



**Purdue Pharma L.P.**

6 Cedarbrook Drive  
Cranbury, New Jersey 08512  
609-409-5123  
Fax# 609-409-5799

June 30, 2005

Attention: Betsy Ullrich  
Division of Nuclear Materials Safety  
U.S. Nuclear Regulatory Commission, Region I  
475 Allendale Road  
King of Prussia, PA 19406-1415

MS 16  
Q-5

2005 JUN -5 PM 2:05  
RECEIVED  
REGION I

RE: NRC License # 29-30698-01  
Mail Control # 136944  
Docket #: 03005882

Dear Ms. Ullrich:

On 12-21-04 Purdue requested Amendment No. 5 to License #29-30698-01. The amendment was approved and an updated license was issued on 1-14-05 in accordance with letters dated 12-21-04 and 1-11-05.

In approving Amendment No. 5, the NRC requested a Decommission Survey for the major "Authorized Use Areas" deleted from the license. The Decommission Survey was completed and the report submitted on 4-21-05. The NRC issued correspondence dated 6-10-05 in response to the 4-21-05 Decommission Report.

This letter and enclosures provide the additional information requested in the NRC correspondence dated 6-10-05 under Mail Control #136944.

- 1a. In Purdue's license application dated November 19, 2001, Biology Labs and Vivarium space were outlined to illustrate potential locations for handling or storing licensed material. Licensed material was not handled in the entire outlined area, only Authorized Use Areas. The use of radioactive material in any area of the building requires prior notification to the RSO. Safety inspections and Radiation Safety Committee Meetings routinely verify that licensed material is only handled in Authorized Use Areas.

The Decommission Survey Report dated 4-21-05 includes data for B-113, B-117, B-119, B-123 and the Liquid Waste Storage Area (No room number assigned).

136944

NM39/RGNI MATERIALS-002

Survey data for B-104, B-107, B-132, B-141, B-202, B-206, Colony Rm. #2 and Procedure Rm. #4 are provided with this letter as enclosures. These areas were surveyed prior to the 12-21-04 Amendment Request and recorded in the site Decommission File.

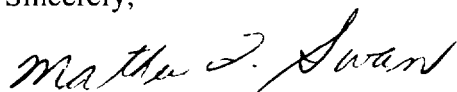
In addition, survey data is provided for B-112. Only the Irradiator, which is posted "In Storage", is located in B-112. No unsealed licensed material is handled or stored in B-112.

Decommission survey data has now been provided for all decommissioned locations where licensed material was previously handled or stored.

2. Carbon-14 was used in a one-time experiment on the center bench in B-117. Carbon-14 was inadvertently omitted from Table 1 in the Decommission Survey Report dated 4-21-05. The surveys conducted are adequate for Carbon-14 clearance because: a) the MicroBeta Liquid Scintillation Counter used to analyze wipe samples was adjusted with the windows wide open which is the proper setting to detect Carbon-14, and b) the Carbon-14 release criteria value used in the survey was 5,000 dpm/100 cm<sup>2</sup> which is well below the 158,000 dpm/100 cm<sup>2</sup> value cited in NUREG-1500. Therefore, the survey conducted in B-117 was of sufficient scope and sensitivity to detect Carbon-14 contamination.
3. The total square footage occupied in this facility was 110,000 ft<sup>2</sup>. The total area where licensed material was used or stored was 2,327 ft<sup>2</sup>.

Thank you in advance for your time and effort in this matter. Please do not hesitate to contact me at 609-409-5826 if you have any questions or need additional information.

Sincerely,



Mathew L. Swan, CIH, CSP  
Director, Environment, Health & Safety

Enclosures

# Memorandum

**To:** Decommission File

**From:** Mathew Swan *ms*

**Date:** 8/28/2002

**Re:** Room Decommissioning  
(B-141)

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Radioactive material was used at the Purdue Cranbury facility starting in April of 2002. At that time, the Storage Room adjacent to the Biology Loading Dock was designated as the Solid Radioactive Waste and Regulated Medical Waste Storage Room. In late August of 2002, this room was re-designated as an Isolation Room for the new Transgenic Vivarium. The room was officially decommissioned. and cleared for general use activities.

The Storage Room was officially cleared for general use based on handheld meter and wipe sampling results. Attached are a Survey Form, Sampling Map and a LSC printout. This memo and attached sampling results officially documents the decommissioning of the Solid Radioactive Waste and Regulated Medical Waste Storage Room adjacent to the Biology Loading Dock.

Solid Radioactive Waste will be stored in Room#B112 (Irradiator Room) until a long-term storage location can be secured.



# RADIATION SAFETY MANUAL

SECTION 6 / VERSION 3.0  
(APRIL 2002)

LOCATION:  
Cranbury NJ

## APPENDIX E: AREA SURVEY FORM

Page 1 of 2

Lab Name:	Radioactive Waste Storage	Sample Blank:	#5 11-24 on printout
Lab Number:	B-141	% Efficiency:	
Survey Date:	8/22/02	Instrument:	Wallac MicroBeta

SAMPLE LOCATION / DESCRIPTION (location map on pg. 2)	CPM	DPM
1 See Map		↑
2	See printout	
3		
4		
5		
6		↓
COMMENTS		
Room was decommissioned to allow		
for renovations.		

Performed By: Scott Penneylen 8/22/02

Reviewed By: [Signature] 8/27/02



# RADIATION SAFETY MANUAL

SECTION 6 / VERSION 3.0  
(APRIL 2002)

LOCATION:  
Cranbury NJ

## APPENDIX E: AREA SURVEY FORM

Page 2 of 2

Lab Name:	Dry Radioactive Waste	Lab Number:	
Survey Date:	8/22/02		

### SAMPLE LOCATION MAP

DRAFT FOR REVIEW

Page 10

Date Printed: 4/9/2002

DRAFT FOR REVIEW

c:\data\cranbury lab surveys\A13\_016.txt

## RUN INFORMATION:

=====

Counting protocol no: 13

Thu 22-Aug-2002 12:23

Name: LAB\_SURVEYS\_H-3\_S-35\_I-125

DPM standardization protocol no: -

## COLUMNS:

=====

SAMPLE	POS	CPM1	DPM1	CPM2	DPM2	CPM3	FLAG
Unk_1	A01	4	0	7	0	13	.
Unk_2	A02	1	0	13	0	17	.
Unk_3	A03	1	0	4	0	12	.
Unk_4	A04	6	0	25	0	76	.
Unk_5	A05	3	0	4	0	14	.
Unk_6	A06	19	0	15	0	12	.
Unk_7	B01	2	0	9	0	7	.
Unk_8	B02	3	0	13	0	15	.
Unk_9	B03	0	0	10	0	13	.
Unk_10	B04	2	0	12	0	19	.
Unk_11	B05	1	0	6	0	6	.
Unk_12	B06	4	0	9	0	7	.
Unk_13	C01	3	0	7	0	3	.
Unk_14	C02	5	0	19	0	6	.
Unk_15	C03	2	0	8	0	8	.
Unk_16	C04	2	0	13	0	10	.
Unk_17	C05	0	0	12	0	15	.
Unk_18	C06	0	0	12	0	9	.
Unk_19	D01	2	0	14	0	14	.
Unk_20	D02	1	0	11	0	12	.
Unk_21	D03	40	0	28	0	9	.
Unk_22	D04	1	0	8	0	14	.
Unk_23	D05	2	0	12	0	13	.
Unk_24	D06	2	0	6	0	9	.

Dry waste Run

See map

Bkgd  
wipes

Total count rate 1: 106.2 CCPM

2: 277.4 CCPM

01216

# Memorandum

**To:** Decommission File

**From:** Mathew Swan 

**Date:** 11/21/2002

**Re:** Room Decommissioning  
(B-132)

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Radioactive material was used at the Purdue Cranbury facility starting in April of 2002. At that time, a Liquid Radioactive Waste Room was established adjacent to the glass washing room. In early November of 2002, this room was identified as necessary for support of building renovations. The room was officially decommissioned and cleared for general use activities.

The Liquid Radioactive Waste Room was officially cleared based on handheld meter and wipe sampling results. Attached are a Survey Form, Sampling Map and a LSC printout. This memo and attached sampling results officially documents the decommissioning of the Liquid Radioactive Waste Room.

Liquid Radioactive Waste will be stored in a secured area adjacent to the cold room along the north service corridor until a long-term storage location can be identified.

## APPENDIX E: AREA SURVEY FORM

Page 1 of 2

Lab Name:	Liquid waste storage	Sample Blank:	2 to 4 cpm
Lab Number:	N/A <i>B-132</i>	% Efficiency:	50
Survey Date:	11/1/02	Instrument:	Wallac MicroBeta

SAMPLE LOCATION / DESCRIPTION (location map on pg. 2)	CPM	DPM
1 Floor	2	<MDA
2 Floor	1	<MDA
3 Floor	0	<MDA
4 Sink	3	<MDA
5 Shelf	2	<MDA
6 Shelf	4	<MDA
7 Floor	0	<MDA
<b>COMMENTS</b>  Decommissioning survey, this room will no longer be used for radioactive waste storage. There were <u>no</u> liquid waste discharges via the sink in this room.		

Performed By: Scott Dennerlein, SD&A, LLC

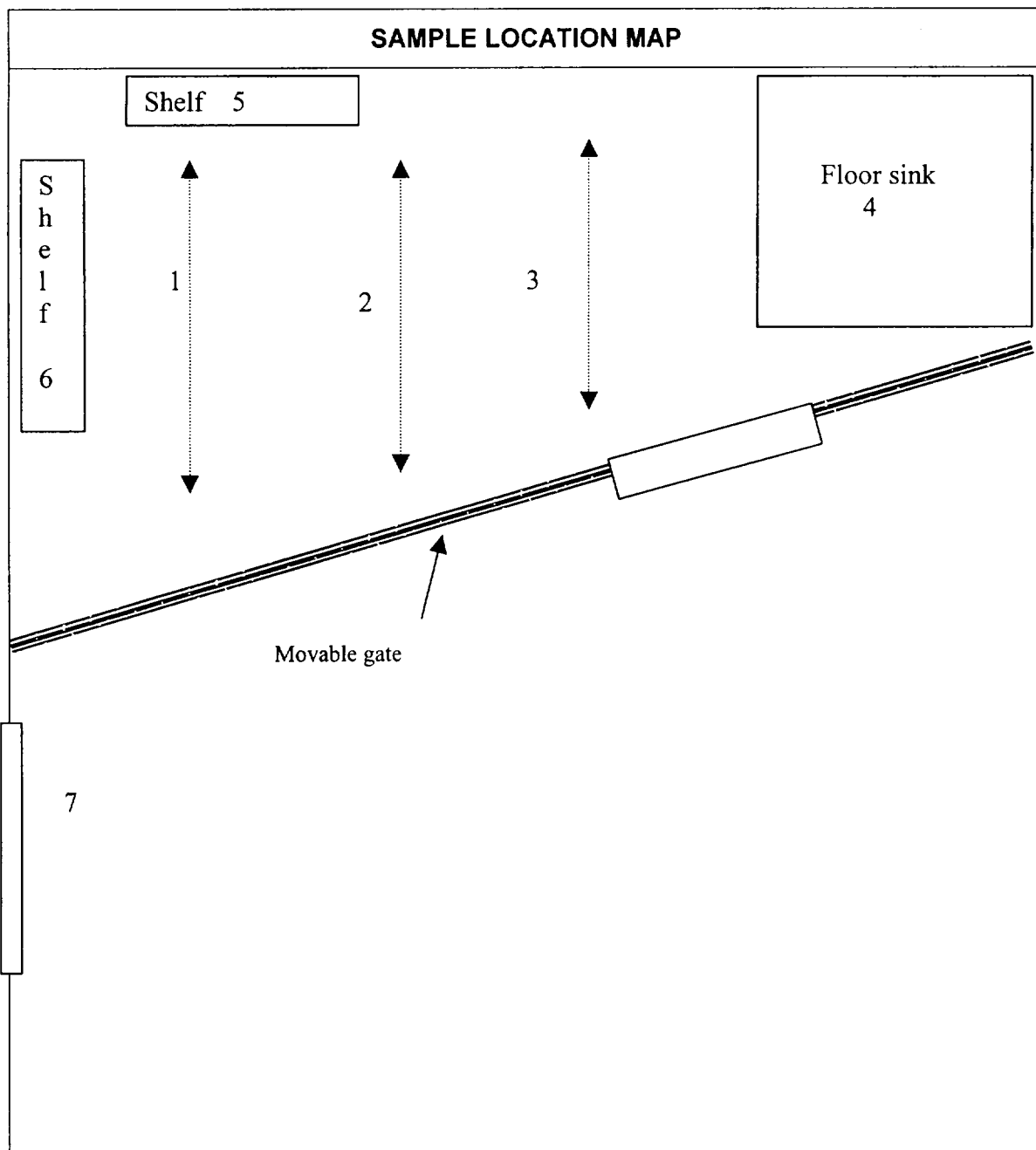
Reviewed By: *Matthew J. Swan* 11/21/02



# APPENDIX E: AREA SURVEY FORM

Page 2 of 2

Lab Name:	Liquid waste storage	Lab Number:	N/A B-132
Survey Date:	11/1/02		



c:\data\cranbury lab surveys\A13\_028.txt

## RUN INFORMATION:

=====

Counting protocol no: 13

Fri 1-Nov-2002 12:40

Name: LAB\_SURVEYS\_H-3\_S-35\_I-125

DPM standardization protocol no: -

*Liquid Waste Run Decom.*

## COLUMNS:

=====

SAMPLE	POS	CPM1	DPM1	CPM2	DPM2	CPM3	FLAG
Unk_1	A01	2	0	11	0	14	.
Unk_2	A02	1	0	6	0	17	.
Unk_3	A03	0	0	11	0	11	.
Unk_4	A04	3	0	11	0	13	.
Unk_5	A05	2	0	17	0	28	.
Unk_6	A06	4	0	6	0	18	.
Unk_7	B01	0	0	6	0	14	.
Unk_8	B02	2	0	10	0	5	.
Unk_9	B03	0	0	9	0	9	.
Unk_10	B04	4	0	17	0	13	.
Unk_11	B05	4	0	12	0	17	.
Unk_12	B06	0	0	9	0	16	.
Unk_13	C01	2	0	16	0	15	.
Unk_14	C02	0	0	10	0	14	.
Unk_15	C03	0	0	12	0	12	.
Unk_16	C04	1	0	12	0	11	.
Unk_17	C05	5	0	22	0	16	.
Unk_18	C06	2	0	5	0	10	.
Unk_19	D01	2	0	12	0	12	.
Unk_20	D02	1	0	8	0	10	.
Unk_21	D03	15	0	29	0	53	.
Unk_22	D04	0	0	15	0	13	.
Unk_23	D05	4	0	9	0	10	.
Unk_24	D06	1	0	6	0	10	.

*wipes**Background  
wipes**Empty  
wells*Total count rate 1: 55.1 CCPM  
2: 281.3 CCPM

# Memorandum

**To:** Decommission File

**From:** Mathew Swan *M. S.*

**Date:** December 2003

**Re:** Room Decommissioning – Lab B-107

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Radioactive material was used at the Purdue Cranbury facility starting in April of 2002. Radioactive material was used in B-107 starting in July 2002. By December 2003, no further use of radioactive material was scheduled for this laboratory.

Lab B-107 was officially cleared for general use based on handheld meter and wipe sampling results. Attached are a Survey Form, Sampling Map and a LSC printout. This memo and attached sampling results officially documents the decommissioning of Lab B-107.

## APPENDIX E: AREA SURVEY FORM

Page 1 of 2

Lab Name / #:	B-107	Sample Blank:	X-27
Performed By:	S. Duncanson	% Efficiency:	50%
Survey Date:		Instrument:	
Radioactive Material Containers Labeled?	Removed	Yes	No
Waste Inventory is Logged and Maintained?	N/A	Yes	No
Radiation Meters Available and Operational?	N/A	Yes	No

SAMPLE LOCATION / DESCRIPTION (location map on pg. 2)	CPM	Net CPM	DPM
1 see map	23	-4	2 MDA
2	27	0	
3	26	-1	
4	26	-1	
5	10	-17	
6	21	-6	
7	20	-7	
8	24	-3	
9	21	-6	
10	29	-2	
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
<b>COMMENTS:</b> Decommissioning Survey - All waste and rad. material removed from area prior to survey.			

- Note:**
- 1) Net CPM = CPM - Average Sample Blank
  - 2) DPM = Net CPM divided by 0.5

## APPENDIX E: AREA SURVEY FORM

Page 2 of 2

<b>Lab Name:</b>	Isolation Lab	<b>Lab Number:</b>	B-107
<b>Survey Date:</b>	12/11/03		

SAMPLE LOCATION MAP		
<div>Lab Bench</div> <div>7</div>	<div>8</div>	<div>Lab Bench</div> <div>9</div>
<div>Biological Safety Cabinet</div> <div>1</div>	<div>6</div>	<div>3</div> <div>Biological Safety Cabinet</div>
<div>Double stacked incubators</div> <div>2</div>	<div>5</div>	<div>4</div> <div>Lab Bench</div> <div>centrifuge</div>
	<div>10</div>	

c:\data\3h-swipes\A17\_004.txt

## RUN INFORMATION:

=====

Counting protocol no: 17

Thu 11-Dec-2003 13:50

Name: PACKAGE\_AREA\_SURVEYS

CPM normalization protocol no: -

\*\*\* DETECTORS NOT NORMALIZED

## COLUMNS:

=====

SAMPLE	POS	CCPM1
Unk_1	A01	23
Unk_2	A02	27
Unk_3	A03	26
Unk_4	A04	26
Unk_5	A05	10
Unk_6	A06	21
Unk_7	B01	20
Unk_8	B02	24
Unk_9	B03	21
Unk_10	B04	25
Unk_11	B05	49
Unk_12	B06	25
Unk_13	C01	25
Unk_14	C02	20
Unk_15	C03	29
Unk_16	C04	22
Unk_17	C05	24
Unk_18	C06	23
Unk_19	D01	26
Unk_20	D02	29
Unk_21	D03	23
Unk_22	D04	26
Unk_23	D05	22
Unk_24	D06	18

B-107  
Decomm.

$$\bar{X} = 27$$

$$L_c = 2.33\sqrt{27} = 2.33(5.2) = 12$$

critical level

$$27 + 12 = 39$$

Total count rate: 584.6 CCPM

# Memorandum

**To:** Decommission File  
**From:** Mathew Swan *m2A*  
**Date:** August 2004  
**Re:** Decommission File – Program Update

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Radioactive material was used at the Purdue Cranbury facility starting in April of 2002. To date, there have been four memos pertaining to site decommission activities. This fifth memo dated 8/30/04, is intended to document site changes and to update site authorized use areas.

## Decommission Activities Review

Previous site decommission activities include the following:

- |    |                 |                                       |
|----|-----------------|---------------------------------------|
| 1. | August 2002     | Solid Radioactive Waste Storage Room  |
| 2. | September 2002  | Vivarium Procedure Room #4            |
| 3. | November 2002   | Liquid Radioactive Waste Storage Room |
| 4. | Quarter 4, 2003 | B-107 Tissue Culture Room             |

## Current Decommission Activities

The site business climate changed significantly in the summer of 2004. The site business changes dictated changes in the use of radioactive material on site. The site changes are summarized below:

1. The Immunotherapeutics Department was discontinued which affected a major portion of the radioactive material use on site.
2. Without the Immunotherapeutics Department, radioactive material was no longer used in the Vivarium.
3. The Molecular Biology Department moved from the second floor to the first floor lab space vacated by the Immunotherapeutics Department. Radioactive material was no longer used on the second floor.

Site decommission activities associated with the site changes in the summer of 2004 described above include the following:

1. Decommission second floor authorized use areas (B-202, B-206)

August 2004

2. Decommission Vivarium use areas (Colony Rm. #2, Procedure Rm. #4)
3. Decommission B-104 use area

Enclosed with this memo are copies of the lab diagrams, sample locations and analysis results print out. Areas B-202, B-206, Vivarium Colony Rm. 2, Vivarium Procedure Rm. 4 and B-104 were cleared for general use activities.

Current Authorized Use Areas

Following the decommission activities conducted in the summer of 2004, the locations described below are the current authorized use areas as of 8/30/04:

- |    |                           |                     |
|----|---------------------------|---------------------|
| 1. | Pharmacology              | B-113, B-117, B-119 |
| 2. | Molecular Biology         | B-123               |
| 4. | Solid Waste Storage Room  |                     |
| 5. | Liquid Waste Storage Room |                     |



### Beta Plate Counter Wipe Identification Log

Location: **Vivarium Colony Rm 2**

Loaded By: S. Dennerlein

Count Date 7/22/04

Sample Type:

Wipes

Liquids \_\_\_\_\_

Sample Location # (See Map)	Analysis Results (See Micro Beta Printout)
1-8	Floor (1-8)
9	Sink (9)
10-12	Refrigerator (inside and out) (10-12)
13 - 20	Cage rack (13-20)
21 - 26	Biosafety cabinet (21-26)
27 - 32	Biosafety cabinet (27-32)
	Background wipes (33-48)

Comments

Decommissioning survey, dry paper wipes of 100 cm<sup>2</sup> surface area. The average background is 44 cpm. The Critical Level is 59 cpm. There were no wipes above the critical level. This counter log identifies the wipes on the attached Package/Area Survey printout.

## APPENDIX E: AREA SURVEY FORM

Page 2 of 2

Lab Name:	Vivarium Colony Rm. 2	Lab Number:	SAME
Survey Date:	7/22/04		

SAMPLE LOCATION MAP	
<div>Bio safety cabinet 21 - 26</div>	<div>27 - 32 Bio safety cabinet</div>
8	7
6	5
13- 20 Cage rack	
4	3
Refrig 10 - 12	
2	1
Sink 9	

### Beta Plate Counter Wipe Identification Log

Location: **Vivarium Procedure Rm. 4**

Loaded By: S. Dennerlein

Count Date 7/22/04

Sample Type:

Wipes

Liquids \_\_\_\_\_

Sample Location # (See Map)	Analysis Results (See Micro Beta Printout)
1-5	Floor (49 – 53)
6 - 10	Benchtop (54 – 58)
11	Sink (59)
12 - 17	Biosafety cabinet (60 – 65)
18-22	Refrigerator (inside and out) (66 – 70)
23 - 28	Biosafety cabinet (71 – 76)
29 - 49	Drawers (77 – 97)
	Background wipes (33 – 48)

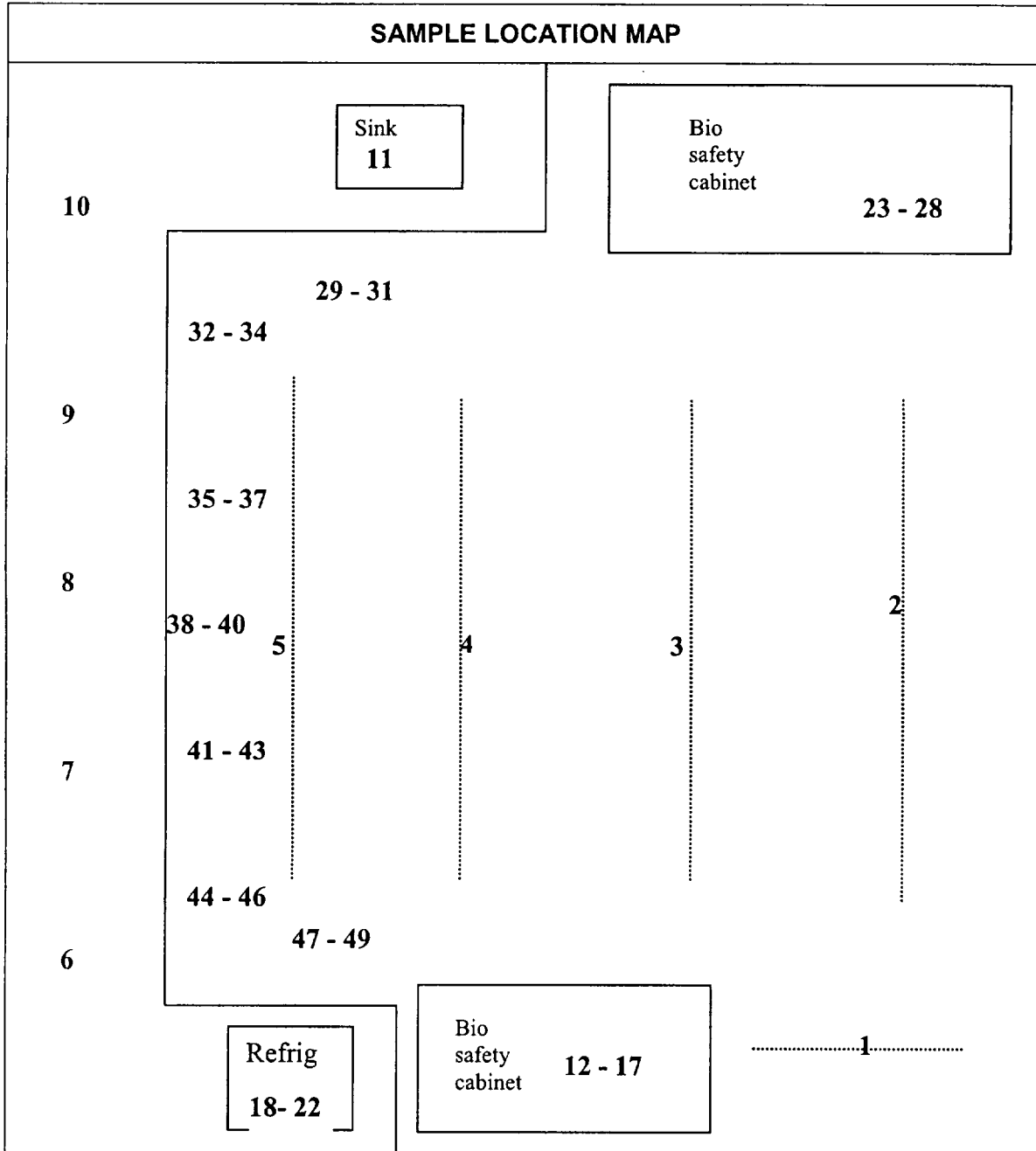
Comments

Decommissioning survey, dry paper wipes of 100 cm<sup>2</sup> surface area. The average background is 44 cpm. The Critical Level is 59 cpm. There were no wipes above the critical level. This counter log identifies the wipes on the attached Package/Area Survey printout.

# APPENDIX E: AREA SURVEY FORM

Page 2 of 2

<b>Lab Name:</b>	Vivarium Procedure Rm. 4	<b>Lab Number:</b>	SAME
<b>Survey Date:</b>	7/22/04		



### Beta Plate Counter Wipe Identification Log

Location: **B104**

Loaded By: S. Dennerlein

Count Date 7/22/04

Sample Type:

Wipes

Liquids \_\_\_\_\_

Sample Location # (See Map)	Analysis Results (See Micro Beta Printout)
1-4	Floor (111-114)
5 - 8	Bench top (115-118)
9-14	Hood (119-124)
15 - 20	Drawers (125-130)
	Background wipes (33-48)

Comments

Decommissioning survey, dry paper wipes of 100 cm<sup>2</sup> surface area. The average background is 44 cpm. The Critical Level is 59 cpm. There were no wipes above the critical level. This counter log identifies the wipes on the attached Package/Area Survey printout.

**APPENDIX E: AREA SURVEY FORM**

Page 2 of 2

<b>Lab Name:</b>	Immuno Lab	<b>Lab Number:</b>	B-104
<b>Survey Date:</b>	7/22/04		

SAMPLE LOCATION MAP	
5 - 8	.....1.....
15 - 20	
Hood	.....2.....
9 - 14	.....3.....
	.....4.....

c:\data\3h-swipes\A17\_080.txt

## RUN INFORMATION:

=====

Counting protocol no: 17

Thu 22-Jul-2004 11:07

Name: PACKAGE\_AREA\_SURVEYS

CPM normalization protocol no: -

\*\*\* DETECTORS NOT NORMALIZED

## COLUMNS:

=====

SAMPLE	POS	CCPM1
Unk_1	A01	50
Unk_2	A02	28
Unk_3	A03	59
Unk_4	A04	57
Unk_5	A05	37
Unk_6	A06	31
Unk_7	B01	35
Unk_8	B02	36
Unk_9	B03	37
Unk_10	B04	32
Unk_11	B05	29
Unk_12	B06	47
Unk_13	C01	33
Unk_14	C02	31
Unk_15	C03	49
Unk_16	C04	36
Unk_17	C05	27
Unk_18	C06	34
Unk_19	D01	46
Unk_20	D02	41
Unk_21	D03	34
Unk_22	D04	39
Unk_23	D05	46
Unk_24	D06	35
Unk_25	A01	33
Unk_26	A02	44
Unk_27	A03	35
Unk_28	A04	47
Unk_29	A05	39
Unk_30	A06	50
Unk_31	B01	39
Unk_32	B02	28
Unk_33	B03	47
Unk_34	B04	34
Unk_35	B05	33
Unk_36	B06	30
Unk_37	C01	41
Unk_38	C02	39
Unk_39	C03	42
Unk_40	C04	33
Unk_41	C05	37
Unk_42	C06	29
Unk_43	D01	38
Unk_44	D02	34
Unk_45	D03	34
Unk_46	D04	27
Unk_47	D05	32
Unk_48	D06	38
Unk_49	A01	25
Unk_50	A02	49
Unk_51	A03	34
Unk_52	A04	32
Unk_53	A05	42
Unk_54	A06	27
Unk_55	B01	38
Unk_56	B02	44
Unk_57	B03	41
Unk_58	B04	51
Unk_59	B05	40
Unk_60	B06	41
Unk_61	C01	42
Unk_62	C02	52

Colony Rm. #2

GENERAL BACKGROUND

Procedure Rm. #4

Unk_63	C03	59
Unk_64	C04	37
Unk_65	C05	36
Unk_66	C06	29
Unk_67	D01	27
Unk_68	D02	33
Unk_69	D03	33
Unk_70	D04	30
Unk_71	D05	38
Unk_72	D06	31
Unk_73	A01	36
Unk_74	A02	37
Unk_75	A03	40
Unk_76	A04	39
Unk_77	A05	34
Unk_78	A06	33
Unk_79	B01	32
Unk_80	B02	39
Unk_81	B03	49
Unk_82	B04	40
Unk_83	B05	34
Unk_84	B06	42
Unk_85	C01	39
Unk_86	C02	49
Unk_87	C03	54
Unk_88	C04	38
Unk_89	C05	39
Unk_90	C06	43
Unk_91	D01	32
Unk_92	D02	29
Unk_93	D03	24
Unk_94	D04	38
Unk_95	D05	44
Unk_96	D06	40
Unk_97	A01	27
Unk_98	A02	33
Unk_99	A03	42
Unk_100	A04	34
Unk_101	A05	44
Unk_102	A06	33
Unk_103	B01	36
Unk_104	B02	36
Unk_105	B03	44
Unk_106	B04	36
Unk_107	B05	31
Unk_108	B06	39
Unk_109	C01	38
Unk_110	C02	35
Unk_111	C03	39
Unk_112	C04	37
Unk_113	C05	36
Unk_114	C06	35
Unk_115	D01	25
Unk_116	D02	44
Unk_117	D03	40
Unk_118	D04	33
Unk_119	D05	34
Unk_120	D06	27
Unk_121	A01	34
Unk_122	A02	33
Unk_123	A03	43
Unk_124	A04	37
Unk_125	A05	35
Unk_126	A06	39
Unk_127	B01	39
Unk_128	B02	35
Unk_129	B03	54
Unk_130	B04	35
Unk_131	B05	32
Unk_132	B06	41
Unk_133	C01	34
Unk_134	C02	39
Unk_135	C03	26
Unk_136	C04	34
Unk_137	C05	34
Unk_138	C06	38
Unk_139	D01	38

PROCEDURE 10. #4 (CONTINUED)

NOT RELATED TO THESE SURVEYS

B-104

Blank



### Beta Plate Counter Wipe Identification Log

Location: **B202, B206**

Loaded By: S. Dennerlein

Count Date 8/19/04

Sample Type:

Wipes

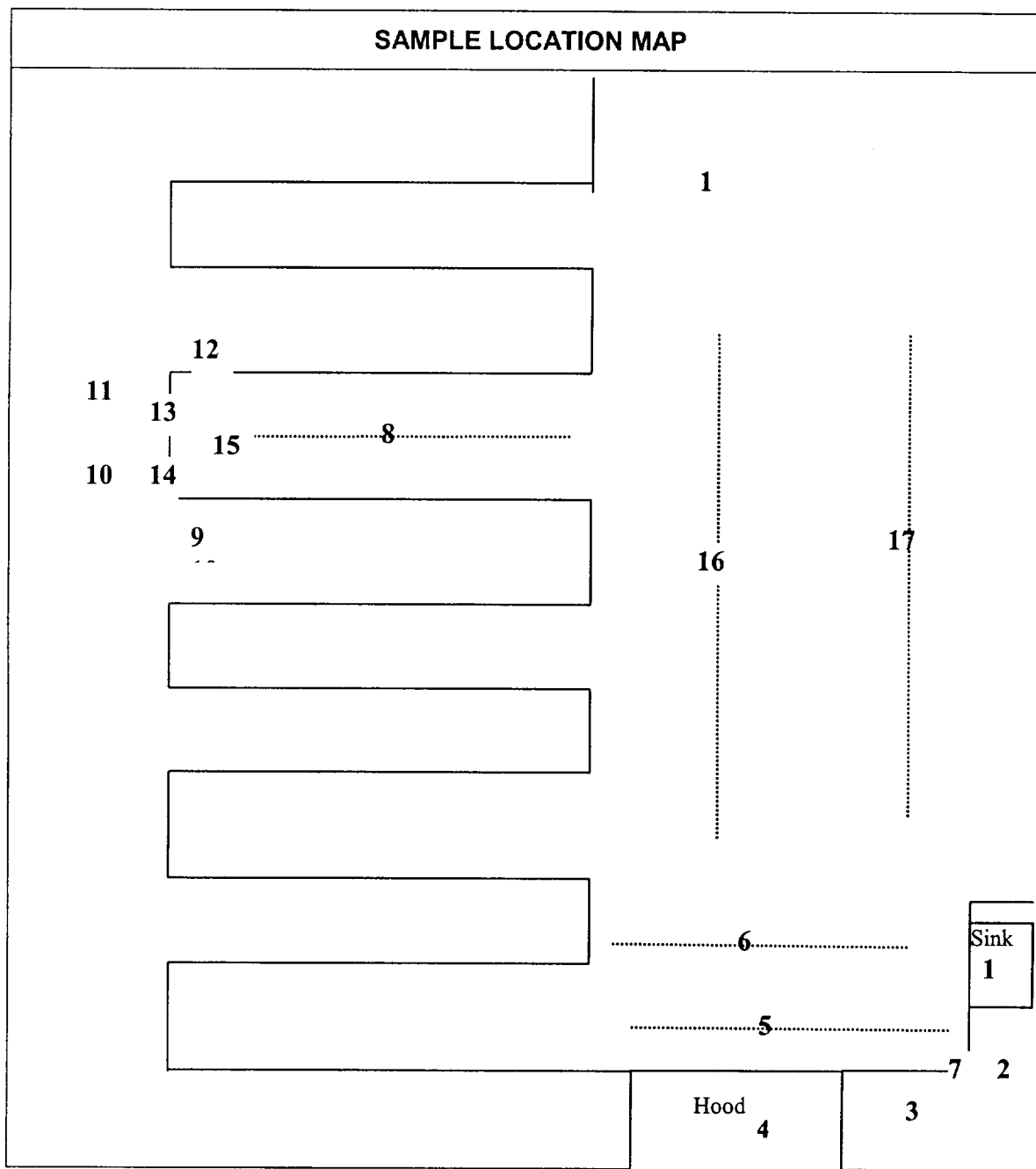
Liquids \_\_\_\_\_

Sample Location # (See Map)	Analysis Results (See Micro Beta Printout)
1-17	B-202, Sink, bench, hood, floor (1-17)
18-19	Background wipes (18-19)
1-5	B-206, Bench top, floor (20-24)

Comments

Decommissioning survey, dry paper wipes of 100 cm<sup>2</sup> surface area. The average background is 43 cpm. The Critical Level is 50 cpm. There were no wipes above the critical level. This counter log identifies the wipes on the attached Package/Area Survey printout.

## Page 2 of 2



## APPENDIX E: AREA SURVEY FORM

Page 2 of 2

<b>Lab Name:</b>	Molec Bio, Instrument Lab, 2 <sup>nd</sup> Floor	<b>Lab Number:</b>	B-206
<b>Survey Date</b>	8/19/04		

SAMPLE LOCATION MAP	
1	<div style="border: 1px solid black; padding: 10px; text-align: center;">LSC</div> 3
4	2
<div style="border-top: 1px dashed black; padding-top: 10px;">5</div>	
<div style="border: 1px solid black; height: 150px; width: 100%;"></div>	

c:\data\3h-swipes\A17\_088.txt

## RUN INFORMATION:

=====

Counting protocol no: 17

Thu 19-Aug-2004 12:23

Name: PACKAGE\_AREA\_SURVEYS

CPM normalization protocol no: -

\*\*\* DETECTORS NOT NORMALIZED

## COLUMNS:

=====

SAMPLE	POS	CPM1
Unk_1	A01	32
Unk_2	A02	36
Unk_3	A03	42
Unk_4	A04	44
Unk_5	A05	52
Unk_6	A06	37
Unk_7	B01	34
Unk_8	B02	35
Unk_9	B03	49
Unk_10	B04	48
Unk_11	B05	48
Unk_12	B06	44
Unk_13	C01	38
Unk_14	C02	34
Unk_15	C03	30
Unk_16	C04	34
Unk_17	C05	49
Unk_18	C06	42
Unk_19	D01	39
Unk_20	D02	41
Unk_21	D03	32
Unk_22	D04	43
Unk_23	D05	35
Unk_24	D06	45

Total count rate: 964.6 CCPM

B202/B206

B-202

BACKGROUND

B-206

### Beta Plate Counter Wipe Identification Log

Location: **B112**

Loaded By: S. Dennerlein

Count Date 6/28/05

Sample Type:

Wipes

Liquids \_\_\_\_\_

Sample #	Description
1-8	floor
9 - 10	shelves
11-16	walls
17 - 24	Background wipes

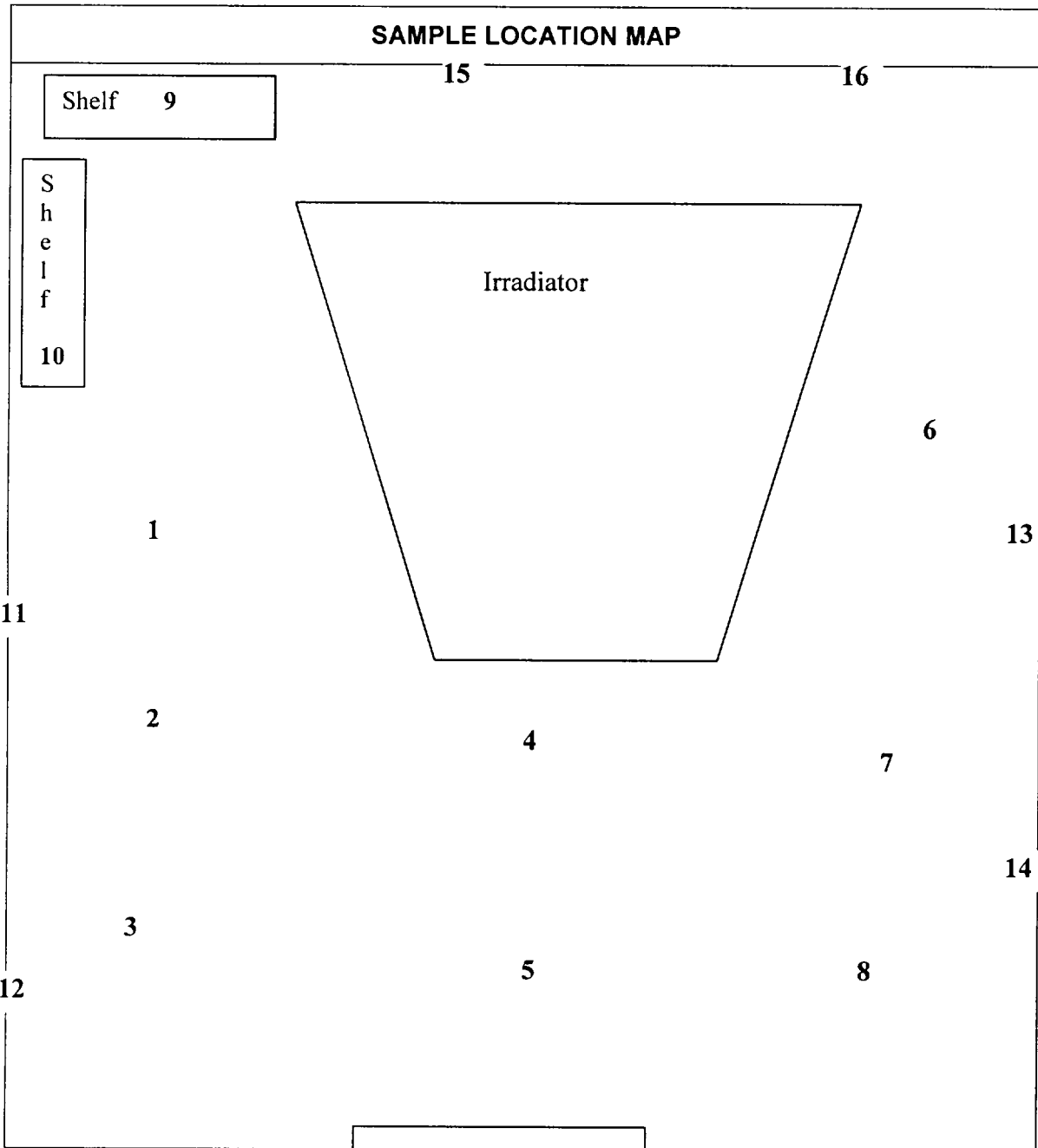
Comments

Decommissioning survey, dry paper wipes of 100 cm<sup>2</sup> surface area. The average background is 39 cpm. The Critical Level is 56 cpm. There were no area wipes above the critical level. This counter log identifies the wipes on the attached Package/Area Survey printout. Dose rate measurements were at background level. All direct readings with pancake probe at background level

## APPENDIX E: AREA SURVEY FORM

Page 2 of 2

<b>Lab Name:</b>	Solid waste / Irradiator Room	<b>Lab Number:</b>	B-112
<b>Survey Date:</b>	6/28/05		



c:\data\3h-swipes\A17\_002.txt

*Room 2-112*

## RUN INFORMATION:

=====

Counting protocol no: 17

Tue 28-Jun-2005 10:51

Name: PACKAGE\_AREA\_SURVEYS

CPM normalization protocol no: -

\*\*\* DETECTORS NOT NORMALIZED

## COLUMNS:

=====

SAMPLE	POS	CPM1
Unk_1	A01	39
Unk_2	A02	33
Unk_3	A03	33
Unk_4	A04	39
Unk_5	A05	39
Unk_6	A06	37
Unk_7	B01	46
Unk_8	B02	43
Unk_9	B03	54
Unk_10	B04	36
Unk_11	B05	50
Unk_12	B06	40
Unk_13	C01	36
Unk_14	C02	43
Unk_15	C03	33
Unk_16	C04	28
Unk_17	C05	36
Unk_18	C06	40
Unk_19	D01	61
Unk_20	D02	30
Unk_21	D03	40
Unk_22	D04	37
Unk_23	D05	30
Unk_24	D06	36

*B-112**BACKGROUND*

Total count rate: 940.1 CCPM