DAILY HX MG/L HONT LOW. IN CONDUIT OR SAMPLE \*\*\*\* (03) \*\*\*\* HRU TREATMENT PLANTIMEASUREMENT 0.02 4/MO RCORDR 0050 I n n PERMIT \*\*\*\*\* REPORT \*\*\* INCE REURUS FFLUENT GROSS VALUE REQUIREMENT DAILY HX MGD \*\*\*\* HONTH e Note 7 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 **AME/TITLE PRINCIPAL EXECUTIVE OFFICER** prepared under my direction or supervision in accordance with a system designed **TELEPHONE** DATE to assure that qualified personnel properly gather and evaluate the information :. Michael Holland 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 ea Group Manager submitted is, to the best of my knowledge and belief, true, accurate, and complete. 631,344-3424 I am aware that there are significant penalties for submitting false information, **SIGNATURE OF PRINCIPAL EXECUTIVE** TYPED OR PRINTED including the possibility of fine and imprisonment for knowing violations. OFFICER OR AUTHORIZED AGENT NUMBER YEAR MO DAY

MMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

EE PERMIT FOR ADDITIONL NOTES. COMMENTS AND REQUIREMENTS.

AMPLNG FOR THIS OUTFALL SHALL BE CONDUCTED AT A LOCATION DOWNSTREAM OF WHERE EXISTING DISCHARGE MIXES

WITH THE COOLING TOWER BLOWDOWN FROM THE STAR DETECTOR.

01204/01202004-11391form

. Form 3320-1 (Rev. 3/99) Previous editions may be used.

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DDRESS BROOKHAVEN NATIONAL LABORATORY 53 BELL AVE, BLDG 464

UPTON NY 11973 ACILITY BROOKHAVEN NATIONAL LABORATORY DICATION UPT ON NY 11973

NY0005835 **PERMIT NUMBER** 

003 M DISCHARGE NUMBER

(SUBR 01) F - FINAL

MAJOR

HFBR & AGS NON-C COOL, ETC (HO)

\*\*\* NO DISCHARGE |\_\_ | \*\*\*

		M	ONITO	RING	PERIO	D	
	YEAR	MO	DAY		YEAR	МО	DAY
FROM	02	02	01	ТО	02	02	28

MITTN: GEORGE MALDSH.	GROUP MG	R	<u> </u>		<u> </u>	······································	NOTE: Read in	structions before			form.
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AME/TITLE PRINCIPAL EXECUTIVE	REQUIREMENT	under penalty of law that the	is document and all attachi	nents were				TELEPHO			TE
. Michael Holland ea Group Manager	to assure submitte or those	d under my direction or sup e that qualified personnel pr ed. Based on my inquiry of persons directly responsible ed is, to the best of my know	operly gather and evaluate the person or persons who a for eathering the informati	the information nanage the system ion, the information	n,						
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WEE PERMIT FOR ADDITIONAL NOTES, COMMENTS AND REQUIREMENTS

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DDRESS BROOKHAVEN NATIONAL LABORATORY

ICILITY BROOKHAVEN NATIONAL LABORATORY

NY 11973

NY 11973

NATIONAL POLLUTANY CISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITURING REPORT (DMR)

Tuill ruptocu. OMB No. 2040-0004

NY0005835 PERMIT NUMBER

004 M DISCHARGE NUMBER MAJOR (SUBR 01) F - FINAL

MRR NON-CONTACT COOLG WTR (HP)

\*\*\* NO DISCHARGE XX | \*\*\*

MONITORING PERIOD 
 YEAR
 MO
 DAY
 YEAR
 MO
 DAY

 FROM
 02
 02
 01
 To
 02
 02
 28

TTN: GEORGE MALOSH	GROUP MG	R	L				OTE: Read ins	tructions before			form.
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Mr. Michael Holland	to assur submitt	re that qualified personnel pr ted. Based on my inquiry of	operly gather and evaluate the person or persons who r	the information	_						
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EE PERMIT FOR ADDITIONL NOTES, COMMENTS & REQUIREMENTS

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DDRESS BROOKHAVEN NATIONAL LABORATORY

ACILITY BROOKHAVEN NATIONAL LABORATORY

NY 11973

Form Approved.
OMB No. 2040-0004

NY0005835 **PERMIT NUMBER** 

005 M DISCHARGE NUMBER MAJOR (SUBR 01) F - FINAL NSLS COOLING TOWN BLDN ETC(HS)

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	YEAR	МО	DAY		YEAR	МО	DAY
FROM	02	02	01	то	02	02	28
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\*\*\* NO DISCHARGE |\_\_ | \*\*\*

							NOTE: Read ins				
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Mr. Michael Holland Area Group Manager	or those	e that qualified personnel pr ed. Based on my inquiry of persons directly responsible	the person or persons who n for gathering the informati	nanage the system on the informati	inu i			(01 D/:			
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EE PERMIT FOR ADDITIONAL NOTES, COMMENTS & REQUIREMENTS

**UPT ON** 

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PRESS BROOKHAVEN NATIONAL LABORATORY

CILITY BROOKHAVEN NATIONAL LABORATORY

NY 11973

NY 11973

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

OMB No. 2040-0004

NYOO05835 PERMIT NUMBER 007 M DISCHARGE NUMBER MAJOR

(SUBR 01) F - FINAL

WATER	TREATMENT	PLT	BKWSH	(HX)

\*\*\* NO DISCHARGE | \*\*\*
NOTE: Read instructions before completing this fo

| MONITORING PERIOD | | YEAR | MO | DAY | | YEAR | YEAR

ITN: GEORGE MALOSH.	GROUP MG	R	\	·····		· · · · · · · · · · · · · · · · · · ·	IOTE: Read Instruc	tions before	com	pleting thi	s form.
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Mr. Michael Holland	d. Based on my inquiry of i persons directly responsible	the person or persons who r	nanage the system	n,							
Area Group Manager	d is, to the best of my know are that there are significant	ledge and belief, true, accu	rate, and complet	ie.	TURE OF PRINCIPAL		344-34				
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MMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference ell attachments here)

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EE PERHIT FOR ADDITIONAL NOTES, COMMENTS & REQUIREMENTS

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DDRESS BROOKHAVEN NATIONAL LABORATORY

ACILITY BROOKHAVEN NATIONAL LABORATORY

NY 11973

NY 11973

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

rorm Approved. OMB No. 2040-0004

NYOOO5835 PERMIT NUMBER 008 M DISCHARGE NUMBER MAJOR (SUBR 01) F - FINAL

STORMWTR RUNOFF WAREHOUSE (HW)

\*\*\* NO DISCHARGE | \*\*\*
NOTE: Read instructions before completing this form

		N	IONITO	RING	PERIO	D .	
	YEAR	МО	DAY		YEAR	МО	DAY
FROM	02	02	01	то	02	02	28

TTN: GEORGE MALOSH,	GROUP MG	R					NOTE: Read Insti	ructions befor	e com	pleting this	form.
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Mr. Michael Holland	submitte	ed. Based on my inquiry of	the person or persons who r	nanage the evelor	n.						
Area Group Manager	submitte	ed is, to the best of my know	ersons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. e that there are significant penalties for submitting false information.			SIGNATURE OF PRINCIPAL EXECUTIVE			3424		
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MMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

ARAMETERS 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 & REQUIREMENTS.

UPTON

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DRESS BROOKHAVEN NATIONAL LABORATORY

CILITY BROOKHAVEN NATIONAL LABORATORY

NY 11973

NY 11973

NY 0005835 **PERMIT NUMBER** 

010 M DISCHARGE NUMBER MAJOR (SUBR 01) F - FINAL

STORMWIR R O CENTRAL STEAM (H)

**MONITORING PERIOD** YEAR MO DAY YEAR MO DAY FROM 02 02 01 TO 02 02 28 \*\*\* NO DISCHARGE XX 1 \*\*\*

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Area Group Manager submit					em, tion ete.				631 344-34		424		
TYPED OR PRINTED	includir	rare that there are significant penalties for submitting false information, ag the possibility of fine and imprisonment for knowing violations.				SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			AREA	NUMBE	R	YEAR M	O DAY
AMENTS AND EXPLANATION OF	ANY VIOLATIONS	Reference all atta	chments here!										

AMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

ARAMETERS EXCEPT FOR FLOW TO BE SAMPLED MONTHLY DURING STORM EVENT. (IF NO DISCHARGE, ENTER "X" IN THE \*NO DISCHARGE" BOX AT THE UPPER RIGHT). SEE PERMIT FOR ADDITIONAL NOTES, COMMENTS AND REQUIREMENTS

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UPTON

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DRESS BROOKHAVEN NATIONAL LABORATORY

CILITY BROOKHAVEN NATIONAL LABORATORY

NY 11973

NY 11973

Form Approved. OMB No. 2040-0004

NY0005835 PERMIT NUMBER 06A M DISCHARGE NUMBER MAJOR

(SUBR 01)
F - FINAL
LINAC NCCW, FLOOR DNS, ETC(HT1)

\*\*\* NO DISCHARGE | \*\*\*
NOTE: Read instructions before completing this form

TTN: GEORGE MALOSH,	GROUP MG	R		321		1 02 20 -	NOTE: Read ins	tructions before	e com	pleting this	form.
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HE PERMIT FOR ADDITIONAL NOTES, COMMENTS AND REQUIREMENTS

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CATIONUPT ON

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

Form Approved. OMB No. 2040-0004

USDOE DORESS BROOKHAVEN NATIONAL LABORATORY

53 BELL AVE, BLDG 464

NY 11973 CILITY BROOKHAVEN NATIONAL LABORATORY

NY 11973 TTN: GEORGE MALOSH, GROUP MGR

NY0005835 06B M PERMIT NUMBER

MONITORING PERIOD

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YEAR MO DAY

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\*\*\* NO DISCHARGE NOTE: Read instructions before completing this form.

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MMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

SE PERMIT FOR ADDITIONAL NOTES, COMMENTS & REQUIREMENTS

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### ATTACHMENT II

### **BROOKHAVEN NATIONAL LABORATORY**

SPDES PERMIT NO. NY0005835

**DISCHARGE MONITORING REPORT FOR FEBRUARY 2002** 

ANALYTICAL RESULTS FROM H2M LABS, INC.

FOR REGULATORY COMPLIANCE SAMPLES COLLECTED

2/4/02 AND 2/7/02

FROM OUTFALL 001