

## Radiological Survey Sheet

Job Location PFIZER INC GROTON CT Page 1 of 23

Survey Purpose DECOMMISSIONING 118 / 368 Date 4/24/02

Performed By DAVID DURKA (Print)  (Sign)

Inst.(1) Beckman LS 6500 (Model/SN) #7060743	Inst.(2) Ludlum 2241-2 (Model/SN) #163603	Inst.(3) (Model/SN)
Det. Internal (Model/SN)	Det. Ludlum 43-68 (Model/SN) #149613	Det. (Model/SN)
Eff. See LSC Printout	Eff. 88 C-14	Eff.
Type rad. β	Type rad. B	Type rad.
Bkgd. See LSC Printout	Bkgd. 300 cpm	Bkgd.
Cal. Due: 5/1/02	Cal. Due 4/5/03	Cal. due

No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm <sup>2</sup> )
1.	0800	Sink	1	See attached LSC Printout
2.		COUNTER	1	
3.		Faucet	1	
4.		COUNTER	1	
5.		COUNTER	1	
6.		COUNTER	1	
7.		COUNTER FRONT STAINLESS EDGES	1	
8.		COUNTER FRONT STAINLESS EDGES	1	
9.		CABINET/SHELF & WALL B	1	
10.		" " " M	1	
11.		" FACE / SIDE T	1	
12.		BACK WALL / HOOD OUTSIDE	1	
13.		" " " INSIDE	1	
14.		" " " "	1	
15.		" " " OUTSIDE	1	
16.		" " " "	1	
17.		" " " INSIDE	1	
18.		" " " OUTSIDE	1	

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No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm <sup>2</sup> )
19	8:15	BACK WALL HOOD INSIDE	1	See attached LSC Printout
20		GLASS DOOR/HOOD INSIDE	1	
21		" " " OUTSIDE	1	
22		" " " "	1	
23		" " " INSIDE	1	
24		" " " "	1	
25		" " " OUTSIDE	1	
26		" " " "	1	
27		" " " INSIDE	1	
28		GAS/WATER FAUCETS	1	
29		" " "	1	
30		DOOR/LOWER CABINET OUTSIDE	1	
31		" " " INSIDE	1	
32		" " " "	1	
33		" " " OUTSIDE	1	
34		" " " "	1	
35		" " " INSIDE	1	
36		" " " "	1	
37		" " " OUTSIDE	1	
38		LOWER CABINET INSIDE TOP SHELF	1	
39		" " " BOTTOM "	1	
40		" " " TOP SHELF	1	
41		" " " BOTTOM "	1	
42		" " TRAYS IN SIDE	1	
43		" " RACKS #1	1	
44		" " RACKS #2	1	
45		" " WHITE PLASTIC CONTAINER	1	✓ radwaste
46	↓	" " " GLASS EQUIP	1	↓

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No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm <sup>2</sup> )
47	8:50	LOWER CABINET INSIDE / TOP SHELF <sup>CONTAINER</sup>	1	See attached LSC Printout
48		UPPER CABINET CHASS SIDE <sup>INSIDE</sup> WALL	1	
49		" " " " <sup>OUTSIDE</sup>	1	
50		WALL LOWER	1	
51		" UPPER	1	
52		WALL "	1	
53		" LOWER	1	
54		" "	1	
55		" UPPER	1	
56		DOOR - UPPER	1	
57		DOOR - LOWER	1	
58		" "	1	
59		" UPPER	1	
60		BACK WALL SHELF TOP	1	
61		BACK WALL SHELF: <del>TOP</del> M	1	
62		" " " <del>LOWER</del>	1	
63		" " " <del>LOWER</del> SINK CAP	1	
64		BACK WALL SHELF TOP	1	
65		" " " M	1	
66		" " " LOWER	1	
67		" " " SINK CAP	1	
68		WALL LOWER	1	
69		WALL LOWER	1	
70		DESK TOP	1	
71		" DRAWER T	1	
72		" " B	1	
73		" FRONT	1	
74		BOOK SHELF / METAL TOP	1	



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No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm <sup>2</sup> )
75	9:20	BOOK SHELF / METAL	1	See attached LSC Printout
76		" " "	1	
77		" " "	1	
78		" " "	1	
79		" " "	1	
80		DESK TOP	1	
81		DESK DRAWER TOP INSIDE	1	
82		" " SIDE TOP	1	
83		" " " BOTTOM	1	
84		" " FRONT	1	
85		WALL UPPER	1	
86		" LOWER	1	
87		GLASS DOOR UPPER	1	
88		GLASS " LOWER	1	
89		WALL UPPER	1	
90		" LOWER	1	
91		SINK - MIDDLE SECTION	1	
92		FAUCETS / HANDLES	1	
93		CABINET FRONT (LOWER)	1	
94		" INSIDE (LOWER) SHELF	1	
95		" " DOORS	1	
96		CABINET LOWER DRAWER TOP (L)	1	
97		" " " " R (1)	1	
98		" " " " R (2)	1	
99		" " " "	1	
100		" " " "	1	
101		" " " BOTTOM	1	
102	↓	" " FRONT	1	

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No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm <sup>2</sup> )
103	9:45	CABINET LOWER DRAWER (TOP)	1	See attached LSC Printout
104		" " " TOP (1)	1	
105		" " " " (2)	1	
106		" " " MIDDLE	1	
107		" FRONT	1	
108		" LOWER MIDDLE (ABOVE KNEE) DRAWER	1	
109		" " DRAWER TOP	1	
110		" " DRAWER	1	
111		" " DRAWER	1	
112		" " DRAWER BOTTOM	1	
113		" " DRAWER FRONT/HANDLES	1	
114		" " DRAWER TOP (L)	1	
115		" " " TOP (R)	1	
116		" " SHELF LOWER	1	
117		" " DOORS INSIDE	1	
118		" " " OUTSIDE	1	
119		" " END LOWER	1	
120		SHELF	1	
121		SHELF MIDDLE	1	
122		"	1	
123		SINK CUP (L)	1	
124		" " MIDDLE	1	
125		" " (R)	1	
126		COUNTER TOP (L)	1	
127		COUNTER TOP MIDDLE	1	
128		COUNTER TOP (R)	1	
129		COUNTER " UP EIGHT COLUMNS / SHELVES	1	
130		PAPER - COUNTER TOP	1	

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No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm <sup>2</sup> )
131		PAPER - COUNTER TOPS	1	See attached LSC Printout
132		" "	1	
133		FAUCETS CENTRAL COUNTER (A)	1	
134		" " C	1	
135		" " L	1	
136		CABINET SIDE	1	
137		CABINET SIDE	1	
138		INSIDE SINK	1	
139		FAUCETS	1	
140		BETWEEN SINKS	1	
141		SINK FRONT & DOORS (OUTSIDE)	1	
142		COUNTER SINK BOTTOM INSIDE	1	
143		UNDER SINK - METAL BOX	1	
144		UNDER SINK CAB. DOORS (INSIDE)	1	
145		CABINET DRAWER TOP (SMALL)	1	
146		CABINET DRAWER (SMALL) 2	1	
147		CABINET DRAWER	1	
148		CABINET LARGE	1	
149		CABINET DRAWER - LARGE/BOTTOM	1	
150		CABINET DRAWER (TOP) NEXT TO SM DRAWER	1	
151		" " " SMALL 1	1	
152		" " " SMALL 2	1	
153		" " " TOP NEXT TO SM DRAWERS	1	
154		" " " MEDIUM MIDDLE	1	
155		CABINET DRAWER ABOVE KNEES HOLE	1	
156		" " " FRONT / HANDLES	1	
157		" " " FRONT / HANDLES	1	
158		CABINET DRAWER (TOP)	1	



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No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm <sup>2</sup> )
159	11:55	CABINET LOWER DRAWER 2	1	See attached LSC Printout
160		" " " 3	1	
161		" " " 4	1	
162		" " " BOT 5	1	
163		CABINET " DRAWER FRONT S	1	
164		" " DRAWER TOP R	1	
165		" " " TOP L	1	
166		CABINET " SHELF UPPER	1	
167		" " " LOWER	1	
168		" " " DOORS INSIDE	1	
169		" " " DOORS OUTSIDE / HANDLES	1	
170		ITEMS ON TOP / COUNTER METAL / RODS	1	
171		" " " " PLASTIC CONTAINER	1	✓ waste
172		" " " " CAL BOARD WHITE BOX	1	
173		" " " " GREY BOX	1	
174		" " " " BLACK / GREY ○	1	
175		" " " " PLASTIC TOPS	1	
176		" " " " INSTRUMENT	1	
177		" " " " MAGNETIC INSTRUMENT STIRREL	1	✓ radwaste
178		" " " " METAL RACK	1	
179		SHELF ABOVE CABINET R	1	
180		" " " " C	1	
181		" " " " L	1	
182		DOOR UPPER	1	
183		" LOWER	1	
184		WALL UPPER	1	
185		" LOWER	1	
186		DOOR	1	

DUPLICATES

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No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm <sup>2</sup> )
187		CABINET - LOWER END	1	See attached LSC Printout
188		CABINET - LOWER <sup>SMALL UPPER</sup> DRAWERS ①	1	
189		" " " <sup>SMALL UPPER</sup> ②	1	
190		" " " BELOW	1	
191		" " <sup>SMALL UPPER</sup> DRAWERS 1	1	
192		" " <sup>SMALL UPPER</sup> 2	1	
193		" " " BELOW	1	
194		" " " LARGE	1	
195		" " " LARGE (BOTTOM)	1	
196		" " DRAWER TOP 1	1	
197		" " DRAWER 2	1	
198		" " DRAWER 3	1	
199		" " DRAWER 4	1	
200		" " DRAWER BOTTOM 5	1	
201		SINK CAP (BACK) #1	1	
202		" " " " #2	1	
203		" <sup>WASTE</sup> <del>TRAY</del> (FORWARD)	1	
204		SINK FAUCETS/VACUUM/UIT	1	
205		COUNTOP TOP	1	
206		CABINET OPEN (BOTTOM SHELF)	1	
207		" " TOP	1	
208		MAGNETIC STIRRER RETRIEVER (2)	1	
209		SMALL OPENING BETWEEN <sup>CABINET</sup> HOOD	1	
210		GLASS SIDE HOOD (OUTSIDE)	1	
211		" " " INSIDE	1	
212		SHELF ABOVE COUNTER 1	1	
213		" " COUNTER 2 / TOP	1	
214	↓	" " " MIDDLE ①	1	✓ see # ↓ 339



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No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm <sup>2</sup> )
215	1:15 <sup>PM</sup>	SHelf ABOVE COUNTER (MIDDLE) 2	1	See attached LSC Printout
216		TRASH CAN (INSIDE) LG GREY	1	
217		TRASH CAN " SM BLUE	1	
218		" " OUTSIDE (LG GREY)	1	
219		COUNTER TOP LEFT	1	
220		" " C	1	
221		" " RIGHT	1	
222		" " STAINLESS LEGS	1	
223		GLASS COVER (UPPER) INSIDE 1	1	✓ See # 340
224		" " " " 2	1	
225		" " " " 3	1	
226		" " " " 4	1	
227		GLASS DOORS " OUTSIDE 1	1	✓ See # 341
228		" " " " 2	1	
229		" " " " 3	1	
230		" " " " 4	1	
231		CABINET BELOW HOOD UPPER SHELF L	1	
232		" " " LOWER SHELF L	1	
233		TRAYS IN CABINET TOP SHELF	1	
234		" " " LOWER SHELF	1	
235		CABINET DOORS INSIDE	1	
236		" " OUTSIDE	1	
237		CABINET BELOW HOOD UPPER SHELF R	1	
238		CABINET BELOW HOOD LOWER SHELF R	1	
239		" DOORS INSIDE	1	
<del>240</del> 240		" " OUTSIDE	1	
241		INSIDE HOOD VENT 1	1	✓ See # 343 ; 344
242		" " " 2	1	

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No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm <sup>2</sup> )
243		INSIDE HOOD VENT 3	1	See attached LSC Printout
244		" " " 4	1	
245		FAUCET HANDLES INSIDE HOOD	1	✓ See #342
246		" " " " SINK	1	
247		SINK IN HOOD	1	
248		BACK WALL - HOOD (LOWER) 1	1	
249		" " " " 2	1	
250		" " " " 3	1	
251		" " " " 4	1	
252		SIDE WALL HOOD	1	
253		OUTSIDE PLASTIC CABINET INSIDE HOOD	1	
254		INSIDE " " " "	1	
255		WALL (UPPER)	1	
256		WALL LOWER	1	
257		WALL UPPER	1	
258		WALL LOWER	1	
259		" UPPER	1	
260		FILE CABINET TOP / SIDE	1	
261		FILE CABINET FRONT / HANDLES	1	
262		COUNTER TOP (CENTER ISLAND)	1	
263		" " " "	1	
264		" " " "	1	
265		" " " " ABOVE SINK	1	
266		OFFICE DESK TOP	1	
267		" DRAWERS OUTSIDE	1	
268		DESK TOP	1	
269		DESK FRONT	1	
270	↓	BOOK CASE	1	↓



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No. Time	Time No.	Location	Inst. Used	Total Activity (dpm/100 cm <sup>2</sup> )
	271	FILE CABINET TOP/SIDE	1	See attached LSC Printout
	272	BOOK SHELF WALL	1	
	273	DESK - TOP	1	
	274	DESK - FRONT/DRAWERS/HANDLES	1	
	275	DESK TOP	1	
	276	DESK FRONT/DRAWERS/HANDLES	1	
	277	BOOK SHELF	1	
	278	BOOK SHELF	1	
	279	FLOOR	1	
	280	FLOOR	1	
	281	FLOOR	1	
	282	FLOOR	1	
	283	FLOOR (GREEN PAD)	1	
	284	FLOOR	1	
	285	FLOOR	1	
	286	FLOOR	1	
	287	FLOOR	1	
	288	FLOOR	1	
	289	"	1	
	290	"	1	
	291	"	1	
	292	"	1	
	293	"	1	
	294	FLOOR / GREEN PAD	1	
	295	"	1	
	296	FLOOR / GREEN PAD	1	
	297	FLOOR	1	
	298	FLOOR	1	



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No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm <sup>2</sup> )
299	299	FLOOR / GREEN PAD	1	See attached LSC Printout
300	300	FLOOR	1	
301	301	FLOOR / GREEN PAD	1	
302	302	TOP shelf	1	
303		shelf	1	
304		TOP shelf	1	
305		shelf	1	
306		Bottom shelf	1	
307		FRONT OF WASH UNIT	1	
308		TOP shelf	1	
309		shelf	1	
310		Bottom shelf	1	
311		FRONT OF WASH UNIT	1	
312		TOP shelf	1	
313		shelf	1	
314		Bottom shelf	1	
315		FRONT OF WASH UNIT	1	
316		TOP shelf	1	
317		shelf	1	
318		Bottom shelf	1	
319		FRONT OF WASH UNIT	1	
320		TOP shelf	1	
321		shelf	1	
322		Bottom shelf	1	
323		FRONT OF WASH UNIT	1	
324		TOP shelf	1	
325		shelf	1	
326		Bottom shelf	1	

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No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm <sup>2</sup> )
327		FRONT OF WALL UNIT	1	See attached LSC Printout
328		TOP Shelf	1	
329		Shelf	1	
330		Bottom Shelf	1	
331		FRONT OF WALL UNIT	1	
332		TOP Shelf	1	
333		Shelf	1	
334		Bottom Shelf	1	
335		FRONT OF WALL UNIT	1	
336		TOP Shelf	1	
337		Shelf	1	
338		Bottom Shelf	1	
339	1210	Post Decan # 214	1	
340		Post Decan # 223	1	
341		" " # 227	1	
342		" " # 245	1	
343		Post Decan # # 241 up	1	
344		# 241 Bottom	1	
345		pipe	1	
346		nozzle	1	
347		nozzle	1	
348		nozzle	1	
349		nozzle	1	
350		side glass in	1	
351		" " out	1	
352		nozzle	1	
353	1240	Post Decan # 347	1	
			1	

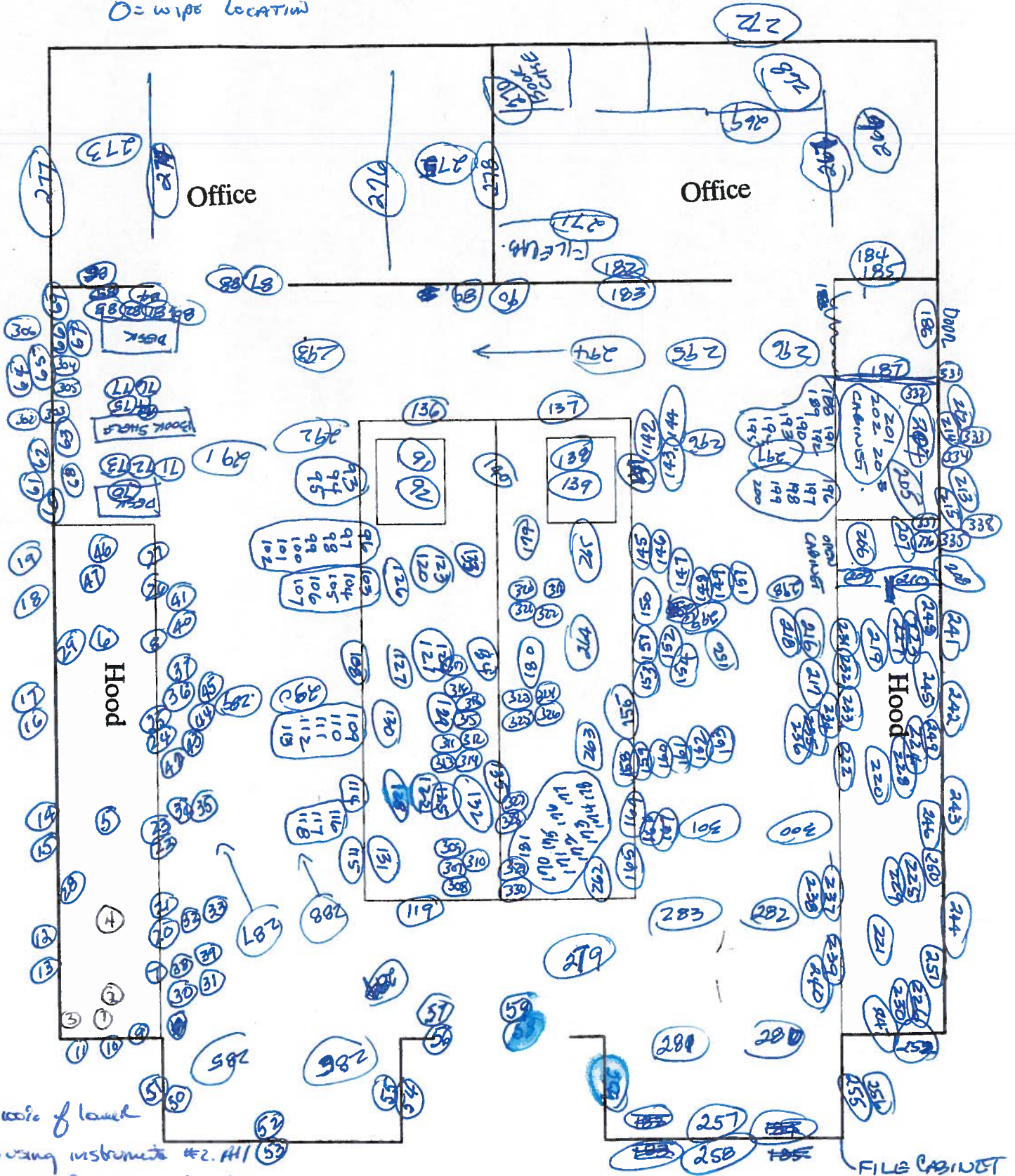
5/1/02



# Bld. 118 Room 366

Date: 4/24/02

O = wipe location



Surveyed inside of lower  
 Surfaces using instrument #2. All  
 surfaces surveyed were noted to be  
 ± normal background levels.



ID: EQUIPMENT SURVY

24 APR 2002 10:46

USER: 3 COMMENT: EQUIPMENT SURVEY

PRESET TIME : 1.00  
 D A CALC : DL DPM H# : YES SAMPLE REPEATS: 1 PRINTER : EDIT  
 COUNT BLANK : YES IC# : NO REPLICATES : 1 RS232 : EDIT  
 TWO PHASE : NO ABC : YES CYCLE REPEATS : 1  
 SCINTILLATOR: LIQUID LUMEX: YES LOW SAMPLE REJ: 0  
 LOW LEVEL : NO HALF LIFE CORRECTION DATE: none

ISOTOPE 1: 3H %ERROR: 2.00 FACTOR: 1.0000 BKG. SUB: 0  
 ISOTOPE 2: 14C %ERROR: 2.00 FACTOR: 1.0000 BKG. SUB: 0  
 WIDE OPEN WINDOW %ERROR: 0.00 FACTOR: 1.0000 BKG. SUB: 0

BACKGROUND QUENCH CURVE: Off COLOR QUENCH CORRECTION: Off

Quench Limits Low: 13.688 High: 306.34

SAM NO	H#	3H CPM	14C CPM	WIDE CPM	3H DPM	14C DPM	LUMEX %	
B1	89.8	15.00	11.00	33.00	27.85	14.56	1.76	
		Blank Average DPM		for	3H :	27.85	COEF. OF VAR:	0.000
		Blank Average DPM		for	14C :	14.56	COEF. OF VAR:	0.000
1	125.2	16.00	9.00	33.00	10.58	-2.54	14.77	
2	178.0	4.00	11.00	23.00	-22.40	1.10	12.36	
3	107.8	14.00	20.00	44.00	-5.16	12.40	6.06	
4	105.4	10.00	5.00	27.00	-6.23	-7.96	8.29	
5	109.4	26.00	17.00	59.00	27.22	8.08	25.22	
6	127.0	16.00	8.00	34.00	11.73	-3.91	7.02	
7	90.3	17.00	5.00	34.00	7.92	-8.12	2.72	
8	87.9	17.00	14.00	48.00	2.56	3.99	1.28	
9	93.7	13.00	11.00	33.00	-4.05	0.06	4.10	
10	88.3	14.00	16.00	37.00	-5.19	6.74	2.32	
11	82.1	18.00	9.00	35.00	6.52	-2.79	1.78	
12	85.0	9.00	13.00	28.00	-14.97	2.76	2.46	
13	89.9	14.00	10.00	31.00	-1.70	-1.33	2.36	
14	104.2	19.00	6.00	35.00	15.06	-6.78	2.70	
15	94.9	17.00	14.00	41.00	3.70	4.05	1.62	
16	102.9	16.00	13.00	39.00	3.26	2.78	1.69	
17	100.4	15.00	12.00	41.00	1.03	1.43	3.11	
18	103.0	10.00	8.00	25.00	-8.32	-3.89	4.15	
19	112.2	10.00	11.00	31.00	-9.15	0.25	2.99	
20	96.3	10.00	16.00	35.00	-13.61	6.90	1.43	
21	100.3	13.00	7.00	35.00	-0.84	-5.31	2.40	
22	95.7	11.00	5.00	24.00	-5.04	-8.00	2.12	
23	120.2	12.00	12.00	35.00	-3.47	1.64	3.43	
24	96.1	18.00	7.00	37.00	10.25	-5.42	2.69	
25	108.7	12.00	10.00	32.00	-3.87	-1.18	3.38	
26	95.1	14.00	11.00	33.00	-1.54	0.05	2.01	
27	100.2	15.00	11.00	35.00	1.58	0.07	2.34	
28	113.0	13.00	11.00	32.00	-1.32	0.20	6.08	
29	112.1	15.00	15.00	42.00	1.15	5.61	2.79	
30	87.7	16.00	4.00	31.00	5.74	-9.45	1.40	
31	86.8	13.00	7.00	27.00	-2.71	-5.37	0.85	
32	88.3	18.00	10.00	36.00	7.06	-1.41	0.86	
33	84.6	11.00	7.00	29.00	-7.39	-5.34	1.80	
34	84.8	17.00	9.00	34.00	4.78	-2.75	1.03	
35	85.3	18.00	8.00	42.00	7.60	-4.11	0.86	
36	88.2	16.00	9.00	30.00	3.10	-2.72	1.57	

SAM NO	H#	3H CPM	14C CPM	WIDE CPM	3H DPM	14C DPM	LUMEX %
37	76.2	20.00	11.00	44.00	8.76	-0.17	0.96
	138.9	14.00	13.00	36.00	5.21	3.15	6.94
39	INVALID SAMPLE COUNT: H# ABORT: COUNT RATE TOO LOW						
40	99.1	14.00	9.00	31.00	0.19	-2.63	1.37
41	139.1	13.00	7.00	26.00	6.76	-5.17	2.63
42	114.4	12.00	14.00	34.00	-5.61	4.33	2.06
43	99.8	12.00	11.00	31.00	-5.64	0.12	1.68
44	94.9	18.00	20.00	55.00	2.60	12.14	1.14
45	90.6	76.00	78.00	166.00	101.52	89.24	0.21
46	103.8	17.00	18.00	47.00	2.87	9.56	3.37
47	95.3	13.00	7.00	27.00	-1.57	-5.33	1.06
48	102.2	11.00	10.00	34.00	-7.17	-1.20	1.77
49	85.8	9.00	13.00	33.00	-14.92	2.77	1.10
50	95.2	13.00	8.00	26.00	-2.16	-3.98	3.19
51	79.2	16.00	8.00	39.00	2.28	-4.11	0.83
52	107.6	11.00	13.00	39.00	-8.38	2.92	1.40
53	96.0	9.00	10.00	24.00	-12.53	-1.20	2.01
54	91.6	16.00	16.00	39.00	-0.24	6.74	1.12
55	86.7	16.00	5.00	37.00	5.02	-8.11	1.20
56	80.7	14.00	10.00	37.00	-2.87	-1.38	1.02
57	78.8	11.00	5.00	29.00	-6.92	-8.04	0.74
58	77.7	14.00	10.00	37.00	-3.22	-1.40	0.52
59	83.7	13.00	9.00	31.00	-4.16	-2.69	1.60
60	78.2	15.00	7.00	30.00	0.52	-5.43	0.50
61	78.0	10.00	17.00	42.00	-15.30	8.04	0.51
62	114.6	11.00	7.00	25.00	-3.68	-5.22	1.63
	114.1	13.00	11.00	33.00	-1.13	0.21	2.84
	82.8	16.00	3.00	28.00	5.44	-10.80	1.22
65	81.3	11.00	7.00	28.00	-7.71	-5.35	1.18
66	109.6	14.00	15.00	42.00	-1.82	5.61	1.37
67	124.5	12.00	11.00	34.00	-2.09	0.31	2.62
68	79.2	11.00	9.00	32.00	-8.95	-2.68	1.10
69	72.5	9.00	6.00	26.00	-12.18	-6.69	0.46
70	86.4	13.00	14.00	38.00	-6.54	4.05	0.82
71	72.8	11.00	5.00	28.00	-7.50	-8.06	0.80
72	86.5	15.00	12.00	39.00	-1.01	1.32	0.83
73	82.6	10.00	8.00	25.00	-10.29	-3.99	1.22
74	90.2	5.00	15.00	35.00	-24.81	5.57	1.17
75	90.1	10.00	12.00	32.00	-11.83	1.44	1.03
76	88.6	16.00	11.00	34.00	2.07	-0.03	1.39
77	91.8	11.00	5.00	28.00	-5.51	-8.01	1.18
78	92.1	15.00	6.00	30.00	3.12	-6.73	1.55
79	107.3	12.00	14.00	34.00	-6.53	4.26	2.55
80	79.6	16.00	9.00	34.00	1.81	-2.76	0.66
81	73.4	15.00	10.00	33.00	-1.63	-1.44	0.42
82	86.1	9.00	10.00	28.00	-13.29	-1.27	1.80
83	81.6	14.00	8.00	36.00	-1.71	-4.06	1.02
84	80.4	13.00	8.00	27.00	-4.02	-4.05	1.18
85	78.3	19.00	13.00	42.00	5.96	2.54	0.69
86	88.0	11.00	9.00	32.00	-8.13	-2.63	3.93
87	79.0	17.00	11.00	37.00	2.83	-0.10	0.64
88	83.0	14.00	6.00	29.00	-0.47	-6.74	1.44
	82.6	12.00	7.00	29.00	-5.41	-5.36	1.15
90	80.1	12.00	9.00	35.00	-6.72	-2.69	0.89
91	79.1	12.00	9.00	30.00	-6.82	-2.70	0.96
92	101.4	9.00	14.00	29.00	-14.45	4.26	2.01
93	76.3	19.00	10.00	38.00	7.17	-1.49	0.50
94	121.4	17.00	9.00	31.00	12.36	-2.58	2.39

SAM NO	H#	3H CPM	14C CPM	WIDE CPM	3H DPM	14C DPM	LUMEX %
95	91.6	13.00	11.00	43.00	-4.31	0.05	1.08
	78.5	11.00	11.00	29.00	-10.05	-0.01	0.72
97	89.2	15.00	13.00	38.00	-1.19	2.69	2.17
98	83.6	13.00	12.00	36.00	-5.77	1.34	1.22
99	105.7	14.00	14.00	40.00	-1.78	4.21	1.99
100	91.0	10.00	14.00	35.00	-12.87	4.14	1.13
101	94.1	12.00	10.00	34.00	-5.75	-1.27	1.86
102	86.7	8.00	8.00	22.00	-14.39	-3.93	1.49
103	86.8	10.00	11.00	33.00	-11.55	0.07	1.23
104	90.9	10.00	6.00	28.00	-8.44	-6.64	1.62
105	86.9	10.00	13.00	29.00	-12.63	2.76	1.43
106	89.9	13.00	9.00	33.00	-3.40	-2.66	1.34
107	82.0	10.00	8.00	35.00	-10.35	-3.99	1.13
108	104.4	9.00	14.00	30.00	-14.23	4.29	2.75
109	89.7	9.00	7.00	23.00	-11.37	-5.28	2.53
110	90.8	15.00	20.00	47.00	-4.85	12.14	0.66
111	90.2	14.00	8.00	34.00	-0.56	-4.02	1.63
112	93.2	8.00	20.00	39.00	-20.68	12.30	1.26
113	91.9	12.00	11.00	38.00	-6.56	0.07	1.36
114	83.5	21.00	14.00	47.00	10.67	3.88	0.83
115	95.4	9.00	7.00	30.00	-10.88	-5.26	1.02
116	104.9	10.00	19.00	35.00	-14.76	11.07	2.03
117	78.0	14.00	7.00	33.00	-1.65	-5.42	0.93
118	86.2	6.00	12.00	28.00	-21.01	1.48	1.33
119	86.5	16.00	6.00	32.00	4.46	-6.76	1.25
120	90.1	10.00	10.00	37.00	-10.73	-1.26	1.25
121	88.1	11.00	8.00	29.00	-7.57	-3.98	1.53
122	86.2	11.00	11.00	32.00	-9.38	0.05	1.29
123	103.2	8.00	9.00	28.00	-13.76	-2.49	3.54
124	106.8	10.00	14.00	39.00	-11.56	4.30	1.80
125	95.7	12.00	10.00	30.00	-5.56	-1.26	2.26
126	77.8	10.00	5.00	32.00	-9.15	-8.03	0.85
127	77.8	13.00	10.00	29.00	-5.33	-1.38	1.01
128	77.0	12.00	11.00	37.00	-8.05	-0.03	0.62
129	86.4	12.00	7.00	36.00	-4.98	-5.35	0.98
130	80.9	11.00	6.00	29.00	-7.23	-6.70	1.16
131	77.2	7.00	3.00	22.00	-14.54	-10.66	1.93
132	79.7	10.00	5.00	23.00	-8.98	-8.02	1.38
133	103.9	12.00	10.00	32.00	-4.53	-1.21	2.60
134	97.7	9.00	10.00	26.00	-12.40	-1.19	4.62
135	98.7	10.00	7.00	29.00	-8.20	-5.26	2.56
136	72.4	19.00	10.00	37.00	6.55	-1.51	0.70
137	80.3	19.00	7.00	35.00	9.41	-5.49	1.32
138	84.5	9.00	9.00	30.00	-12.86	-2.62	1.84
139	90.2	19.00	12.00	39.00	8.57	1.28	2.33
140	84.7	13.00	6.00	29.00	-2.44	-6.72	1.55
141	89.1	8.00	10.00	29.00	-15.32	-1.23	2.19
142	113.1	10.00	9.00	24.00	-7.76	-2.47	1.68
143	88.9	13.00	11.00	32.00	-4.64	0.03	1.52
144	78.0	22.00	9.00	40.00	14.36	-2.87	0.60
145	95.1	13.00	10.00	35.00	-3.30	-1.28	1.88
146	85.1	20.00	7.00	35.00	12.52	-5.49	1.26
147	90.1	13.00	18.00	39.00	-8.35	9.47	1.39
148	88.2	13.00	9.00	32.00	-3.63	-2.67	1.47
149	92.2	9.00	8.00	31.00	-11.72	-3.92	2.65
150	81.7	12.00	13.00	32.00	-8.66	2.68	1.30
151	86.3	14.00	18.00	38.00	-6.49	9.41	1.30
152	90.9	12.00	12.00	37.00	-7.22	1.41	1.49



SAM NO	H#	3H CPM	14C CPM	WIDE CPM	3H DPM	14C DPM	LUMEX %
155	86.2	25.00	20.00	56.00	16.82	11.90	1.16
156	84.2	15.00	9.00	30.00	0.29	-2.72	1.51
157	91.7	9.00	12.00	34.00	-13.99	1.47	1.38
158	86.8	14.00	11.00	32.00	-2.65	-0.00	1.70
159	85.3	16.00	14.00	36.00	-0.02	3.99	1.57
160	79.2	20.00	11.00	41.00	9.28	-0.15	1.00
161	84.6	17.00	8.00	32.00	5.28	-4.10	1.67
162	93.6	40.00	14.00	62.00	56.54	3.62	1.19
163	83.9	14.00	15.00	38.00	-5.14	5.35	1.02
164	90.9	15.00	4.00	27.00	4.03	-9.43	2.30
165	84.6	15.00	8.00	37.00	0.88	-4.07	1.61
166	83.8	12.00	9.00	33.00	-6.34	-2.67	1.51
167	87.1	13.00	8.00	29.00	-3.22	-4.02	1.63
168	130.3	9.00	12.00	31.00	-10.46	1.81	2.27
169	111.8	7.00	12.00	27.00	-17.51	1.68	2.24
170	77.6	10.00	10.00	30.00	-11.74	-1.34	0.90
171	79.9	17.00	9.00	30.00	4.00	-2.78	1.19
172	90.6	10.00	11.00	34.00	-11.24	0.09	2.90
173	88.4	23.00	22.00	45.00	31.45	21.22	0.71
174	92.0	5.00	8.00	23.00	-20.88	-3.85	2.88
175	84.0	21.00	11.00	44.00	12.37	-0.14	0.96
176	88.5	15.00	11.00	37.00	-0.19	-0.01	2.03
177	92.1	14.00	10.00	37.00	-1.40	-1.32	1.43
178	91.0	15.00	11.00	33.00	0.17	0.01	1.37
179	93.0	57.00	93.00	161.00	51.01	109.95	0.87
180	104.1	8.00	13.00	30.00	-15.97	2.97	3.40
181	90.7	12.00	8.00	29.00	-5.03	-3.99	1.31
182	94.1	14.00	14.00	39.00	-3.38	4.10	1.77
183	86.3	15.00	11.00	38.00	-0.49	-0.02	1.77
184	78.2	15.00	15.00	35.00	7.63	-1.48	1.52
185	85.6	16.00	9.00	38.00	2.70	-2.73	1.04
186	77.3	17.00	10.00	38.00	3.10	-1.45	1.09
187	87.3	16.00	10.00	34.00	2.43	-1.38	1.32
188	92.8	16.00	10.00	36.00	3.29	-1.35	1.89
189	77.1	16.00	12.00	45.00	-0.08	1.24	0.91
190	81.8	14.00	7.00	36.00	-1.16	-5.40	1.26
191	86.3	12.00	5.00	25.00	-3.91	-8.04	1.76
192	93.4	17.00	12.00	37.00	4.57	1.34	1.25
193	82.4	6.00	13.00	27.00	-21.65	2.79	1.73
194	92.1	19.00	9.00	36.00	10.60	-2.76	2.08
195	91.5	13.00	9.00	27.00	-3.21	-2.65	1.65
196	84.0	16.00	16.00	46.00	-1.27	6.66	1.58
197	90.6	14.00	12.00	36.00	-2.72	1.37	1.90
198	91.9	12.00	6.00	23.00	-3.76	-6.68	1.80
199	86.8	9.00	13.00	30.00	-14.86	2.77	1.26
200	102.6	13.00	11.00	32.00	-2.86	0.12	1.86
201	96.3	12.00	10.00	36.00	-5.48	-1.25	1.89
202	92.1	7.00	11.00	27.00	-17.98	0.16	1.24
203	86.4	15.00	13.00	44.00	-1.56	2.67	1.13
204	112.8	8.00	10.00	31.00	-13.60	-1.06	4.24
205	103.0	12.00	7.00	33.00	-2.85	-5.29	2.77
206	94.9	23.00	12.00	44.00	18.77	1.24	1.79
207	105.5	11.00	10.00	34.00	-6.79	-1.18	2.27
208	84.0	6.00	13.00	33.00	-21.61	2.80	1.33
209	96.9	17.00	8.00	39.00	7.48	-4.05	1.22
210	87.9	21.00	14.00	42.00	11.52	3.92	1.56
211	88.4	14.00	16.00	43.00	-5.18	6.74	1.27
212	91.9	14.00	6.00	31.00	0.81	-6.71	1.74

SAM NO	H#	3H CPM	14C CPM	WIDE CPM	3H DPM	14C DPM	LUMEX %
211	87.8	17.00	9.00	36.00	5.28	-2.74	1.86
212	89.9	5.00	8.00	25.00	-20.95	-3.86	1.52
213	102.1	16.00	9.00	31.00	5.51	-2.65	1.73
214	87.8	22.00	33.00	71.00	3.40	29.48	0.57
215	85.7	15.00	11.00	35.00	-0.57	-0.03	1.18
216	118.1	8.00	9.00	21.00	-12.47	-2.40	55.89
217	87.6	10.00	9.00	30.00	-10.39	-2.62	3.13
218	81.6	13.00	4.00	28.00	-1.78	-9.41	1.37
219	92.2	17.00	9.00	37.00	6.03	-2.72	1.88
220	87.0	21.00	10.00	38.00	13.51	-1.47	2.75
221	133.5	11.00	12.00	29.00	-4.17	1.79	39.32
222	95.9	12.00	12.00	34.00	-6.68	1.45	2.50
223	108.5	213.00	22.00	243.00	493.57	11.08	0.32
224	115.6	18.00	9.00	36.00	13.54	-2.63	3.56
225	100.2	16.00	13.00	39.00	2.81	2.76	1.50
226	103.7	13.00	9.00	30.00	-1.52	-2.59	2.73
227	102.2	257.00	10.00	275.00	588.35	-5.97	0.27
228	97.1	31.00	7.00	52.00	41.00	-5.66	1.05
229	99.4	14.00	7.00	28.00	1.41	-5.34	1.88
230	107.3	25.00	14.00	46.00	25.90	4.00	2.30
231	120.1	5.00	12.00	31.00	-22.38	1.80	2.53
232	151.4	6.00	12.00	29.00	-17.68	2.11	3.50
233	88.6	13.00	12.00	33.00	-5.21	1.37	2.53
234	98.5	19.00	11.00	43.00	10.79	-0.02	1.54
235	86.6	13.00	9.00	35.00	-3.82	-2.68	1.93
236	80.5	16.00	13.00	39.00	-0.15	2.60	0.93
237	107.0	9.00	6.00	28.00	-9.13	-6.57	4.05
238	99.5	15.00	6.00	30.00	4.40	-6.71	1.45
239	107.7	12.00	10.00	32.00	-4.01	-1.18	1.53
240	82.1	19.00	11.00	36.00	7.65	-0.12	1.29
241	103.4	45.00	17.00	73.00	71.62	7.65	1.02
242	113.3	24.00	18.00	53.00	22.70	9.53	3.89
243	105.8	16.00	16.00	42.00	1.96	6.89	2.98
244	113.6	9.00	11.00	27.00	-11.58	0.29	3.57
245	101.4	50.00	16.00	78.00	83.18	6.18	0.89
246	116.6	18.00	6.00	31.00	15.74	-6.73	15.23
247	103.9	13.00	13.00	37.00	-3.88	2.85	2.99
248	104.0	39.00	9.00	59.00	62.12	-3.09	1.07
249	113.8	16.00	11.00	37.00	6.60	0.14	3.62
250	98.5	19.00	14.00	40.00	9.05	4.04	1.82
251	115.7	11.00	13.00	39.00	-7.41	3.00	4.29
252	89.7	15.00	4.00	27.00	3.84	-9.43	2.28
253	98.7	10.00	15.00	34.00	-12.84	5.57	4.42
254	118.8	19.00	16.00	44.00	12.40	6.96	3.20
255	78.9	9.00	9.00	30.00	-13.26	-2.65	1.38
256	80.5	22.00	14.00	48.00	12.26	3.84	0.88
257	92.0	18.00	5.00	36.00	10.52	-8.13	1.71
258	83.3	14.00	6.00	32.00	-0.43	-6.74	1.11
259	81.1	16.00	6.00	31.00	3.60	-6.78	1.22
260	95.5	13.00	14.00	41.00	-5.54	4.13	1.88
261	82.2	15.00	14.00	33.00	-2.61	3.98	1.34
262	80.4	18.00	13.00	42.00	4.14	2.57	0.78
263	79.6	12.00	10.00	36.00	-7.29	-1.36	1.12
264	82.4	15.00	17.00	55.00	-4.17	8.00	0.72
265	88.2	10.00	12.00	30.00	-11.98	1.42	1.35
266	83.8	14.00	7.00	28.00	-0.89	-5.39	1.36
267	81.2	13.00	11.00	33.00	-5.50	-0.02	1.52
268	70.9	7.00	14.00	36.00	-20.37	4.00	0.60



SAM NO	H#	3H CPM	14C CPM	WIDE CPM	3H DPM	14C DPM	LUMEX %
275	86.2	10.00	11.00	29.00	-11.60	0.06	1.66
276	84.1	19.00	7.00	35.00	10.13	-5.48	0.92
271	86.2	13.00	5.00	28.00	-1.71	-8.06	1.45
272	82.6	18.00	13.00	40.00	4.50	2.59	1.05
273	80.6	16.00	11.00	33.00	0.91	-0.08	1.01
274	84.1	19.00	14.00	39.00	6.39	3.92	1.19
275	79.2	9.00	3.00	19.00	-10.13	-10.69	1.43
276	83.3	13.00	10.00	33.00	-4.74	-1.35	2.21
277	81.3	10.00	14.00	33.00	-13.55	4.05	1.32
278	81.2	17.00	9.00	35.00	4.21	-2.77	1.50
279	91.2	14.00	13.00	35.00	-3.19	2.72	1.65
280	93.2	14.00	9.00	37.00	-0.68	-2.66	1.76
281	95.0	14.00	14.00	38.00	-3.27	4.11	2.02
282	89.6	17.00	8.00	29.00	6.13	-4.08	1.93
283	93.7	15.00	10.00	34.00	1.14	-1.32	1.74
284	101.2	20.00	10.00	39.00	14.38	-1.38	1.84
285	93.9	15.00	19.00	41.00	-3.91	10.83	1.20
286	111.5	8.00	13.00	29.00	-15.60	3.02	3.36
287	97.0	19.00	14.00	42.00	8.74	4.03	1.98
288	91.5	14.00	10.00	35.00	-1.48	-1.32	1.77
289	103.2	14.00	13.00	39.00	-1.55	2.82	1.57
290	93.1	17.00	16.00	44.00	2.28	6.74	1.23
291	101.2	14.00	6.00	32.00	2.30	-6.69	2.58
292	90.2	14.00	13.00	39.00	-3.31	2.72	1.70
293	96.6	13.00	12.00	40.00	-4.26	1.43	1.38
294	87.3	22.00	18.00	47.00	11.46	9.28	0.99
295	88.9	12.00	10.00	34.00	-6.33	-1.30	2.35
296	119.1	18.00	11.00	40.00	13.12	0.13	2.64
297	85.7	22.00	9.00	44.00	15.98	-2.84	1.43
298	84.7	15.00	12.00	34.00	-1.25	1.31	1.59
299	90.0	28.00	8.00	45.00	31.11	-4.27	1.45
300	91.2	16.00	18.00	45.00	-1.41	9.43	1.20
301	93.1	14.00	9.00	30.00	-0.69	-2.66	3.68
302	91.2	12.00	13.00	39.00	-7.75	2.76	1.03
303	105.7	13.00	10.00	38.00	-1.82	-1.21	1.41
304	92.9	8.00	10.00	28.00	-15.08	-1.20	2.06
305	93.1	11.00	12.00	28.00	-9.29	1.44	1.66
306	89.9	12.00	15.00	35.00	-8.98	5.44	1.43
307	82.2	16.00	17.00	45.00	-2.03	7.98	0.70
308	84.5	20.00	14.00	42.00	8.66	3.91	0.91
309	82.3	14.00	9.00	28.00	-2.15	-2.72	1.39
310	90.5	13.00	6.00	25.00	-1.67	-6.70	2.59
311	84.4	9.00	13.00	30.00	-15.01	2.75	0.94
312	81.6	12.00	9.00	31.00	-6.57	-2.69	1.63
313	82.7	16.00	17.00	40.00	-1.97	7.99	0.94
314	86.7	17.00	13.00	43.00	2.92	2.63	1.07
315	81.1	16.00	9.00	43.00	2.02	-2.76	0.89
316	84.0	18.00	8.00	34.00	7.38	-4.12	1.04
317	81.5	17.00	7.00	38.00	5.31	-5.45	0.91
318	83.9	11.00	10.00	32.00	-9.06	-1.31	1.29
319	85.7	11.00	11.00	31.00	-9.42	0.04	1.09
320	89.7	14.00	14.00	38.00	-3.93	4.06	1.33
321	86.3	13.00	11.00	31.00	-4.93	0.01	1.08
322	89.3	11.00	7.00	28.00	-6.89	-5.32	1.38
323	85.8	10.00	6.00	24.00	-8.94	-6.66	1.38
324	87.2	11.00	8.00	30.00	-7.66	-3.98	1.33
325	80.9	8.00	7.00	26.00	-14.23	-5.30	1.51
326	90.3	14.00	6.00	27.00	0.56	-6.72	



SAM NO	H#	3H CPM	14C CPM	WIDE CPM	3H DPM	14C DPM	LUMEX %
	85.2	17.00	8.00	41.00	3.39	-4.10	3.32
	82.5	18.00	12.00	34.00	0.65	1.28	1.27
	84.7	13.00	9.00	37.00	-4.04	-2.69	1.26
	86.5	11.00	10.00	32.00	-8.62	-1.28	1.40
	94.2	15.00	6.00	28.00	3.47	-6.73	2.11
332	84.9	12.00	8.00	28.00	-5.69	-4.01	1.35
333	84.0	11.00	13.00	34.00	-10.64	2.72	1.56
334	105.8	8.00	7.00	26.00	-12.34	-5.19	2.13
335	89.0	14.00	10.00	33.00	-1.82	-1.33	1.38
336	85.1	20.00	10.00	37.00	10.91	-1.46	1.01
337	86.4	21.00	8.00	40.00	14.47	-4.16	0.83
338	116.1	11.00	9.00	31.00	-4.77	-2.47	1.82

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ID: 1

USER: 1 COMMENT: EQUIPMENT SURVEY

PRESET TIME : 1.00  
 DATA CALC : DL DFM H# : YES SAMPLE REPEATS: 1 PRINTER #EDIT  
 COUNT BLANK : YES IC# : NO REPLICATES : 1 R8232 #EDIT  
 TWO PHASE : NO AGC : YES CYCLE REPEATS : 1  
 SCINTILLATOR: LIQUID LUMEX: YES LOW SAMPLE REJ: 0  
 LOW LEVEL : NO HALF LIFE CORRECTION DATE: none

ISOTOPE 1: 3H %ERROR: 2.00 FACTOR: 1.0000 BKG. SUB: 0  
 ISOTOPE 2: 14C %ERROR: 2.00 FACTOR: 1.0000 BKG. SUB: 0  
 WIDE OPEN WINDOW %ERROR: 0.00 FACTOR: 1.0000 BKG. SUB: 0

BACKGROUND QUENCH CURVE: Off COLOR QUENCH CORRECTION: Off

Quench Limits Low: 13.688 High: 306.34

SAM NO	H#	3H CPM	14C CPM	WIDE CPM	3H DPM	14C DPM	LUMEX %
E	71.4	13.00	14.00	35.00	19.88	18.47	6.96
		Blank Average DPM for		3H :	19.88	COEF. OF VAR: 0.000	
		Blank Average DPM for		14C :	18.47	COEF. OF VAR: 0.000	

37	1	71.6	18.00	14.00	44.00	10.34	-0.08	1.97
140	2	75.8	37.00	9.00	49.00	53.50	-7.04	1.64
	3	76.6	17.00	4.00	27.00	14.03	-13.40	3.20
	4	85.7	19.00	13.00	48.00	15.17	-1.32	5.88
	5	86.6	14.00	11.00	40.00	5.29	-3.92	8.52
	6	117.4	28.00	15.00	55.00	44.56	1.47	7.67
K	7	80.9	29.00	11.00	53.00	37.01	-4.21	1.69
	8	77.3	30.00	8.00	46.00	39.68	-8.26	5.84
	9	80.5	119.00	17.00	144.00	227.73	2.32	1.29
	10	92.5	16.00	4.00	29.00	14.57	-13.36	5.59
	11	91.2	25.00	11.00	44.00	30.94	-4.08	5.03
D	12	80.4	15.00	3.00	31.00	10.87	-14.70	5.70
	13	83.6	14.00	13.00	33.00	3.86	-1.25	2.33
SC	14	88.9	12.00	5.00	25.00	4.38	-11.95	8.12

1 MAY 2002 12:45

ID: 1

USER: 1

COMMENT: EQUIPMENT SURVEY

PRESET TIME : 1.00  
 DATA CALC : DL DPM H# :YES SAMPLE REPEATS: 1 PRINTER :EDIT  
 COUNT BLANK : YES IC# : NO REPLICATES : 1 RS232 :EDIT  
 TWO PHASE : NO ADC :YES CYCLE REPEATS : 1  
 SCINTILLATOR: LIQUID LUMEX:YES LOW SAMPLE REJ: 0  
 LOW LEVEL : NO HALF LIFE CORRECTION DATE: none

ISOTOPE 1: 3H %ERROR: 2.00 FACTOR:1.0000 BKG. SUB: 0  
 ISOTOPE 2: 14C %ERROR: 2.00 FACTOR:1.0000 BKG. SUB: 0  
 WIDE OPEN WINDOW %ERROR: 0.00 FACTOR:1.0000 BKG. SUB: 0

BACKGROUND QUENCH CURVE: Off COLOR QUENCH CORRECTION: Off

Quench Limits Low:13.688 High:306.34

SAM NO	H#	3H CPM	14C CPM	WIDE CPM	3H DPM	14C DPM	LUMEX %
76.5		21.00	17.00	48.00	35.71	22.40	1.64
		Blank Average DPM for		3H :	35.71	COEF. OF VAR: 0.000	
		Blank Average DPM for		14C :	22.40	COEF. OF VAR: 0.000	
531. 72.3		16.00	9.00	34.00	-7.04	-10.64	1.61