


# Radiological Survey Sheet

Job Location PRIZER 118 B B304 Page 1 of 12  
 Survey Purpose LAB DECON Date 1/6/04  
 Performed by PETER 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.	$\beta$	$\beta$	$\beta$	
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 <sup>2</sup> )
1.	1000	BACKGROUND	
2.	↓	ENTRANCE DOOR - OUTSIDE / INSIDE	
3.		CLOCK / FIRE EXTINGUISHER	
4.		WALL SHELVES TOP / MIDDLE / BOTTOM	
5.		shelf supports	
6.		FILE CABINET OUTSIDE / INSIDE	
7.		OVERHEAD CABINET #1 outside / inside	
8.		Shelves - TOP / middle / BOTTOM	
9.		OVERHEAD CABINET #2 outside / inside	
10.		shelves - TOP / middle / BOTTOM	
11.		DESKTOP	
12.		SHELVES	
13.		DESK DRAWERS #1 - #4	
14.		ALCOVE UNDER DESK	
15.		BENCHTOP SWIPES LEFT - BASIN	
16.		middle	
17.		Right - BASIN	
18.		1000	METAL SHELVES ABOVE BENCH / SUPPORTS

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No.	Time	Locations	See attached LSC printout for Total Activity (cpm/100 cm <sup>2</sup> )
19	1000	Electrical STRIP / FLOW VALVES	
20		BENCHTOP DRAWS # 1 - #4 outside / inside	
21		BENCHTOP DRAWS # 5 - #10 outside / inside	
22		sm. DRAWS # 11	
23		ALLOVE UNDER sm. DRAW	
24		BENCHTOP DRAWS # 16 - #19 outside / inside	
25		End of BENCHTOP - LEFT	
26		- middle	
27		- Right	
28		DRAWS # 1 - #4	
29		CABINET - outside - LEFT / Right	
30		Doors - outside / inside	
31		INSIDE CABINET LEFT	
32		REAR	
33		Right	
34		Bottom	
35		shelves	
36		Draw - outside / inside	
37		CABINET - Doors - outside / inside	
38		INSIDE CABINET - LEFT	
39		- REAR	
40		- Right	
41		- Bottom	
42		- shelves	
43		BENCHTOP SWIPES - LEFT	
44	↓	- MIDDLE	
45	1000	- Right	

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No.	Time	Locations	See attached LSC printout for Total Activity (cpm/100 cm <sup>2</sup> )
46	1000	METAL RACKS ABOVE BENCH	SUPPORTS
47		ELECTRICAL STRIP	FLOW VALVES
48		ALCOVE UNDER BENCHTOP	
49		BENCHTOP DRAWS # 1 - #4	- outside   inside
50		ALCOVE UNDER BENCHTOP	sm DRAW #5
51		BENCHTOP DRAWS #6 - #9	
52		DESKTOP SWIPE	
53		shelves	
54		SMALL DRAW #1	
55		DESK DRAWS - right side - #2 - #4	
56		OVERHEAD CABINET #3	outside   inside
57		SHELVES - TOP   MIDDLE   BOTTOM	
58		OVERHEAD CABINET #4	OUTSIDE   inside
59		SHELVES - TOP   MIDDLE   BOTTOM	
60		WALL shelf	ELECTRICAL STRIP
61		WALL shelf	ELECTRICAL STRIP
62		OVERHEAD CABINET #5	OUTSIDE   inside
63		SHELVES - TOP   MIDDLE   BOTTOM	
64		DESKTOP	
65		shelves	
66		DESKTOP DRAWS   LEFT SIDE   #1 - #3	outside   inside
67		SM TOP DRAW #4	
68		ALCOVE under DRAW	
69		BENCHTOP SWIPES - LEFT   BASIN	
70			- middle
71			- right   BASIN
72	1000	METAL shelves ABOVE BENCHTOP	

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No.	Time	Locations	See attached LSC printout for Total Activity (cpm/100 cm <sup>2</sup> )
73	1000 ↓	ELECTRICAL STRIP / FLOW VALVES	
74		BENCHTOP DRAW #1 - #4 - outside / inside	
75		sm DRAW #5	
76		ALCOVE UNDER sm. DRAW	
77		BENCHTOP DRAW #6 - #9 - outside / inside	
78		ALCOVE UNDER BENCH	
79		END OF BENCHTOP - LEFT	
80		- MIDDLE	
81		- Right	
82		END OF BENCHTOP DRAW #1 - #4 outside / inside	
83		STORAGE AREA UNDER BENCH	
84		END OF BENCHTOP DRAW #5 - outside / inside	
85		CABINET DOORS	
86		inside CABINET - LEFT   <sup>RRAR</sup> MID   Right   Bottom	
87		shelf.	
88		BENCHTOP SWIPE - LEFT - BASIN	
89		- middle	
90		- Right - BASIN	
91		METAL shelves above BENCHTOP / supports	
92		ELECTRICAL STRIP / FLOW VALVES	
93		ALCOVE UNDER BENCH	
94		BENCHTOP DRAW #1 - #4 - outside / inside	
95		sm. DRAW #5	
96	ALCOVE UNDER DRAW		
97	BENCHTOP DRAW #6 - #9 - outside / inside		
98	↓ DESKTOP SWIPE		
99	1000	shelves	



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No.	Time	Locations	See attached LSC printout for Total Activity (cpm/100 cm <sup>2</sup> )
100	1000	DESK DRAW (CENTER) #1 - OUTSIDE / INSIDE	
101		ALCOVE UNDER DESK	
102		DESK DRAWS (RIGHT) #2 - #4 - OUTSIDE / INSIDE	
103		OVERHEAD CABINET #6 - OUTSIDE / INSIDE	
104		INSIDE SHELVES	
105		LAB DOOR	
106		WALL SHELVES	
107		SUPPORTS	
108		FLOOR SWIPES	
109		↓            ↓	
110		↓            ↓	
110		FLOOR SWIPES	
112		WALL SHELVES	
113		SUPPORTS	
114		LEFT FILE CABINET OUTSIDE	
115		DRAW #1 - #4 OUTSIDE / INSIDE	
116		RIGHT FILE CABINET OUTSIDE	
117		shelf DRAW #1 - #4	
118		DESKTOP SWIPE LEFT	
119		Right	
120		DESK DRAWS (LEFT) #1 - #3	
121		ALCOVE UNDER DESK	
122		DESK DRAWS (RIGHT) #4 - #5	
123		OFFICE DOOR	
124		FILE CABINET - OUTSIDE / INSIDE	
125	↓	LAB DOOR	
126	1000	BENCH SWIPE - LEFT	

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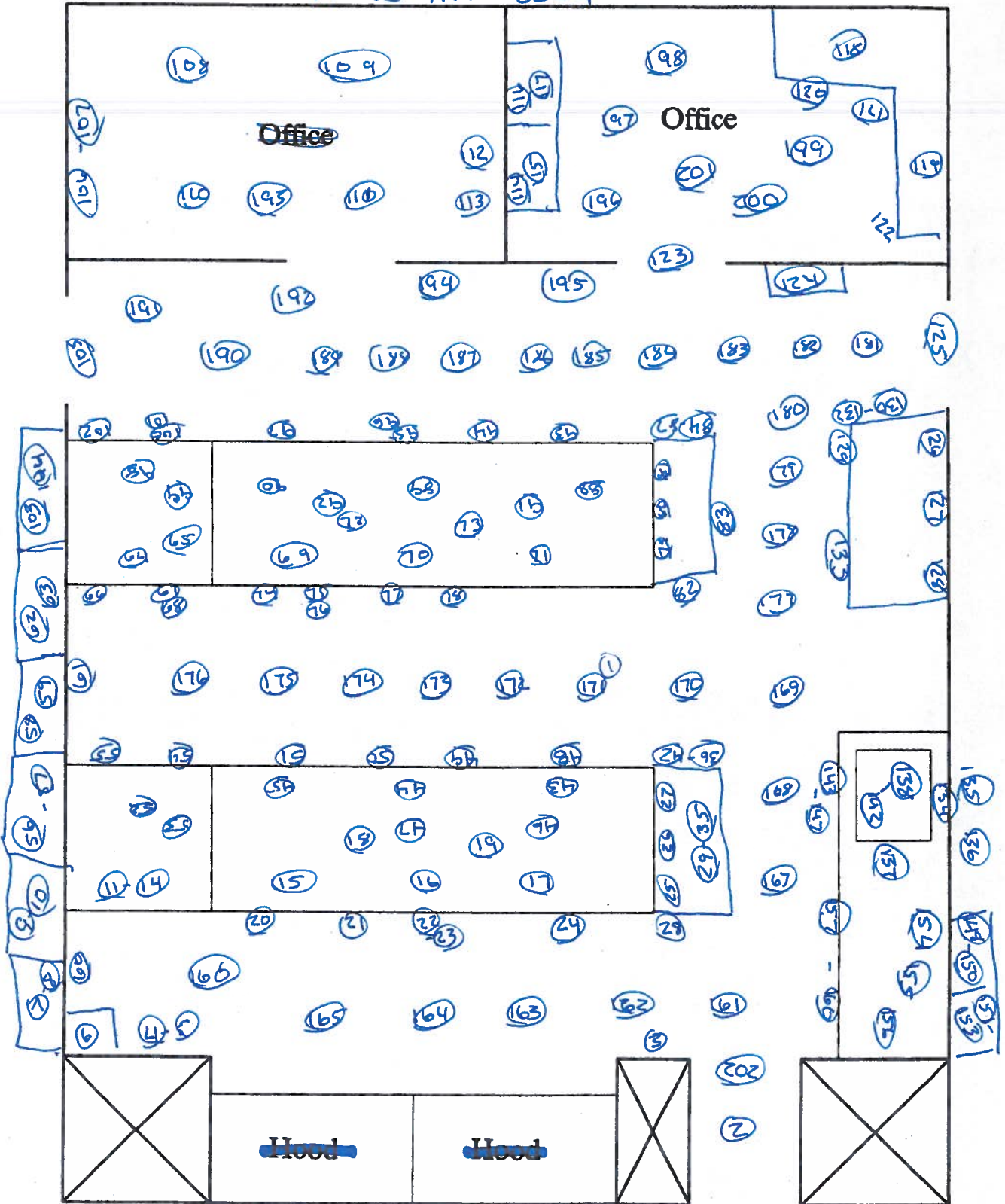
No.	Time	Locations	See attached LSC printout for Total Activity (cpm/100 cm <sup>2</sup> )
127	1000	BENCH SWIDE - middle	
128		- Right	
129		DRAWNS #1 - #2	
130		CABINET DOOR	
131		OUTSIDE - LEFT	
132		INSIDE	
133		BENCHTOP DRAWNS #3 - #6 - outside / inside	
134		FAUCET / EYE WASH STATION	
135		GLASS RACK	
136		MILLIPORE SYSTEM	
137		BENCHTOP SINK AREA	
138		BASIN - REAR	
139		- FRONT	
140		- LEFT	
141		- RIGHT	
142		- DRAW	
143		CABINET DOORS	
144		INSIDE CABINET - LEFT	
145		- REAR	
146		- RIGHT	
147		- BOTTOM	
148		OVERHEAD CABINET #1 DOORS - outside / inside	
149		INSIDE CABINET	
150		Shelves	
151		OVERHEAD CABINET #2 DOORS - outside / inside	
152	↓	INSIDE CABINET	
153	1000	shelves	



# Bld. 118B Room B304

Date: 1/06/04

PRZER 11413 B304



All lower surfaces covered to be within limits usable Cellum 2241-2

O-wipe locations



Protocol# 9 - Room Decon.lsa

Room Decon Swipes 118B B304

User: Peter Keefe

Assay Definition-

Assay Description:  
Rad Room Monthly Swipes

Assay Type: CPM  
Report Name: Report1  
Output Data Path: C:\Packard\Tricarb\Results\Peter Keefe\Room Decon  
Raw Results Path: C:\Packard\Tricarb\Results\Peter Keefe\Room Decon\20040106\_1338.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	12.0	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-

Regions	Half Life	Units	Reference Date	Reference Time
A				
B				
C				

Cycle 1 Results

S#	CPMA	CPMB	CPMC	MESSAGES
1	22	12	38	
2	27	11	38	
3	12	8	26	
4	33	9	48	
5	11	10	27	
6	12	6	24	
7	7	8	23	
8	16	10	30	
9	18	10	28	
10	13	9	22	
11	22	11	35	
12	7	6	17	
13	27	4	36	

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

Protocol# 9 - Room Decon.lsa

Room Decon Swipes 118B B304

User: Peter Keefe

77	15	8	32
78	24	10	41
79	19	13	36
80	0	11	12
81	19	16	40
82	20	6	32
83	18	10	32
84	24	7	31
85	16	6	33
86	14	9	28
87	12	17	31
88	24	13	36
89	21	8	31
90	30	8	39
91	9	8	20
92	19	11	31
93	2	5	15
94	9	15	24
95	15	11	29
96	13	12	30
97	1	11	14
98	20	12	36
99	16	11	28
100	15	11	28
101	12	11	27
102	10	11	29
103	6	12	26
104	13	8	21
105	25	10	36
106	9	19	26
107	30	5	46
108	13	6	23
109	12	12	30
110	22	9	36
111	12	9	24
112	10	6	17
113	12	9	27
114	11	12	29
115	22	6	30
116	16	17	34
117	9	6	21
118	19	11	28
119	14	7	28
120	9	8	20
121	8	5	23
122	17	13	34
123	14	8	26
124	16	10	30
125	15	9	29
126	30	10	49
127	23	9	32
128	11	8	24
129	22	8	36
130	8	11	22
131	19	8	30
132	12	8	21
133	19	11	31
134	20	12	38
135	4	7	18
136	30	14	43
137	21	9	36
138	16	9	27
139	7	8	23

Protocol# 9 - Room Decon.lsa

Room Decon Swipes 118B B304

User: Peter Keefe

140	14	12	33
141	7	9	24
142	23	11	37
143	13	11	28
144	16	9	32
145	17	8	29
146	18	12	32
147	10	6	20
148	8	7	23
149	14	7	20
150	5	13	23
151	14	12	37
152	20	12	30
153	15	10	28
154	17	11	32
155	16	5	27
156	24	11	39
157	14	9	23
158	20	12	37
159	7	8	17
160	12	11	30
161	25	13	39
162	5	5	17
163	6	4	11
164	20	9	31
165	17	8	33
166	10	6	19
167	23	10	34
168	11	10	24
169	2	11	16
170	17	7	25
171	5	9	18
172	14	9	29
173	16	4	26
174	17	15	34
175	3	11	17
176	23	8	33
177	7	7	22
178	13	11	32
179	10	14	24
180	12	11	19
181	14	4	25
182	25	10	43
183	8	6	15
184	8	5	18
185	9	16	29
186	12	10	24
187	11	14	32
188	9	10	26
189	21	7	30
190	16	10	23
191	17	5	29
192	17	17	39
193	4	4	11
194	12	8	23
195	16	5	26
196	18	11	30
197	13	13	32
198	9	13	25
199	5	4	13
200	12	5	22
201	18	11	34
202	4	6	20