

**Half-life  $\geq$  60 day - Dispose via Licensed Broker**  
**Dry Solid Material**  
**Container Type: Rolling Bin - cubic meter**

Barrel No: BB # 5 in A033b  
 Date Started: 3/10/2017  
 Date Closed: 3/30/2017  
 10 x maximum T 1/2: #REF!  
 Estimated Disposal Date: #REF!

Disposal Survey:  
 Instrument: Ludlum GM  
 MN:  
 SN:  
 Cal Date:  
 Elapsed days @ disposal:  
 Disposal Date:

Line #	Date In	RN	Origin	Authorized User	Waste Desc	Form	Tag ID	Volume (ft3)	Activity (uCi)	mR/hr @ contact at collection	mR/hr @ contact at disposal	pkg mR/hr
1	3/10/2017	I-125	B048	Pulakat	bag	contam Pb (lead	3/10/17-1	0.09	1	0.2		
2	3/10/2017	I-125	B048	Pulakat	5 gallon pail	DSM	3/10/17-2	0.8	17	0.2		
3	3/10/2017	C-14	F031	Rector	5 gallon pail	DSM	3/10/17-3	0.8	0.1	0.02		
4	3/17/2017	I-125	F014	Hoffman	5 gallon pail	DSM	3/17/17-1	0.8	3	0.2		
5	3/27/2017	C-14	F031	Rector	5 gallon pail	DSM	3/27/17-1	0.8	65	0.02		
6	3/29/2017	H-3	A033b	RSO	CSR plastic bag	DSM - PPG	3/29/17-3	1	0.1	0.02		
7		C-14	A033b	RSO	CSR plastic bag	DSM - PPG			0.1	0.02		
8	3/30/2017	C-14	F031	Rector	5 gallon pail	DSM	3/30/17-1	0.8	0.1	0.02		
9	3/30/2017	C-14	F031	Rector	5 gallon pail	DSM	3/30/17-2	0.8	0.1	0.02		
10												
11												
12												
13												
14												
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17												
18												
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20												
21												
22												
23												
24												
25												
26												
27												
28												

DSM-PPG = dry solid material, paper plastic, glass

Surveyor Name: \_\_\_\_\_  
 Survey Date: \_\_\_\_\_

Surveyor Signature: \_\_\_\_\_

**Half-life ≥ 60 day Pending Disposal via Licensed Broker**  
**Dry Solid Material**  
**Container Type: Plastic Pail, 5 gallon and other various**

Location in A033b	Date In	RN	Origin	Authorized User	Waste Desc	Form	Tag ID	Volume (ft3)	Activity (uci)
BB Holding A	5/24/2016	I-125	A052	Lever	5 gallon pail	DSM - PPG	5/24/16-1	0.7	0.1
BB Holding A					5 gallon pail	DSM - PPG	10/27/16-1	0.8	
	3/2/2015	I-125	2015-01	Quinn					2
	6/29/2015	I-125	2015-16	Pulakat					2
	7/17/2015	I-125	2015-20	Lewis					28.6
	8/31/2015	I-125	2015-34	Lever					143
	8/31/2015	I-125	2015-35	Lever inv #4785			Solidified for disposal via waste broker		610
	8/31/2015	I-125	2015-36	Lever inv #4830					10
	4/19/2016	I-125	2016-18	Lewis					
BB Holding A	10/27/2016	C-14	B050	RSO	5 gallon pail	DSM - PPG	10/27/16-6	0.7	1
		H-3							1
		Eu-152							1
BB Holding A					5 gallon pail	DSM - PPG	10/27/16-2	0.8	
	5/15/2015	Lu-177m	2015-12	Quinn/Deutscher			Solidified for disposal via waste broker		7.56
	7/6/2015	Lu-177m	2015-19	Quinn					9.46
	3/4/2016	Lu-177m	2016-05	Hoffman					23.34
	8/4/2015	Ga-68	F004	Hoffman	bag	PPG-DSM	8/4/15-1		0.04
BB Holding A Pail #1									
BB Holding A Pail #1	1/20/2015	Lu-177m	A029	Hoffman	bag		1/16/15-Lu-177		0.01
BB Holding A Pail #1	10/9/2015	Lu-177m		Hoffman	bag		4/6/15-2 (D)		0.01
BB Holding A Pail #1	10/9/2015	Lu-177m		Smith	bag	Stock vial	4/20/15-1 (C.)		0.01
BB Holding A Pail #1	2/16/2016	Th-228		Quinn	bag	PPG-DSM	6/1/15-2 (A)		
BB Holding A Pail #1	8/31/2015	Th-228	F005	Quinn	bag	PPG-DSM	8/31/15-3		
BB Holding A Pail #2	10/19/2016	Th-228	F005	Quinn	bag	PPG-DSM	6/20/16-16		4.00
BB Holding A Pail #2	10/19/2016	Th-228	F005	Quinn	bag	PPG-DSM	6/20/16-17		
BB Holding A	10/9/2015	Th-228		Quinn	sharp	syringe box	3/13/15-1 (B)		
BB Holding A	8/31/2015	Th-228	2015-33	Quinn		DSM	3/10/17-5 Solidified for disposal via waste broke		
	8/18/2016	Th-228	2016-31	Quinn		DSM			
	9/4/2016	Th-228	2016-34	Quinn		DSM			
BB Holding A (A35)	12/28/2016	C-14	F031	Sowers	5 gallon pail	DSM - PPG	A35 12/28/16-2	0.2	500
BB Holding A (A36)	12/28/2016	H-3/C-14	B050	RSO	5 gallon pail	DSM - PPG	A36 12/28/16-3	0.3	0.5
	12/28/2016	H-3/C-14	B050	RSO	5 gallon pail	DSM - PPG	A36 12/28/16-4	0.4	0.5
BB Holding A (A37)	12/28/2016	H-3/C-14	B050	RSO	5 gallon pail	DSM - PPG	A37 12/28/16-5	0.7	1
BB Holding A (A38)	12/28/2016	H-3/C-14	B050	RSO	5 gallon pail	DSM - PPG	A38 12/28/16-6	0.7	1

DSM-PPG = dry solid material, paper plastic, glass

**Half-life > 60 day Pending Disposal via Licensed Broker**  
**Dry Solid Material**  
**Container Type: Plastic Pail, 5 gallon**

Location in A033b	Date In	RN	Origin	Authorized User	Waste Desc	Form	Tag ID	Volume (ft3)	Activity (uCi)	mR/hr @ contact at collection
1	9/4/2016	C-14	F031-F029	Rector	5 gallon pail	DSM - PPG	9/4/16-1	0.7	0.1	0.02
2	9/4/2016	C-14	F031-F029	Rector	5 gallon pail	DSM - PPG	9/4/16-3	0.7	0.1	0.02
3	9/4/2016	C-14	F031-F029	Rector	5 gallon pail	DSM - PPG	9/4/16-4	0.7	0.1	0.02
4	10/3/2016	C-14	F031-F029	Rector	6 gallon pail	DSM - PPG	10/3/16-10	0.8	0.1	0.02
5	10/3/2016	C-14	F031-F029	Rector	6 gallon pail	DSM - PPG	10/3/16-11	0.8	0.1	0.02
6	10/3/2016	C-14	F031-F029	Rector	5 gallon pail	DSM - PPG	10/3/16-12	0.7	0.1	0.02
7	10/3/2016	C-14	F031-F029	Rector	5 gallon pail	DSM - PPG	10/3/16-13	0.7	0.1	0.02
8	10/3/2016	C-14	F031-F029	Rector	5 gallon pail	DSM - PPG	10/3/16-14	0.7	0.1	0.02
	10/3/2016	H-3	F031-F029	Rector	5 gallon pail	DSM - PPG	10/3/16-14		0.1	
10	10/15/2016	C-14	F031-F029	Rector	bagged item	DSM - PPG	10/15/16-5	2	0.001	0.02
	10/15/2016	H-3	F031-F029	Rector	bagged item	DSM - PPG	10/15/16-5		0.001	
11	10/27/2016	C-14	B050	RSO	5 gallon pail	DSM - PPG	10/27/16-4	0.7	10	0.02
12	10/27/2016	C-14	B050	RSO	5 gallon pail	DSM - PPG	10/27/16-5	0.7	10	0.02
13	11/8/2016	C-14	F031-F029	Rector	5 gallon pail	DSM - PPG	11/8/2016-1	0.7	0.1	0.02
14	11/8/2016	C-14	F031-F029	Rector	5 gallon pail	DSM - PPG	11/8/2016-2	0.7	0.1	0.02
15										
	9/4/2016	C-14	2016-32	Rector	8 gallon box	DSM - PPG	10/27/16-3	0.8		
	9/4/2016	C-14	2016-33	Rector			Solidified for disposal via waste broker		221	
	10/15/2016	C-14	2016-37	Rector					31.56	
	10/15/2016	H-3/C-14	2016-38	Rector					50	
									690.7	
BB RES #2	note: not in Holding B, just listed here to keep it on waste list									
	6/20/2016	Lu-177m	F022	Hoffman		yellow box	6/20/16-12	2		
									2	

Sealed source to dispose

Room/ Location	Owner	Isotope	Vendor	Description	DIM	Model	Serial	Activity (uCi)	Calibration Date	Activity (uCi) today
B050d Box 4	RSO	Ba-133	NEN	Rod	12.7cm x 1.2			8.3	7/14/1976	5.60E-01
B050d Box 4	RSO	Ba-133	NEN	Rod	12.7cm x 1.2			0.109	7/15/1976	7.36E-03
B050d Box 1	RSO	Bi-210	NEN	Disk/Button	2.5 cm x 0.2	NEN		0.0199	7/17/1976	0.00E+00
B050d Box 1	RSO	C-14	NEN	Disk/Button	2.5 cm x 0.2	NEN		0.182	7/16/1976	1.81E-01
B050d Box 3	RSO	Cd-109	Dupont	Disk/Button	2.5 cm x 0.2	NES-101S		8.5	7/19/1976	1.83E-09
B050d Box 3	RSO	Co-57	Dupont	Disk/Button	2.5 cm x 0.2	NES-101S		1.18	7/20/1976	3.66E-17
B050d Box 4	RSO	Co-57	Spectrum	Rod	8.5 cm x 1.3	Lot: 61413	14	0.133	7/23/1976	4.16E-18
B050s	RSO	Co-57		Disk/Button	2.5 cm x 0.2			50	8/1/1987	4.50E-11
B050d Box 2	RSO	Co-60	NEN	Disk/Button	2.5 cm x 0.2	NEN		0.93	7/12/1976	4.33E-03
B050d Box 4	RSO	Co-60	NEN	Rod	12.7cm x 1.2			6.9	7/13/1976	3.21E-02
B050s	RES	Cs-137		Well vial	6cm x 1.5		184010	0.11	7/25/1976	4.28E-02
B050d Box 4	RSO	I-125	Spectrum	Rod	8.5 cm x 1.3	Lot: 531313	29	0.197	7/24/1976	4.83E-76
B050s	RES	I-129	Wallac	Rod	6cm x 1.2	57,600 dpm	Lot #208024	0.03	7/27/1976	2.59E-02
B050d Box 3	RSO	Min-54	Dupont	Disk/Button	2.5 cm x 0.2	NES-101S		1.16	7/21/1976	4.96E-15
B050d Box 3	RSO	Na-22	Dupont	Disk/Button	2.5 cm x 0.2	NES-101S		1.1	7/22/1976	2.09E-05
B050d Box 1	RSO	Pm-147	NEN	Disk/Button	2.5 cm x 0.2	NEN		0.111	7/18/1976	2.31E-06

I-125	I-129	Co-60	Ba-133	C-14	Bi-210	Pm-147	Cd-109	Co-57	Mn-54	Na-22	Cs-137	RN
4.83E-76	2.59E-02	3.64E-02	5.67E-01	1.81E-01	0.00E+00	2.31E-06	1.83E-09	4.50E-11	4.96E-15	2.09E-05	4.28E-02	Total (uCi):
4.83E-79	2.59E-05	3.64E-05	5.67E-04	1.81E-04	0.00E+00	2.31E-09	1.83E-12	4.50E-14	4.96E-18	2.09E-08	4.28E-05	Total (mCi):

9.9950328E-01  
9.9950328E-04

IF SHIPPING OFF SITE

Surveyor Name: \_\_\_\_\_

Surveyor Signature: \_\_\_\_\_  
Survey Date: \_\_\_\_\_

