M. Allocco

Environmental Services Division

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www.bnl.gov

January 17, 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 December 2001 REFERENCE: Letter from Robert Desmarais to Cunniff dated December 27, 2001

Included as Attachment I, please find the DMR for the month of December 2001. 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 five total excursions for HEDP analysis, one each at Outfalls 002, 002B, 005, 006A, and 006B, review of the analytical data shows that all parameters met their respective SPDES effluent limitations this reporting period. Please refer to item eleven of the Discharge Monitoring Report Notes section for a description of these excursions. Due to anomalies in the analytical data provided by CHEMTEX, Inc. and comparison with split sample results from H2M Labs, Inc., we believe the analytical data for the HEDP concentration in the discharge from all five outfalls are suspect. All future samples sent to CHEMTEX, Inc. will be accompanied by a field blank ensure the accuracy of analytical results received from this laboratory.

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 001A, 001B, 001D, 001E, 001F, 002, 003, 005, 006A, and 006B 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 December 2001.

#### Cunniff to Desmarais

#### January 17, 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 January 28, 2001. 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,

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Lori Cunniff, CEP Division Manager

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Attachment I:	Discharge Monitoring Report f	For December 2001.	1 e 1 - 13
Attachment II:	Analytical Results from H2M 1 12/7/01 from Outfall 001.	Labs for samples col	lected on 12/3/01, 12/5/01 and
Attachment III:	Analytical Results from H2M 001B, 001D, 002, 002B, 003, 0		
Attachment IV:	Analytical Results from CHE 001F, 002, 002B, 003, 005, 006		nples collected from Outfalls
Attachment V:	Non-Compliance Report for De 002B, 005, 006A, and 006B.	ecember SPDES Peri	nit Excursion at Outfalls 002,
cc: M. Allocco W. Chaloupka G. Granzen C. Johnson R. Lee D. Lowenstein A. Queirolo T. Sheridan	w/attachments w/attachments w/o attachments w/o attachments w/attachments w/o attachments w/o attachments w/o attachments w/o attachments	M. Baldwin L. Cunniff J. Higbie S. Krinsky E. Lessard E. Murphy V. Radeka D. Van Duyne	w/attachments w/o attachments w/attachments w/o attachments w/o attachments w/o attachments w/o attachments w/o attachments w/attachments
EC62ER.02			

### Brookhaven National Laboratory SPDES Permit No. NY0005835 Discharge Monitoring Report for December 2001 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. The reported concentration was estimated by the analytical laboratory.

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- 3. Since flow records are maintained on a weekly or monthly basis, the flow rate provided is the daily average.
- 4. Flow is estimated based upon an instantaneous flow measurement and the assumption that flow continued for the entire day (i.e., 1,440 minutes).
- 5. Photographic rinse waters discharged from Building 197B, are generated by two individual photographic processors. 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	82 GPD	5.9 SU	331 mg/L	< 10 µg/L	<b>29.1 μg/L</b>	< 5.0 μg/L
1-93B	40 GPD	7.4 SU	0.3 mg/L	< 10 µg/L	5.1 μg/L	< 5.0 μg/L
Total Flow	122 GPD					

- 6. 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.
- 7. There was no discharge from Outfalls 002A and 007 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.
- 8. 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.
- 9. There was no discharge of treatment chemicals to Outfall 003 during the monitoring period due to the removal of the High Flux Beam Reactor (HFBR) cooling towers in association with the permanent shutdown of the facility. A SPDES permit modification package was submitted which reflected this change.
- 10. The percent removal for BOD, 5-day was calculated using zero as the value for all concentrations reported as less than the method detection limit (<MDL).

11. The concentration of HEDP in Outfalls 002, 002B, 003, 005, 006A, and 006B for the October 3. 2001 sampling were above the performance criteria of 0.5 mg/L when analyzed by CHEMTEX, Inc. Resampling of all outfalls was completed in December, shortly after the receipt of the October analytical results. All HEDP concentrations, except at Outfall 002, were below the performance criteria of 0.5 mg/L. A split sample from the December sampling at Outfall 002 was sent to H2M Labs, Inc. for HEDP analysis and the concentration was below the performance criteria. In addition, Outfall 003 was sampled for HEDP in October in error since there is no longer discharge of cooling tower treatment chemicals to this outfall. The concentration of HEDP reported for this outfall is 1.83 mg/L. Historically the concentration of HEDP at all tested outfalls has been below the performance criteria and predominantly below the method detection limit. The SPDES excursions for these outfalls are therefore suspect. All future samples sent to CHEMTEX, Inc. for analysis will be accompanied by a field blank to ensure the accuracy of analytical results received from this laboratory. The following table contains the analytical results for the October and December sampling events.

ctober 3, 2001 Sampling HEMTEX, Inc. Analysis 1.21 mg/L 0.92 mg/L	December 10, 2001 Sampling CHEMTEX, Inc. Analysis 0.57 mg/L < 0.05 mg/L	December 10, 2001 Sampling H2M, Labs, Inc. Analysis 0.23 mg/L
0.92 mg/L	< 0.05 mg/I	
	~0.05 mg/L	NS
1.83 mg/L	NS	NS
0.91 mg/L	< 0.05 mg/L	NS
1.02 mg/L	0.10 mg/L	NS
1.0 mg/L	0.30 mg/L	NS
-		1.02 mg/L 0.10 mg/L

**NS:** Not Sampled

## ATTACHMENT I

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## BROOKHAVEN NATIONAL LABORATORY

## SPDES PERMIT NO. NY0005835

# DISCHARGE MONITORING REPORT FOR DECEMBER 2001

## FOR OUTFALLS NO. 001 - 010

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53 BELL AVE, BL UPTON HITY BROCKHAVEN NATI	- N	Y 11973		MIT NUMBER MON			- FINAL Ocess Sam	ITCES	TOR	WTR R	NOFE
ATIONUPTON TN: GEORGE MALOSH,	N	Y 11973	FROM UL	MO D/	Y YEAR	MO DAY	📽 NO DISC NOTE: Road Inst			in:	i form.
PARAMETER	$\searrow$	QUA	NTITY OR LOADIN	NG	Qualit	y or Concent			NO.	FREQUENCY	
MPERATURE, WATER	SAMPLE	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	EX	ANALYSIS	TYPE
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SPENDED 530 1 0 0	MEASUREMENT		*****		*****	< 4	<b>«</b> 4	( 19)	0	3/мо	COMP24
FLUENT GROSS VALUE		*****		\$ <b>**</b> }\$ <b>**</b>	******	DAILY AV	20 DAILY M	MG/L		NCE/ MONTH	IIMP24
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ME/TITLE PRINCIPAL EXECUTIVE	to assure submitte	i under my direction or supe that qualified personnel pro d. Based on my laquiry of t	rvision in accordance with operly gather and evaluate	a system designed the information	· ·			TELEPHON	E	DA	TE
rea Group Manager	subnitte	d is, to the best of my know ore that there are significant	for gathering the informati ledge and belief, true, accur penalting for multiple for	on, the information rate, and complete	on e,	TURE OF PRINCIPAL E	6	31-344-3	424		
TYPED OR PRINTED MENTS AND EXPLANATION OF A	l incontration	ine possibility of line and h	nprisonment for knowing a	iolations.		CER OR AUTHORIZED	AGENT AF	DE NUMBER	i I	YEAR M	0 DAY

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VAME       U S D D E       DISCHARGE MONITORING REPORT (DMM)       MAJOR         NDDRESSBROOKHAVEN NATIONAL LABORATORY       53 BELL AVE, BLDG 464       DISCHARGE MONITORING REPORT (DMM)       (SUBR 01)         FACILITY BROOKHAVEN NATIONAL LABORATORY       DOI H       DISCHARGE MUMBER       F - FINAL         FACILITY BROOKHAVEN NATIONAL LABORATORY       NY 11973       MONITORING PERIOD       PROCESS SANIT & STORMHTR RNOFF         CATIONUPT GN       NY 11973       FROM       VI IZ UI       To       VI IZ JI       PROCESS SANIT & STORMHTR RNOFF         ATTN:       GEORGE HALOSH, GROUP MGR       NY 11973       FROM       VI IZ UI       To       VI IZ JI       STORMHTR RNOFF         PARAMETER       QUANTITY OR LOADING       Quality or Concentration       NO.       REQUIREMENT       SAMPLE         HASUREMENT       AVERAGE       MAXIMUM       UNITS       MINIMUM       AVERAGE       MAXIMUM       INTS         PHOSPHORUS, TOTAL       SAMPLE       SAMPLE       ******       ******       I.5       0       3/MO       COMP2.         D0665 1       0       PERMIT       ******       ******       ******       REPORT       DAILY MX       NG/L       NOTE: COMP2.         D6655 1       0       0       PERMIT       ****** <t< th=""></t<>
UPTON       NY 11973         FACILITY BROOKHAVEN NATIONAL LABORATORY LOCATIONUPTON       NY 11973         ATTN:       GEORGE MALOSH, GROUP MGR       NY 11973         PARAMETER       QUANTITY OR LOADING       Quality or Concentration       NO. UIIIS       NO. EX       Reduency of MAXIMUM       SAMPLE         PARAMETER       QUANTITY OR LOADING       Quality or Concentration       NO. EX       Reduency MAXIMUM       SAMPLE         PHOSPHORUS, TOTAL (AS P)       SAMPLE       ******       ******       ******       REPORT SAMPLE       O 3/MO       COMP24         PHOSPHORUS, TOTAL (AS CN)       SAMPLE       ******       ******       ******       C 10       O 3/MO       COMP24         Object       SAMPLE       ******       ******       ******       C 283       O 3/MO       C 0MP24
MONITORING PERIOD       MONITORING PERIOD         LOCATIONUPT ON       NY 11973         ATTN: GEORGE HALOSH, GROUP MGR         PARAMETER       QUANTITY OR LOADING         QUANTITY OR LOADING       Quality or Concentration         PARAMETER       QUANTITY OR LOADING         QUANTITY OR LOADING       Quality or Concentration         PARAMETER       QUANTITY OR LOADING         QUANTITY OR LOADING       Quality or Concentration         PARAMETER       AVERAGE         AVERAGE       MAXIMUM         UNITS       MINIMUM         AVERAGE       MAXIMUM
VECUTY BROUGHAVEN NATIONAL LABURATORY         LOCATIONUPTION       NY 11973         ATTN: GEORGE MALOSH, GROUP MGR       FROM       VI IZ UI       TO       VEAR       MO       DAY       *** NO DISCHARGE       ***       NO TE: Read Instructions before completing this form.         PARAMETER       QUANTITY OR LOADING       Quality or Concentration       NO. EX       FROM       AVERAGE       MAXIMUM       UNITS       MINIMUM       AVERAGE       MAXIMUM       UNITS       SAMPLE         'HOSPHORUS, TOTAL (AS P)       SAMPLE       SAMPLE       *****       *****       *****       *****       Concentration       EX       AVERAGE       SAMPLE         'HOSPHORUS, TOTAL (AS P)       SAMPLE       ******       ******       ******       ******       Concentration       EX       AVERAGE       O       3/MO       COMP2         'DO665 1 0 0       PERMIT       ******       ******       ******       ******       CONCE/       COMP2         'EFFLUENT GROSS VALUE       SAMPLE       ******       ******       ******       ******       CONCE/       COMP2         'GAS CN       MEASUREMENT       ******       ******       ******       ******        CONCE/       COMP2         'GAS CN       ME
ATTN: GEORGE MALOSH, GROUP MGR       OUANTITY OR LOADING       Quality or Concentration       No.       FREquency of Analysis       SAMPLE         PARAMETER       QUANTITY OR LOADING       Quality or Concentration       No.       FREquency of Analysis       SAMPLE         PHOSPHORUS, TOTAL (AS P)       SAMPLE       ######       ######       ######       ######       I.5       0       3/MO       COMP24         D0665 1 0 0       PERMIT       ######       ######       ######       ######       ######       REPORT       0       3/MO       COMP24         EFFLUENT GROSS VALUE       SAMPLE MEASUREMENT       ######       ######       ######       #######       #######       #######       #######       #######       0       3/MO       COMP24         CYANIDE, TOTAL (AS CN)       SAMPLE MEASUREMENT       #######       #######       #######       #######       #######       #######       #######       ########       ########       ########       #######       ####################################
PARAMETER       QUANTITY OR LOADING       Quality or Concentration       NO.       FREQUENCY of ANALYSIS       SAMPLE TYPE         AVERAGE       MAXIMUM       UNITS       MINIMUM       AVERAGE       MAXIMUM       UNITS       EX       Of ANALYSIS       SAMPLE         'HOSPHORUS, TOTAL (AS P)       SAMPLE MEASUREMENT       *****       *****       *****       *****       0       3/MO       COMP2         D0665       1       0       0       JMO       *****       *****       *****       REPORT       0       3/MO       COMP2         D0665       1       0       0       SAMPLE       *****       *****       ******       REPORT       0       3/MO       COMP2         UNITS       FFLUENT GROSS VALUE       SAMPLE       *****       *****       ******       COMP2       0       3/MO       COMP2         CYAN IDE, TOTAL (AS CN)       SAMPLE       ******       ******       ******         COMP2       0       3/MO       GRAB
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AVERAGE       MAXIMUM       UNITS       MINIMUM       AVERAGE       MAXIMUM       UNITS         "HOSPHORUS, TOTAL (AS P)       SAMPLE MEASUREMENT       *****       *****       *****       *****       (19)       0       3/MO       COMP24         00665 1       0       0       PERMIT       *****       *****       *****       REPORT       0       3/MO       COMP24         00665 1       0       0       PERMIT       *****       *****       *****       REPORT       0       3/MO       COMP24         EFFLUENT GROSS VALUE       REQUIREMENT       *****       *****       *****       REPORT       0       3/MO       COMP24         CYANIDE, TOTAL (AS CN)       SAMPLE MEASUREMENT       ******       *****       ******       ******       0       3/MO       GRAB
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DD665 1 0 0     PERMIT     *****     *****     *****     REPORT     ONCE/ COMP24       EFFLUENT GROSS VALUE     REQUIREMENT     *****     ****     *****     CONCE/ COMP24       CYANIDE, TOTAL (AS CN)     SAMPLE MEASUREMENT     *****     *****     *****     *****     CONCE/ COMP24       MONTH     CONCE/ COMP24     MONTH     CONCE/ COMP24     CONCE/ COMP24     MONTH
EFFLUENT GROSS VALUE       REQUIREMENT       ####       DAILY HX       HG/L       HONTH         CYANIDE, TOTAL (AS CN)       SAMPLE MEASUREMENT       ######       ######       ######       ######       ######       (28)       0       3/MO       GRAB
CYANIDE, TOTAL (AS CN)SAMPLE MEASUREMENT******************(28)03/MOGRAB
EFFLUENT GROSS VALUE REQUIREMENT **** DAILY MX UG/L NONTH COPPER, TOTAL SAMPLE ***** ***** ****** ******
(AS CU) MEASUREMENT 0 3/MO COMP2
01042 1 0 0 PERMIT ###### ###### ###### ###### ###### 0.15 UNCE/ CUMP24
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(AS NI) 1 MEASUREMENT 0.003 0 STHO COHE2
01067 1 0 0 PERMIT ***** **** **** ***** ***** O-11 ONCE/ COMP2
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EFFLUENT GROSS VALUE REQUIREMENT
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER         i certuity under penalty of faw that this document and all attachments were prepared under my direction or supervision in accordance with a system designed         TELEPHONE         DATE
Mr. Michael Holland to assure that qualified personnel property gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system,
Area Group Manager 631-344-3424
I am aware that there are significant penalties for submitting false information, Including the possibility of fine and imprisonment for knowing violatiops.         SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT         AREA CODE         NUMBER         YEAR         MO         DAY
OMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
QUANTITIES OR CONCENTRATIONS OF RADIOACTIVITY IN EFFLUENT ARE SUBJECT TO REQUIREMENTS OF THE USDOE INCL.
BUT NOT LIMITED TO USDOE ORDER 5400.5. APPROX 15% OF STP DISCHARGE CAN BE TO GW VIA EXFILT FROM SFB.S.
SEE PERMIT FOR ADDITIONAL NOTES COMMENTS AND REQUIREMENTS PAForm 3320-1 (Rev 3/99) Previous editions may be used. D1308/OTH2074201@rm. PAGE 20F

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ACILITY BROOKHAVEN NATI	ONAL LABOR	RATORY	YEAR		Y YEAR			· .		а – В	i :
OCATIONUPTON		Y 11973	FROM		TO UI	MO DAY 12 31 **	* NO DISC	HARGE		***	
TTN: GEORGE HALOSH.	GROUP MG	R	Lintestinguissi				NOTE: Read Inst	ructions befor	e com	plating this	form.
PARAMETER	$\smallsetminus$	QUA	NTITY OR LOADIN	NG	Qualit	y or Concent	ration		NO.	FREQUENCY	SAMPLE
	$\times$			Τ		T	1		EX	OF ANALYSIS	TYPE
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Mr. Michael Holland	10 #55011	e that qualified personnel p ed. Based on my inquiry of	roperty gather and evaluate	the information			Γ			· ·	
Area Group Manager	or those	persons directly responsible ed is, to the best of my know	t for rathering the informat	tion the informati	an l			531-344-3	424		
	I SIII 2W	are that there are significan	t penalties for submitting f	alse information.		TURE OF PRINCIPAL	EXECUTIVE				
TYPED OR PRINTED	includin	g the possibility of fine and	Imprisonment for knowing	violations.	OFF	ICER OR AUTHORIZE	D AGENT	ODE NUMBER	1	YEAR N	O DAY
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ERMITTEE NAME/ADDRESS (Include Facility A IAME USD 0 E DDRESSBROOKHAVEN NATI 53 BELL AVE, BL UPT ON	DNAL LABOR DG-464 Ny	RATORY 11973 -	NYOOO	5835 IT NUMBER	يتستسعل إحسست	I H (S	AJOR SUBR 01) — FINAL ROCESS SA	NIT E S	TOR	WTR RI	łoff
ACILITY BROOKHAVEN NATI DCATIONUPTON ITTN: GEORGE MALOSH.	N	(*11973) R	FROM UL	MO DA 12 0	Y YEAR	12 31 **	NO DIS				form.
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Mr. Michael Holland Area Group Manager	submitte ar those submitte	d. Based on my inquiry of persons directly responsible d is, to the best of my know	the person or persons who r or gathering the informatively and belief, true, accu t penalties for submitting fa	manage the system lon, the informat wate, and comple	lon te,			631-344-	3424		
TYPED OR PRINTED	including	the possibility of fine and	Imprisonment for knowing	violations."		TURE OF PRINCIPAL	EXECUTIVE ED AGENT	AREA NUMBI	ER	YEAR M	10 DAY
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FERMITTEE NAME/ADD/E55 (include Facility) NAME USDOE	News/Location (/Different	)	national Disci	Volast disch MARGE MOI	lange elimination sye N <b>ITORING REPORT</b>	Inedani	JOR				
ADDRESSBROOKHAVEN NATI 53 Bell: Ave, Bl Upton	DG 464	RATORY Y 11973	NY OOD PERM	5835 IIT NUMBER		HARGE NUMBER	UBR 01) - FINAL		)	CTODM	18.0
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PARAMETER	$\bigtriangledown$	QUA	NTITY OR LOADIN	IG	Qualit	y or Concent	ration	· · · · · · · · · · · · · · · · · · ·	1.00	FREQUENCY	SAMPLE
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	PERMIT REQUIREMENT										
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NAME/TITLE PRINCIPAL EXECUTIVE	prepare	under penalty of law that the under my direction or sup	ervision in accordance with	a system declars				TELEPHON	IE	DA	L <u>e al de la de</u> NTE
Mr. Michael Holland Area Group Manager	to assur submitt or those submitt	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 for gathering the informat redge and belief true some	the information manage the syste tion, the informat	m, Ion te.			531 <del>-</del> 344-3	3424		
TYPED OR PRINTED	includin	are that there are significan g the possibility of fine and	t penalties for submitting fi Imprisonment for knowing	r submitting false information, SIGNATURE OF PRINCIPAL EXECUTIVE AREA NUMBER VEAR MO						IO DAY	

PCB ANALYSIS TO USE EPA METHOD 608 WITH AN NOL GOAL DF 0.065 PPB

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

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DDRESSBROOKHAVEN NATI 53 BELL AVE, BLI UPTON ACILITY BROOKHAVEN NATI OCATIONUPTON TTN: GEORGE MALDSH,	DG-464 Ni DNAL LABOR Ni	Y 11973 Ratory Y 11973	FROM VEAR	IIT NUMBER			(SUBR 01) F - FINAL BRAHHS(10 *** NO DI NOTE: Read &			***	•
PARAMETER	$\searrow$	QUA	NTITY OR LOADIN	16	Qualit	y or Conc	entration		NO. EX	FREQUENCY	
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NAME U S D D E ADDRESSBROOKHAVEN NATIS 53 BELL AVE, BLI	DDRESS BROOKHAVEN NATIONAL LABORATORY 53 BELL AVE, BLDG 464 UPTON NY 11973 CILITY BROOKHAVEN NATIONAL LABORATORY				DISCHARGE NUMBER				-		
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		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			ANALYSIS	TYPE
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Mr. Michael Holland Area Group Manager	submitte or those submitte	ited. Based on my inquiry of the persons directly responsible ited is, to the best of my know	property gather and evaluate of the person or persons who re- le for gathering the information wiedge and belief, true, accu-	manage the system tion, the informati urate, and complet	m, lon te.			631-344-	3424		
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IAME U S D O E IDDRESSBROOKHAVEN NATI 53 BELL AVE, BL UPTON	DNAL LABOI DG 464 Ni	RATORY Y 11973	NYOOO	5835 IIT NUMBER		TERA (NPPLIES) (DMR) 3 Q IARGE NUMBER	HAJOR (Subr 01) F — Final HFBR (S) Ags	NON-C	COOL	ETC	(HO)
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PARAMETER		QUA	NTITY OR LOADIN	IG	Qualit	y or Cond	centration	*	NO. EX	FREQUENCY	TYPE
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ILITY BROCKHAVEN NATI			VEAD		ORING PERIOD	•					
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PARAMETER			INTEL OR COADIN		Qualit	y or Concer			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
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A Form 3320-1 (Rev 3/99) Previous editions may be used.

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Mr. Michael Holland Area Group Manager	submitte or those submitte	d. Based on my inquiry of persons directly responsible d is, to the best of my know	the person or persons who i for gathering the informat viedge and belief, true, accu	manage the system ion, the information rate, and comple	ion te.			631-	-344-34	424		
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MITTEE NAME/ADDRESS (Include Feedling Na AE USDOE DRESSBROOKHAVEN NATIO 53 BELL AVE, BLO UPTON CILITY BROOKHAVEN NATIO CATIONUPTON TN: GEORGE NALOSH,	RATORY ( 11973 Ratory ( 11973	PERMI		ARGE NUMBER F NS MO DAY 12 31 **	HAJOR (SUBR 01) F - FINAL NSLS COOLG TOUR BLOUDN ETC(HS) *** NO DISCHARGE 1 *** NOTE: Read instructions before completing this form.						
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EE PERHIT FOR ADDITIONAL NOTES, COMMENTS AND REQUIREMENTS

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

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