

## Radiological Survey Sheet

Job Location PAZOR INC. GASTON CT Page 1 of 25

Survey Purpose DECOMMISSIONING B205 Date 5/15/00

Performed By DAVID DURLOS (Print)  (Sign)

Inst.(1) (Model/SN) Packard 2500 TR #405100	Inst.(2) Wellman 2241-Z (Model/SN) #163603	Inst.(3) (Model/SN)
Det. Internal (Model/SN)	Det. Wellman 43-68 (Model/SN) 7149613	Det. (Model/SN)
Eff. H-3 (27% - 47%) C-14/P-32 (78% - 83%)	Eff. $\approx$ 85% C-14	Eff.
Type rad. $\beta$	Type rad. $\beta$	Type rad.
Bkgd. .See #1 below <sup>40</sup> LSC printout	Bkgd. 300 cpm	Bkgd.
Cal. Due: 12/2000	Cal. Due 2/13/01	Cal. due

No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm <sup>2</sup> )	Comments
1.	1:25	Door	1	See LSC printout	
2.		Floor	1		
3.		Wall	1		
4.		"	1		
5.		"	1		
6.		Wall	1		
7.		Floor	1		
8.		Floor	1		
9.		curtains	1		
10.		(1) Hood wall	1		
11.		(2) Hood wall	1		
12.		Back upper hood	1		
13.		Back lower hood	1		
14.		(L)	1		
15.		(R)	1		
16.		cup sink	1		
17.		inner cash	1		
18.	↓	outer cash	1		↓

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No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm <sup>2</sup> )
19		Hood lip	1	See attached LSC Printout
20		Ⓐ outer hood	1	
21		Ⓑ " "	1	
22		Ⓒ outer cabinet	1	
23		Ⓓ inner cabinet	1	
24		Ⓔ outer cabinet	1	
25		Dinner Cabinet	1	
26		Upper wall	1	
27		Lower wall	1	
28		Floor	1	
29		"	1	
30		"	1	
31		Floor	1	
32		wall unit	1	
33		Top Shelf	1	
34		shelf	1	
35		shelf	1	
36		Bottom shelf	1	
37		wall unit	1	
38		Top Shelf	1	
39		shelf	1	
40		shelf	1	
41		Bottom shelf	1	
42		shelf (wooden)	1	
43		shelf	1	
44		wall	1	
45		Top Shelf	1	
46	↓	shelf	1	↓

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No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm <sup>2</sup> )
47		Bottom Shelf	1	See attached LSC Printout
48		Desk Top	1	↓
49		Drawer	1	
50		outer Drawers	1	
51		Top Drawer	1	
52		Drawer	1	
53		Bottom Drawer	1	
54		Chair	1	
55		Top Shelf	1	
56		Shelf	1	
57		Top Shelf	1	
58		shelf	1	
59		Chair	1	
60		Cup Sink	1	
61		Counter	1	
62		Cup Sink	1	
63		Counter	1	
64		Counter	1	
65		Outer Drawers	1	
66		Top Drawer	1	
67		Drawer	1	
68		Drawer	1	
69		Bottom Drawer	1	
70		Drawer	1	
71		outer Drawers	1	
72		Top Drawer	1	
73		Drawer	1	
74		Drawer	1	

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No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm <sup>2</sup> )
75		Bottom Drawer	1	See attached LSC Printout
76		Outer Drawer	1	
77		inner Drawer	1	
78		outer Cabinet	1	
79		• cabinet Top Shelf	1	
80		• shelf	1	
81		Drawer	1	
82		Light	1	
83		Plexiglass	1	
84		"	1	
85		Plexiglass	1	
86		metal shelves	1	
87		" "	1	
88		" "	1	
89		metal shelves	1	
90		Plastic Container	1	
91		metal	1	
92		Tin Box	1	
93		" "	1	
94		Plastic Tub	1	
95		Lead	1	
96		"	1	
97		Lid	1	
98		Container	1	
99		Lead Lid	1	
100		Lead	1	
101		Cylinder	1	
102	↓	plastic Tub	1	↓

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No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm <sup>2</sup> )	
103		Plastic Tub	1	See attached LSC Printout	
104		Lead Ring	1		
105		Lead	1		
106		Plexiglass	1		
107		Wall	1		
108		Wall	1		
109		Wall Unit	1		
110		Top Shelf	1		
111		Shelf	1		
112		Shelf	1		
113		Bottom shelf	1		
114		Wall Unit	1		
115		Top Shelf	1		
116		Shelf	1		
117		shelf	1		
118		Bottom Shelf	1		
119		Counter	1		
120		"	1		
121		Counter	1		
122		Cup Sink	1		
123		Top Shelf	1		
124		Shelf	1		
125		shelf	1		
126		Glass Drying Rack	1		
127		Sink Strainer	1		(See # 383)
128		Faucet	1		
129		Sink	1		
130	✓	SINK DRAIN	1		✓ (See # 384)

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Date 5/15/00

No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm <sup>2</sup> )
131		Counter	1	See attached LSC Printout
132		Cabinet End	1	
133		Outer Drawers	1	
134		Top Drawer	1	
135		Drawer	1	
136		Drawer	1	
137		Bottom Drawer	1	
138		Drawer	1	
139		Outer Drawers	1	
140		Top Drawer	1	
141		Drawer	1	
142		Drawer	1	
143		Bottom Drawer	1	
144		Under Cabinet Wall	1	
145		(O) Outer Cabinet	1	
146		(P) Outer Cabinet	1	
147		inner Cabinet	1	
148		Cabinet End	1	
149		" "	1	
150		Floor	1	
151		Floor	1	
152		Floor	1	
153		Counter	1	
154		"	1	
155		"	1	
156		Counter	1	
157		Outer Drawer	1	
158		Top Drawer	1	

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No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm <sup>2</sup> )
159		Drawer	1	See attached LSC Printout
160		Drawer	1	↓
161		Bottom Drawer	1	
162		Outer Drawer	1	
163		Top Drawer	1	
164		Drawer	1	
165		"	1	
166		Bottom Drawer	1	
167		Drawer	1	
168		Outer Drawers	1	
169		Top Drawer	1	
170		Drawer	1	
171		Drawer	1	
172		Bottom Drawer	1	
173		Outer Drawers	1	
174		Top Drawer	1	
175		Drawer	1	
176		Drawer	1	
177		Bottom Drawer	1	
178		Chair (orange) (big)	1	
179		Chair (small orange)	1	
180		Top Shelf	1	
181		Shelf	1	
182		Shelf	1	
183		Desk top	1	
184		Drawer	1	
185		Front of Drawers	1	
186	↓	Top Drawer	1	↓

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No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm <sup>2</sup> )
187		Drawer	1	See attached LSC Printout
188		Bottom Drawer	1	
189		wall	1	
190		wall unit doors	1	
191		top shelf	1	
192		shelf	1	
193		shelf	1	
194		bottom shelf	1	
195		top shelf	1	
196		shelf	1	
197		shelf	1	
198		bottom shelf	1	
199		wall unit doors	1	
200		top shelf	1	
201		shelf	1	
202		shelf	1	
203		bottom shelf	1	
204		shelf	1	
205		top shelf	1	
206		shelf	1	
207		shelf	1	
208		Desk top	1	
209		Drawer	1	
210		outer drawers	1	
211		top Drawer	1	
212		Drawer	1	
213		Bottom Drawer	1	
214		top shelf	1	



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No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm <sup>2</sup> )
215		Shelf	1	See attached LSC Printout
216		cup sink	1	
217		Counter	1	
218		Counter	1	
219		top Shelf	1	
220		Shelf	1	
221		cup sink	1	
222		counter	1	
223		counter	1	
224		plexiglas	1	
225		plexiglas	1	
226		OUTER DRAWERS	1	
227		Top Drawer	1	
228		Drawer	1	
229		Drawer	1	
230		Bottom Drawer	1	
231		Drawer	1	
232		Front of Drawers	1	
233		Top Drawer	1	
234		Drawer	1	
235		Drawer	1	
236		<del>Top</del> Bottom Drawers	1	
237		Drawer	1	
238		Counter	1	
239		Outer Drawer	1	
240		Inner Drawer	1	
241		Outer CABINET	1	
242		TOP shelf	1	

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Date 5/15/00

No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm <sup>2</sup> )
243		Bottom Shelf	1	See attached LSC Printout
244		yellow TRAY	1	
245		LEAD	1	
246		Tin Roll	1	
247		Stool	1	
248		metal rods	1	
249		metal TRAY	1	
250		lead BRICK	1	
251		FLOOR	1	
252		FLOOR	1	
253		FLOOR MAT	1	
254	8:00	FLOOR	1	
255		Cabinet End	1	
256		Cabinet End	1	
257		FLOOR	1	
258		Box	1	
259		Wall	1	
260		ⓐ Side Refrigerator	1	
261		ⓑ Side "	1	
262		Top of "	1	
263		Door	1	
264		Top shelf	1	
265		shelf	1	
266		shelf	1	
267		shelf	1	
268		Bottom shelf	1	
269		Door shelf	1	
270		shelf	1	

5/14/00

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No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm <sup>2</sup> )
271		Door shelf	1	See attached LSC Printout
272		shelf	1	
273		shelf	1	
274		Bottom door shelf	1	
275		Lamp Box	1	
276		Black shelf	1	
277		Long metal Rods	1	
278		Short metal Rods	1	
279		Shelfs	1	
280		Cardboard cylinder	1	
281		metal trays	1	
282		Box	1	
283		Box	1	
284		Wall	1	
285		"	1	
286		Wall	1	
287		Floor	1	
288		Floor	1	
289		Counter	1	
290		Plexiglass	1	
291		"	1	
292		"	1	(See #385)
293		Plexiglass	1	
294		Counter	1	
295		Counter	1	
296		Counter	1	
297		outer Drawers	1	
298	↓	Top Drawer	1	↓

Radiological Survey Continuation Sheet

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No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm <sup>2</sup> )
299		Drawer	1	See attached LSC Printout
300		Drawer	1	✓ (see # 380)
301		Bottom DRAWER	1	
302		Drawer	1	
303		outer DRAWERS	1	
304		Top Drawer	1	
305		Drawer	1	
306		"	1	
307		Bottom Drawer	1	
308		Drawer	1	
309		outer DRAWERS	1	
310		Top DRAWER	1	
311		Drawer	1	
312		Drawer	1	
313		Bottom Drawer	1	
314		Top shelf	1	
315		shelf	1	
316		shelf	1	
317		Desk Top	1	
318		Drawer	1	
319		outer DRAWERS	1	
320		Top DRAWER	1	
321		Drawer	1	
322		Bottom Drawer	1	
323		Wall Unit	1	
324		Top shelf	1	
325		shelf	1	
326	↓	shelf	1	↓

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No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm <sup>2</sup> )
327		Bottom Shelf	1	See attached LSC Printout
328		Top Shelf	1	
329		shelf	1	
330		Shelf	1	
331		Door	1	
332		Box	1	
333		File cabinet	1	
334		Coat Rack	1	
335		cart shelf	1	
336		Wall	1	
337		wall unit Door	1	
338		Des wall unit	1	
339		Desk	1	
340		Window sill	1	
341		Floor	1	
342		Floor	1	
343		chair	1	
344		chair	1	
345		cart	1	
346		Desk TOP	1	
347		TOP Drawer	1	
348		Drawer	1	
349		wall	1	
350		Floor	1	
351		Floor	1	
352		Floor	1	
353		Floor	1	
354		FLOOR	1	

• Radiological Survey Continuation Sheet

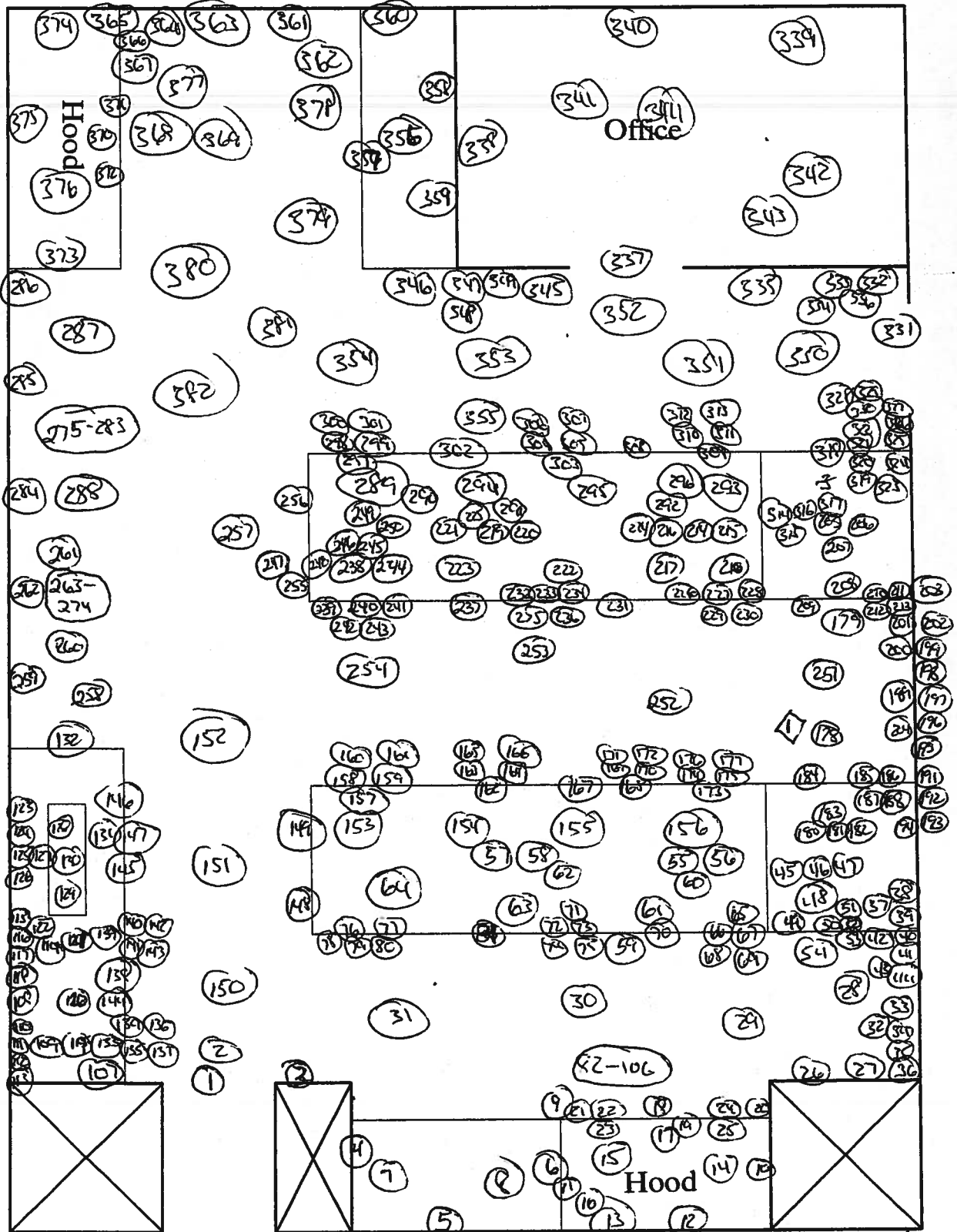
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No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm <sup>2</sup> )
355		Floor mat	1	See attached LSC Printout
356		Desk Top	1	↓
357		Drawer	1	
358		Wall	1	
359		Wall	1	
360		Window Sill	1	
361		Wall	1	
362		Box	1	
363		Window Sill	1	
364		Wall	1	
365		metal shelf	1	
366		Bag Rack	1	
367		Flask	1	
368		chair	1	
369		Lamp	1	
370		Hood Top	1	
371		outer Sash	1	
372		inner sash	1	
373		⊙ Wall	1	
374		⊙ Wall	1	
375		Back wall	1	
376		Counter	1	
377		Floor	1	
378		Floor	1	
379		Floor	1	
380		Floor	1	
381		Floor	1	
382	↓	Floor	1	↓



① = wipe location



Surveyed 100% of lower surfaces w/ instrument #2. All surfaces surveyed were noted to be at normal background levels with the following exception: ① The back of a chair was found to be contaminated to a level of 11,250 dpm/100cm<sup>2</sup>. This chair was decontaminated to normal background levels.



ID: EQUIPMENT SURVY 15 MAY 2000 15:03  
 USER: 1 COMMENT:  
 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 ADD : 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: 1.000000 BKG. SUB: 0  
 ISOTOPE 2: 14C %ERROR: 2.00 FACTOR: 1.000000 BKG. SUB: 0  
 WIDE OPEN WINDOW %ERROR: 0.00 FACTOR: 1.000000 BKG. SUB: 0

BACKGROUND QUENCH CURVE: Off COLOR QUENCH CORRECTION: Off  
 Quench Limits Low: 2.756 High: 314.54

SAM NO	H#	3H CPM	14C CPM	WIDE CPM	3H DPM	14C DPM	LUMEX %
B1	74.9	12.00	14.00	35.00	16.29	18.67	14.73
1	73.5	21.00	7.00	41.00	20.46	-9.52	7.64
2	78.0	15.00	9.00	44.00	8.52	-6.74	12.33
3	73.6	7.00	4.00	15.00	-4.84	-13.38	27.66
4	77.2	21.00	9.00	45.00	20.10	-6.81	6.84
5	81.7	23.00	11.00	44.00	23.83	-4.11	6.58
6	83.7	13.00	7.00	27.00	6.20	-9.38	13.56
7	99.9	16.00	15.00	40.00	10.12	1.55	10.92
8	89.5	21.00	7.00	38.00	23.33	-9.45	6.38
9	76.7	14.00	9.00	33.00	6.44	-6.73	8.92
10	87.4	12.00	18.00	35.00	-1.17	5.53	21.15
11	76.9	15.00	6.00	30.00	9.88	-10.78	12.14
12	80.6	22.00	6.00	37.00	24.15	-10.85	19.51
13	80.9	15.00	13.00	33.00	6.85	-1.33	14.95
14	75.3	13.00	10.00	30.00	3.89	-5.38	9.92
15	78.4	21.00	9.00	40.00	20.30	-6.80	9.02
16	83.2	21.00	11.00	37.00	20.11	-4.08	8.63
17	79.1	20.00	6.00	38.00	19.94	-10.83	4.59
18	76.3	20.00	7.00	31.00	18.99	-9.49	8.21
19	78.1	24.00	8.00	44.00	26.59	-8.19	4.60
20	85.4	19.00	7.00	40.00	18.49	-9.44	6.01
21	74.9	22.00	7.00	45.00	22.61	-9.52	7.36
22	76.5	18.00	11.00	34.00	13.19	-4.09	7.99
23	79.9	21.00	9.00	41.00	20.54	-6.80	8.94
24	73.7	15.00	8.00	36.00	8.54	-8.10	8.87
25	82.5	20.00	15.00	46.00	15.98	1.33	7.36
26	80.1	15.00	5.00	27.00	10.76	-12.11	4.25
27	82.0	21.00	10.00	37.00	20.40	-5.44	5.27
28	93.4	23.00	15.00	48.00	24.00	1.39	10.15
29	85.6	16.00	8.00	39.00	11.95	-8.06	7.91
30	83.0	21.00	11.00	44.00	20.07	-4.08	7.06
31	81.1	23.00	11.00	43.00	23.71	-4.12	8.34
32	85.1	19.00	14.00	43.00	14.86	0.01	7.21
33	83.2	27.00	13.00	44.00	31.07	-1.45	9.05
34	83.7	20.00	7.00	34.00	20.23	-9.46	8.72
35	80.4	23.00	16.00	47.00	21.08	2.62	5.82
36	86.2	17.00	13.00	41.00	11.47	-1.31	4.36
37	82.2	21.00	9.00	41.00	20.94	-6.78	8.46
38	80.6	20.00	16.00	45.00	15.19	2.65	7.09

SAM NO	H#	3H CPM	14C CPM	WIDE CPM	3H DPM	14C DPM	LUMEX %
39	76.8	15.00	11.00	37.00	7.42	-4.05	9.18
40	82.7	16.00	5.00	32.00	13.09	-12.12	12.94
41	80.9	22.00	12.00	46.00	21.20	-2.76	5.74
42	84.0	14.00	8.00	35.00	7.72	-8.04	10.34
43	88.3	11.00	6.00	27.00	3.12	-10.69	17.97
44	81.8	21.00	12.00	47.00	19.37	-2.74	8.45
45	90.1	14.00	15.00	39.00	4.74	1.47	10.20
46	79.3	28.00	13.00	53.00	32.19	-1.49	4.80
47	83.8	15.00	10.00	36.00	8.68	-5.35	8.05
48	79.1	14.00	12.00	37.00	5.20	-2.68	5.88
49	90.6	11.00	12.00	34.00	0.15	-2.55	5.13
50	87.1	18.00	15.00	43.00	12.59	1.39	7.06
51	87.9	15.00	8.00	37.00	10.22	-8.03	11.33
52	90.6	17.00	10.00	39.00	13.66	-5.33	13.13
53	90.2	10.00	9.00	34.00	-0.36	-6.60	4.88
54	84.2	25.00	12.00	48.00	27.80	-2.77	5.10
55	90.3	17.00	9.00	36.00	14.14	-6.69	11.53
56	82.9	19.00	5.00	35.00	19.11	-12.15	9.72
57	87.7	18.00	7.00	36.00	16.84	-9.42	9.50
58	82.2	11.00	9.00	31.00	1.04	-6.66	11.78
59	83.7	23.00	7.00	38.00	26.24	-9.50	3.81
60	79.9	22.00	9.00	45.00	22.52	-6.81	5.83
61	82.7	20.00	11.00	43.00	18.02	-4.07	5.33
62	84.5	22.00	4.00	37.00	25.93	-13.53	8.98
63	84.3	21.00	15.00	46.00	18.26	1.33	5.87
64	78.9	13.00	12.00	35.00	3.22	-2.67	19.17
65	77.8	12.00	11.00	35.00	1.68	-4.01	5.87
66	81.0	17.00	3.00	32.00	15.83	-14.83	12.45
67	85.7	14.00	13.00	40.00	5.34	-1.27	9.61
68	84.9	13.00	5.00	26.00	7.34	-12.08	6.70
69	83.5	25.00	9.00	45.00	29.19	-6.82	6.31
70	84.1	20.00	13.00	42.00	17.22	-1.36	5.32
71	79.6	13.00	15.00	37.00	1.79	1.38	4.72
72	78.8	25.00	14.00	54.00	25.72	-0.12	6.83
73	82.0	20.00	7.00	40.00	19.93	-9.47	4.01
74	83.2	16.00	4.00	26.00	13.66	-13.47	10.11
75	86.8	15.00	12.00	42.00	8.00	-2.63	7.95
76	85.1	21.00	23.00	53.00	14.27	12.14	5.80
77	80.8	10.00	10.00	34.00	-1.54	-5.31	5.13
78	81.7	21.00	10.00	36.00	20.36	-5.44	10.51
79	84.8	20.00	5.00	38.00	21.44	-12.16	5.60
80	80.4	18.00	6.00	33.00	16.22	-10.80	5.57
81	88.8	16.00	7.00	35.00	12.91	-9.39	11.73
82	85.6	16.00	12.00	35.00	9.89	-2.65	11.39
83	91.1	19.00	9.00	38.00	18.42	-6.71	3.26
84	82.8	17.00	9.00	33.00	13.06	-6.73	6.37
85	88.0	12.00	12.00	39.00	2.00	-2.58	7.04
86	85.0	18.00	10.00	41.00	14.88	-5.38	7.52
87	95.1	12.00	12.00	31.00	2.63	-2.53	9.02
88	85.3	14.00	7.00	32.00	8.39	-9.38	6.04
89	90.8	19.00	10.00	40.00	17.84	-5.36	8.89
90	84.0	16.00	4.00	28.00	13.78	-13.46	11.68
91	85.1	19.00	4.00	32.00	19.99	-13.50	8.95
92	79.5	18.00	6.00	40.00	16.08	-10.80	5.21
93	87.4	19.00	6.00	44.00	19.36	-10.79	5.43
94	86.6	20.00	10.00	36.00	19.18	-5.40	7.63
95	97.9	41.00	10.00	57.00	66.49	-5.60	6.95
96	84.4	20.00	15.00	49.00	16.25	1.34	5.46

SAM NO	H#	3H CPM	14C CPM	WIDE CPM	3H DPM	14C DPM	LUMEX %
97	82.6	43.00	10.00	62.00	64.35	-5.69	4.39
98	83.1	27.00	13.00	47.00	31.06	-1.45	7.11
99	84.6	23.00	14.00	50.00	22.84	-0.04	5.90
100	104.5	21.00	8.00	38.00	25.98	-8.03	7.15
101	83.1	14.00	11.00	41.00	6.10	-4.00	5.83
102	83.7	16.00	7.00	34.00	12.21	-9.41	5.96
103	85.7	14.00	9.00	30.00	7.40	-6.68	8.76
104	85.4	28.00	18.00	58.00	31.02	5.31	5.90
105	83.2	24.00	6.00	39.00	28.76	-10.86	6.48
106	88.1	30.00	9.00	49.00	40.45	-6.86	5.91
107	84.1	22.00	9.00	41.00	23.29	-6.78	7.92
108	85.3	19.00	8.00	39.00	17.96	-8.09	5.57
109	83.2	15.00	8.00	36.00	9.63	-8.06	7.72
110	84.8	13.00	12.00	32.00	3.75	-2.62	11.77
111	88.0	14.00	8.00	33.00	8.19	-8.02	9.99
112	90.5	18.00	13.00	44.00	14.13	-1.28	7.98
113	90.9	20.00	12.00	44.00	18.88	-2.66	15.80
114	82.6	17.00	11.00	34.00	12.03	-4.03	6.77
115	83.7	21.00	11.00	39.00	20.19	-4.07	6.55
116	80.8	26.00	10.00	43.00	30.08	-5.50	6.80
117	83.9	23.00	11.00	44.00	24.23	-4.10	5.75
118	89.3	20.00	7.00	34.00	21.23	-9.44	9.44
119	87.0	22.00	15.00	41.00	20.73	1.34	6.78
120	86.9	19.00	9.00	35.00	17.72	-6.73	10.13
121	81.0	33.00	9.00	53.00	44.47	-6.93	4.39
122	88.5	22.00	9.00	38.00	24.14	-6.76	6.45
123	87.2	22.00	7.00	36.00	24.91	-9.47	13.27
124	101.4	19.00	11.00	38.00	19.19	-3.93	12.17
125	93.2	16.00	10.00	35.00	11.95	-5.30	11.98
126	85.0	32.00	12.00	50.00	42.10	-2.85	4.55
127	90.1	44.00	28.00	108.00	45.10	56.64	2.28
128	84.4	17.00	6.00	38.00	14.82	-10.77	4.34
129	89.4	22.00	11.00	45.00	23.26	-4.05	4.29
130	84.2	24.00	13.00	182.00	304.52	2.31	1.82
131	92.6	15.00	9.00	35.00	10.31	-6.65	7.79
132	85.6	15.00	13.00	32.00	7.36	-1.29	10.82
133	84.8	25.00	13.00	46.00	27.41	-1.41	4.59
134	85.1	26.00	11.00	45.00	30.52	-4.13	6.38
135	85.1	14.00	13.00	37.00	5.28	-1.28	6.99
136	87.7	15.00	10.00	40.00	9.15	-5.33	4.40
137	82.7	18.00	7.00	37.00	16.06	-9.44	8.15
138	89.1	17.00	17.00	37.00	9.76	4.13	7.00
139	86.1	29.00	12.00	47.00	36.32	-2.80	5.00
140	86.5	20.00	7.00	34.00	20.71	-9.45	5.38
141	85.6	19.00	13.00	45.00	15.45	-1.34	3.92
142	85.5	20.00	8.00	39.00	20.03	-8.10	8.22
143	94.0	22.00	12.00	45.00	23.64	-2.66	6.30
144	84.3	15.00	13.00	40.00	7.21	-1.30	6.84
145	80.7	17.00	13.00	43.00	10.78	-1.35	5.21
146	84.0	20.00	14.00	42.00	16.70	-0.01	5.46
147	95.4	16.00	9.00	39.00	12.81	-6.65	9.35
148	85.0	13.00	10.00	31.00	4.79	-5.32	6.50
149	83.1	20.00	8.00	40.00	19.60	-8.12	8.40
150	90.0	13.00	14.00	40.00	3.19	0.13	2.51
151	84.2	14.00	9.00	32.00	7.24	-6.69	5.43
152	88.8	17.00	6.00	28.00	15.49	-10.76	6.80
153	84.7	14.00	8.00	29.00	7.80	-8.04	6.58
154	87.4	18.00	5.00	28.00	17.85	-12.13	11.01

SAM NO	H#	3H CPM	14C CPM	WIDE CPM	3H DPM	14C DPM	LUMEX %
155	83.1	16.00	15.00	36.00	8.07	1.38	8.75
156	85.9	22.00	13.00	46.00	21.57	-1.37	3.89
157	88.2	27.00	11.00	48.00	33.27	-4.12	6.15
158	86.1	24.00	13.00	44.00	25.66	-1.39	5.65
159	87.4	11.00	8.00	29.00	1.99	-7.99	6.82
160	90.4	21.00	9.00	37.00	22.45	-6.74	8.55
161	92.7	16.00	12.00	37.00	10.80	-2.59	9.04
162	85.8	7.00	9.00	28.00	-6.76	-6.59	7.94
163	88.3	19.00	6.00	41.00	19.52	-10.79	6.53
164	86.5	26.00	12.00	47.00	30.33	-2.76	4.56
165	86.0	12.00	9.00	29.00	3.38	-6.65	7.77
166	91.9	15.00	14.00	38.00	7.54	0.12	10.33
167	94.5	19.00	25.00	53.00	10.33	15.03	6.95
168	85.0	20.00	8.00	41.00	19.94	-8.11	6.34
169	102.0	15.00	9.00	36.00	11.62	-6.60	23.86
170	79.7	21.00	15.00	46.00	17.52	1.29	2.35
171	89.5	21.00	12.00	45.00	20.69	-2.68	3.12
172	89.2	15.00	8.00	37.00	10.39	-8.03	6.45
173	88.0	27.00	7.00	44.00	35.32	-9.53	4.04
174	95.9	23.00	9.00	43.00	27.79	-6.74	13.20
175	89.0	14.00	7.00	32.00	8.83	-9.37	8.61
176	90.8	19.00	6.00	32.00	19.96	-10.78	11.46
177	88.4	16.00	13.00	36.00	9.71	-1.28	8.66
178	95.2	22.00	10.00	39.00	24.98	-5.37	10.72
179	84.2	15.00	13.00	39.00	7.20	-1.30	4.51
180	99.7	24.00	10.00	42.00	30.30	-5.37	11.68
181	94.8	20.00	12.00	42.00	19.56	-2.63	7.84
182	92.5	16.00	8.00	34.00	12.91	-8.02	11.55
183	91.9	20.00	6.00	33.00	22.26	-10.79	7.63
184	93.7	26.00	8.00	42.00	34.17	-8.14	6.19
185	88.9	17.00	10.00	36.00	13.42	-5.34	2.89
186	121.5	21.00	16.00	47.00	25.21	3.08	11.59
187	112.7	12.00	13.00	30.00	3.87	-1.00	5.49
188	96.8	11.00	11.00	28.00	1.21	-3.86	14.15
189	88.6	15.00	5.00	29.00	11.88	-12.09	9.17
190	83.8	26.00	8.00	38.00	31.76	-8.18	3.44
191	84.7	17.00	8.00	30.00	13.85	-8.07	5.86
192	91.4	14.00	12.00	34.00	6.46	-2.58	8.03
193	101.5	17.00	11.00	36.00	14.81	-3.90	6.37
194	98.7	17.00	12.00	38.00	13.80	-2.56	13.46
195	110.1	25.00	9.00	47.00	35.95	-6.69	13.90
196	92.3	20.00	8.00	34.00	21.25	-8.07	12.13
197	92.5	23.00	20.00	51.00	21.15	8.17	6.34
198	88.8	10.00	9.00	27.00	-0.46	-6.61	7.94
199	88.6	20.00	9.00	43.00	20.05	-6.74	6.36
200	88.4	17.00	14.00	43.00	11.24	0.07	4.74
201	87.2	18.00	12.00	39.00	14.17	-2.66	7.22
202	91.4	21.00	8.00	38.00	23.17	-8.09	4.72
203	91.8	21.00	10.00	40.00	22.19	-5.38	7.94
204	89.9	10.00	9.00	27.00	-0.38	-6.61	6.84
205	92.7	14.00	11.00	34.00	7.15	-3.93	7.53
206	90.8	26.00	12.00	49.00	31.30	-2.73	4.15
207	89.7	18.00	8.00	37.00	16.64	-8.06	5.21
208	86.7	6.00	7.00	19.00	-7.72	-9.28	10.16
209	85.0	23.00	5.00	35.00	27.54	-12.20	6.74
210	84.0	15.00	14.00	44.00	6.67	0.05	6.29
211	91.8	15.00	10.00	32.00	9.66	-5.30	10.06
212	86.2	17.00	8.00	36.00	14.06	-8.06	5.17

SAM NO	H#	3H CPM	14C CPM	WIDE CPM	3H DPM	14C DPM	LUMEX %
213	95.5	15.00	10.00	35.00	10.15	-5.28	6.98
214	98.1	22.00	12.00	44.00	24.48	-2.63	12.33
215	89.1	19.00	9.00	39.00	18.08	-6.72	17.95
216	88.9	24.00	8.00	39.00	28.84	-8.14	7.02
217	87.4	20.00	13.00	45.00	17.76	-1.33	4.41
218	87.9	15.00	10.00	33.00	9.18	-5.33	5.31
219	97.0	14.00	13.00	33.00	6.55	-1.18	6.07
220	83.6	16.00	10.00	32.00	10.66	-5.37	7.64
221	87.7	18.00	11.00	40.00	14.76	-4.01	4.94
222	84.0	21.00	12.00	42.00	19.73	-2.72	7.55
223	83.6	17.00	8.00	38.00	13.68	-8.08	6.19
224	83.8	22.00	5.00	40.00	25.27	-12.19	3.81
225	84.8	16.00	10.00	30.00	10.82	-5.36	7.69
226	90.1	15.00	7.00	29.00	11.04	-9.38	3.77
227	87.7	21.00	11.00	44.00	20.90	-4.05	5.37
228	89.2	11.00	12.00	34.00	0.04	-2.56	3.51
229	97.5	20.00	8.00	35.00	22.28	-8.05	4.95
230	96.7	17.00	7.00	30.00	16.24	-9.37	6.45
231	87.1	24.00	11.00	45.00	26.89	-4.09	5.95
232	85.7	40.00	9.00	57.00	60.02	-6.99	4.37
233	85.6	20.00	11.00	44.00	18.49	-4.05	3.53
234	91.2	19.00	6.00	36.00	20.04	-10.78	7.09
235	94.2	17.00	10.00	37.00	14.19	-5.31	9.44
236	91.0	28.00	7.00	43.00	38.18	-9.53	7.29
237	89.2	16.00	9.00	30.00	11.92	-6.68	6.11
238	92.7	25.00	8.00	38.00	31.83	-8.13	19.37
239	87.5	17.00	5.00	35.00	15.81	-12.12	5.52
240	93.8	19.00	12.00	37.00	17.27	-2.62	7.38
241	85.2	15.00	11.00	41.00	8.33	-3.99	7.59
242	94.6	17.00	8.00	33.00	15.36	-8.02	9.00
243	91.1	19.00	7.00	38.00	19.48	-9.42	7.99
244	109.5	17.00	9.00	40.00	17.39	-6.58	16.04
245	84.9	17.00	14.00	45.00	10.79	0.03	5.43
246	83.6	21.00	10.00	41.00	20.68	-5.43	4.06
247	94.5	23.00	11.00	45.00	26.39	-4.03	7.46
248	87.3	21.00	9.00	42.00	21.86	-6.76	3.63
249	97.0	16.00	9.00	32.00	13.05	-6.64	9.36
250	88.3	20.00	9.00	40.00	20.00	-6.74	5.79
251	89.6	13.00	5.00	29.00	7.89	-12.06	6.04
252	91.3	11.00	14.00	35.00	-0.85	0.17	5.50
253	94.2	22.00	16.00	47.00	21.51	2.77	3.68

ID: EQUIPMENT SURVY 16 MAY 2000 08:37  
 USER: 2 COMMENT:  
 PRESET TIME : 1.00  
 DATA CALC : DL DPM H# :YES SAMPLE REPEATS: 1 PRINTER : EDI1  
 COUNT BLANK : YES IC# : NO REPLICATES : 1 RS232 : EDI1  
 TWO PHASE : NO AQC :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: 1.000000 BKG. SUB: 0  
 ISOTOPE 2: 14C %ERROR: 2.00 FACTOR: 1.000000 BKG. SUB: 0  
 WIDE OPEN WINDOW %ERROR: 0.00 FACTOR: 1.000000 BKG. SUB: 0

BACKGROUND QUENCH CURVE: Off COLOR QUENCH CORRECTION: Off

Quench Limits Low: 2.756 High:314.54

SAM NO	H#	3H CPM	14C CPM	WIDE CPM	3H DPM	14C DPM	LUMEX %
81	84.6	16.00	10.00	35.00	27.09	13.31	23.19
254 255	84.9	23.00	6.00	39.00	16.19	-5.49	22.59
	80.8	18.00	9.00	41.00	3.98	-1.40	8.03
	77.2	19.00	9.00	38.00	5.42	-1.43	10.44
	83.6	20.00	5.00	37.00	10.43	-6.80	8.44
	79.8	21.00	7.00	37.00	10.73	-4.13	5.71
	81.4	22.00	9.00	44.00	11.99	-1.44	5.78
260	76.3	21.00	7.00	35.00	10.13	-4.14	10.76
	81.3	19.00	8.00	37.00	6.54	-2.75	10.43
	108.7	15.00	16.00	39.00	-2.28	8.38	18.60
	80.8	27.00	10.00	44.00	21.25	-0.15	7.42
	79.6	22.00	8.00	36.00	12.16	-2.80	13.61
265	76.4	14.00	12.00	37.00	-5.84	2.66	11.65
	82.3	12.00	9.00	28.00	-7.75	-1.32	7.73
	77.2	17.00	13.00	38.00	-0.43	3.98	11.93
	77.8	18.00	15.00	46.00	0.60	6.66	7.14
	78.6	23.00	15.00	46.00	10.49	6.61	6.11
270	81.0	23.00	8.00	42.00	14.39	-2.80	4.74
	79.5	20.00	8.00	37.00	8.22	-2.77	10.61
	81.9	22.00	8.00	34.00	12.58	-2.79	6.06
	80.8	20.00	8.00	39.00	8.43	-2.77	7.59
	79.7	16.00	7.00	28.00	0.88	-4.07	12.31
275	86.6	8.00	15.00	29.00	-18.60	6.87	14.52
	85.9	22.00	14.00	42.00	10.25	5.34	10.25
	87.3	28.00	14.00	50.00	22.74	5.28	6.58
	90.8	19.00	11.00	34.00	6.51	1.36	9.80
	82.3	24.00	10.00	41.00	15.62	-0.11	10.67
280	80.2	17.00	6.00	31.00	3.42	-5.43	4.23
	126.0	19.00	8.00	32.00	15.83	-2.54	20.89
	85.5	17.00	4.00	31.00	5.23	-8.11	5.18
	80.6	22.00	10.00	40.00	11.35	-0.10	7.09
	89.5	18.00	12.00	39.00	3.71	2.71	5.61
285	90.5	20.00	7.00	36.00	10.66	-4.08	9.03
	88.5	11.00	7.00	27.00	-8.19	-3.97	7.60
	105.4	15.00	13.00	42.00	-0.98	4.25	27.93
	91.8	18.00	7.00	30.00	6.74	-4.05	18.70
	81.0	11.00	12.00	31.00	-11.34	2.73	11.11
290	79.8	15.00	11.00	33.00	-3.06	1.33	5.83
291	84.2	20.00	13.00	41.00	4.44	4.00	7.05



SAM NO	H#	3H CPM	14C CPM	WIDE CPM	3H DPM	14C DPM	LUMEX %	
37	81.0	75.00	14.00	103.00	114.27	4.67	2.49	✓
40	87.0	18.00	8.00	38.00	5.42	-2.71	3.47	
41	89.6	24.00	5.00	43.00	19.79	-6.84	7.46	
295 42	84.1	17.00	11.00	38.00	1.43	1.33	8.09	
43	78.9	19.00	12.00	41.00	4.19	2.62	5.67	
44	81.5	22.00	15.00	46.00	9.00	6.65	5.18	
45	95.7	14.00	7.00	29.00	-1.10	-3.98	14.84	
46	87.6	20.00	12.00	41.00	7.51	2.68	4.01	
300 47	88.6	48.00	29.00	83.00	56.24	25.35	4.06	✓
48	90.2	19.00	9.00	40.00	7.47	-1.36	8.42	
49	88.3	27.00	8.00	44.00	24.08	-2.82	3.19	
50	82.7	22.00	12.00	42.00	10.70	2.61	4.50	
51	84.5	21.00	18.00	49.00	5.95	10.74	4.69	
305 52	85.9	21.00	11.00	54.00	9.78	1.30	6.18	
53	84.5	19.00	10.00	41.00	6.01	-0.04	6.48	
54	88.2	17.00	14.00	38.00	0.43	5.42	8.06	
55	86.3	16.00	5.00	33.00	2.80	-6.75	7.49	
56	81.8	16.00	12.00	36.00	-1.36	2.68	6.54	
310 57	87.9	21.00	12.00	46.00	9.61	2.67	9.85	
58	85.9	12.00	10.00	29.00	-7.94	0.06	15.08	
59	85.2	20.00	10.00	39.00	8.15	-0.04	7.38	
60	89.0	23.00	10.00	45.00	14.96	-0.06	4.83	
61	90.7	18.00	12.00	38.00	3.89	2.72	8.66	
315 62	93.9	18.00	12.00	39.00	4.39	2.75	8.41	
63	80.4	26.00	5.00	39.00	21.69	-6.88	6.00	
64	85.9	19.00	9.00	41.00	6.76	-1.38	4.18	
65	89.7	13.00	10.00	35.00	-5.53	0.07	10.78	
66	82.6	25.00	8.00	47.00	18.70	-2.82	4.62	
320 67	85.5	15.00	6.00	33.00	0.15	-5.39	11.11	
68	86.7	22.00	9.00	45.00	12.99	-1.41	11.41	
69	93.3	18.00	6.00	33.00	7.53	-5.40	11.28	
70	89.5	22.00	3.00	35.00	16.71	-9.52	8.07	
71	85.2	25.00	13.00	48.00	16.69	3.95	6.90	
325 72	89.5	19.00	11.00	42.00	6.30	1.35	5.44	
73	94.5	9.00	12.00	33.00	-14.56	2.87	10.55	
74	91.3	18.00	11.00	37.00	4.51	1.37	8.00	
75	93.4	10.00	14.00	37.00	-13.60	5.56	14.14	
76	90.9	15.00	8.00	37.00	-0.18	-2.66	9.11	
330 77	84.2	17.00	7.00	33.00	3.49	-4.07	10.05	
78	82.3	24.00	10.00	43.00	15.64	-0.11	7.31	
79	82.2	17.00	11.00	30.00	1.18	1.32	9.94	
80	88.1	30.00	9.00	45.00	29.65	-1.50	2.86	
81	87.2	13.00	12.00	30.00	-6.82	2.76	8.04	
335 82	101.9	12.00	13.00	40.00	-8.06	4.25	9.61	
83	88.8	22.00	14.00	46.00	10.77	5.37	6.01	
84	81.1	21.00	9.00	43.00	9.95	-1.43	3.74	
85	85.1	14.00	12.00	38.00	-5.00	2.73	4.65	
86	86.3	29.00	6.00	41.00	28.68	-5.55	8.76	
340 87	102.6	13.00	5.00	27.00	-1.21	-6.66	8.07	
88	93.1	18.00	11.00	41.00	4.80	1.39	4.84	
89	96.9	21.00	6.00	40.00	14.60	-5.42	3.04	
90	85.7	12.00	15.00	41.00	-10.53	6.81	5.00	
91	84.7	11.00	8.00	32.00	-9.04	-2.64	5.92	
345 92	108.1	20.00	12.00	41.00	11.39	2.83	15.59	
93	92.0	19.00	9.00	33.00	7.78	-1.35	9.28	
94	95.0	24.00	10.00	42.00	18.38	-0.04	2.51	
95	90.8	16.00	9.00	35.00	1.35	-1.32	7.92	
96	88.4	24.00	9.00	48.00	17.43	-1.43	5.71	

SAM NO	H#	3H CPM	14C CPM	WIDE CPM	3H DPM	14C DPM	LUMEX %
3 97	94.4	22.00	8.00	38.00	15.09	-2.73	11.84
98	93.6	11.00	11.00	36.00	-9.86	1.48	9.36
99	90.5	22.00	6.00	41.00	15.34	-5.46	8.15
100	90.8	18.00	17.00	44.00	1.25	9.50	5.31
101	92.3	12.00	11.00	30.00	-7.88	1.45	10.87
355 102	98.5	31.00	6.00	51.00	36.55	-5.55	7.25
103	99.5	20.00	9.00	39.00	11.34	-1.32	16.82
104	101.6	21.00	12.00	45.00	12.26	2.77	11.08
105	89.2	20.00	4.00	31.00	12.00	-8.14	6.59
106	98.9	21.00	16.00	44.00	9.47	8.19	4.89
360 107	105.1	14.00	6.00	31.00	0.81	-5.31	15.69
108	83.7	16.00	5.00	32.00	2.44	-6.76	6.10
109	83.4	8.00	10.00	28.00	-16.16	0.09	7.58
110	88.4	19.00	10.00	44.00	6.64	-0.01	9.64
111	99.5	13.00	9.00	32.00	-3.88	-1.23	5.54
365 112	98.3	16.00	7.00	32.00	3.57	-3.99	4.71
113	88.9	18.00	14.00	44.00	2.57	5.42	5.78
114	98.0	15.00	9.00	34.00	0.25	-1.26	8.90
115	85.9	22.00	10.00	42.00	12.31	-0.06	4.62
116	164.9	19.00	11.00	41.00	26.94	1.90	14.57
370 117	99.2	10.00	8.00	30.00	-9.87	-2.55	11.51
118	85.8	22.00	10.00	46.00	12.31	-0.06	4.33
119	81.2	28.00	16.00	51.00	20.32	7.92	5.35
120	85.5	14.00	12.00	34.00	-4.96	2.73	5.00
121	85.7	8.00	12.00	32.00	-17.08	2.81	5.18
122	84.0	29.00	11.00	50.00	25.50	1.19	4.49
123	86.0	15.00	4.00	29.00	1.25	-8.09	16.43
124	100.9	18.00	10.00	33.00	6.67	0.08	9.01
125	90.8	12.00	18.00	37.00	-11.73	10.93	5.93
126	85.9	21.00	10.00	39.00	10.30	-0.05	6.02
380 127	89.0	20.00	15.00	39.00	6.17	6.75	5.72
128	101.1	10.00	11.00	30.00	-11.39	1.55	9.52
129	96.3	13.00	12.00	39.00	-5.91	2.83	6.43
383 130	88.0	18.00	21.00	43.00	-1.21	14.88	5.48
384 131	89.4	35.00	15.00	76.00	78.36	6.32	4.09



17 MAY 2000 01:34

ID : EQUIPMENT SURVY  
 USER: 1 COMMENT:

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: 1.000000 BKG. SUB: 0  
 ISOTOPE 2: 14C %ERROR: 2.00 FACTOR: 1.000000 BKG. SUB: 0  
 WIDE OPEN WINDOW %ERROR: 0.00 FACTOR: 1.000000 BKG. SUB: 0

BACKGROUND QUENCH CURVE: Off COLOR QUENCH CORRECTION: Off

Quench Limits Low: 2.756 High: 314.54

SAM NO	H#	3H CPM	14C CPM	WIDE CPM	3H DFM	14C DFM	LUMEX %
B1	90.2	28.00	6.00	47.00	54.78	7.78	4.52
385	92.8	58.00	10.00	80.00	61.48	5.06	1.62
386	82.9	17.00	13.00	40.00	-27.43	9.56	2.62

385  
386  
bp