



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

September 16, 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 August 2003

Included as Attachment I, please find the DMR for the month of August 2003. Chemical analyses for the reported parameters are conducted by NYS Department of Health certified laboratories. As of June 1, 2003, General Engineering Laboratories (GEL) will be performing most of the analyses on all SPDES samples. The BNL Analytical Services Laboratory will be performing metals and volatile organic compound analyses whereas H2M Labs, Inc. will be performing the BOD₅, Nitrogen series, and fecal coliform analyses. 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 and Waste Management Services Division, Field Sampling Team.

Review of the analytical data shows that all parameters met their respective SPDES effluent limitations. 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 and Waste Management Services Division or the Plant Engineering Division. Based on this information, we believe the values reported on the DMR are representative of the effluent from the BNL during the month of August 2003.

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.



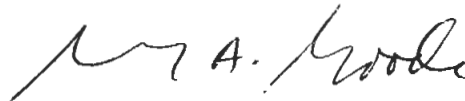
REGISTERED TO
ISO 14001: 1996



NSF's Registration Program
is accredited by the American
National Standards Institute -
Registrar Accreditation Board

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 September 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,



George A. Goode
Environmental & Waste Management Services
Division Manager

GAG/MA:car

Attachment I: Discharge Monitoring Report for August 2003.

Attachment II: Analytical Results from H2M Labs Inc., the BNL Analytical Services Laboratory, and GEL LLC for samples collected on 8/4/03 and 8/6/03 from Outfall 001.

Attachment III: Analytical Results from GEL LLC for samples collected from Outfalls 002, 005, and 006A.

cc:	M. Allocco	w/attachments	M. Baldwin	w/attachments
	M. Bebon	w/o attachments	W. Chaloupka	w/attachments
	S. Dierker	w/o attachments	G. Goode	w/o Attachments
	G. Granzen	w/o attachments	C. Johnson	w/o attachments
	K. Klaus	w/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	B. Style	w/o attachments
	J. Tarpinian	w/o attachments	D. Van Duyne	w/attachments

EC62ER.03

Brookhaven National Laboratory
SPDES Permit No. NY0005835
Discharge Monitoring Report for August 2003
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. There was no discharge from Outfalls 002B, 006B, 008, and 010 during this reporting period.

ATTACHMENT I
BROOKHAVEN NATIONAL LABORATORY
SPDES PERMIT NO. NY0005835
DISCHARGE MONITORING REPORT FOR AUGUST 2003
FOR OUTFALLS NO. 001 – 010

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)

MAJOR (SUBR 01)
 F - FINAL
 PROCESS SANIT & STORMWTR RNOFF

*** No Discharge

Note: Read Instructions before completing this form

NY0005835	001 M	Discharge Number
Permit Number		
Monitoring Period		
From	To	
YR MO DY	YR MO DY	
03 08 01	03 08 31	

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
TEMPERATURE, WATER DEG. FAHRENHEIT	*****	*****		*****	*****	(15)	0	01/01	GR
00011 1 0 0 EFFLUENT GROSS VALUE	*****	*****	****	*****	*****	DEG.F		DAILY	GRAB
BOD, 5-DAY (20 DEG. C)	*****	*****		*****	*****	(19)	0	02/30	24
00310 1 0 0 EFFLUENT GROSS VALUE	*****	*****	****	*****	*****	MG/L		ONCE/MONTH	COMP24
PH	*****	*****	****	6.1	*****	(12)	0	01/01	GR
00400 1 0 0 EFFLUENT GROSS VALUE	*****	*****	****	5.8	*****	SU		DAILY	GRAB
SOLIDS, TOTAL SUSPENDED	*****	*****	****	*****	*****	(19)	0	02/30	24
00530 1 0 0 EFFLUENT GROSS VALUE	*****	*****	****	*****	*****	MG/L		ONCE/MONTH	COMP24
SOLIDS, SETTLEABLE	*****	*****	****	*****	*****	(25)	0	01/01	GR
00545 1 0 0 EFFLUENT GROSS VALUE	*****	*****	****	*****	*****	ML/L		DAILY	GRAB
NITROGEN, TOTAL (AS N)	*****	*****	****	*****	*****	(19)	0	02/30	24
00600 1 0 0 EFFLUENT GROSS VALUE	*****	*****	****	*****	*****	MG/L		ONCE/MONTH	COMP24
NITROGEN, AMMONIA TOTAL (AS N)	*****	*****	****	*****	*****	(19)	0	02/30	24
00610 1 0 0 EFFLUENT GROSS VALUE	*****	*****	****	*****	*****	MG/L		ONCE/MONTH	COMP24

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

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.

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 SFBYS. SEE PERMIT FOR ADDITIONAL NOTES, COMMENTS AND REQUIREMENTS

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

NAME USDOE
 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 & STORMWTR RNOFF
 *** No Discharge

NY005835 001 M Discharge Number
 Permit Number

Monitoring Period
 From To
 YR MO DY YR MO DY
 03 08 01 03 08 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			
TEMPERATURE, WATER DEG. FAHRENHEIT	*****	*****	*****	*****	*****	0	01/01	GR
00011 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	0	DAILY	GRAB
BOD, 5-DAY (20 DEG. C)	*****	*****	*****	*****	*****	0	02/30	24
00310 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	0	ONCE/MONTH	COMP24
PH	*****	*****	*****	*****	*****	0	01/01	GR
00400 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	0	DAILY	GRAB
SOLIDS, TOTAL SUSPENDED	*****	*****	*****	*****	*****	0	02/30	24
00530 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	0	ONCE/MONTH	COMP24
SOLIDS, SETTLEABLE	*****	*****	*****	*****	*****	0	01/01	GR
00545 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	0	DAILY	GRAB
NITROGEN, TOTAL (AS N)	*****	*****	*****	*****	*****	0	02/30	24
00600 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	0	ONCE/MONTH	COMP24
NITROGEN, AMMONIA TOTAL (AS N)	*****	*****	*****	*****	*****	0	02/30	24
00610 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	0	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 EXFLT FROM SFB'S. SEE PERMIT FOR ADDITIONAL NOTES, COMMENTS AND REQUIREMENTS

Page 1 of

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)

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

NY0005835 Permit Number 001 M Discharge Number
 Monitoring Period From To
 YR MO DY YR MO DY
 03 08 01 03 08 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			
ZINC, TOTAL (AS ZN)	*****	*****	*****	*****	0.03	0	02/30	24
01092 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	0.1 DAILY MX	0	ONCE/MONTH	COMP24
TOLUENE	*****	*****	*****	*****	< 2	0	02/30	GR
34010 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	5 DAILY MX	0	TWICE/MONTH	GRAB
METHYLENE CHLORIDE	*****	*****	*****	*****	< 2	0	02/30	GR
34423 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	5 DAILY MX	0	TWICE/MONTH	GRAB
1,1,1-TRICHLOROETHANE	*****	*****	*****	*****	< 2	0	02/30	GR
34506 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	5 DAILY MX	0	TWICE/MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	0.53	0.72	(03)	*****	*****	0	99/99	RC
50050 1 0 0 EFFLUENT GROSS VALUE	REPORT	2.3 DAILY MX	MGD	*****	*****	0	CONTINUOUS	RCORDR
MERCURY, TOTAL (AS HG)	*****	*****	*****	*****	< 0.00008	0	02/30	24
71900 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	0.0008 DAILY MX	0	ONCE/MONTH	COMP24
COLIFORM, FECAL GENERAL	*****	*****	*****	*****	< 2	0	02/30	GR
74055 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	200 DAILY AV	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

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

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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)

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

NY0005835 001 M Discharge Number
 Permit Number
 Monitoring Period
 From To
 YR MO DY YR MO DY
 03 08 01 03 08 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			
2-BUTANONE	*****	*****	*****	*****	< 2	(28)	0	02/30	GR
78356 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	50 DAILY MX	UG/L	0	TWICE/MONTH	GRAB
BOD, 5-DAY PERCENT REMOVAL	*****	*****	> 88	*****	*****	(23)	0	01/30	CA
81010 K 0 0 PERCENT REMOVAL	*****	*****	85 MO AV MN	*****	*****	PERCENT	0	ONCE/MONTH	CALCTD
SOLIDS, SUSPENDED PERCENT REMOVAL	*****	*****	> 98	*****	*****	(23)	0	01/30	CA
81011 K 0 0 PERCENT REMOVAL	*****	*****	85 MO AV MN	*****	*****	PERCENT	0	ONCE/MONTH	CALCTD
PERCENT REMOVAL	*****	*****		*****	*****				
PERCENT REMOVAL	*****	*****		*****	*****				
PERCENT REMOVAL	*****	*****		*****	*****				
PERCENT REMOVAL	*****	*****		*****	*****				
PERCENT REMOVAL	*****	*****		*****	*****				
PERCENT REMOVAL	*****	*****		*****	*****				
PERCENT REMOVAL	*****	*****		*****	*****				
PERCENT REMOVAL	*****	*****		*****	*****				
PERCENT REMOVAL	*****	*****		*****	*****				
PERCENT REMOVAL	*****	*****		*****	*****				
PERCENT REMOVAL	*****	*****		*****	*****				

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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)
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 APPROX 15% OF STP DISCHARGE CAN BE TO GW VIA EXFIL FROM SFB'S. 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)

MAJOR (SUBR 01)
 F - FINAL
 NLSL COOLING TOWR BLDN ETC(HS) *****
 *** No Discharge

NY005835 005 M Discharge Number
 Permit Number

Monitoring Period
 From To
 YR MO DY YR MO DY
 03 08 01 03 08 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			
PH	*****	*****	7.1	*****	8.3	0	04/30	GR
00400 1 0 0 EFFLUENT GROSS VALUE	*****	*****	REPORT MINIMUM	*****	8.5 MAXIMUM		ONCE/MONTH	GRAB
OIL & GREASE	*****	*****	*****	*****	3.1	0	01/30	GR
See Note 1								
00556 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	15 DAILY MX		ONCE/MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	2.0	*****	*****	*****	*****	0	04/30	RC
50050 1 0 1 EFFLUENT GROSS VALUE	REPORT DAILY AV	*****	*****	*****	*****		ONCE/MONTH	RCORDR
	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)
 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 (SUBR 01)
 F - FINAL
 STORMWTR R O CENTRAL STEAM (H) *****
 *** No Discharge

NY0005835 010 M Discharge Number
 Permit Number
 Monitoring Period
 From To
 YR MO DY YR MO DY
 03 08 01 03 08 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			
FLOW RATE	*****		*****	*****	*****			IN
00056 1 0 0 See Note 2 EFFLUENT GROSS VALUE	*****	REPORT DAILY MX	*****	*****	*****		ONCE/MONTH	INSTAN
PH	*****	*****		*****	(12)			GR
00400 1 0 0 EFFLUENT GROSS VALUE	*****	*****	REPORT MINIMUM	*****	8.5 MAXIMUM		ONCE/MONTH	GRAB
OIL & GREASE	*****	*****	*****	*****	(19)			GR
00556 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	15 DAILY MX		ONCE/MONTH	GRAB
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

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 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
 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	*****	*****		7.1	*****	7.5	(12)	0	04/30	GR
00400 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	REPORT MINIMUM	*****	9.0 MAXIMUM	SU	0	ONCE/MONTH	GRAB
OIL & GREASE See Note 1	*****	*****	*****	*****	*****	3.5	(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	0.027	*****	(03)	*****	*****	*****		0	04/30	RC
50050 1 0 1 EFFLUENT GROSS VALUE	REPORT DAILY AV	*****	MGD	*****	*****	*****	*****	0	ONCE/MONTH	RCORDR
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		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.								
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.								
Telephone		631-344-3424								
Date Signed										

ATTACHMENT II

BROOKHAVEN NATIONAL LABORATORY

SPDES PERMIT NO. NY0005835

DISCHARGE MONITORING REPORT FOR AUGUST 2003

ANALYTICAL RESULTS FROM H2M LABS,

THE BNL ANALYTICAL SERVICES LABORATORY,

AND GEL LLC

FOR REGULATORY COMPLIANCE SAMPLES COLLECTED

8/4/03 AND 8/6/03

FROM OUTFALL 001

H2M LABS, INC.

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

LABORATORY RESULTS

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

Lab No. : 0308155-001

Sample Information...
Type : Aqueous

Origin:

Client ID. : 17234-001

Collected 8/4/2003 11:25:00 AM
Received 8/4/2003 3:45:00 PM
Collected By CLIENT
Copies To Original
CC

Parameter(s)	Results	Units	Method Number	Analyzed
Biochemical Oxygen Demand	< 2	mg/L	E405.1	8/6/2003 10:02:00 AM
Nitrogen, Total	3.2	mg/L	M4500-N C	8/14/2003
Nitrogen, Ammonia (As N)	< 0.10	mg/L	E350.1	8/13/2003 3:50:21 PM
Nitrite as N	0.02	mg/L	E353.2	8/6/2003 7:51:13 AM
Nitrate as N	3.08	mg/L	E353.2	8/12/2003 2:01:41 PM
Nitrogen, Kjeldahl, Total	0.17	mg/L	E351.2	8/14/2003 12:24:13 PM

Outfall 001 ⁴¹⁴⁸²²⁰³
Sampled 8-6-03
24 hr. Composite

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

Date Reported : 8/25/2003

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. : 0308262-001

Sample Information...

Type : Aqueous

Origin:

Client ID. : 17243-001

Collected 8/6/2003 7:50:00 AM
Received 8/6/2003 3:12:00 PM
Collected By CLIENT
Copies To Original
CC

<u>Parameter(s)</u>	<u>Results</u>	<u>Units</u>	<u>Method Number</u>	<u>Analyzed</u>
Biochemical Oxygen Demand	14	mg/L	E405.1	8/7/2003 2:06:00 PM
Nitrogen, Total	4.0	mg/L	M4500-N C	8/14/2003
Nitrogen, Ammonia (As N)	< 0.10	mg/L	E350.1	8/13/2003 3:52:21 PM
Nitrite as N	0.01	mg/L	E353.2	8/8/2003 7:45:15 AM
Nitrate as N	3.89	mg/L	E353.2	8/12/2003 2:05:01 PM
Nitrogen, Kjeldahl, Total	0.19	mg/L	E351.2	8/14/2003 12:26:13 PM

Outfall 001
Sampled 8-6-03
24 Hr. Composite

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

Date Reported : 8/25/2003

Joann M. Slavina

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. : 0308155-002

Sample Information...
Type : Aqueous

Origin:

Client ID. : 17234-002

Collected 8/4/2003 1:38:00 PM
Received 8/4/2003 3:45:00 PM
Collected By CLIENT
Copies To Original
CC

Parameter(s)	Results	Units	Method Number	Analyzed
Fecal Coliform	< 2	MPN	M9221 C	8/4/2003 4:00:00 PM

Outfall 001
Sampled 8-16-03
Grab Sample

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

Date Reported : 8/25/2003

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

Lab No. : 0308262-002

Sample Information...

Type : Aqueous

70 Bell Ave.

Jpton, NY 11973

Attn To : S. Scarpitta

Origin:

Client ID. : 17243-002

Collected 8/6/2003 12:00:00 PM

Received 8/6/2003 3:12:00 PM

Collected By CLIENT

Copies To Original

CC

<u>Parameter(s)</u>	<u>Results</u>	<u>Units</u>	<u>Method Number</u>	<u>Analyzed</u>
Fecal Coliform	< 2	MPN	M9221 C	8/6/2003 3:45:00 PM

Outfall 001
Sampled 8-6-03
Grab Sample

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

Date Reported : 8/25/2003

Joann M. Slavin

Laboratory Manager

Volatile Organics Analysis Data Sheet

Method 624 (CLP)

Brookhaven National Laboratory
 Environment Safety and Health Services Division
 Non-Radiological Analytical Services Laboratory

Analytical Services Lab ID:

23080405-01

Matrix: (soil/water) water Date Analyzed: 8/11/2003
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 30811B05.D
 Level: (low/med) low Dilution Factor: 1
 Dilution information: N/A

CAS No.	Compound	Concentration Units:		Q
		(ug/L or ug/Kg)	<u>ug/L</u>	
74-87-3	Chloromethane		2	U
75-01-4	Vinyl chloride		2	U
74-83-9	Bromomethane		2	U
75-00-3	Chloroethane		2	U
75-69-4	Trichlorofluoromethane		2	U
75-35-4	1,1-Dichloroethylene		2	U
67-64-1	Acetone		2	U
75-09-2	Methylene Chloride		2	U
1634-04-4	MTBE		2	U
156-60-5	trans-1,2-Dichloroethene		2	U
75-34-3	1,1-Dichloroethane		2	U
156-59-4	cis-1,2-Dichloroethylene		2	U
78-93-3	2-Butanone		2	U
67-66-3	Chloroform		2	U
71-55-6	1,1,1-Trichloroethane		2	U
56-23-5	Carbon Tetrachloride		2	U
71-43-2	Benzene		2	U
107-06-2	1,2-Dichloroethane		2	U
79-01-6	Trichloroethylene		2	U
78-87-5	1,2-Dichloropropane		2	U
75-27-4	Bromodichloromethane		2	U
10061-01-5	cis-1,3-Dichloropropene		2	U
108-10-1	4-Methyl-2-pentanone		2	U
108-88-3	Toluene		2	U
10061-02-6	trans-1,3-Dichloropropene		2	U
79-00-5	1,1,2-Trichloroethane		2	U
127-18-4	Tetrachloroethylene		2	U
142-28-9	1,3-Dichloropropane		2	U
591-78-6	2-Hexanone		2	U
124-48-1	Dibromochloromethane		2	U
108-90-7	Chlorobenzene		2	U
100-41-4	Ethylbenzene		2	U
108-38-3/106-42-3	p- + m-Xylene		2	U
95-47-6	o-Xylene		2	U
75-25-2	Bromoform		2	U
79-34-5	1,1,2,2-Tetrachloroethane		2	U
541-73-1	1,3-Dichlorobenzene		2	U
106-46-7	1,4-Dichlorobenzene		2	U
95-50-1	1,2-Dichlorobenzene		2	U

Outfall 001
 Sampled 8-4-03
 Grab Sample

1A
Volatile Organics Analysis Data Sheet
Method 624 (CLP)

Brookhaven National Laboratory
Environment Safety and Health Services Division
Non-Radiological Analytical Services Laboratory

Analytical Services Lab ID:

23080606-01

Matrix: (soil/water) water Date Analyzed: 8/11/2003
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 30811B07.D
 Level: (low/med) low Dilution Factor: 1
 Dilution information: N/A

CAS No.	Compound	Concentration Units:		Q
		(ug/L or ug/Kg)	<u>ug/L</u>	
74-87-3	Chloromethane		2	U
75-01-4	Vinyl chloride		2	U
74-83-9	Bromomethane		2	U
75-00-3	Chloroethane		2	U
75-69-4	Trichlorofluoromethane		2	U
75-35-4	1,1-Dichloroethylene		2	U
67-64-1	Acetone		2	U
75-09-2	Methylene Chloride		2	U
1634-04-4	MTBE		2	U
156-60-5	trans-1,2-Dichloroethene		2	U
75-34-3	1,1-Dichloroethane		2	U
156-59-4	cis-1,2-Dichloroethylene		2	U
78-93-3	2-Butanone		2	U
67-66-3	Chloroform		2	U
71-55-6	1,1,1-Trichloroethane		2	U
56-23-5	Carbon Tetrachloride		2	U
71-43-2	Benzene		2	U
107-06-2	1,2-Dichloroethane		2	U
79-01-6	Trichloroethylene		2	U
78-87-5	1,2-Dichloropropane		2	U
75-27-4	Bromodichloromethane		2	U
10061-01-5	cis-1,3-Dichloropropene		2	U
108-10-1	4-Methyl-2-pentanone		2	U
108-88-3	Toluene		2	U
10061-02-6	trans-1,3-Dichloropropene		2	U
79-00-5	1,1,2-Trichloroethane		2	U
127-18-4	Tetrachloroethylene		2	U
142-28-9	1,3-Dichloropropane		2	U
591-78-6	2-Hexanone		2	U
124-48-1	Dibromochloromethane		2	U
108-90-7	Chlorobenzene		2	U
100-41-4	Ethylbenzene		2	U
108-38-3/106-42-3	p- + m-Xylene		2	U
95-47-6	o-Xylene		2	U
75-25-2	Bromoform		2	U
79-34-5	1,1,2,2-Tetrachloroethane		2	U
541-73-1	1,3-Dichlorobenzene		2	U
106-46-7	1,4-Dichlorobenzene		2	U
95-50-1	1,2-Dichlorobenzene		2	U

Outfall 001
Sampled 8-6-03
Grab Sample

GENERAL ENGINEERING LABORATORIES, LLC

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

Certificate of Analysis

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

Report Date: August 15, 2003

Contact: John Burke
 Project: SPDES

Page 1 of 2

Client Sample ID: 17235-001
 Sample ID: 85417001
 Matrix: Water
 Collect Date: 04-AUG-03 11:25
 Receive Date: 05-AUG-03 09:00
 Collector: Client

Project: BRKL00404
 Client ID: BRKL004
 COC: 17235
 Samp Recv.: 17235
 Client Desc.: STP Effluent

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Solids Analysis Federal											
<i>EPA 160.2 Total Suspended Liq</i>											
Total Suspended Solids	J	0.900	0.382	2.50	mg/L		SDS	08/11/03	1322	269653	1
TRAACS Nutrient Analysis Fed											
<i>EPA 365.4 Phosphorus, Total in</i>											
Phosphorus, Total as P		0.959	0.0162	0.050	mg/L	1	THL	08/11/03	1120	269183	2

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 365.4 Prep	EPA 365.4 Phosphorus, Total in liquid-Fe	EXN1	08/08/03	1015	269182

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 160.2	
2	EPA 365.4	

*Outfall 001
 Sampled 8-4-03
 24 hr. Composite*

Notes:

The Qualifiers in this report are defined as follows :

- < Result is less than amount reported.
- > Result is greater than amount reported.
- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- P The response between the confirmation column and the primary column is >40%D.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- Y QC Samples were not spiked with this compound.
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on an "as received" basis.

GENERAL ENGINEERING LABORATORIES, LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

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

Contact: John Burke
Project: SPDES

Report Date: August 15, 2003

Page 1 of 2

Client Sample ID:	17242-001	Project:	BRKL00404
Sample ID:	85590001	Client ID:	BRKL004
Matrix:	Water	COC:	17242
Collect Date:	06-AUG-03 07:50	Samp Recv.:	17242
Receive Date:	07-AUG-03 09:30	Client Desc.:	STP EFFLUENT
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Solids Analysis Federal											
EPA 160.2 Total Suspended Liq											
Total Suspended Solids	J	0.400	0.382	2.50	mg/L		SDS	08/12/03	1044	270019	1
TRAACS Nutrient Analysis Fed											
EPA 365.4 Phosphorus, Total in Phosphorus, Total as P		0.884	0.0162	0.050	mg/L	1	THL	08/11/03	1125	269183	2

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 365.4 Prep	EPA 365.4 Phosphorus, Total in liquid-Fc	EXN1	08/08/03	1015	269182

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 160.2	
2	EPA 365.4	

Notes:

The Qualifiers in this report are defined as follows :

- < Result is less than amount reported.
- > Result is greater than amount reported.
- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- P The response between the confirmation column and the primary column is >40%D.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- Y QC Samples were not spiked with this compound.
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on an "as received" basis.

*Outfall 001
Sampled 8-6-03
24 Hr. Composite*

GENERAL ENGINEERING LABORATORIES, LLC
 2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

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

Report Date: August 15, 2003

Contact: John Burke
 Project: SPDES

Page 1 of 2

Client Sample ID: 17235-002
 Sample ID: 85417002
 Matrix: Water
 Collect Date: 04-AUG-03 13:38
 Receive Date: 05-AUG-03 09:00
 Collector: Client

Project: BRKL00404
 Client ID: BRKL004
 COC: 17235
 Samp Recv.: 17235
 Client Desc.: STP Effluent

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rapid Flow Analysis Federal											
<i>SW9012A Cyanide, Total Federal</i>											
Cyanide, Total	U	ND	1.72	5.00	ug/L	1	ADF	08/14/03	0848	269858	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	EXN1	08/06/03	1200	268581
SW846 9010B Prep	SW846 9010B Prep	EXN1	08/12/03	1100	269857

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

Notes:

The Qualifiers in this report are defined as follows :

- < Result is less than amount reported.
- > Result is greater than amount reported.
- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- P The response between the confirmation column and the primary column is >40%D.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- Y QC Samples were not spiked with this compound.
- h Sample preparation or preservation holding time exceeded.

*Outfall 001
 Sampled 8-4-03
 Grab Sample*

The above sample is reported on an "as received" basis.

GENERAL ENGINEERING LABORATORIES, LLC

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

Certificate of Analysis

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

Report Date: August 15, 2003

Contact: John Burke
 Project: SPDES

Page 1 of 2

Client Sample ID: 17242-002
 Sample ID: 85590002
 Matrix: Water
 Collect Date: 06-AUG-03 07:52
 Receive Date: 07-AUG-03 09:30
 Collector: Client

Project: BRKL00404
 Client ID: BRKL004
 COC: 17242
 Samp Recv.: 17242
 Client Desc.: STP EFFLUENT

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rapid Flow Analysis Federal											
<i>SW9012A Cyanide, Total Federal</i>											
Cyanide, Total	U	ND	1.72	5.00	ug/L	1	ADF	08/14/03	0903	269324	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	EXN1	08/11/03	1600	269323

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

Notes:

The Qualifiers in this report are defined as follows :

- < Result is less than amount reported.
- > Result is greater than amount reported.
- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- P The response between the confirmation column and the primary column is >40%D.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- Y QC Samples were not spiked with this compound.
- h Sample preparation or preservation holding time exceeded.

*Outfall 001
 Sampled 8-6-03
 Grab Sample*

The above sample is reported on an "as received" basis.

TOTAL METALS
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

SDG No.: 85417

Method Type: SW846

Sample ID: 85417001

Client ID: 17235-001

Contract: BRKL00404

Lab Code: GEL

Case No.: GEL

SAS No.:

Matrix: WATER

Date Received: 8/5/2003

Level: LOW

% Solids: 0.00

CAS No.	Analyte	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
7429-90-5	Aluminum	78.0	µg/L	B		P	70.8	TJA61 Trace ICP2	81103
7440-36-0	Antimony	3.280	µg/L	U		P	3.280	TJA61 Trace ICP2	81103
7440-38-2	Arsenic	2.360	µg/L	U		P	2.360	TJA61 Trace ICP2	81103
7440-39-3	Barium	19.0	µg/L	B		P	0.360	TJA61 Trace ICP2	81103
7440-41-7	Beryllium	0.230	µg/L	U		P	0.230	TJA61 Trace ICP2	81103
7440-43-9	Cadmium	0.610	µg/L	U		P	0.610	TJA61 Trace ICP2	81103
7440-70-2	Calcium	8810	µg/L			P	9.300	TJA61 Trace ICP2	81103
7440-47-3	Chromium	2.080	µg/L	U		P	2.080	TJA61 Trace ICP2	81103
7440-48-4	Cobalt	1.100	µg/L	U		P	1.100	TJA61 Trace ICP2	81103
7440-50-8	Copper	46.8	µg/L			P	2.020	TJA61 Trace ICP2	81103
7439-89-6	Iron	171	µg/L			P	25.3	TJA61 Trace ICP2	81103
7439-92-1	Lead	2.140	µg/L	U		P	2.140	TJA61 Trace ICP2	81103
7439-95-4	Magnesium	2750	µg/L	B		P	12.7	TJA61 Trace ICP2	81103
7439-96-5	Manganese	3.750	µg/L	B		P	0.760	TJA61 Trace ICP2	81103
7439-97-6	Mercury	0.033	µg/L	U		AV	0.033	PE CVAA2	081103W1Hg
7440-02-0	Nickel	4.250	µg/L	B		P	2.980	TJA61 Trace ICP2	81103
7440-09-7	Potassium	3400	µg/L	B		P	22.2	TJA61 Trace ICP2	81103
7782-49-2	Selenium	4.560	µg/L	U		P	4.560	TJA61 Trace ICP2	81103
7440-22-4	Silver	1.980	µg/L	U		P	1.980	TJA61 Trace ICP2	81103
7440-23-5	Sodium	27900	µg/L			P	32.0	TJA61 Trace ICP2	81103
7440-28-0	Thallium	4.080	µg/L	U		P	4.080	TJA61 Trace ICP2	81103
7440-62-2	Vanadium	3.540	µg/L	B		P	2.470	TJA61 Trace ICP2	81103
7440-66-6	Zinc	34.4	µg/L			P	1.090	TJA61 Trace ICP2	81103

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

Outfall 001
Sampled 8-4-03
24hr. Composite

TOTAL METALS
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

SDG No.: 85590

Method Type: SW846

Sample ID: 85590001

Client ID: 17242-001

Contract: BRKL00404

Lab Code: GEL

Case No.: GEL

SAS No.:

Matrix: WATER

Date Received: 8/7/2003

Level: LOW

% Solids: 0.00

CAS No.	Analyte	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
7429-90-5	Aluminium	70.8	µg/L	U		P	70.8	TJA61 Trace ICP2	81503
7440-36-0	Antimony	3.280	µg/L	U		P	3.280	TJA61 Trace ICP2	81503
7440-38-2	Arsenic	3.980	µg/L	B		P	2.360	TJA61 Trace ICP2	81503
7440-39-3	Barium	20.4	µg/L	B		P	0.360	TJA61 Trace ICP2	81503
7440-41-7	Beryllium	0.230	µg/L	U		P	0.230	TJA61 Trace ICP2	81503
7440-43-9	Cadmium	0.610	µg/L	U		P	0.610	TJA61 Trace ICP2	81503
7440-70-2	Calcium	9710	µg/L			P	9.300	TJA61 Trace ICP2	81503
7440-47-3	Chromium	2.080	µg/L	U		P	2.080	TJA61 Trace ICP2	81503
7440-48-4	Cobalt	1.100	µg/L	U		P	1.100	TJA61 Trace ICP2	81503
7440-50-8	Copper	34.0	µg/L			P	2.020	TJA61 Trace ICP2	81503
7439-89-6	Iron	122	µg/L			P	25.3	TJA61 Trace ICP2	81503
7439-92-1	Lead	2.140	µg/L	U		P	2.140	TJA61 Trace ICP2	81503
7439-95-4	Magnesium	3140	µg/L	B		P	12.7	TJA61 Trace ICP2	81503
7439-96-5	Manganese	2.850	µg/L	B		P	0.760	TJA61 Trace ICP2	81503
7439-97-6	Mercury	0.079	µg/L	B		AV	0.033	PE CVAA2	081303W1Hg
7440-02-0	Nickel	2.980	µg/L	U		P	2.980	TJA61 Trace ICP2	81503
7440-09-7	Potassium	3610	µg/L	B		P	22.2	TJA61 Trace ICP2	81503
7782-49-2	Selenium	4.560	µg/L	U		P	4.560	TJA61 Trace ICP2	81503
7440-22-4	Silver	1.980	µg/L	U		P	1.980	TJA61 Trace ICP2	81503
7440-23-5	Sodium	29100	µg/L			P	32.0	TJA61 Trace ICP2	81503
7440-28-0	Thallium	4.080	µg/L	U		P	4.080	TJA61 Trace ICP2	81503
7440-62-2	Vanadium	2.560	µg/L	B		P	2.470	TJA61 Trace ICP2	81503
7440-66-6	Zinc	34.0	µg/L			P	1.090	TJA61 Trace ICP2	81503

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

*Outfall 001
Sampled 8-6-03
24 Hr. Composite*

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. : 0308155-003

Sample Information...
Type : Aqueous

Origin:

Client ID. : 17234-003

Collected 8/4/2003 11:50:00 AM
Received 8/4/2003 3:45:00 PM
Collected By CLIENT
Copies To Original
CC

<u>Parameter(s)</u>	<u>Results</u>	<u>Units</u>	<u>Method Number</u>	<u>Analyzed</u>
Biochemical Oxygen Demand	54	mg/L	E405.1	8/6/2003 10:04:00 AM

STP Influent ^{4/16/03}
Sampled 8-16-03
24 Hr. Composite

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

Date Reported : 8/25/2003

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

Lab No. : 0308262-003

70 Bell Ave.

Jpton, NY 11973

Attn To : S. Scarpitta

Client ID. : 17243-003

Collected 8/6/2003 7:58:00 AM

Received 8/6/2003 3:12:00 PM

Collected By CLIENT

Copies To Original

CC

<u>Parameter(s)</u>	<u>Results</u>	<u>Units</u>	<u>Method Number</u>	<u>Analyzed</u>
Biochemical Oxygen Demand	45	mg/L	E405.1	8/7/2003 2:07:00 PM

STP Influent
Sampled 8-6-03
24 Hr. Composite

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

Date Reported : 8/25/2003

Joann M. Slavin

Laboratory Manager

GENERAL ENGINEERING LABORATORIES, LLC
 2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

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

Report Date: August 15, 2003

Contact: John Burke
 Project: SPDES

Page 1 of 1

Client Sample ID: 17235-003
 Sample ID: 85417003
 Matrix: Water
 Collect Date: 04-AUG-03 11:50
 Receive Date: 05-AUG-03 09:00
 Collector: Client

Project: BRKL00404
 Client ID: BRKL004
 COC: 17235
 Samp Recv.: 17235
 Client Desc.: STP Influent

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Solids Analysis Federal											
EPA 160.2 Total Suspended Liq											
Total Suspended Solids		47.0	1.91	12.5	mg/L	SDS	08/11/03	1322	269653	1	

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 160.2	

Notes:

The Qualifiers in this report are defined as follows :

- < Result is less than amount reported.
- > Result is greater than amount reported.
- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- P The response between the confirmation column and the primary column is >40%D.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- Y QC Samples were not spiked with this compound.
- h Sample preparation or preservation holding time exceeded.

*STP Influent
 Sampled 8-4-03
 24 Hr. Composite*

The above sample is reported on an "as received" basis.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Reviewed by 

GENERAL ENGINEERING LABORATORIES, LLC

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

Certificate of Analysis

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

Contact: John Burke
Project: SPDES

Report Date: August 15, 2003

Page 1 of 1

Client Sample ID: 17242-003
Sample ID: 85590003
Matrix: Water
Collect Date: 06-AUG-03 07:58
Receive Date: 07-AUG-03 09:30
Collector: Client

Project: BRKL00404
Client ID: BRKL004
COC: 17242
Samp Recv.: 17242
Client Desc.: STP INFLUENT

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Solids Analysis Federal											
<i>EPA 160.2 Total Suspended Liq</i>											
Total Suspended Solids		38.1	1.03	6.76	mg/L	SDS	08/12/03	1044	270019	1	

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 160.2	

Notes:

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- P The response between the confirmation column and the primary column is >40%D.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- Y QC Samples were not spiked with this compound.
- h Sample preparation or preservation holding time exceeded.

*STP Influent
Sampled 8-6-03
24 Hr. Composite*

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Reviewed by _____


ATTACHMENT III
BROOKHAVEN NATIONAL LABORATORY
SPDES PERMIT NO. NY0005835
DISCHARGE MONITORING REPORT FOR AUGUST 2003
ANALYTICAL RESULTS FROM GEL LLC
FOR REGULATORY COMPLIANCE SAMPLES COLLECTED FROM
OUTFALLS 002, 005, AND 006A

GENERAL ENGINEERING LABORATORIES, LLC

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

Certificate of Analysis

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

Contact: John Burke
Project: SPDES

Report Date: August 13, 2003

Page 1 of 1

Client Sample ID: 17236-002
Sample ID: 85416002
Matrix: Water
Collect Date: 04-AUG-03 10:30
Receive Date: 05-AUG-03 09:00
Collector: Client

Project: BRKL00404
Client ID: BRKL004
COC: 17236
Samp Recv.: 17236
Client Desc.: HN

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Oil & Grease Analysis Federal										
<i>EPA 1664 n-Hexane/Silica Gel Treated HEM(Oil & Grease and TPH)</i>										
Oil and Grease	J	3.44	0.563	5.00	mg/L		RDH1 08/11/03 1000	269613	1	
Total Petroleum Hydrocarbons	J	2.60	0.495	4.17	mg/L		RDH1 08/11/03 1541	269624	2	

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 1664	
2	EPA 1664	

*outfall 002
Sampled 8-4-03
Grab Sample*

Notes:

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- < Result is less than amount reported.
- > Result is greater than amount reported.
- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- P The response between the confirmation column and the primary column is >40%D.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- Y QC Samples were not spiked with this compound.
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on an "as received" basis.

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Reviewed by _____

GENERAL ENGINEERING LABORATORIES, LLC

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

Certificate of Analysis

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

Contact: John Burke
Project: SPDES

Report Date: August 13, 2003

Page 1 of 1

Client Sample ID: 17236-001
Sample ID: 85416001
Matrix: Water
Collect Date: 04-AUG-03 11:00
Receive Date: 05-AUG-03 09:00
Collector: Client

Project: BRKL00404
Client ID: BRKL004
COC: 17236
Samp Recv.: 17236
Client Desc.: HS

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Oil & Grease Analysis Federal											
<i>EPA 1664 n-Hexane/Silica Gel Treated HEM(Oil & Grease and TPH)</i>											
Oil and Grease	J	3.13	0.563	5.00	mg/L		RDH1	08/11/03	1000	269613	1
Total Petroleum Hydrocarbons	J	2.50	0.495	4.17	mg/L		RDH1	08/11/03	1541	269624	2

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 1664	
2	EPA 1664	

Notes:

The Qualifiers in this report are defined as follows :

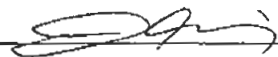
- < Result is less than amount reported.
- > Result is greater than amount reported.
- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- P The response between the confirmation column and the primary column is >40%D.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- Y QC Samples were not spiked with this compound.
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on an "as received" basis.

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Reviewed by _____



*outfall 005
Sampled 8-4-03
Grab Sample*

GENERAL ENGINEERING LABORATORIES, LLC

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

Certificate of Analysis

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

Contact: John Burke
Project: SPDES

Report Date: August 13, 2003

Page 1 of 1

Client Sample ID: 17236-003
Sample ID: 85416003
Matrix: Water
Collect Date: 04-AUG-03 10:46
Receive Date: 05-AUG-03 09:00
Collector: Client

Project: BRKL00404
Client ID: BRKL004
COC: 17236
Sample Recv.: 17236
Client Desc.: HTW

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Oil & Grease Analysis Federal										
<i>EPA 1664 n-Hexane/Silica Gel Treated HEM(Oil & Grease and TPH)</i>										
Oil and Grease	J	3.47	0.568	5.00	mg/L		RDH1 08/11/03	1000	269613	1
Total Petroleum Hydrocarbons	J	2.42	0.500	4.21	mg/L		RDH1 08/11/03	1541	269624	2

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 1664	
2	EPA 1664	

Notes:

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- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- P The response between the confirmation column and the primary column is >40%D.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- Y QC Samples were not spiked with this compound.
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on an "as received" basis.

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Reviewed by _____


*Outfall 006A
Sampled 8-4-03
Grab Sample*