

Radiological Survey Sheet

Job Location PRIZER GROTON CT 06340 Page 1 of 12

Survey Purpose Room DECON 118W W202 Date 5/25/04

Performed by P. KEEFE (Print)  (Sign)

Instrument (Model/S/N)	Packard Tri-Carb S/N 431521	Packard Tri-Carb S/N 431520	Ludlum 2241-2 163603	
Det. (Model/SN)	Internal	Internal	Ludlum 43-68 PR 149613	
Type Rad.	β	β	β	
Cal. Due:	10/24/04	10/24/04	6/25/04	
Check Instruments Used	X		X	

No.	Time	Locations	See attached LSC printout for Total Activity (cpm/100 cm ²)
1.	0730	BACKGROUND	
2.	↓	LAB ENTRANCE DOOR - OUT / IN	
3.		Wall SWIPE - UPPER	
4.		- LOWER	
5.		Wall CABINET #1 - DOORS - OUTSIDE / INSIDE	
6.		- Shelves - UPPER / LOWER	
7.		- INSIDE - LEFT / RIGHT / REAR / BOTTOM	
8.		- OUTSIDE - Bottom	
9.		BENCHTOP UNDER CABINET #1 / Flow Valves	
10.		CABINET - DOORS - OUT / INSIDE	
11.		- shelf	
12.		- INSIDE - LEFT / RIGHT / REAR / Bottom	
13.		Wall CABINET #2 - DOORS - OUTSIDE / INSIDE	
14.		- shelves - Top	
15.		- Mid	
16.		- Bottom	
17.		- INSIDE - LEFT / RIGHT / REAR / Bottom	
18.		0750	- OUTSIDE LEFT / Bottom

Radiological Survey Continuation Sheet

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Date 5/25/04

Room Becon 118W W202

No.	Time	Locations	See attached LSC printout for Total Activity (cpm/100 cm ²)	
19	0750 ↓	BENCHTOP UNDER CABINET #2	Flow Valves	
20		CABINET - DOORS	OUTSIDE/INSIDE	
21			- Shelf	
22			- INSIDE - LEFT	Right REAR Bottom
23			Wall SWIPES	- UPPER
24				- LOWER
25			FAUCET	EYE WASH STATION
26			COUNTER	
27			BASIN - FRONT	REAR
28				- LEFT Right Bottom
29			CABINET UNDER BASIN - DOORS	- OUT/IN
30				- INSIDE - LEFT Right REAR BOT
31				- OUTSIDE - LEFT
32			Wall SWIPES Right	- UPPER
33				- LOWER
34				LEFT - UPPER
35				- LOWER
36			LAB DOOR	- OUT/IN
37			Wall SWIPES	- UPPER
38				- LOWER
39.		WINDOW HEATER SWIPE	- Right	
40			- LEFT	
41		Wall swipe	- upper	
42			- LOWER	
43		Wall SWIPE	- UPPER	
44			- LOWER	
45	0820	Window HEATER SWIPE	- Right	

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Room DECON 118W W202

No.	Time	Locations	See attached LSC printout for Total Activity (cpm/100 cm ²)
46	0820	Window / Heater SWIPE - LEFT	
47		Wall SWIPE - UPPER	
48		- LOWER	
49		Sm Wall CABINET #1 DOORS - OUTSIDE / INSIDE	
50		Shelves - UPPER / LOWER	
51		INSIDE - LEFT / RIGHT / REAR / BOTTOM	
52		OUTSIDE - Right / Bottom	
53		Wall UNDER Wall CABINET #1	
54		BENCHTOP SWIPE	
55		DRAW UNIT - TOP - OUT / IN	
56		- UPPER MID - OUT / IN	
57		- LOWER MID - OUT / IN	
58		- Bottom - OUT / IN	
59		OUTSIDE Right	
60		Sm Wall CABINET #2 - DOORS - OUT / IN	
61		- Shelves - UPPER / LOWER	
62		- INSIDE - LEFT / RIGHT / REAR / BOTTOM	
63		- OUTSIDE - Bottom	
64		Wall UNDER Wall CABINET #2	
65		BENCHTOP SWIPE	
66		DRAW - TOP LEFT - (2) - OUTSIDE / INSIDE	
67		LOWER LEFT - OUT / IN	
68		- Right - UPPER (2) OUTSIDE / INSIDE	
69		LOWER - OUTSIDE / INSIDE	
70		Lg DRAW - UPPER - OUT / IN	
71		- LOWER - OUT / IN	
72	0845	Sm Wall CABINET #3 - DOORS - OUT / IN	

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Room DECON 118W W20Z

No.	Time	Locations	See attached LSC printout for Total Activity (cpm/100 cm ²)
73	0845	Small Wall CABINET # 3 - Shelves - UPPER / LOWER	
74		- INSIDE - LEFT / RIGHT / REAR / BOTTOM	
75		- OUTSIDE - BOTTOM	
76		Wall UNDER CABINET # 3	
77		BENCHTOP SWIPE	
78		DRAWs - TOP - OUTSIDE / INSIDE	
79		- UPPER MID - ↓ ↓	
80		- LOWER MID - ↓ ↓	
81		- BOTTOM - OUTSIDE / INSIDE	
82		Sm Wall CABINET # 4 - DOORS - OUTSIDE / INSIDE	
83	- Shelves - UPPER / LOWER		
84	- INSIDE - LEFT / RIGHT / REAR / BOT		
85	- OUTSIDE - LEFT / BOTTOM		
86	Wall UNDER CABINET		
87	BENCHTOP SWIPE		
88	DRAWs - TOP - OUTSIDE / INSIDE		
89	- UPPER MID - ↓ ↓		
90	- LOWER MID - ↓ ↓		
91	- BOTTOM - OUTSIDE / INSIDE		
92	Wall SWIPES - UPPER		
93	- LOWER		
94	BENCHTOP SWIPE / FAUCET		
95	DRAW ABOVE ALCOVE - OUTSIDE / INSIDE		
96	ALCOVE - LEFT / RIGHT		
97	- REAR / FLOOR		
98	✓	DRAWs - TOP - OUTSIDE / INSIDE	
99	0900	- UPPER MID - OUT / IN	

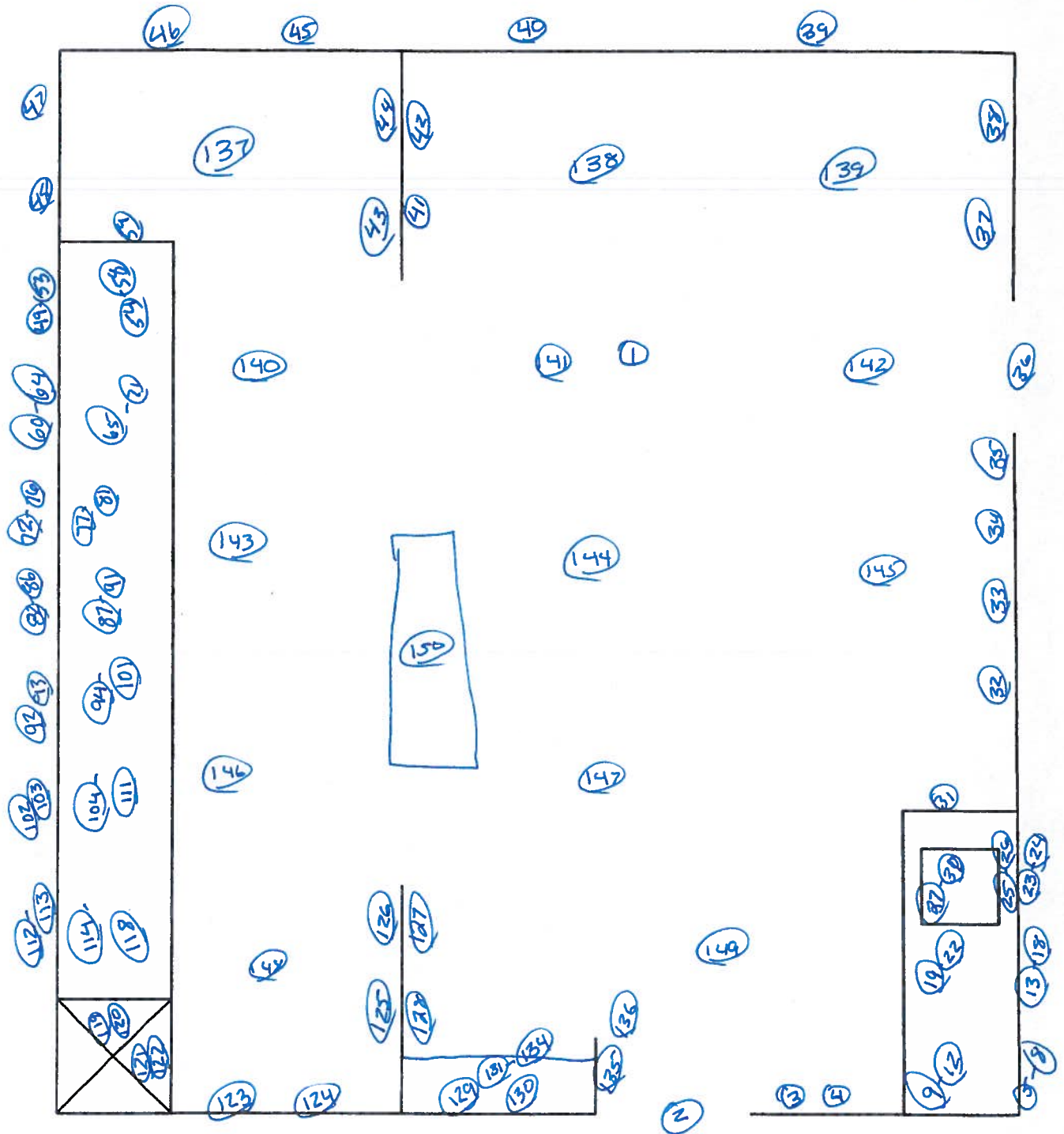
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Room DR20W

No.	Time	Locations	See attached LSC printout for Total Activity (cpm/100 cm ²)
100	0900	DRAWS - LOWER MID - OUTSIDE INSIDE	
101		- Bottom - OUTSIDE INSIDE	
102		Wall - upper	
103		- LOWER	
104		BENCHTOP SWIPE	
105		DRAW ABOVE ALCOVE - OUT IN	
106		ALCOVE - LEFT RIGHT	
107		- REAR FLOOR	
108		DRAWS - TOP - OUT IN	
109		- UPPER MID - ↓ ↓	
110		- LOWER MID - ↓ ↓	
111		- Bottom - OUT IN	
112		Wall SWIPE - UPPER	
113		- LOWER	
114		BENCHTOP SWIPE	
115		DRAWS - SMALL TOP (4) - OUT IN	
116		- TOP Lg - OUT IN	
117		- MID Lg - OUT IN	
118		- Bot Lg - OUT IN	
119		Wall SWIPE - UPPER	
120		- LOWER	
121		Wall SWIPE - UPPER	
122		- LOWER	
123		Wall SWIPE - UPPER	
124		- LOWER	
125	↓	Wall SWIPE - UPPER	
126	0930	- LOWER	



O = WIPE LOCATION

ALL AREAS SURVEYED WITH CUMM 2241-2
AND FOUND TO BE WITHIN LIMITS.

W 6/4/04

Protocol# 9 - Room Decon.lsa

Room Decon 118W W202

User: Pete Keefe

Assay Definition-

Assay Description:

Assay Type: CPM

Report Name: Report1

Output Data Path: C:\Packard\Tricarb\Results\Pete Keefe\Room Decon

Raw Results Path: C:\Packard\Tricarb\Results\Pete Keefe\Room Decon\20040525_1409.results

Assay File Name: C:\Packard\TriCarb\Assays\Room Decon.lsa

Count Conditions-

Nuclide: Triple

Quench Indicator: tSIE/AEC

External Std Terminator (sec): 0.5 2s%

Pre-Count Delay (min): 0.00

Quench Set: n/a

Count Time (min): 1.00

Count Mode: Normal

Assay Count Cycles: 1

Repeat Sample Count: 1

#Vials/Sample: 1

Calculate % Reference: Off

Background Subtract: Off

Low CPM Threshold: Off

2 Sigma % Terminator: Off

Regions	LL	UL
A	0.0	18.6
B	18.6	156.0
C	0.0	2000.0

Count Corrections-

Static Controller: On

Luminescence Correction: On

Colored Samples: n/a

Heterogeneity Monitor: n/a

Coincidence Time (nsec): 18

Delay Before Burst (nsec): 75

Half Life-

Half Life Correction: Off

Regions	Half Life	Units	Reference Date	Reference Time
A				
B				
C				

Cycle 1 Results

S#	CPMA	CPMB	CPMC	MESSAGES	LUM
1	8	6	21		19
2	11	10	25		13
3	15	4	26		11
4	16	8	27		8
5	16	6	31		13
6	17	8	32		8
7	15	4	29		14
8	22	4	34		11
9	15	9	36		12
10	17	9	34		8
11	16	6	29		9
12	11	5	24		13
13	12	5	22		16

Protocol# 9 - Room Decon.lsa

User: Pete Keefe

Room Decon 118W W202

14	8	5	17	27
15	9	4	25	27
16	15	7	27	13
17	12	7	27	19
18	10	7	22	16
19	9	7	26	17
20	12	5	23	30
21	9	10	21	26
22	14	9	30	12
23	9	7	24	17
24	10	6	26	17
25	14	6	29	18
26	20	6	33	8
27	15	6	27	5
28	15	9	33	8
29	12	10	27	13
30	15	3	25	11
31	17	10	36	10
32	10	5	24	18
33	16	10	34	8
34	11	6	23	16
35	12	7	26	14
36	5	11	22	22
37	12	6	28	24
38	6	8	23	19
39	5	9	27	19
40	16	9	30	11
41	7	7	26	29
42	6	6	18	21
43	19	11	39	7
44	13	14	32	4
45	9	7	24	13
46	14	4	21	6
47	11	9	25	10
48	9	14	30	9
49	14	7	24	10
50	17	9	31	8
51	19	12	39	12
52	15	7	27	13
53	9	4	19	20
54	20	7	37	7
55	10	8	23	20
56	11	12	30	12
57	18	10	35	7
58	11	9	22	10
59	16	4	21	14
60	10	8	25	15
61	16	5	36	10
62	14	10	33	8
63	20	12	38	6
64	21	4	34	15
65	12	2	18	19
66	10	7	25	12
67	7	5	27	21
68	19	9	35	7
69	19	7	32	8
70	19	10	37	13
71	9	10	26	19
72	12	6	26	15
73	9	7	20	26
74	9	9	24	11
75	8	10	26	15
76	6	4	15	25

Protocol# 9 - Room Decon.lsa

User: Pete Keefe

Room Decon 118W W202

77	15	9	30	15
78	23	11	42	11
79	29	35	79	6
80	21	10	37	9
81	41	37	83	3
82	17	7	32	15
83	15	6	27	13
84	5	12	24	21
85	12	11	26	9
86	15	9	31	15
87	13	8	29	17
88	19	6	33	11
89	13	11	31	12
90	16	10	33	11
91	12	7	26	19
92	14	9	30	9
93	15	8	33	16
94	13	8	25	13
95	20	9	41	16
96	14	4	25	20
97	13	5	26	27
98	15	6	27	21
99	21	9	39	13
100	14	5	29	26
101	15	5	31	22
102	3	5	22	50
103	11	7	25	29
104	18	5	25	19
105	12	6	24	33
106	8	10	27	15
107	9	8	26	21
108	11	4	21	18
109	15	7	30	13
110	7	7	19	25
111	16	8	35	15
112	14	5	29	19
113	11	6	24	21
114	12	7	26	23
115	19	6	36	18
116	12	7	27	14
117	4	8	16	33
118	15	6	28	17
119	18	5	32	22
120	11	6	25	16
121	18	7	34	15
122	11	8	28	19
123	15	6	34	24
124	9	9	24	20
125	7	2	17	36
126	12	6	26	24
127	17	6	34	16
128	12	10	29	13
129	14	9	27	19
130	20	7	30	17
131	15	12	30	17
132	13	9	30	17
133	14	7	31	17
134	16	4	29	22
135	6	10	19	22
136	12	8	28	22
137	8	6	21	33
138	21	7	36	16
139	21	3	28	19

Protocol# 9 - Room Decon.lsa

User: Pete Keefe

Room Decon 118W W202

140	6	6	20	33
141	10	11	25	17
142	11	9	29	18
143	11	8	26	26
144	10	8	23	20
145	6	12	25	29
146	9	8	21	29
147	21	8	34	18
148	12	5	20	12
149	12	9	30	17
150	8	2	15	33

Protocol# 9 - Room Decon Swipes.lsa

User: Peter Keefe

ReSwipes from W202

Assay Definition-

Assay Description:

Assay Type: CPM
 Report Name: Report1
 Output Data Path: C:\Packard\Tricarb\Results\Peter Keefe\Room Decon Swipes
 Raw Results Path: C:\Packard\Tricarb\Results\Peter Keefe\Room Decon Swipes\20040604_1349.results
 Assay File Name: C:\Packard\TriCarb\Assays\Room Decon Swipes.lsa

Count Conditions-

Nuclide: TRIPLE
 Quench Indicator: tSIE/AEC
 External Std Terminator (sec): 0.5 2s%
 Pre-Count Delay (min): 0.00
 Quench Set: n/a
 Count Time (min): 1.00
 Count Mode: Normal
 Assay Count Cycles: 1 Repeat Sample Count: 1
 #Vials/Sample: 1 Calculate % Reference: Off

Background Subtract: Off
 Low CPM Threshold: Off
 2 Sigma % Terminator: Off

Regions	LL	UL
A	0.0	18.6
B	18.6	156.0
C	0.0	2000.0

Count Corrections-

Static Controller: On Luminescence Correction: On
 Colored Samples: n/a Heterogeneity Monitor: n/a
 Coincidence Time (nsec): 18 Delay Before Burst (nsec): 75

Half Life-

Half Life Correction: Off

Regions	Half Life	Units	Reference Date	Reference Time
A				
B				
C				

Cycle 1 Results

S#	CPMA	CPMB	CPMC	MESSAGES
1	9	9	23	BACKGROUND
2	18	6	32	# 79
3	6	7	22	# 81