

Rad Waste Storage Room Scoping Survey

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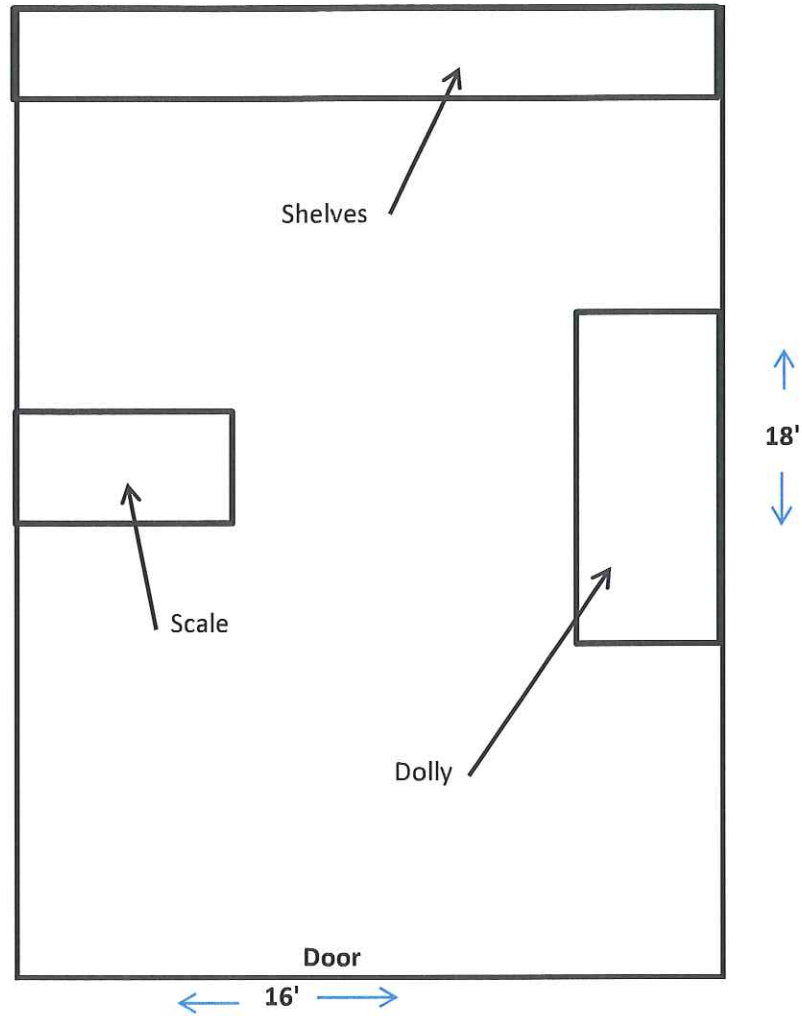
2	Note
3	Floor Plan
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6	Wipe test data
7	Direct measurement locations
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NOTE

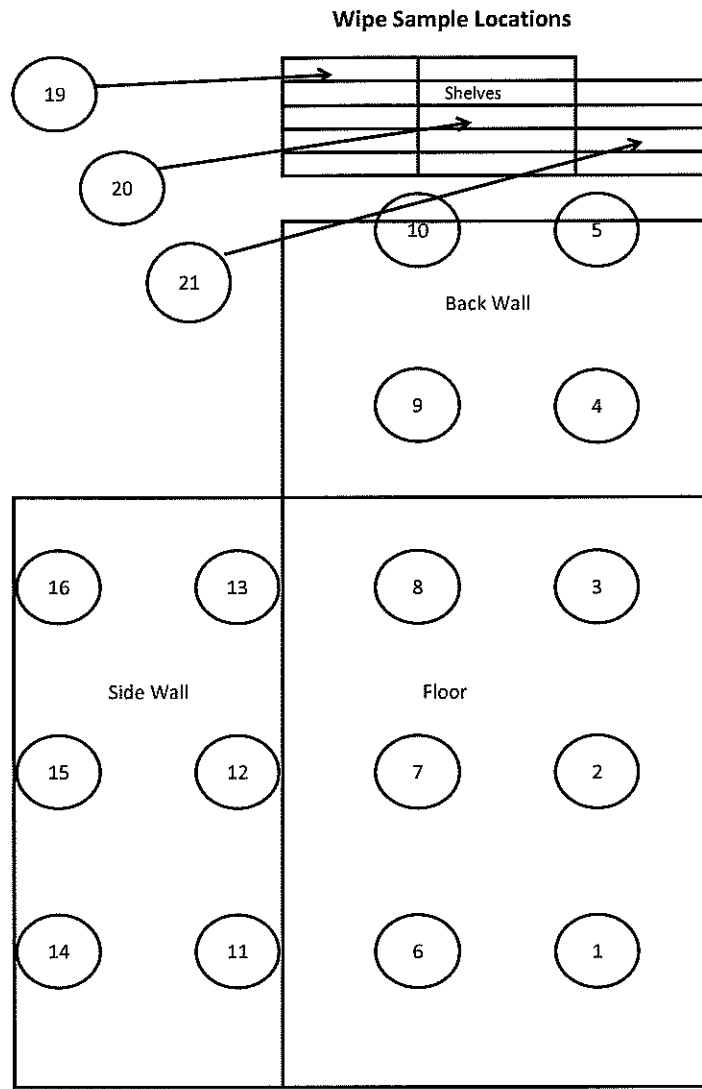
An extensive scoping survey was performed in the Radioactive Waste Storage Area. This set of sample and direct measurement results was used as the Final Status Survey for the following reasons:

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.

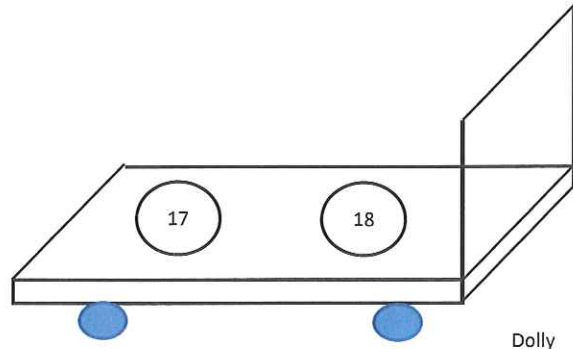
Floor Plan



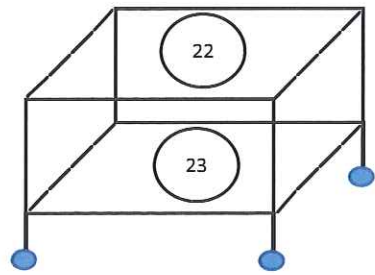
Rad Waste Area



Rad Waste Area

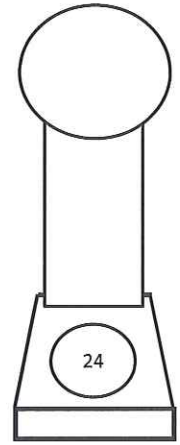


Dolly



Rolling cart

Rad Waste Area
Objects



Scale

**Survey Unit 7 Final Status Survey
Radioactive Waste Storage**

Attachment MM

**RSA Laboratories
A Division of Radiation Safety Associates
Radiochemistry Analysis Data Sheet**

Page 1 of 1

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**

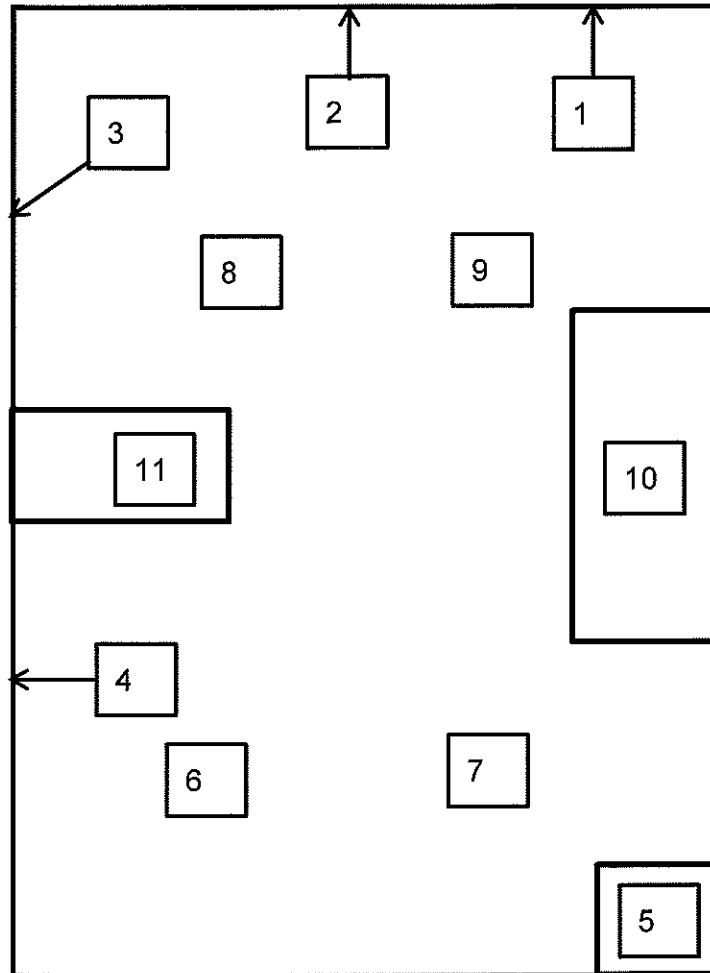
Date Counted: **5/11/2011**

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

**Survey Unit 7 Final Status Survey
Radioactive Waste Storage**

Attachment MM

Chemtura Corporation, Middlebury, CT
Direct Measurements -- Radwaste Area
Date: 8/5/2008

Floor, Walls, Shelves

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 as rad waste

Post Decon

#	Location	Gross Beta (2 min. count)	Gross Beta cpm	Beta dpm/100 cm sq	Decon Factor
6	floor - front left	1797	898.5	1419	0.88
7	floor - front right	1759	879.5	1324	1.96
8	floor - rear left	2042	1021	2033	1.45
9	floor - rear right	1537	768.5	768	1.8
10	flatbed handtruck	Disposed			

NOTE

The bulk of the radioactive waste was shipped in a sea-van carried on a flatbed trailer on April 21, 2011. The second, much smaller shipment was picked up on the broker's periodic trip through the area on May 24, 2011.

Estimated burden per response to comply with this information collection request is 3.3 hours. This uniform manifest is required by NRC to meet reporting requirements of Federal and State Agencies for the safe transportation, and disposal of low-level waste. Send comments regarding burden estimate to the Records and Regulatory Services Branch (7-372), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by Internet e-mail to: info@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NRC (702), (716-0-165), Office of Management and Budget, Washington, DC 20503. If a burden is imposed by this information collection does not display a current valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, this information collection.

NRC Form 541 (8-2010)

U.S. NUCLEAR REGULATORY COMMISSION
UNIFORM LOW-LEVEL RADIOACTIVE
WASTE MANIFEST
CONTAINER AND WASTE DESCRIPTION

Additional Nuclear Regulatory Commission (NRC) Requirements for Control, Transfer and Disposal of Radioactive Waste

1. MANIFEST TOTALS		SPECIAL NUCLEAR MATERIAL (Grams)				2. MANIFEST NUMBER	
NUMBER OF PACKAGES/CONTAINERS	NET WASTE VOLUME	NET WASTE WEIGHT	U-233	U-235	Pu	TOTAL	1. SHIPPER NAME
1	29.45008 m ³	3824.91482 kg	NP	NP	NP	NP	Chemtura Corporation
ALL NUCLIDES		6373.78000000	NP	NP	NP	NP	SHIPPER'S ID NUMBER
H ₂ O		327.08000000	NP	NP	NP	NP	1346-042011TX
HCl		172.28400000	NP	NP	NP	NP	

5. CONTAINER IDENTIFICATION NUMBER PERMIT NUMBER	6. CONTAINER DESCRIPTION (See Note 1)	7. VOLUME m ³	8. WASTE AND CONTAINER WEIGHT kg	9. SURFACE RADIATION LEVEL mSv/hr	10. SURFACE CONTAMINATION			11. WASTE DESCRIPTION (See Note 2)	12. PHYSICAL DESCRIPTION			13. CHEMICAL DESCRIPTION	14. CHEMICAL DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER	15. RADIOLOGICAL DESCRIPTION	16. WASTE CLASSIFICATION	
					ALPHA	BETA	GAMMA		APPROXIMATE WASTE VOLUME IN CONTAINER	SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)	CHEMICAL FORM CHELATING AGENT					WEIGHT % CHELATING AGENT (F-2-S1's)
20 SEAVAN EL	Chemtura Corporation 189 Benson Road Middlebury, CT 05750	29.45008	3824.91482	< 0.005	< 0.00003874	< 0.00003874	< 220	40	29.45008	100	SOLID METAL OXIDES / NP	NP	C-14 Cl-36 Cs-137 H-3 Salt Total	5597.47000000 8.51000000 43.70000000 327.08000000 6373.78000000	162.09400000 0.23000000 1.10000000 8.44000000 172.28400000	AU
Slipstream Total		29.45008	3824.91482													
		1040.0000	8553.0000													

NOTE 1: Container description codes. For container volume measured once must be followed by "Q1".

NOTE 2: Waste Description Codes. (Choose up to three which predominate by volume)

NOTE 3: Specific Solidification and Stabilization Media Codes. Choose up to three which predominate by volume. For multi-media waste, list each media and its volume. For all solidification media, the media and final waste must also be identified by Item 15, Code 1 (Radioactive Identifier)

NOTE 4: Specific Chelating and Weight % Chelating Agent Codes. Choose up to three which predominate by weight. For multi-chelating agent waste, list each agent and its weight. For all chelating agents, the agent and final waste must also be identified by Item 15, Code 1 (Radioactive Identifier)

NOTE 5: Specific Radioisotope and Activity Codes. Choose up to three which predominate by activity. For multi-isotope waste, list each isotope and its activity. For all radioisotopes, the isotope and final waste must also be identified by Item 15, Code 1 (Radioactive Identifier)

NOTE 6: Specific Waste Type Codes. Choose up to three which predominate by waste type. For multi-type waste, list each type and its volume. For all waste types, the type and final waste must also be identified by Item 15, Code 1 (Radioactive Identifier)

NRC Form 541 (8-2010) - Indicates Cross Contamination

Estimated burden per response to comply with this information collection request: 45 minutes. This uniform manifest is required by NRC to meet reporting requirements of Federal and State Agencies for the safe transportation and disposal of low-level waste. Send comments regarding burden estimate to the Records and FOIA/Privacy Service Branch, (7-5-ES), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by Internet e-mail to indocoll@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, (302B-1022), (352-0155), Office of Management and Budget, Washington, DC 20503. If a manifest used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

NRC FORM 542 (8-2010) U.S. NUCLEAR REGULATORY COMMISSION

UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST

MANIFEST INDEX AND REGIONAL COMPACT TABULATION

List all original "PROCESSED WASTE" generators (if any) before "COLLECTED WASTE" generators

1. WASTE COLLECTOR/PROCESSOR

NAME: **Phibosolics & Chemtura Corporation**
 IDENTIFICATION NUMBER: **TTW024-11**
 SHIPPING DATE: **04/26/2011**

2. MANIFEST NUMBER 1385-0426X1TX

3. AS PROCESSED/COLLECTED TOTAL

4. S.C. TRANSPORT PERMIT NUMBER

5. GENERATOR NAME AND TELEPHONE NUMBER

6. GENERATOR FACILITY ADDRESS

7. WASTE DESCRIPTION (NORMENCLATURE)

8. PREPROCESSED WASTE (OR MATERIAL) VOLUME

9. MANIFEST NUMBER (UNLESS WITH MATERIAL ANNOTATED BY RECEIPT)

10. WASTE CODE

11. ORIGINATING STATE

12. A. SOURCE MATERIAL

13. B. SNM

14. C. ACTIVITY

15. D. VOLUME

16. E. WEIGHT

17. F. MAXIMUM PACKAGE LEVEL

TOTALS OF ALL PAGES (FORMS 542 AND 542A)

N/A

Estimated burden per response to comply with this information collection request is 45 minutes. This uniform manifest is required by EPA to meet reporting requirements of Federal and State Agencies for the safe transportation and disposal of hazardous waste. Send an inquiry regarding burden estimate to the Records and Policy/Privacy Services Branch, (7-5759), U.S. Nuclear Regulatory Commission, Washington, DC 20542. If it means used to impose an information collection duty not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

NRC FORM 540 (8-2010) UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER		U.S. NUCLEAR REGULATORY COMMISSION	
1. EMERGENCY TELEPHONE NUMBER (include Area Code) 800-424-8900 CHEMTRAC		5. SHIPPER - NAME AND FACILITY Pharmaceuticals @ Chemtura Corporation 139 Benson Road Middlebury, CT 06840	
2. IS THIS AN "EXCLUSIVE USE" SHIPMENT? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		3. TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST 3	
4. DOES EPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT? If "Yes", provide Manifest Number:		EPA MANIFEST NUMBER N/A	
11. U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION (Including proper shipping name, hazard class, UN ID number, and any additional information)		12. DOT LABEL "RADIOACTIVE"	
Non-Radioactive per DOT METAL 1 - 55 GALLON DRUM		NA	
Non-Radioactive per DOT ASBESTOS (NON-FRIVOL) : DAW: METAL 1 - 55 GALLON DRUM		NA	
Non-Radioactive per DOT METAL 1 - SUPERSACK		NA	
13. TRANSPORT INDEX		14. SOLIDMETAL OXIDES C-14	
15. INDIVIDUAL RADIOISOTOPES		16. TOTAL PACKAGE ACTIVITY MBI : MCI	
17. ILS/SCO CLASS (Use appropriate unit)		18. TOTAL WEIGHT OR VOLUME 7.50 # 133.00000 lb	
19. IDENTIFICATION NUMBER OF PACKAGE		20. GENERATOR Certification Statement I, <u>JAYANTA K. NATG</u> , <u>FR</u> (Print Name) <u>Signature</u> <u>5/24/2011</u> (Date) certify that this shipment of low-level radioactive waste, as described in accordance with the applicable regulations, has been prepared in accordance with the applicable requirements of the Nuclear Regulatory Commission or an Agreement State regulatory agency.	

051

Estimated burden per response to comply with this information collection request: 25 minutes. This uniform manifest is required by NRC to meet reporting requirements of Federal and State Agencies for the safe transportation and disposal of low-level waste. Send comments regarding this information collection request to the Paperwork Project Manager, Office of Management and Budget, Washington, DC 20503. If a manifest is used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

NRC FORM 542 (2-2010)

U.S. NUCLEAR REGULATORY COMMISSION

UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST

WASTE MANIFEST INDEX AND REGIONAL COMPACT TABULATION

List all original "PROCESSED WASTE" generators (if any) before "COLLECTED WASTE" generators

WASTE COLLECTOR/PROCESSOR

NAME: Fibrotechics @ Chemtura Corporation
 IDENTIFICATION NUMBER: T7N0244111
 SHIPPING DATE: 05/24/2011

SHIPPER USE ONLY

MANIFEST NUMBER: 1345-0524111X

PAGE 1 OF 1 PAGE(S)

4. S.C. TRANSPORT PERMIT NUMBER	5. GENERATOR NAME AND TELEPHONE NUMBER	6. GENERATOR FACILITY ADDRESS	9A. WASTE DESCRIPTION (NONSPECIFIC)	7. PREPROCESSED WASTE (OR MATERIAL) VOLUME	8. MANIFEST NUMBER WHICH WASTE OR MATERIAL IS REFERRED TO	9. WASTE CODE	10. ORIGINATING REGIONAL COMPACT NUMBER	11. A. SOURCE MATERIAL (kg)	B. SNM (lb)	C. ACTIVITY (MBq)	D. VOLUME (m ³)	E. WEIGHT (lb)	F. MAXIMUM PACKAGE LEVEL						
	Chemtura Corporation (860) 426-5268	188 Benson Road Middlebury, CT 06740	ASBESTOS (NON-SPECIFIC) Compactable Tash DAW	1.4419 m ³	0517201H	C	CT	NP	NP	33.1	1.4419 m ³	51.0000	262.0000	<LS					
TOTALS OF ALL PAGES (FORMS 542 AND 542A)											NP	NP	NP	33,200,000,000	0,500,000,000	1,441.9	51,000.0	262,000.0	N/A

Hood Information¹

Room	Hood Designation	Width (feet)	Survey Unit	Attachment	Completely ² Disposed (X) ³	Comments
1201	76	6	3	II	X	Transite [®] -lined
1201	78	6	3	II		Transite [®] -lined
1202	A	8	3	II		Fiberglass hood.
1202	B	6	3	II	X	Transite [®] -lined
1202	C	6	3	II		Transite [®] -lined
1203	65	6	3	II		Transite [®] -lined
1203	68	6	3	II		Transite [®] -lined
1204	53	6	3	II	X	Transite [®] -lined
1204	62	6	3	II	X	Transite [®] -lined
1205	50	8	3	II	X	Transite [®] -lined
1206	48	6	5	KK	X	Transite [®] -lined
1206	51	6	5	KK	X	Transite [®] -lined
1207	39	6	4	JJ	X	Transite [®] -lined
1207	45	6	4	JJ	X	Transite [®] -lined
1208	41	6	5	KK	X	Transite [®] -lined
1209	35	8	5	KK	X	Transite [®] -lined
1210	33	8	5	KK		Transite [®] -lined
1215	2A	6	1	GG		Stainless steel laminar flow hood. One small piece was disposed as rad waste—unable to be decontaminated.
1215	2	8	1	GG		Transite [®] -lined
1216	4	8	1	GG		Transite [®] -lined
1217	6	8	1	GG		Transite [®] -lined
1218	8	8	1	GG		Transite [®] -lined
1220	04	4	2	HH		Plexiglas [®] hood.
1221	17	8	2	HH		Transite [®] -lined
1222	20	8	2	HH		Transite [®] -lined
1222	20A	6	2	HH		Transite [®] -lined
1223	26	6	2	HH		Transite [®] -lined
1223	24	6	2	HH		Transite [®] -lined
1224	28	8	2	HH		Transite [®] -lined

¹ There were twenty-nine hoods total.

² Most hoods had one or more of the easily removable flow director panels, side panels or metal lattice screen disposed as radioactive waste, even the ones not completely disassembled and disposed. Any removed Transite panels that met the release criteria were disposed as asbestos waste by a licensed asbestos contractor.

³ Eleven (11) Transite[®]-lined hoods were completely taken apart and the Transite disposed as radioactive waste.

NOTE

Even though the HSA indicated that only ^{14}C had been used at this facility, seven small vials containing solutions of ^3H (8.84mCi total) and one containing a solution ^{36}Cl (0.225mCi) were stored in the building but never used for any experiment or for any other purpose. These were initially stored in a freezer in Room 1206 (Survey Unit 5) and later moved to a freezer in Room 1207 (Survey Unit 4). They were finally placed in a container in the Radioactive Waste Room (Survey Unit 7) and were disposed as part of this project. As a precautionary measure, a number of wipes from Rooms 1206, 1207 and the Radioactive Waste Room were recounted using a protocol that looked for both ^3H ($E_{\text{max}} = 18.6\text{keV}$) and for any isotope with E_{max} greater than ^{14}C 's 156keV (i.e., 709.55keV for ^{36}Cl). No ^3H or ^{36}Cl were detected. The following pages provide documentation of these re-counts.

RSA Laboratories
 A Division of Radiation Safety Associates
Radiochemistry Analysis Data Sheet

Page 1 of 2

Report No. N/A

Customer: Chemtura

Customer Samp No. N/A

Location: Survey Unit 4 (Rm 1207)

RSA Lab Sample No. N/A

Project: Lab Decommissioning

Date Collected: 5/3/2011

Samp. Description: FS Wipes

Date Counted: 6/17/2011

Matrix: Wipes

C-14 LLD dpm= 39.94

RSA ID#	CUST. ID#	Location	H-3 cpm	dpm/100 cm sq	C-14 cpm	dpm/100 cm sq	CI-36 cpm	dpm/100 cm sq
BG		BACKGROUND	7.50		16.80		12.10	
1	1	Room 1207 Wall	8.31	18	11.49	10.10	0.00	0.00
2	2	Room 1207 Countertop	12.14	44.74	0.00	19.10	0.00	0.00
3	3	Room 1207 Shelf	36.43	46.99	79.20	71.40	4.90	4.90
4	4	Room 1207 Wall	17.25	36.70	24.83	9.80	0.00	0.00
5	5	Drawer 224	45.37	107.86	65.87	61.50	0.00	0.00
6	6	Drawer 268	22.37	13.19	61.76	49.60	3.90	3.90
7	7	Drawer 265	13.42	3.28	40.22	30.90	5.90	5.90
8	8	Drawer 245	18.53	32.54	33.04	47.60	0.00	0.00
9	9	Drawer 240	15.98	36.89	20.72	14.40	0.00	0.00
10	10	Drawer 299	14.70	31.30	21.75	14.80	0.00	0.00
11	11	Drawer 292	3.20	0	17.65	25.60	1.90	1.90
12	12	Drawer 282	14.70	38.82	14.57	13.70	0.00	0.00
13	13	Drawer 307	5.75	9.78	10.46	15.50	0.00	0.00
14	14	Drawer 321	7.03	19.09	6.36	12.90	0.00	0.00
15	15	Room 1207 Wall	0.00	0.00	0.21	4.90	0.00	0.00

Chemtura Middlebury

Radiochemistry Analysis Data Sheet

Page 2 of 2

Report No. N/A
Customer Samp No. N/A

Customer: Chemtura
Location: Survey Unit 4 (Rm 1207)

RSA ID#	CUST. ID#	Location	H-3 cpm	dpm/100 cm sq	C-14 cpm	dpm/100 cm sq	CI-36 cpm	dpm/100 cm sq
16	16	Room 1207 FS Gridpoint 1	12.14	25.65	17.65	3.90	0.00	0.00
17	17	Room 1207 FS Gridpoint 2	13.42	28.50	19.70	18.50	0.00	0.00
18	18	Room 1207 FS Gridpoint 3	12.14	29.76	14.57	26.50	0.90	0.90
19	19	Room 1207 FS Gridpoint 4	10.86	26.40	13.54	14.50	0.00	0.00
20	20	Room 1207 FS Gridpoint 5	9.59	7.49	24.83	8.10	0.00	0.00
21	21	Room 1207 FS Gridpoint 6	10.86	11.15	25.85	14.30	3.90	3.90
22	22	Room 1207 FS Gridpoint 7	23.64	43.88	40.22	44.00	1.90	1.90
23	23	Room 1207 FS Gridpoint 8	5.75	0.00	20.72	14.60	0.00	0.00
C-14	24	QC C-14	33704.10	147607.00	689.65	124202.70	0.00	0.00
24	25	Room 1207 FS Gridpoint 9	19.81	38.55	32.10	13.40	0.00	0.00
25	26	Room 1207 FS Gridpoint 10	12.14	36.14	8.41	17.40	0.00	0.00
26	27	Room 1207 FS Gridpoint 11	12.14	24.35	18.67	34.60	0.00	0.00
27	28	Room 1207 FS Gridpoint 12	5.75	0.00	40.22	25.70	0.00	0.00
28	29	Room 1207 FS Gridpoint 14	8.31	12.31	16.62	2.30	0.00	0.00
29	30	Room 1207 FS Gridpoint 15	8.31	7.48	20.72	23.00	0.00	0.00
30	31	Room 1207 FS Gridpoint 16	15.98	29.98	21.50	26.88	6.90	6.90
31	32	Room 1207 FS Gridpoint 17	15.98	41.17	16.70	17.65	0.00	0.00
32	33	Room 1207 FS Gridpoint 18	0.00	0.00	1.50	18.67	0.00	0.00

Jay R. Dockendorff
Laboratory Director

RSA Laboratories
 A Division of Radiation Safety Associates
Radiochemistry Analysis Data Sheet

Page 1 of 2

Report No. **N/A**

Customer: **Chemtura**

Customer Samp No. **N/A**

Location: **Survey Unit 5 (Rm 1206)**

RSA Lab Sample No. **N/A**

Project: **Lab Decommissioning**

Date Collected: **5/3/2011**

Samp. Description: **FS Wipes**

Date Counted: **6/17/2011**

Matrix: **Wipes**

C-14 LLD dpm= 39.35

RSA ID#	CUST. ID#	Location	H-3 cpm	dpm/100 cm sq	C-14 cpm	dpm/100 cm sq	CI-36 cpm	dpm/100 cm sq
BG		BACKGROUND	7.50		16.80		12.10	
1		Room 1206 Hood Counter	0.64	0.00	3.28	4.55	0.00	0.00
2		Room 1206 Hood Counter	5.75	8.55	11.49	15.88	0.00	0.00
3		Room 1206 Wall	4.47	10.59	5.34	7.24	0.90	0.90
4		Room 1206 Wall	0.00	0.00	0.00	0.00	0.00	0.00
5		Room 1206 Cabinet Shelf	21.09	32.54	41.24	57.16	0.00	0.00
6		Room 1206 Shelf	0.00	0.00	7.39	10.26	0.00	0.00
7		Room 1206 Countertop	10.86	30.30	9.44	12.82	0.00	0.00
8		Room 1206 Wall	1.92	0.00	11.49	15.86	0.00	0.00
9		Room 1206 FS Gridpoint 2	0.00	0.00	8.41	11.66	0.00	0.00
10		Room 1206 FS Gridpoint 3	0.00	0.00	7.39	10.32	0.00	0.00
11		Room 1206 FS Gridpoint 4	1.92	1.06	5.34	7.39	0.90	0.90
12		Room 1206 FS Gridpoint 5	0.64	0.00	6.36	8.93	0.00	0.00
13		Room 1206 FS Gridpoint 6	5.75	15.80	5.34	7.28	0.00	0.00

Radiochemistry Analysis Data Sheet

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Report No. N/A

Customer: Chemtura

Customer Samp No. N/A

Location: Survey Unit 5 (Rm 1206)

RSA ID#	CUST. ID#	Location	H-3 cpm	dpm/100 cm sq	C-14 cpm	dpm/100 cm sq	Cl-36 cpm	dpm/100 cm sq
14		QC C-14	28994.50	3315.34	86858.30	123924.00	61.90	61.90
15		Room 1206 Floor	10.86	21.80	16.62	22.72	0.00	0.00
16		Room 1206 Drawer 123	0.00	0.00	10.46	14.95	0.00	0.00
17		Room 1206 Drawer 214	0.00	0.00	16.62	23.45	0.00	0.00
18		Room 1206 Drawer 171	5.75	14.50	6.36	8.69	0.00	0.00

RSA Laboratories
 A Division of Radiation Safety Associates
Radiochemistry Analysis Data Sheet

Page 1 of 2

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: **6/17/2011**

Matrix: **Wipes**

C-14 LLD dpm= 42.10

RSA ID#	CUST. ID#	Location	H-3 cpm	dpm/100 cm sq	C-14 cpm	dpm/100 cm sq	CI-36 cpm	dpm/100 cm sq
	BG	BACKGROUND	7.50		16.80		12.10	
1		Survey Unit Point 1	0.64	0	6.36	8.78	8.90	8.90
2		Survey Unit Point 2	4.47	10.68	5.34	7.26	1.90	1.90
3		Survey Unit Point 3	0.00	0.00	4.31	5.99	0.00	0.00
4		Survey Unit Point 4	8.31	26.77	4.31	5.78	0.00	0.00
5		Survey Unit Point 5	1.92	0.00	7.39	10.30	0.90	0.90
6		Survey Unit Point 6	5.75	15.54	5.34	7.24	0.00	0.00
7		Survey Unit Point 7	4.47	15.64	1.23	1.59	0.00	0.00
8		Survey Unit Point 8	3.20	2.40	8.41	11.58	0.00	0.00
9		Survey Unit Point 9	3.20	11.70	0.21	0.20	0.90	0.90
10		Survey Unit Point 10	3.20	0.00	11.49	16.03	0.00	0.00
QC		QC Blank	0.00	0	7.39	10.32	0.00	0.00
11		Survey Unit Point 11	4.47	0.00	17.65	24.38	0.00	0.00
12		Survey Unit Point 12	0.64	0.00	6.36	8.95	0.00	0.00
13		Survey Unit Point 13	0.64	0.00	5.34	7.40	0.00	0.00
14		Survey Unit Point 14	4.47	17.51	0.00	0.00	0.00	0.00

Radiochemistry Analysis Data Sheet

Page 2 of 2

Report No. N/A

Customer: Chemtura

Customer Samp No. N/A

Location: Survey Unit 7 (Rad Waste)

RSA ID#	CUST. ID#	Location	H-3 cpm	dpm/100 cm sq	C-14 cpm	dpm/100 cm sq	Cl-36 cpm	dpm/100 cm sq
15		Survey Unit Point 15	0.00	0.00	2.26	3.17	0.00	0.00
16		Survey Unit Point 16	0.00	0.00	5.34	7.47	0.00	0.00
17		Dolly 1	1.92	4.79	2.26	3.11	0.00	0.00
18		Dolly 2	0.64	2.28	0.21	0.27	0.00	0.00
19		Shelf 1	1.92	2.27	4.31	6.03	0.00	0.00
20		Shelf 2	5.75	15.30	6.36	8.84	0.00	0.00
21		Shelf 3	5.75	19.45	4.31	6.04	0.00	0.00
22		Rolling Table 1	0.00	0.00	0.00	0.00	0.00	0.00
23		Rolling Table 2	0.00	0.00	8.41	11.75	0.00	0.00