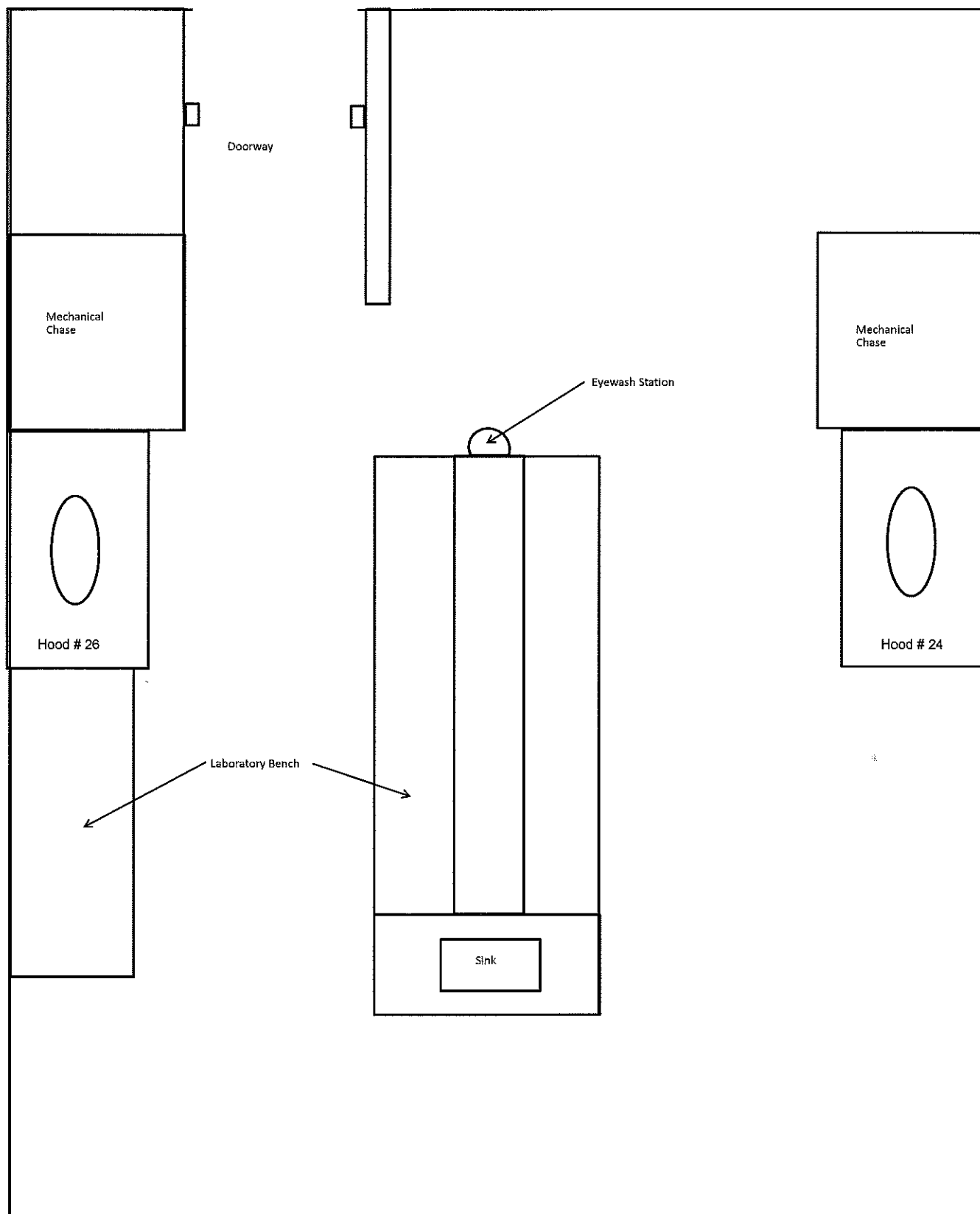


Room 1223 Scoping Survey

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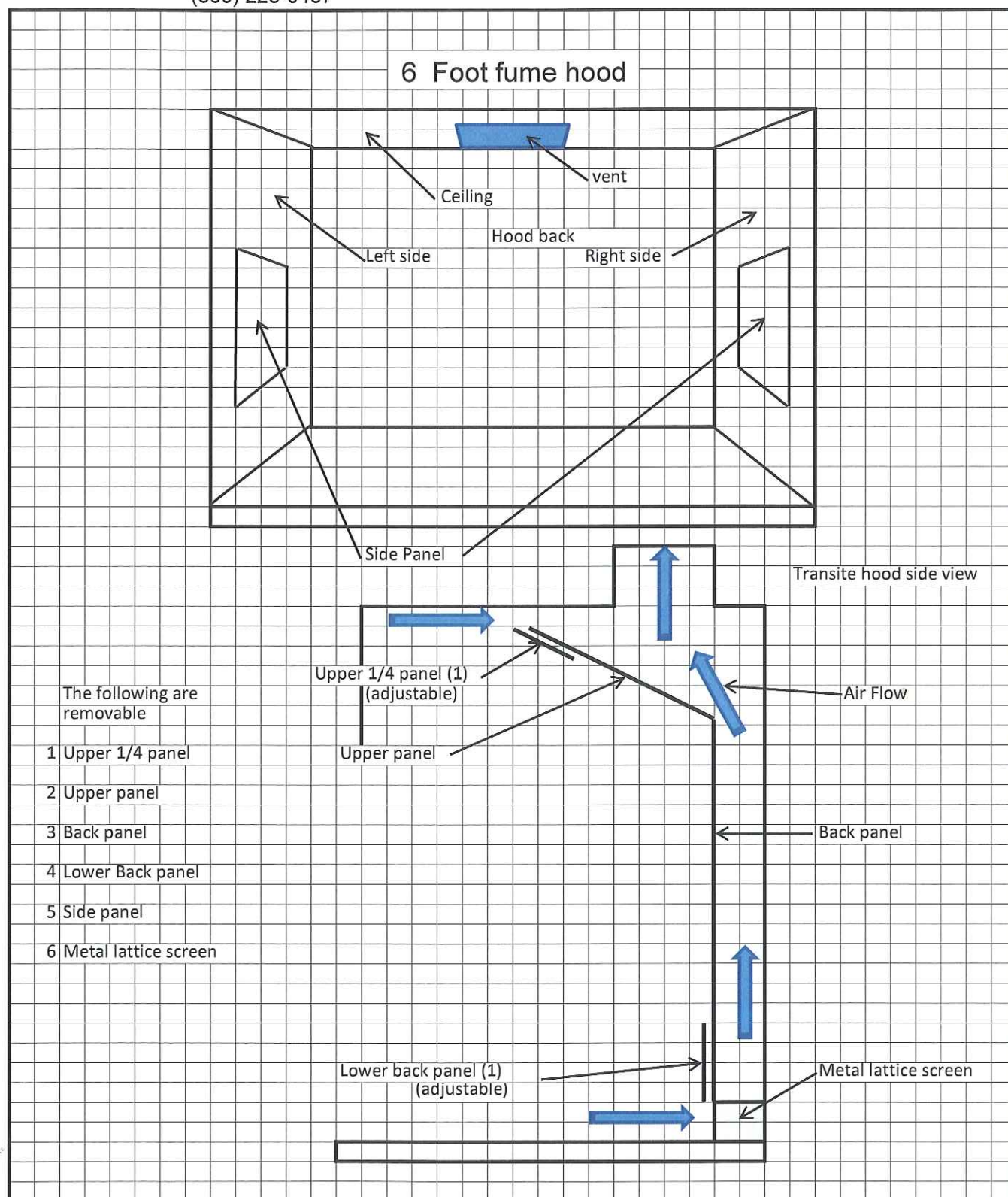
2	Floor Plan
3	Drawing of a typical 6-foot fume hood
4	Wipe test data for Hood 24
5	Wipe test data for Hood 26



Floor Plan Room 1223

RADIATION SAFETY ASSOCIATES

19 Pendleton Drive
Hebron, CT 06248
(860) 228-0487



RSA Laboratories
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Radiochemistry Analysis Data Sheet

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Report No. **N/A**Customer: **Chemtura**Customer Samp No. **N/A**Location: **1223 Hood 24**RSA Lab Sample No. **N/A**Project: **Lab Decommissioning**Date Collected: **3/9/2011**Samp. Description: **Survey Wipes**Date Counted: **3/9/2011**Matrix: **Wipes****C-14 LLD dpm= 45.13**

RSA ID#	CUST. ID#	Location			C-14 CPM	dpm/100 cm sq
BG		BACKGROUND			44.80	
1		Left Side			6.70	7.30
2		Hood Back Upper Left			9.70	10.60
3		Hood Back Upper Right			15.80	17.30
4		Hood Back Lower Left			19.90	21.70
5		Hood Back Lower Right			8.60	9.40
6		Right Side			3.70	4.00
7		Counter Left			14.50	15.90
8		Counter Right			14.00	15.40
9		Sill			12.70	13.90
10		Ceiling Left			18.60	20.30
11		Ceiling Right			9.60	10.50
12		Glass Left			9.10	10.00
13		Glass Right			10.30	11.20
14		Back Front			7.90	8.60
15		Back Back			10.30	11.30
16		Lower Back Front			22.00	24.00
17		Lower Back Back			33.20	36.00
18		Upper Panel Back			15.30	316.70
19		Upper Panel Front			15.80	17.20
20		Upper 1/4 Panel Front			17.40	19.00
21		Upper 1/4 Panel Back			16.30	17.90
22		Left Cover			13.10	14.30
23		Right Cover			19.40	21.20
C-14		QC C-14			117492.40	1330166.00
24		Screen			28.40	32.40
BL		QC Blank			23.40	25.50

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Radiochemistry Analysis Data Sheet

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Report No. **N/A**Customer: **Chemtura**Customer Samp No. **N/A**Location: **1223 Hood 26**RSA Lab Sample No. **N/A**Project: **Lab Decommissioning**Date Collected: **3/9/2011**Samp. Description: **Survey Wipes**Date Counted: **3/9/2011**Matrix: **Wipes****C-14 LLD dpm= 39.35**

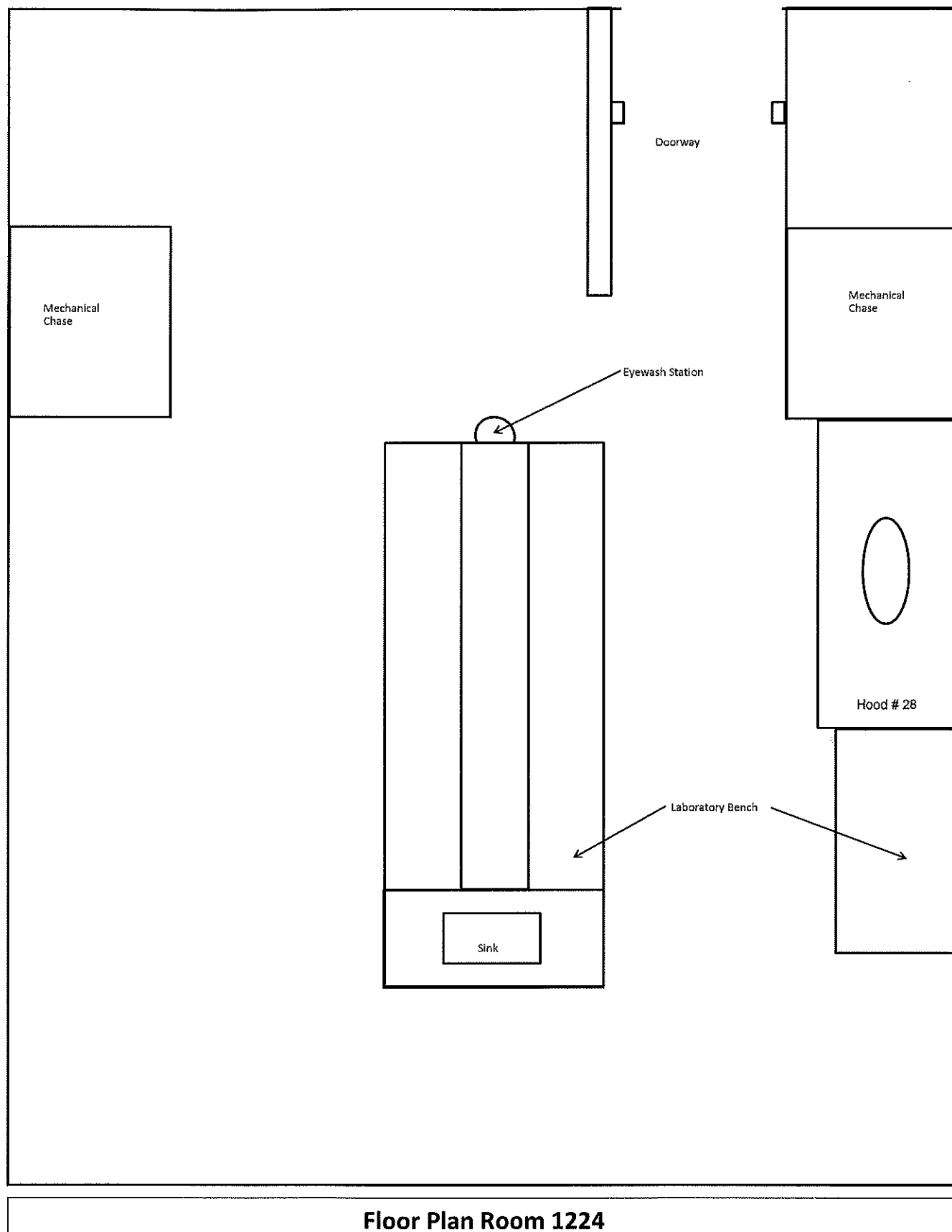
RSA ID#	CUST. ID#	Location			C-14 CPM	dpm/100 cm sq
BG		BACKGROUND			33.20	
1		Left Side			7.90	8.60
2		Hood Back Upper Left			19.50	21.30
3		Hood Back Upper Right			13.90	15.10
4		Hood Back Lower Left			14.40	15.70
5		Hood Back Lower Right			21.50	23.50
6		Right Side			20.30	22.20
7		Counter Left			19.70	21.60
8		Counter Right			17.80	19.50
9		Sill			0.00	0.00
10		Ceiling Left			15.40	16.90
11		Ceiling Right			13.10	14.30
12		Glass Left			9.10	10.00
13		Glass Right			19.80	21.60
14		Back Panel Front			7.80	8.50
15		Back Panel Back			16.70	18.30
16		Lower Back Front			20.90	22.80
17		Lower Back Back			0.00	0.00
18		Upper Panel Front			14.90	16.30
19		Upper Panel Back			16.00	17.50
20		Upper 1/4 Front			23.30	25.40
21		Upper 1/4 Back			12.10	13.20
22		Right Cover			23.20	25.20
23		Left Cover			15.20	16.50
C-14		QC C-14			122807.00	135488.70
24		Screen			18.90	20.70
BL		QC Blank			19.30	21.00

Room 1224 Scoping Survey

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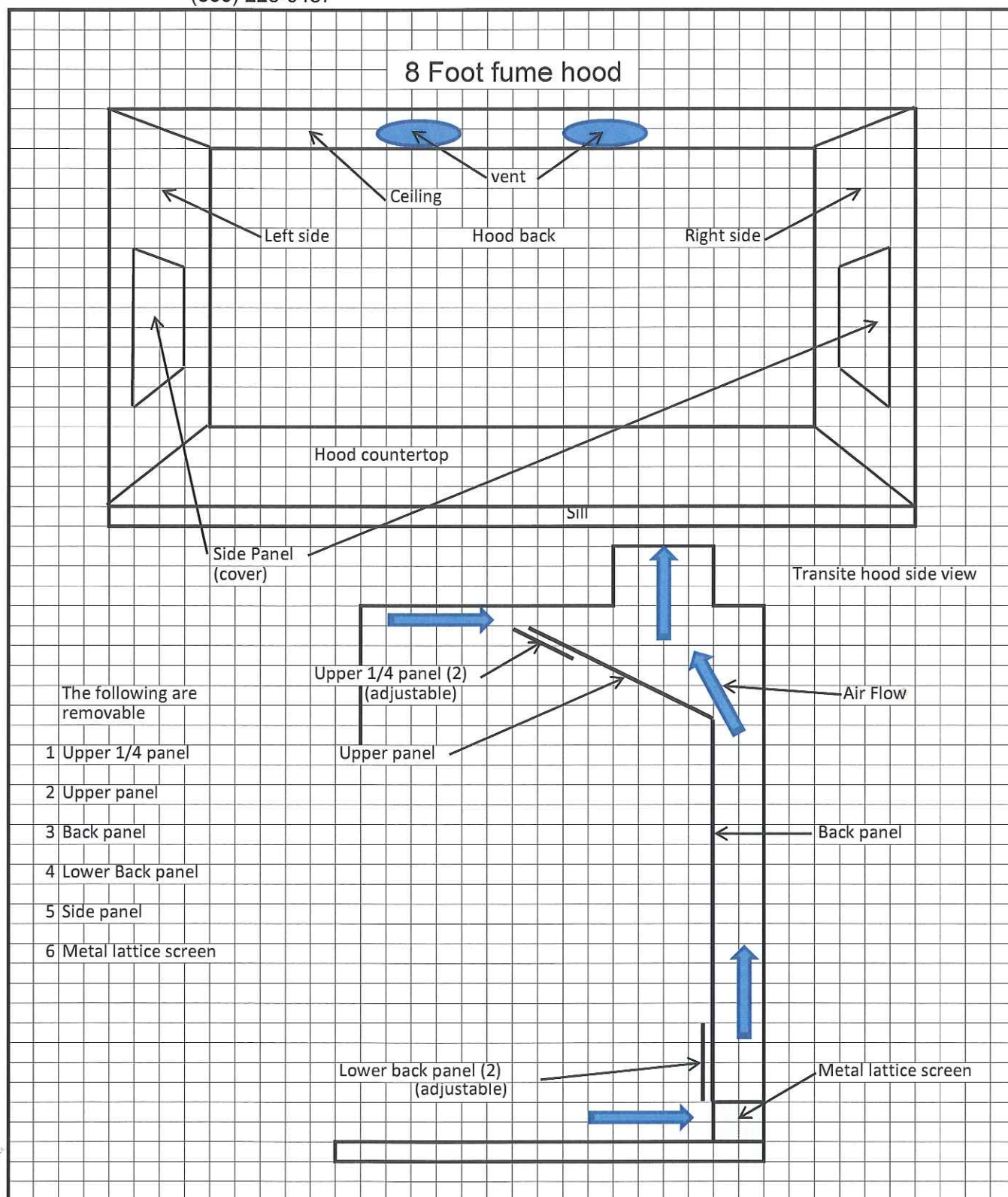
Page

2	Floor Plan
3	Drawing of a typical 8-foot fume hood
4	Wipe test data for Hood 28



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Radiochemistry Analysis Data Sheet

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Report No. N/A

Customer Samp No. N/A

RSA Lab Sample No. N/A

Date Collected: 3/9/2011

Date Counted: 3/9/2011

C-14 LLD dpm= 35.18

Customer: Chemtura

Location: 1224 Hood 28

Project: Lab Decommissioning

Samp. Description: Survey Wipes

Matrix: Wipes

RSA ID#	CUST. ID#	Location			C-14 CPM	dpm/100 cm sq
BG		BACKGROUND			25.90	
1		Left Side			12.90	14.00
2		Hood Back Left Upper			23.10	25.10
3		Hood Back Right Upper			1.30	1.50
4		Hood Back Left Lower			5.10	5.60
5		Hood Back Right Lower			39.00	42.50
6		Right Side			9.30	10.10
7		Left Counter			4.00	4.40
8		Right Counter			13.10	14.30
9		Sill			14.80	16.50
10		Left Ceiling			2.80	3.00
11		Right Ceiling			13.70	15.00
12		Left Glass			29.20	31.80
13		Right Glass			10.50	11.40
14		Screen			5.50	6.20
15		Back Panel Left Front			19.50	21.30
16		Back Panel Left Back			13.50	14.80
17		Back Panel Right Front			21.80	23.80
18		Back Panel Right Back			16.40	18.00
19		Lower Back Left Front			16.40	17.90
20		Lower Back Left Back			8.90	9.70
21		Lower Back Right Front			22.30	24.40
22		Lower Back Right Back			13.40	14.70
23		Upper Panel Left Front			12.30	13.40
C-14		QC C-14			106892.00	133548.20
24		Upper Panel Left Back			22.20	24.30
25		Upper Panel Right Front			17.90	19.50
26		Upper Panel Right Back			22.40	24.50
27		Left 1/4 Panel Front			9.40	10.30
28		Left 1/4 Panel Back			16.00	17.50
29		Right 1/4 Panel Front			14.70	16.10
30		Right 1/4 Panel Back			7.00	7.60
31		Left Cover			15.10	16.50
32		Right Cover			19.10	20.90
BL		QC Blank			16.00	17.50

Walk-In Freezer Scoping Survey

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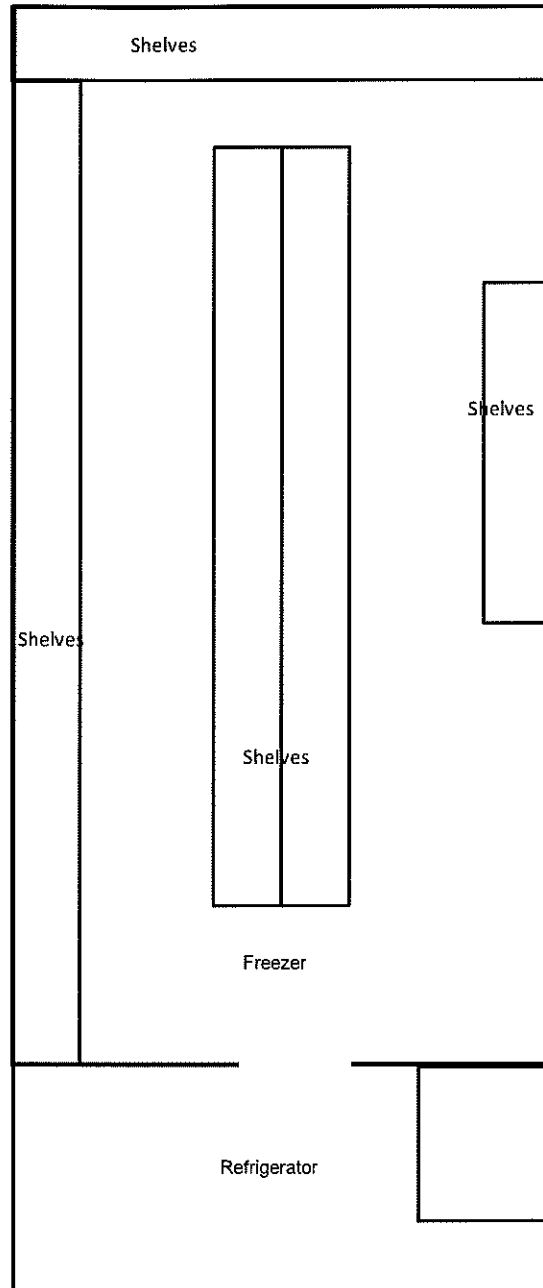
2	Informational Note
3	Floor Plan
4-5	Wipe test locations
6	Wipe test data
7	Direct survey locations
8	Direct survey results

NOTE

An extensive scoping survey was performed in the walk-in freezer. This set of sample and direct measurement results was used as the Final Status Survey for the following reasons:

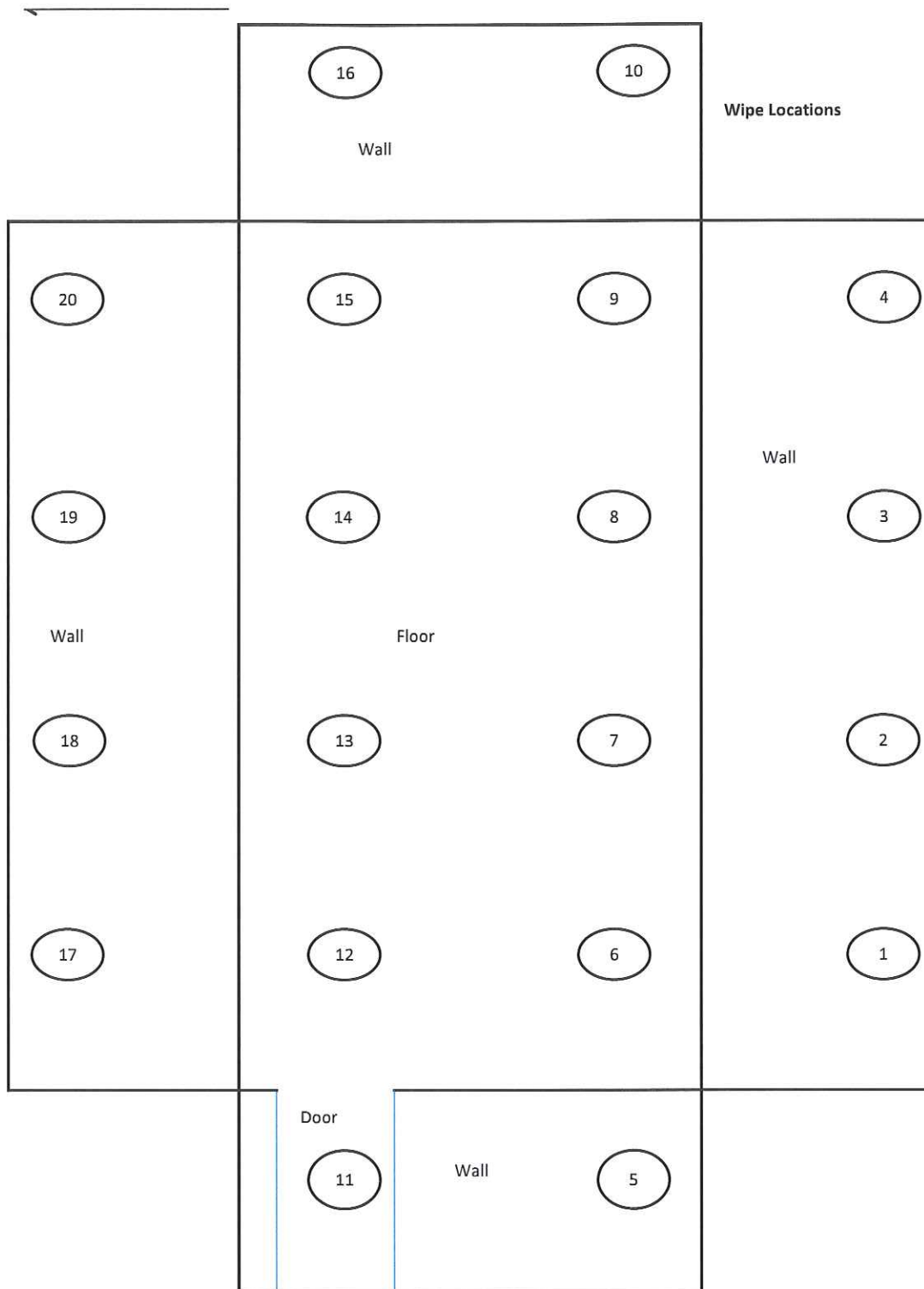
1. No significant contamination was found;
2. The size of the freezer was less than 500 ft², which is a small fraction of the maximum area suggested by MARSSIM for a Class 3 area;
3. The sample density (i.e., samples or measurements per unit area) was very large compared to the MARSSIM Class 3 area divided by the 14-18 samples suggested by ResRad to be taken in this larger area.

Survey Unit 6 Walk-In Freezer

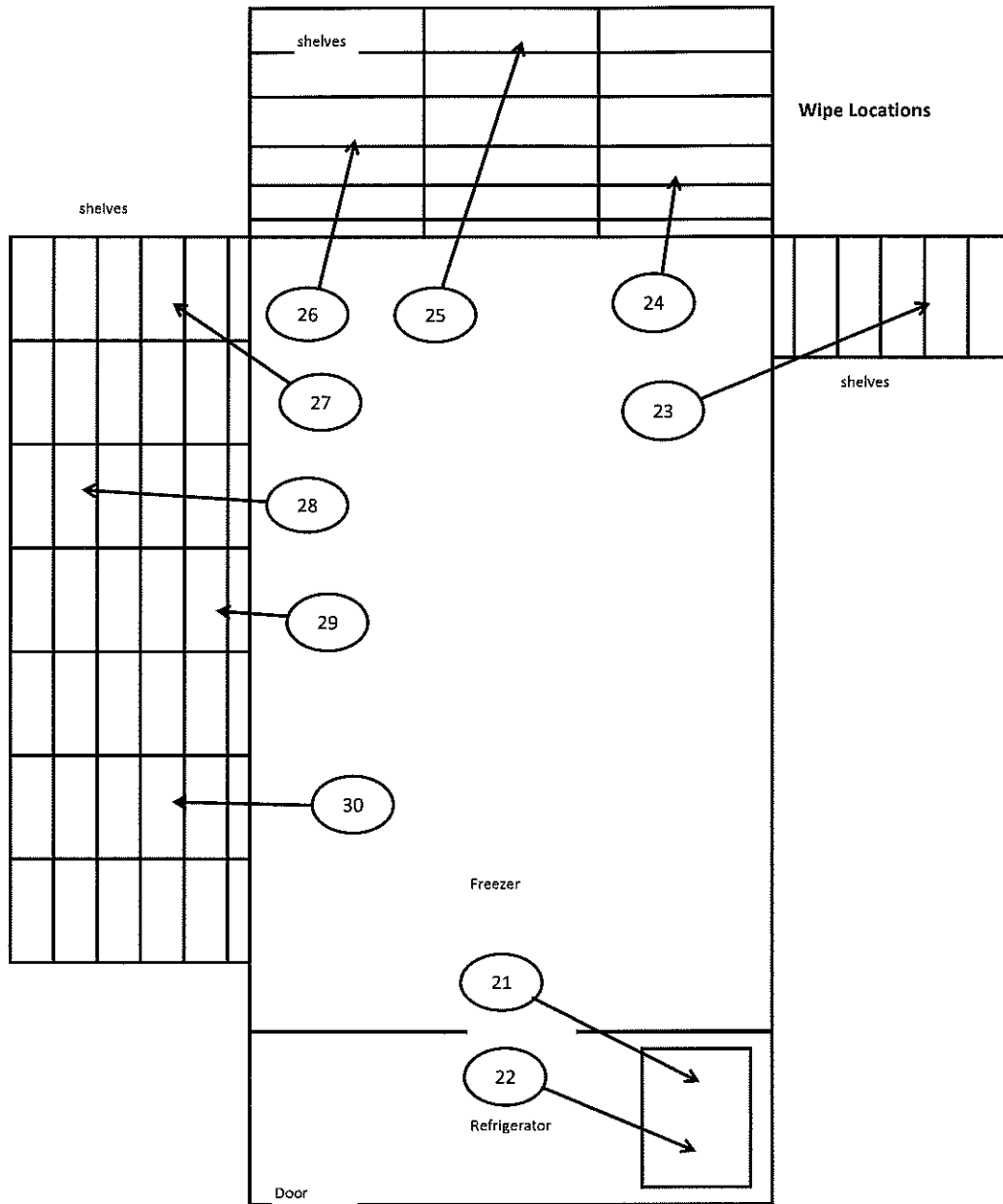


Survey Unit 6

Walk-in Refrigerator/Freezer



walk in refrigerator/freezer



walk in refrigerator/freezer

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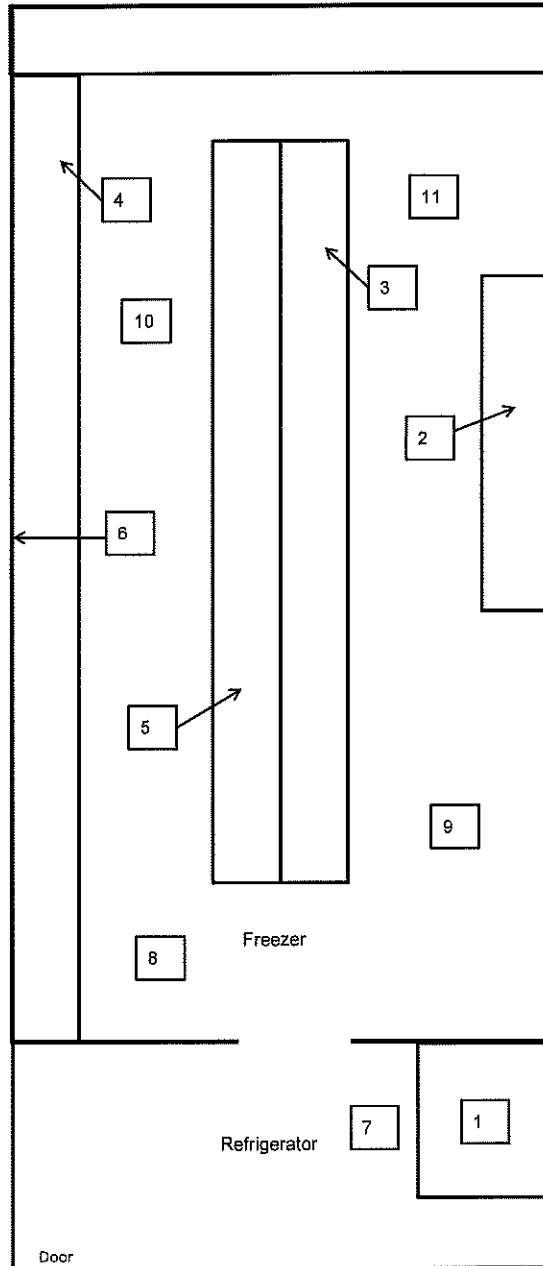
Report No. **N/A**Customer Samp No. **N/A**RSA Lab Sample No. **N/A**Date Collected: **5/3/2011**Date Counted: **5/3/2011**Customer: **Chemtura**Location: **Survey Unit 4**Project: **Lab Decommissioning**Samp. Description: **FS Wipes**Matrix: **Wipes****C-14 LLD dpm= 39.94**

RSA ID#	CUST. ID#	Location			C-14 CPM	dpm/100 cm sq
	BG	BACKGROUND			34.30	
1		Room 1207 Wall			9.30	10.10
2		Room 1207 Countertop			17.60	19.10
3		Room 1207 Shelf			64.70	71.40
4		Room 1207 Wall			9.00	9.80
5		Drawer 224			55.90	61.50
6		Drawer 268			45.60	49.60
7		Drawer 265			28.30	30.90
8		Drawer 245			43.80	47.60
9		Drawer 240			13.30	14.40
10		Drawer 299			13.60	14.80
11		Drawer 292			23.60	25.60
12		Drawer 282			12.60	13.70
13		Drawer 307			14.30	15.50
14		Drawer 321			11.90	12.90
15		Room 1207 Wall			4.50	4.90
16		Room 1207 FS Gridpoint 1			3.60	3.90
17		Room 1207 FS Gridpoint 2			17.00	18.50
18		Room 1207 FS Gridpoint 3			24.30	26.50
19		Room 1207 FS Gridpoint 4			13.30	14.50
20		Room 1207 FS Gridpoint 5			7.40	8.10
21		Room 1207 FS Gridpoint 6			13.20	14.30
22		Room 1207 FS Gridpoint 7			40.50	44.00
23		Room 1207 FS Gridpoint 8			13.40	14.60
C-14		QC C-14			115086.20	124202.70
24		Room 1207 FS Gridpoint 9			12.40	13.40
25		Room 1207 FS Gridpoint 10			16.00	17.40
26		Room 1207 FS Gridpoint 11			31.80	34.60
27		Room 1207 FS Gridpoint 12			23.50	25.70
28		Room 1207 FS Gridpoint 14			2.20	2.30
29		Room 1207 FS Gridpoint 15			21.10	23.00
30		Room 1207 FS Gridpoint 16			21.50	23.50
31		Room 1207 FS Gridpoint 17			16.70	18.20
32		Room 1207 FS Gridpoint 18			1.50	1.60

Jay R. Dockendorff
Laboratory Director

Chemtura Middlebury

Direct Measurement Locations



walk in refrigerator/freezer

Chemtura Corporation, Middlebury, CT

Direct Measurements -- Freezer

Date: 8/5/2008

Meter #1: Ludlum 2224-1 s/n 129459 w/43-68 s/n 111315

MDA: 914 dpm/100 cm²

C-14 efficiency (%):

7.2

Background (5 min. count):

2730

Beta cpm:

546

#	Location	Gross Beta (2 min. count)	Gross Beta cpm	Beta dpm/100 cm sq
1	prep table	1110	555	125
2	2nd shelf from bottom - right side wall	1178	589	597
3	2nd shelf from bottom - middle right - back row	1122	561	208
4	2nd shelf from back, 2nd up - left wall	1078	539	-97
5	3rd shelf from bottom - front row - middle left	1040	520	-361
6	left side wall - center	1190	595	681

Meter #2: Ludlum 2224-1 s/n 129459 w/43-37 s/n 103776

MDA: 309 dpm/100 cm²

C-14 efficiency (%):

4.7

Background (5 min. count):

2450

Beta cpm:

490

#	Location	Gross Beta (2 min. count)	Gross Beta cpm	Beta dpm/100 cm sq
7	floor - prep area	1113	556.5	333
8	floor - front left	1021	510.5	103
9	floor - front right	1090	545	275
10	floor - rear left	1174	587	486
11	floor - rear right	1128	564	370

Rad Waste Storage Room Scoping Survey

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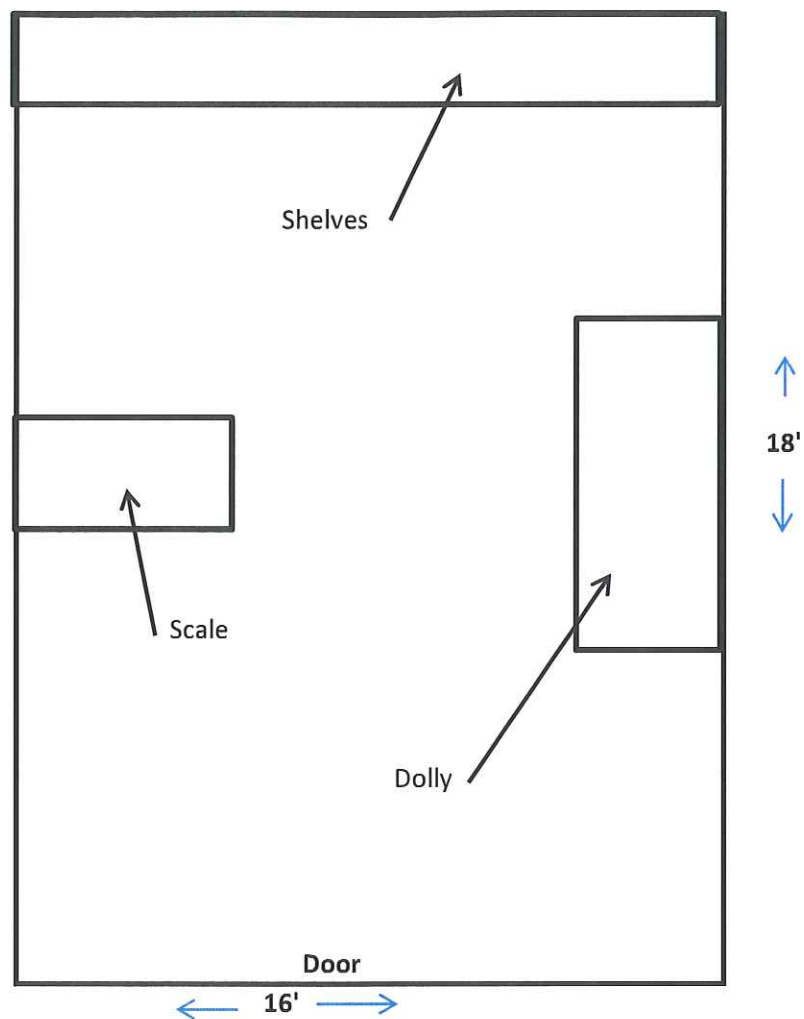
2	Note
3	Floor Plan
4-5	Wipe locations
6	Wipe test data
7	Direct measurement locations
8	Direct measurement results

NOTE

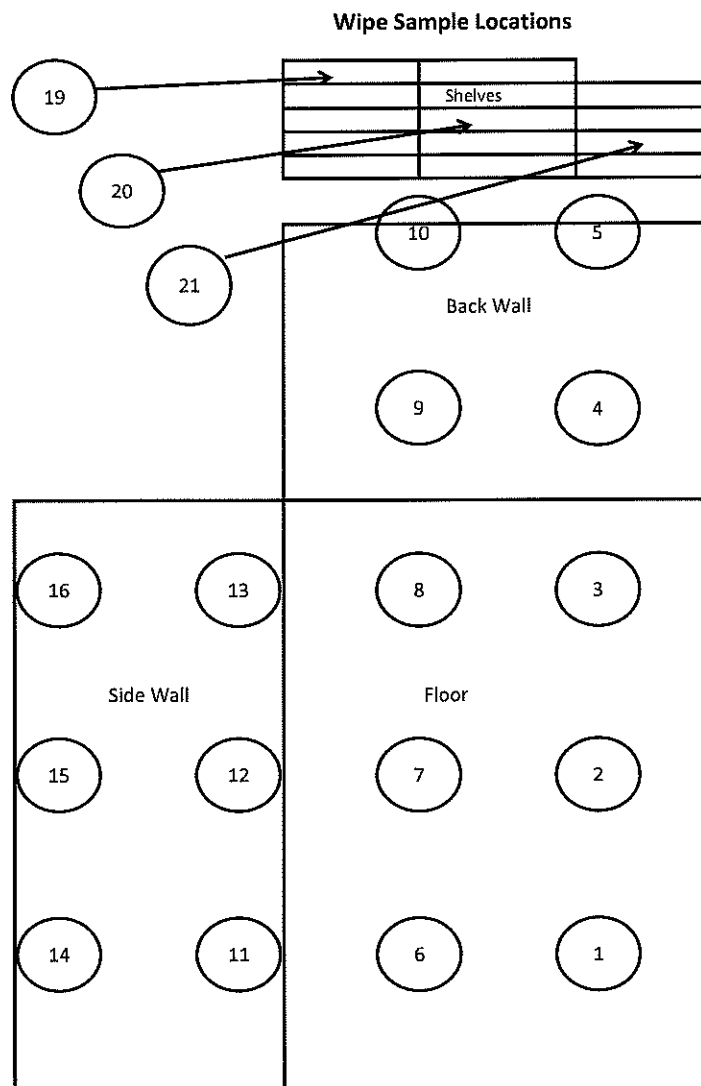
An extensive scoping survey was performed in the Radioactive Waste Storage Area. This set of sample and direct measurement results was used as the Final Status Survey for the following reasons:

1. No significant removable contamination was found;
2. The size of the area was less than 300 ft², which is a small fraction of the maximum area suggested by MARSSIM for a Class 3 area;
3. While direct measurements of activity were elevated, very aggressive decontamination resulted in decontamination factors of less than 2;
4. Fixed contamination levels before decontamination were no greater than 3000 dpm/100cm², so there was no need to reclassify the area;
5. The sample density (i.e., samples or measurements per unit area) was very large compared to the maximum MARSSIM Class 3 area divided by the 14-18 samples suggested by ResRad to be taken in this larger area.

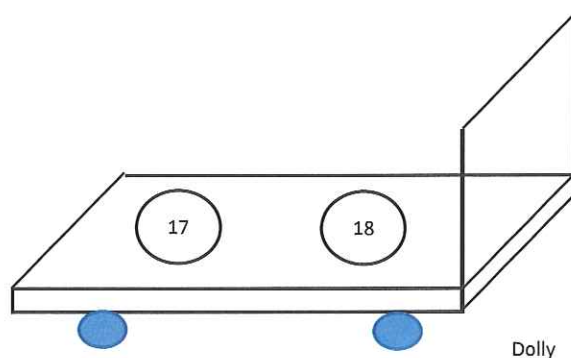
Floor Plan



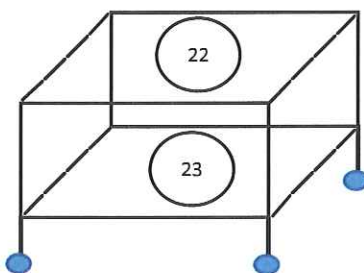
Rad Waste Area



Rad Waste Area

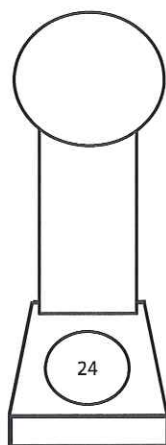


Dolly



Rolling cart

Rad Waste Area
Objects



Scale

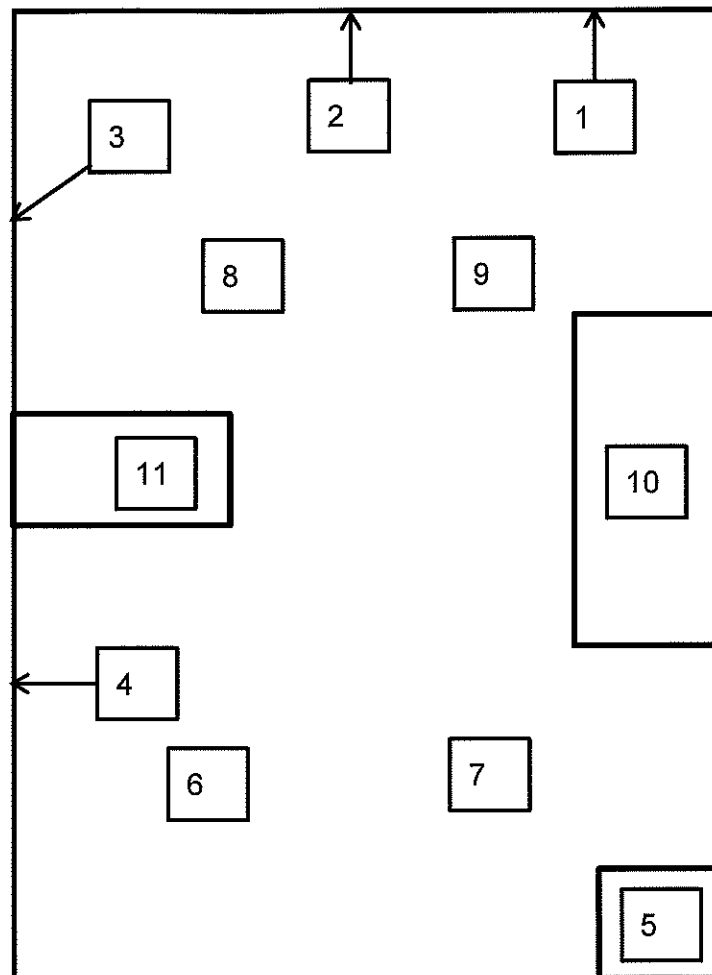
RSA Laboratories
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Radiochemistry Analysis Data Sheet

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Report No. **N/A**Customer: **Chemtura**Customer Samp No. **N/A**Location: **Survey Unit 7 Rad Waste**RSA Lab Sample No. **N/A**Project: **Lab Decommissioning**Date Collected: **5/11/2011**Samp. Description: **FS Wipes**Date Counted: **5/11/2011**Matrix: **Wipes****C-14 LLD dpm= 42.10**

RSA ID#	CUST. ID#	Location			C-14 CPM	dpm/100 cm sq
BG		BACKGROUND			38.50	
1		Survey Unit Point 1			5.40	5.80
2		Survey Unit Point 2			18.30	19.90
3		Survey Unit Point 3			27.70	30.20
4		Survey Unit Point 4			14.00	15.20
5		Survey Unit Point 5			16.70	18.20
6		Survey Unit Point 6			9.80	10.60
7		Survey Unit Point 7			5.20	5.60
8		Survey Unit Point 8			33.20	36.20
9		Survey Unit Point 9			15.00	16.30
10		Survey Unit Point 10			14.30	15.50
11		Survey Unit Point 11			16.90	18.30
12		Survey Unit Point 12			32.80	35.90
13		Survey Unit Point 13			10.30	11.20
14		Survey Unit Point 14			9.80	10.60
15		Survey Unit Point 15			11.70	12.80
16		Survey Unit Point 16			9.30	10.10
17		Dolly 1			7.90	8.60
18		Dolly 2			0.30	0.30
19		Shelf 1			9.80	10.70
20		Shelf 2			29.70	32.50
21		Shelf 3			20.20	22.20
22		Rolling Table 1			10.60	11.60
23		Rolling Table 2			7.80	8.50
C-14		QC C-14			115923.10	125308.70
BL		QC Blank			13.70	15.00
24		Scale			11.80	12.90
25		Barrel A Top			8.20	8.90
26		Barrel A Sides			0.00	0.00
27		Barrel B Top			20.50	22.50
28		Barrel B Sides			12.70	14.00

Direct Measurement Locations



Rad Waste Area

Chemtura Corporation, Middlebury, CT

Direct Measurements -- Radwaste Area

Floor, Walls, Shelves

Date: 8/5/2008

Meter #1: Ludlum 2224-1 s/n 129459 w/43-68 s/n 111315

MDA: 914 dpm/100 cm²

C-14 efficiency (%):

7.2

Background (5 min. count):

2730

Beta cpm:

546

#	Location	Gross Beta (2 min. count)	Gross Beta cpm	Beta dpm/100 cm sq
1	3rd shelf from bottom - right side	1177	588.5	590
2	back wall - center	1372	686	1944
3	side wall - right	1122	561	208
4	side wall - left	1078	539	-97
5	cart - top shelf	1054	527	-264

Meter #2: Ludlum 2224 s/n 119815 w/43-37 s/n 160827

MDA: 309 dpm/100 cm²

C-14 efficiency (%):

4.7

Background (5 min. count):

3075

Beta cpm:

615

#	Location	Gross Beta (2 min. count)	Gross Beta cpm	Beta dpm/100 cm sq
6	floor - front left	1733	866.5	1244
7	floor - front right	2266	1133	2593
8	floor - rear left	2408	1204	2949
9	floor - rear right	1782	891	1382
10	flatbed handtruck	5654	2827	11074
11	scale	822	411	-1021

Disposed

Post Decon

#	Location	Gross Beta (2 min. count)	Gross Beta cpm	Beta dpm/100 cm sq
6	floor - front left	1797	898.5	1419
7	floor - front right	1759	879.5	1324
8	floor - rear left	2042	1021	2033
9	floor - rear right	1537	768.5	768
10	flatbed handtruck	Disposed		

DF

0.88

1.96

1.45

1.8