

#### PONTIFICAL CATHOLIC UNIVERSITY OF PUERTO RICO 2250 AVE. LAS AMÉRICAS SUITE 570 PONCE, PUERTO RICO 00717-9997

BIOLOGY DEPARTMENT

J-6 MS-16

TEL. (787) 841-2000 EXT. 1550 FAX (787) 840-4295

2006 NOV 20 PM 12:

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November 16, 2006

Ms. Betsy Ullrich Senior Health Physicist Commercial and R&D Branco Division of Nuclear Materials Safety Nuclear Regulatory Commission Washington, DC 20555

Dear Ms. Ullrich:

# 030 19921

On reference to your communication Mail Control No. 139009, we still want to terminate the Nuclear Regulatory Commission License No. 52-13508-03. When we received your letter of July 10, 2006 Dr. Infante and I were on summer vacations until August 2 and classes started on August 14. There are also a lot of documents to check. That is the reason why we could not answer your letter until now.

- 1. After examination of NUREG-1757, Volume 1, Revision 1 we, at Pontifical Catholic University of Puerto Rico, submit you the following information:
  - a. The radioactive material (<sup>14</sup>C, <sup>3</sup>H and <sup>32</sup>P) was properly disposed in March 2004 by Ecology Services, Inc. All the documents about the disposal of the radioisotopes waste are included in this communication. Please, see the attachments for the confirmation of the disposition of the material.
  - b. The NRC Form 314 was submitted on June 16, 2006, but we are submitting it again with this letter. (See attachments.)
  - c. The smears we submitted on June 16 are the ones we are including in this letter, done for tritium, carbon 14 and phosphorous 32. We are doing new smears for both rooms Fe-119 and Fe-120. The results would be sent to you as soon as we have them.

There was never a room Fe-117 used for radioactive lab purposes. The room numbers in Ferré building were changed in the 1980's, but the only rooms that we had used were Fe-119 (a radiochemistry lab) and Fe-120

Copies of the original diagrams of the location of the rooms are included in this communication. (See attachments.)

The only radioisotopes used in rooms Fe-119 and room Fe-120 were  $C^{14}$ ,  $H^3$  and  $P^{32}$  even though Fe-120 was licensed for atomic number 2 through 83.

TERIALS-CO2



Both rooms were modified in their inner structure:

- a) Fe-119 is now a professor's office. It was modified on 1986.
- b) Fe-120 benches, fume hood and other equipment were removed because of termites' destruction of benches and documents.
   Radiological wastes were stored in this room until disposed in 2004.
- d. The radionuclides lab material was treated for disposal as usual for that time (before 1986). The radioisotope solutions were diluted and discarded to the sanitary sewerage system after some time stored. The bottles were then washed with soap and water and then reused or discarded. All of them had less than 0.005uCi/ml.

We have no records of spills or any contamination for any of those two rooms (Fe-119, Fe-120).

- 2. Environmental assessment of our facilities states that:
  - a. The Pontifical University of Puerto Rico has two rooms in the Ferré Science Building, Fe-119 and Fe-120 that were used as lab facilities for radiological research.
  - b. Ferré is a two store building with two wings, an L- shaped in the southeast part of the Pontifical Catholic University of Puerto Rico. Both rooms, Fe-119 and Fe-120, are 14.6' x 12.4'. (See the PCUPR map included and diagrams of the rooms.)
  - c. The Ferré building is used for teaching and all the Sciences Departments, Dean's and Professors' offices are located here.
  - d. The surrounding area is a mixed residential/commercial.
  - e. The license authorized the use of radioisotopes for research and development as defined in section 30.4(q), 10 CFR Part 30 (1988).
  - f. The licensed activities ceased in 1989. Since that time the wastes were stored properly in Fe-120 until we found a company that accepts to dispose of the wastes. In March, 2004, Ecology Services, Inc. disposed of the waste as confirmed in the documents attached.

Submitted by

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Carmen I. Asencio Radiation Safety Officer

	ADDROVED BY ONE: NO 3150-00			
NRC FORM 314 U.S. NUCLEAR REGULATORY COMMISSION (6/2004) 10 CFR 30.36()(1); 40.42()(1); 70.38())(1); and 72.54()(1)	Estimated burden per response to comply w This submittal is used by NRC as part of the b for unrestricted use. Send comments reparcin Services Branch (T-5 F52), U.S. Nuclear Reg	th this mandatory collection request: 30 minute asis for its determination that the facility is releas g burden estimate to the Records and FOIA/Priva ulatory Commission, Washington, DC 20555-00		
CERTIFICATE OF DISPOSITION OF MATERIALS	or by internet e-mail to Infocoflects @nrc.gov, and to the Desk Officer, Office of Information Regulatory Atfairs, NEOB-10202, (3150-0028), Office of Management and Budgel, Washing DC 20503, II a means used to impose an Information collection does not display a currently v OMB control number, the NRC may not conduct or sponsor, and a person is not require respond to the information collection.			
LICENSEE NAME AND ADDRESS	LICENSE NUMBER	DOCKET NUMBER		
Catholic University of Fuerto Kico College of Sciences	LICENSE EXPIRATION DATE	0301121		
2250 Ave. Las Americas Ponce, PR 00717	August 31,2006	·		
A. LICENSE STATUS (Check the This license has expired. This license has not yet expired; pleas	e <b>appropriate box)</b> e terminate it.			
B. DISPOSAL OF RADIOACT	IVE MATERIAL			
(Check the appropriate boxes and complete as necessary. If additional space is ne The licensee, or any individual executing this certificate on behalf of the licens	eeed, provide attachments) ee, certifies that:			
1. No radioactive materials have ever been procured or possessed by	the licensee under this license	Э.		
2. All activities authorized by this license have ceased, and all radioac under this license number cited above have been disposed of in the	tive materials procured and/or following manner.	possessed by the licensee		
a. Transfer of radioactive materials to the licensee listed below:				
Vb. Disposal of radioactive materials:				
1. Directly by the licensee:				
2. By licensed disposal site:				
A By waste contractor				
Ecology Services, Inc. Columbia, Maryland				
C. All radioactive materials have been removed such that any remain Part 20, Subpart E, and is ALARA.	ining residual radioactivity is w	ithin the limits of 10 CFR		
C. SURVEYS PERFORMED A	ND REPORTED			
1. A radiation survey was conducted by the licensee. The survey continue a the absence of licensed radioactive materials.	ms:			
$\sqrt{1}$ b. that any remaining residual radioactivity is within the limits of 10	CFR 20. Subpart E. and is AL	ARA.		
$\boxed{2}$ 2. A copy of the radiation survey results:	,,,,,,,			
A. is attached; or b. is not attached (Provide explanation);	c. was forwarded to NRC or	l:		
3. A radiation survey is not required as only sealed sources were ever p	ossessed under this license, a	Date		
a. The results of the latest leak test are attached; and/or	b. No leaking sources have	ever been identified.		
The person to be contacted regarding the information provided on this form:				
Carmen 1. Asencio Radiation Safety Of	Ficer (787)-841-	2000 (_asercio emai		
Vail all future correspondence reparding this license to: Carmen 1. Asci 1010 Pontifical Catholic University	2250 Ave. Los América Ponce, PR 00717-0	s sude 654 [racpr. eou		
C. CERTIFYING OFFI	CIAL FOREGOING IS TRUE AND COR	RECT		
I CERTIFY UNDER PENALTY OF PERJURY THAT THE				
I CERTIFY UNDER PENALTY OF PERJURY THAT THE PRINTED NAME AND TITLE SIGNATURE	Tuir	DATE 11/16/06		

NRC FORM 314 (6-2004)

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Phone: 608 - 877 - 0636 Fax: 608 - 877 - 0656

May 11, 2006

Prof. Carmen I. Asencio Pontifical Catholic University of Puerto Rico 2250 Las Americas, Suite 654 Ponce, Puerto Rico 00717-9997

This letter is to report the wipe test results taken from one or more of your gamma-emitting radioactive sealed sources and on the wipes from the waste room floor taken on April 26, 2006. The sample analysis was performed on May 2, 2006 in a high efficiency sodium iodide well counter. Results were evaluated by comparison with standard sources whose activity is directly traceable to NIST standards. The sample indicated removable activity of less than 0.005 microCurie. All tests were performed under authorization of USNRC license 48-26319-01 issued to Wisconsin Radiological Laboratories (WRL). Tabular summaries of the test results are attached for your permanent records.

The waste room wipe analysis for the  $C^{14}$  and  $H^3$  radionuclides was performed on May 11, 2006 in the above instrument and levels were found to be less than the detectable amount.

If you have any questions or require further assistance, please do not hesitate to ... call upon me at (608)877-0636.

Sincerely,

Laurence J. Wer found

Lawrence J. McDonnell, Director, Laboratory Operations

#### Catholic University of Puerto Rico

#### Prof. Carmen I. Asencio

## Leak Test Results May 2, 2006

#### ORDER NO: C05104

TEST	SOURCE	MANF ISOTOPE	DATE	ACTIVITY	ACTIVITY	ERROR	MDA
NO.	SERIAL #		WIPED	(DPM)	(uCi)	(uĊi)	(uCi)
05507	1035	JL Shepherd Cs-137	4/26/06	0.00	<mda< td=""><td>2.85x10<sup>-6</sup></td><td>3.5203×10<sup>-5</sup> Irrad. Plate</td></mda<>	2.85x10 <sup>-6</sup>	3.5203×10 <sup>-5</sup> Irrad. Plate
05508	1035	JL Shepherd Cs-137	4/26/06	0.00	<mda< td=""><td>2.86x10<sup>-6</sup></td><td>3.5203x10<sup>-5</sup> Source Mech.</td></mda<>	2.86x10 <sup>-6</sup>	3.5203x10 <sup>-5</sup> Source Mech.
05510	FE120	Wipe (Floor) Cs-137	4/26/06	0.00	<mda< td=""><td>2.86x10<sup>-8</sup></td><td>3.5203×10<sup>-5</sup></td></mda<>	2.86x10 <sup>-8</sup>	3.5203×10 <sup>-5</sup>
05511	FE120	Wipe (Floor) Cs-137	4/26/06	0.00	<mda< td=""><td>2.84x10⁵</td><td>3.5203×10<sup>-5</sup></td></mda<>	2.84x10⁵	3.5203×10 <sup>-5</sup>
05512	FE120	Wipe (Floor) Cs-137	4/26/06	10.17	<mda< td=""><td>2.88x10<sup>-6</sup></td><td>3.5203x10<sup>-5</sup></td></mda<>	2.88x10 <sup>-6</sup>	3.5203x10 <sup>-5</sup>

Comments: Results are reported as Net CPM (net counts per minute), Activity in disintigrations per minute (DPM) and in units of microcuries (uCi). The reported error is the two sigma statistical counting uncertainty, and the MDA is the minimum detectable amount of radioactivity that can be detected by the counting instrument and is reported in units of microcuries (uCi). All results below the MDA are reported as equal to the MDA.

Wisconsin Radiological Laboratories, Inc.

USNRC Liceuse # 48-26319-01



Phone: 608 - 877 - 0636 Fax: 608 - 877 - 0656

October 17, 2006

Prof. Carmen I. Asencio Pontifical Catholic University of Puerto Rico 2250 Las Americas, Suite 654 Ponce, Puerto Rico 00717-9997

This letter is to report the wipe test results taken from rooms FE-119 and FE-120 taken on October 4, 2006. The sample analysis was performed on October 10, 2006 in a high efficiency liquid scintillation counter. Results were evaluated by comparison with standard sources whose activity is directly traceable to NIST standards. The samples indicated removable activity of less than 0.005 microCurie. All tests were performed under authorization of USNRC license 48-26319-01 issued to Wisconsin Radiological Laboratories (WRL). Tabular summaries of the test results are attached for your permanent records.

If you have any questions or require further assistance, please do not hesitate to call upon me at (608) 877-0636.

Sincerely,

Laurence & Wealbunell

Lawrence J. McDonnell, Director, Laboratory Operations

### Catholic University of Puerto Rico

## Prof. Carmen I. Asencio

## Leak Test Results October 4, 2006

Order No. C0 5246

 TEST NO.	LOCATION	ISOTOPE	DATE WIPED	ACTIVITY DPM	ACTIVITY uCi	REG LIMIT uCi	MDA -uCi
5571	Fe120 door	H-3	10/4/06	10	4 x 10-6	0,005	0.00904
5572	Fe120 sink	H-3	10/4/06	11	5 x 10-6	0.005	0.00004
5573	Fe120 Floor	H-3	10/4/06	6	3 x 10-6	0.005	0,00004
5574	Fel19 floor	H-3	10/4/06	9	4 x 10-6	0,005	0,00004
5575	Fe119 fl.center	- H-3	10/4/06	8	4 x 10-6	0.005	0.00004
5576	Fe119 rm. wal	l H-3	10/4/06	8	4 x 10-6	0.005	0.00004

: Results are reported as Activity in disIntigrations

per minute (DPM) (net counts per minute times efficiency), and in units of microcuries (uCi).

the MDA is the minimum detectable amount of radioactivity that can be

detected by the counting instrument and is reported in units of microcuries (uCi). All results were well below the regulatory limit of 0.005 uCi for removable contamination.

Wisconsin Radiological Labs. Inc.

State of Wisconsin Agreement State License # 025-1356-01

: 608

FAX ND.

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FROM : WISC RADIOLOGICAL LAB

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## CHAIN OF CUSTODY

10220 Old Columbia Road Columbia, Maryland 21046 410-381-2600 800-932-7299 Fax 410-381-2602

#### SAMPLE GENERATOR INFORMATION

NAME	Pontifica Univers	idad Católica	
LOCATION (CITY/ST):	PONCE, PR		
SAMPLE TYPE:	SOLID		
AMOUNT COLLECTED:	4 (165)	TIME COLLECTED:	2:30
COLLECTOR'S NAME:	REG HAJETT	DATE COLLECTED:	4-1304

#### FIELD INFORMATION - SPECIAL INSTRUCTIONS

ļ	Packaged and shipped by ESI
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#### CHAIN OF POSSESSION

ORIGIN	PUCPE	ACCEPTED BY	
. NAME:	Hilda Santiago	NAME:	
SIGNATURE:	Juda Lautiano	SIGNATURE:	
DATE:	4/13/04	DATE:	
ORGANIZATION:	PUCPZ	ORGANIZATION:	· · · · · · · · · · · · · · · · · · ·

ACCEPTED BY	ACCEPTED BY	· · · · · · · · · · · · · · · · · · ·
NAME:	NAME:	
SIGNATURE:	SIGNATURE:	
DATE:	DATE:	
ORGANIZATION:	ORGANIZATION:	

## LAB INFORMATION

SAMPLE SHIPPED VIA:	FEDEX	ESI		MAIL		OTHER	
SAMPLE RECEIVED BY:			SI	GNATU	IRE:		· · ·
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## BILLING INFORMATION

ESI Quote #:	04-080-BK		- <u></u> .
Billing Customer:	Clean Harbors Environmental	PO#:	[
	Services, Inc.		
Billing Contact:	Edgar Medina	Phone #:	787-846-0300 x 3



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## CHAIN OF CUSTODY

10220 Old Columbia Road Columbia, Maryland 21046 410-381-2600 800-932-7299 Fax 410-381-2602

#### SAMPLE GENERATOR INFORMATION

NAME:	Pontifica Universidad Católica				
LOCATION (CITY/ST):					
SAMPLE TYPE:					
AMOUNT COLLECTED:	TIME COLLECTED:				
COLLECTOR'S NAME:	DATE COLLECTED:				

#### FIELD INFORMATION - SPECIAL INSTRUCTIONS

Packaged and shipped by ESI	

#### CHAIN OF POSSESSION

ORIGIN	ACCEPTED BY	
NAME:	NAME:	
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DATE:	DATE:	
ORGANIZATION:	ORGANIZATION:	

ACCEPTED BY	ACCEPTED BY	T
NAME:	NAME:	
SIGNATURE:	SIGNATURE:	
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#### LAB INFORMATION

SAMPLE SHIPPED VIA:	FEDEX	ESI	MAIL	OTHER	d A
SAMPLE RECEIVED BY:	steven	leller	SIGNATURE:	St	A.Kell
DATE:			TIME:		12000

## BILLING INFORMATION

ESI Quote #:	04-080-BK		
Billing Customer:	Clean Harbors Environmental	PO#:	
{	Services, Inc.		
Billing Contact:	Edgar Medina	Phone #:	787-846-0300 x 3



ECOLOGY SERVICES, INC.

10220 Old Columbia Road Columbia, Maryland 21046 (410) 381-2600 1-800-932-7299 Fax (410) 381-2602

June 16, 2004

Mr. Edgar Medina Clean Harbors Environmental Services, Inc. Rural Road 666, Km. 0.05 Bo. Magueyes Barceloneta, P.R. 00617

RE: Sample Analysis Results for: Pontifica Universidad Catolica(04-080-BK)

Dear Mr. Medina:

I have enclosed the results of samples analyzed for your client. Please forward a copy of the attached results to them for their records. Any waste incident to the analysis of samples will be properly disposed as Ecology Services, Inc. laboratory waste in accordance with all applicable State and Federal regulations.

If you have any questions or concerns, please contact your account manager.

Thank you for your continued use of Ecology Services, Inc. for your health physics service needs.

Sincerely,

Elise Ruzewski Administrative Assistant

R E C E I V E D Ofic. Segurcs, Seguridad y Salud Ocupacional

AUG 2 4 2004

PONTIFICIA UNIVERSIDAD CATOLICA DE.P. R.

## Caraballo Orengo Ada

<pre> rom: </pre>	Medina, Edgar A [medinaed@cleanharbors.com]	
Jent:	Tuesday, April 13, 2004 10:16 PM	
To:	Brenda J. Klug (E-mail)	
Cc:	Greg Howett (E-mail); Santiago Santiago Hilda; Caraballo Orengo Ada	
Subject:	Pontificia Unversidad Catolica Rad Sample	

Importance:

High

Hi Brenda:

Rad sample from Pontificia Universidad Catolica was packaged today in 1 x 05 gallon pail. It was sent via Fed Ex to your attention under Air Waybill # 8398 1740 5664 Please acknowledge receipt.

Thanks

Edgar Medina (787) 475-9571

Caraballo Orengo Ada Medina, Edgar A [medinaed@cleanharbors.com] ⊂rom: Monday, April 19, 2004 9:54 PM Jent: Santiago Santiago Hilda To: Caraballo Orengo Ada; Bordoni, Michel A Cc: FW: Online FedEx Tracking - 839817405664 Subject: Hi Hilda Hope everything is well at Ponce ! Please review " sample received" confirmation from Ecology Services. Regards Edgar Medina (7870 475-9571 . ----Original Message-----From: bklug@ecologyservices.com [mailto:bklug@ecologyservices.com] Sent: Friday, April 16, 2004 1:59 PM Subject: Online FedEx Tracking - 839817405664 confirmation of receipt of Pontificia Universidad Catolica Tracking Number : 839817405664 Reference Number : Ship Date Delivered To : 04/13/2004 Delivered To : Recept/Frnt desk Delivery Location : COLUMBIA MA Delivery Date/Time : 04/14/2004 09:44 Signed For By : E.EUIEGITS ervice Type : International Priority Service Scan Activity Date/Time Scan Exceptions ------------------Delivered COLUMBIA MA 04/14/2004 09:44 On FedEx vehicle for delivery BELTSVILLE MD 04/14/2004 08:13 Actived at FedEx Destination Location BELTSVILLE MD 04/14/2004 08:13 Argoved at MedEx Ramp BALTIMORE MD 04/14/2004 07:03 four Breez Sort Pacifity MEMPHIS IN 04/14/2004 04:07 Arrived at Sort Facility MEMPHIS IN 04/14/2004 00:44 . • Seft Pedly Ramp CAROLINA PR 04/33/2004 22:49 Soft Federa Origin Location CDAYNARO PR. 04/18/2004 20:27 Proked up by Fedex GUAYNABO PR 04/13/2001 16:57 Disclosurer a sense a se conserva e FedDy cas not validated the authenticity of any evail address.

Pontifica Universidad Cato'lica

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	LS C	ounter Data	Reduction	Program - E	SI		
Instrument Data:	Beckman LS-2800					Report Date: Sample Date:	29-Apr-04 14-Apr-04
Windo	w: 0 ULL: 400 (Tritium)					Analysis By:	SAK
Background Data:	,	Bkg	Count Time	% Error			
<u>o</u>		CPM	(min)	(95% C.L.)			
		10.00	1.00	61.98%			
MDA Data:							
	MDA (CPM	18		MDA (DPM):	25		
Sample Data:	Note: A zero reading	for DPM valu	es indicates on	ly that the sampl	e activity was	less than the M	DA.
Seq		Count	Average				Error
No.	Sample ID	Time (min)	H Number	CPM	Efficiency	DPM	(95% C.L.)
1	Wipe #1	1.00	128.0	17.00	31.3%	0	0.00%
2	2	1.00	127.0	16.00	31.6%	0	0.00%
3	3	1.00	125.0	12.00	32.1%	0	0.00%
4	4	1.00	125.0	16.00	32.1%	0	0.00%
5	5	1.00	123.0	11.00	32.6%	0	0.00%
6	6	1.00	126.0	14.00	31.8%	0	0.00%
7	7	1.00	119.0	8.00	33.5%	0	0.00%
8	8	1.00	122.0	10.00	32.8%	0	0.00%
9	9	1.00	122.0	11.00	32.8%	0	0.00%
10	10	1.00	129.0	8.00	31.1%	0	0.00%
11	11	1.00	119.0	14.00	33.5%	0	0.00%
12	12	1.00	122.0	.8.00	32.8%	0	0.00%
13	13	1.00	127.0	14.00	31.6%	0	0.00%
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15	15	1.00	124.0	15.00	32.3%	0	0.00%
16	16	1.00	126.0	13.00	31.8%	0	0.00%
17	17	1.00	123.0	15.00	32.6%	0	0.00%
. 18	18	1.00	122.0	11.00	32.8%	. 0	0.00%
19	19	1.00	124.0	12.00	32.3%	0	0.00%
20	20	1.00	124.0	12.00	32.3%	0	0.00%
21	· 21	1.00	128.0	12.00	31.3%	0	0.00%
22	22	1.00	132.0	13.00	30.3%	0	0.00%
23	23	1.00	128.0	4.00	31.3%	0	0.00%
24	24	1.00	119.0	9.00	33.5%	0	0.00%
25	25	1.00	124.0	11.00	32.3%	0	0.00%
26	26	1.00	120.0	6.00	33.3%	0	0.00%
27	27	1.00	126.0	3.00	31.8%	0	0.00%
28	28	1.00	124.0	16.00	32.3%	0	0.00%
29	29	1.00	125.0	8.00	32.1%	0	0.00%
30	Wipe #30	1.00	127.0	11.00	31.6%	0	0.00%

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L	S	Counter	Data	Reduction	Program -	ESI
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Beckman LS-2800 Instrument Data:

Report Date: 29-Apr-04 Sample Date: 14-Apr-04 Analysis By: SAK

Error

Window: 401 UL: 670 (Carbon-14) Background Data: L MDA Data:

MDA (CPM):

Bkg	Count Time	% Error
CPM	(min)	(95% C.L.)
11.00	1.00	59.10%
18		MDA (DPM):

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Sample Data:	Note: A zero reading for	DPM values indica	tes only that the	sample activ	ity was less than	the MDA.	
Seq		Count	Average				
<u>-</u>	Semale ID	Time (min)	H Number	CPM	Efficiency	DPM	(S

- {	304		000000					
.	No.	Sample ID	Time (min)	H Number	CPM	Efficiency	DPM	(95% C.L.)
-	1	Wipe #1	1.00	128.0	23.00	71.8%	0	0.00%
	2	2	1.00	127.0	38968.00	71.9%	-54179	11.22%
	3	3	1.00	125.0	56.00	72.0%	62	30.75%
	4	4	1.00	125.0	17.00	72.0%	0	0.00%
	5	5	1.00	123.0	33.00	72.2%	30	40.95%
	6	б	1.00	126.0	37988.00	72.0%	52764	11.23%
	7	7	1.00	119.0	9.00	72.5%	0	0.00%
	8	8	1.00	122.0	12.00	72.3%	0	0.00%
	9	9	1.00	122.0	34333.00	72.3%	47502	11.23%
	10	10	1.00	129.0	55.00	71.8%	61	31.04%
	11	11	1.00	119.0	78.00	72.5%	492 102	26.21%
	12	12	1.00	122.0	23465.00	72.3%	32461 44	11.25%
	13	13	1.00	127.0	48.00	71.9%	51.5I	33.30%
	14	14	1.00	130.0	35454.00	71.7%	49439	11.23%
	15	15	1.00	124.0	14.00	72.1%	0	0.00%
	16	16	1.00	126.0	23433.00	72.0%	32542	11.25%
	17	17	1.00	123.0	11.00	72.2%	0	0.00%
	18	18	1.00	122.0	41.00	72.3%	42 1	36.24%
	19	19	1.00	124.0	13.00	72.1%	0	0.00%
	20	20	1.00	124.0	12320.00	72.1%	17069	11.32%
	21	21	1.00	128.0	8.00	71.8%	0	0.00%
	22	22	1.00	132.0	13.00	71.5%	0	0.00%
	23	23	1.00	128.0	37611.00	71.8%	\$\$2343	11.23%
	24	24	1.00	119.0	54.00	72.5%	559131-1	31.33%
	25	25	1.00	124.0	7.00	72.1%		0.00%
	26	26	1.00	120.0	34322.00	72.4%	1947397,51	11.23%
	27	27	1.00	126.0	29.00	72.0%	0	0.00%
	28	28	1.00	124.0	15.00	72.1%	0	0.00%
	29	29	1.00	125.0	77.00	72.0%	92	26.37%
	30	Wipe #30	1.00	127.0	8.00	71.9%	0	0.00%

LS Counter Data Reduction Program - ESI Report Date: 29-Apr-04 Instrument Data: Beckman LS-2800 Sample Date: 14-Apr-04 Analysis By: SAK Window: 671 UL: 1000 (Phosphorus-32) Background Data: Bkg Count Time % Error CPM (min) (95% C.L.) 61.98% 10.00 1.00 MDA Data: MDA (CPM): 18 MDA (DPM): 22 Note: A zero reading for DPM values indicates only that the sample activity was less than the MDA. Sample Data: Seq Count Average Error CPM DPM No. Sample IDTime (min) H Number Efficiency (95% C.L.) 1 Wipe #1 1.00 128.0 11.00 81.7% 0 0.00% 2 2 1.00 127.0 17.00 81.7% 0 0.00% 3 125.0 0 0.00% 3 1.00 16.00 81.6% 4 125.0 10.00 81.6% 0 0.00% 4 1.00 5 123.0 10.00 81.6% 0 5 1.00 0.00% 81.7% 0 6 6 1.00 126.0 12.00 0.00% 20.00 7 7 1.00 119.0 81.6% 0 0.00% 8 8 1.00 122.0 9.00 81.6% 0 0.00% 9 9 1.00 122.0 13.00 81.6% 0 0.00% 10 10 1.00 129.0 9.00 81.7% 0 0.00% 11 11 1.00 119.0 14.00 81.6% 0 0.00% 12 12 1.00 122.0 15.00 81.6% 0 0.00% 13 13 1.00 127.0 14.00 81.7% 0 0.00% 0 14 14 1.00 130.0 13.00 81.7% 0.00% 15 15 0 1.00 124.0 8.00 81.6% 0.00% 16 16 126.0 7.00 81.7% 0 1.00 0.00% 0 17 17 1.00 123.0 10.00 81.6% 0.00% 18 18 1.00 122.0 11.00 81.6% 0 0.00% 19 19 1.00 124.0 13.00 81.6% 0 0.00%

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	The inspection was	an examination of	the activities co	nducted under y	your license	e as they relate i	to radiation	safety and to	.complianc	e with the
•••	Nuclear Regulatory of procedures and r	Commission (NRC epresentative reco	<li>rules and regi rds, interviews y</li>	viations and the with personnel, a	conditions and observa	of your license. ations by the ins	The inspe- pector. Th	ction consiste e inspection f	d of selecti indings are	ve examinat as follows:
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Facilities and Equipment 9. Description of Facilities in Room Fe. 119 10.0 Air conditioner ÷1. Water and wash basset 2. 3. Cabinet Air flow extractor 4. 5. Desk and Microcomputer High performance chromatograph liquid 6. 7. Radiochromatography Scanner 8. Nuclear Magnetic Resonance Spectrometer 9. Cabinet 10. Table 11. Radiation counter-Nuclear Chicago 12. Radioactive waste trash container 13. Lead brick container for radioactive material (2.5 inches thick) 14. Radition Decontamination Kit No. 121-180 15. Paper chromatography chambers Additional Equipment Geiger Muller Model 34 Counter from Nuclear Chicago A. . . Scintillation Model 412 Counter from Nuclear Chicago Cutie Pie 740F from Victoreem Mini Monitor-35 from Victoreem

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