

FINAL SITE SURVEY
FOR
CIBA-GEIGY CORPORATION
SUMMIT, NEW JERSEY
SEPTEMBER 1993
BUILDING V, FIRST FLOOR

Joel Antkowiak
Robert S. Bell, Jr.

Survey Date: August 30 through September 3, 1993
Report Date: October 15, 1993

Teledyne Isotopes
50 Van Buren Avenue
Westwood, New Jersey 07675

October 15, 1993

Mr. George Stone
Radiation Safety Officer
CIBA GEIGY CORP.
556 Morris Avenue
Summit, NJ 07901

Dear Mr. Stone:

On August 30 through September 3, 1993, Robert S. Bell, Jr. & Joel Antkowiak of Teledyne Isotopes performed a final site survey in Buildings J, V & Z at your facility located at the Summit, New Jersey. This document discusses the results of the survey of Building V only.

The survey consisted of radiation monitoring for both direct and removable radioactive contamination. Direct radiation surveys were conducted with Eberline Instruments PAC-4G gas proportional survey meter (serial number 4399; calibrated 7/7/93) designed to reveal the presence of beta radiation. Removable radioactive contamination surveys consisted of smear samples taken by wiping approximately 200 cm² of surface area with an absorbant material at representative areas of the laboratories. Smears were analyzed by liquid scintillation counting with standard solutions traceable to the National Institute of Standards and Technology.

According to the U.S. Nuclear Regulatory Commission's publication "Guidelines for Decontamination of Facilities and Equipment Prior to Release for Unrestricted Use or Termination of Licenses for Byproduct, Source or Special Nuclear Material", acceptable surface contamination levels for beta-gamma emitters are as follows:

Removable contamination	1000 dpm/100cm ²
Direct contamination	5000 dpm/100cm ² average*
	15000 dpm/100cm ² maximum

*Averaged over not more than 1 square meter.

Following decontamination and survey, no areas were found to exceed these limits. A full report is enclosed.

If you have any questions or require additional information, please do not hesitate to contact me.

Sincerely,

TELEDYNE ISOTOPES



RSB:jk
Enc.

Robert S. Bell, Jr. Health Physics Tech.
Radiological Services Department

PROCEDURES

The goal of the decontamination and final site survey was to show that the designated building was suitable for release for unrestricted use.

An initial characterization survey sufficient to decommission the areas preceded any decontamination. Following decontamination, the affected areas were re-surveyed and if necessary decontaminated again. The room diagrams, showing both overhead and side views follow the results obtained by liquid scintillation counting (LSC). Rooms requiring any decontamination have two sets of LSC data representing the initial and post-decon wipe results. On drawings where drawers and cabinets are indicated, the odd-numbered smear is outside the item and the even-numbered smear is on the inside. A sample was obtained from all sink traps and analyzed by LSC. A Packard "Tri-Carb" Model 1900 liquid scintillation counter was used for the analysis of smears and sink trap samples.

A fixed contamination survey was performed on all horizontal surfaces, the floor, and inside all hoods. The meter used was a logarithmic ratemeter with a gas flow proportional probe. The probe has a thin mylar window and an active surface area of 50 cm². The floors were surveyed with a floor monitor, which is a 500 cm² active area probe mounted on a rolling stand which carries the probe at 1/4 inch above the floor. Cleaning of any areas requiring decontamination was performed using a commercial detergent solution containing EDTA. In the event that this solution was not sufficient to clean the affected areas below the applicable limits, the affected area was removed and treated as radioactive waste.

Summary of Results for Building V

The following areas have detectable removable activity below the applicable limits:

Room V9	Main View
Room V32A	Main View, View A Part A & B, View B, View C, View D part A & B, Island A part A & B, Island B part A & B
Room V33	View A, C, D & Hood 1
Room V108	View C
Room V110	Main View, View C & Hood #1
Room V131	Main View, Hood #1
Room V133	View C and Hood #1
Room V135	View D
Room V209	Island B

All direct radiation levels which were found were cleaned or removed to background levels.

**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: Building V Sinks

Room #/Sink #	H-3 Activity $\mu\text{Ci/liter}$	C-14 Activity $\mu\text{Ci/liter}$
V - 107A	$<6.0 \times 10^{-3}$	$<6.0 \times 10^{-3}$
V - 108A	$<6.0 \times 10^{-3}$	$<6.0 \times 10^{-3}$
V - 110A	$<6.0 \times 10^{-3}$	$<6.0 \times 10^{-3}$
V - 131A	$<6.0 \times 10^{-3}$	$<6.0 \times 10^{-3}$
V - 131B	$<6.0 \times 10^{-3}$	$<6.0 \times 10^{-3}$
V - 133A	$<6.0 \times 10^{-3}$	$<6.0 \times 10^{-3}$
V - 135A	$<6.0 \times 10^{-3}$	$<6.0 \times 10^{-3}$
V - 136A	$<6.0 \times 10^{-3}$	$<6.0 \times 10^{-3}$
V - 209A	$<6.0 \times 10^{-3}$	$<6.0 \times 10^{-3}$
V - 209B	$<6.0 \times 10^{-3}$	$<6.0 \times 10^{-3}$
V - 244A	$<6.0 \times 10^{-3}$	$<6.0 \times 10^{-3}$

**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: Building V Stacks

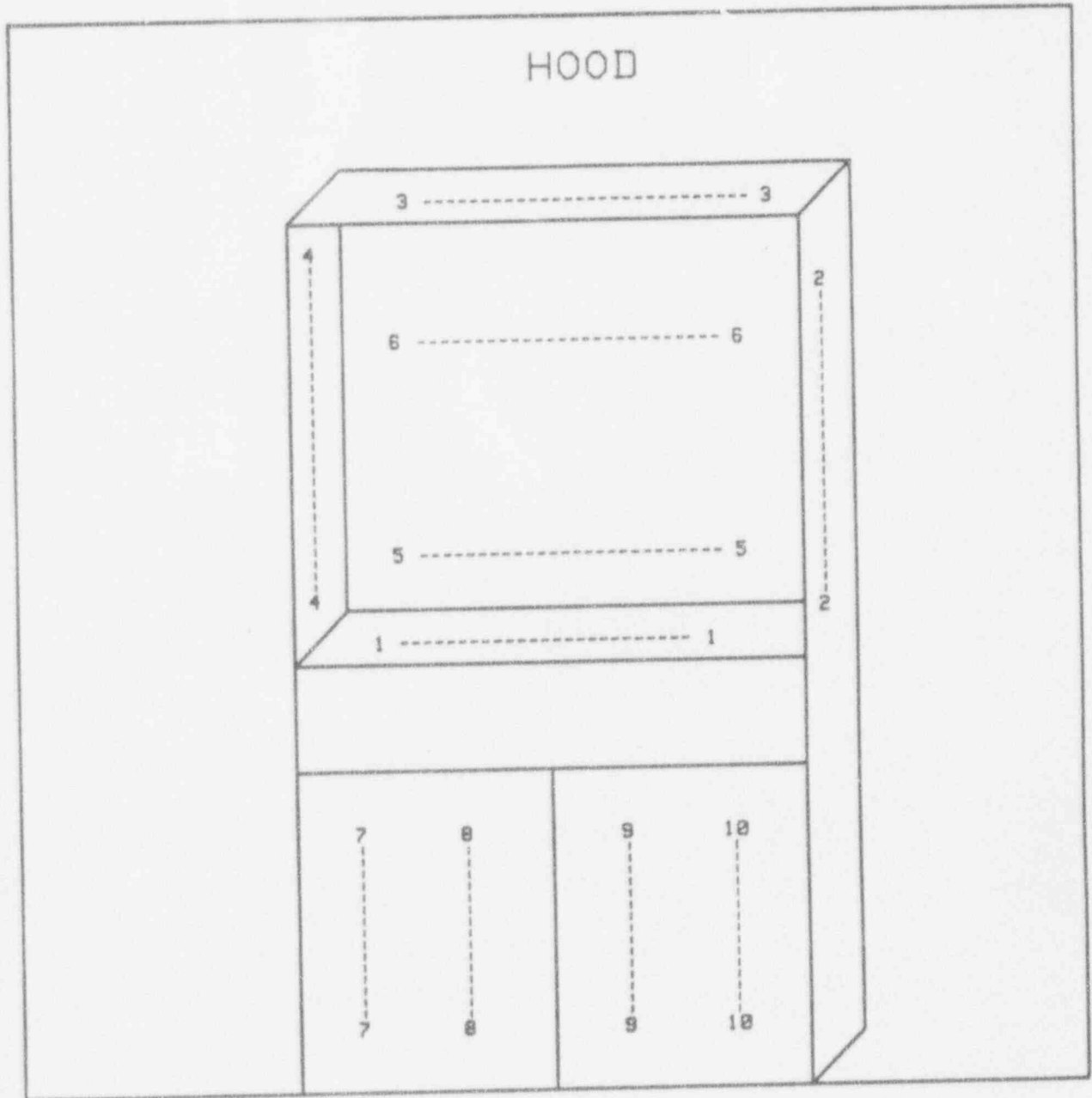
Smear No.	C-14 Activity dpm/sample	C-14 Activity dpm/100 cm ²	H-3 Activity dpm/sample	C-14 Activity dpm/100 cm ²
1	<50	<25	<50	<25
2	<50	<25	<50	<25
3	<50	<25	<50	<25
4	<50	<25	<50	<25
5	<50	<25	<50	<25
6	<50	<25	<50	<25
7	<50	<25	<50	<25
8	<50	<25	<50	<25
9	<50	<25	<50	<25
10	<50	<25	<50	<25
11	<50	<25	<50	<25
12	<50	<25	<50	<25
13	<50	<25	<50	<25

● DIAGRAM OF SURVEYED AREA

LOCATION: _____

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-1 Main View

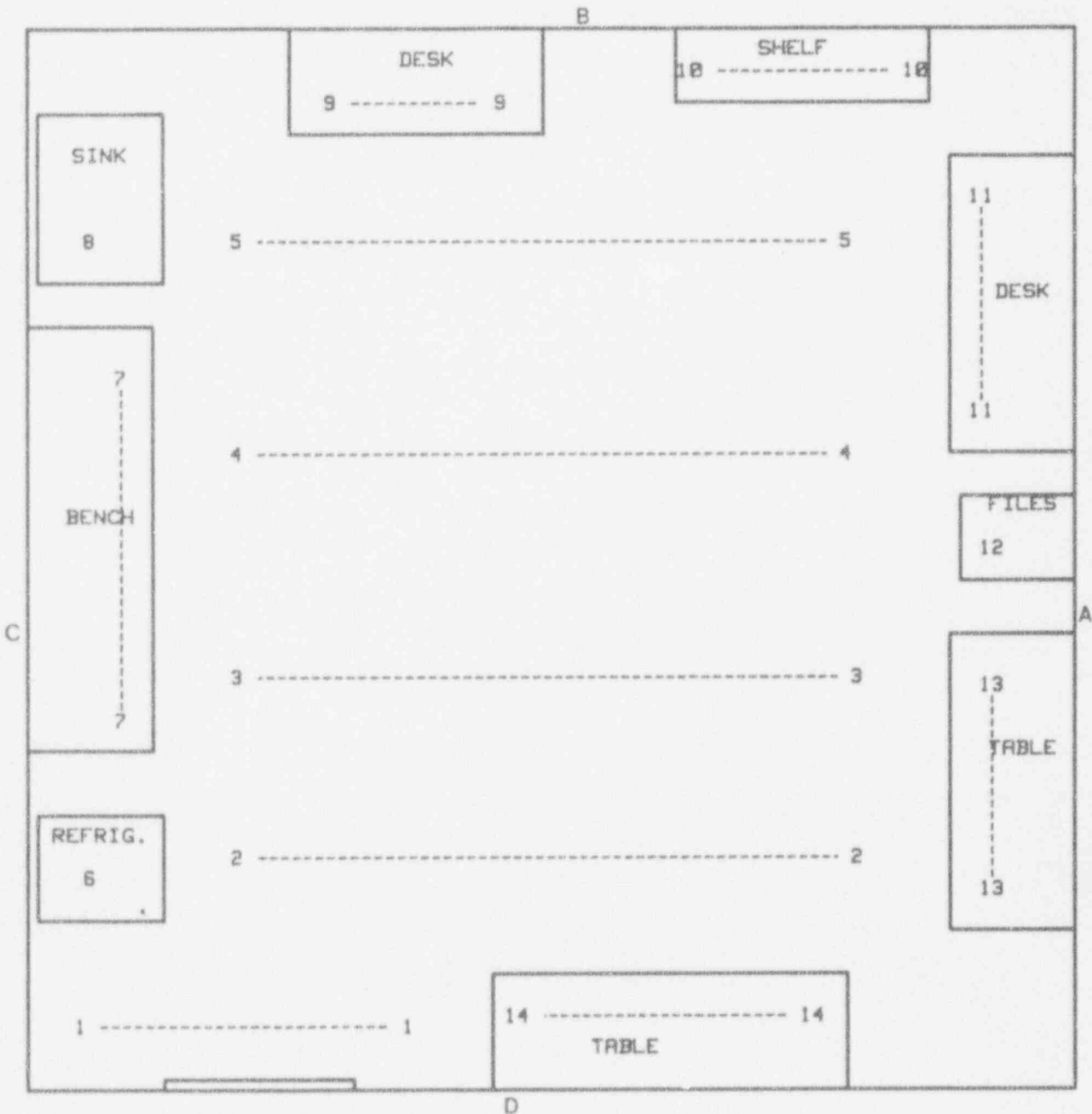
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25
11	<50	<25
12	<50	<25
13	<50	<25
14	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-VI MAIN VIEW

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-1 View A

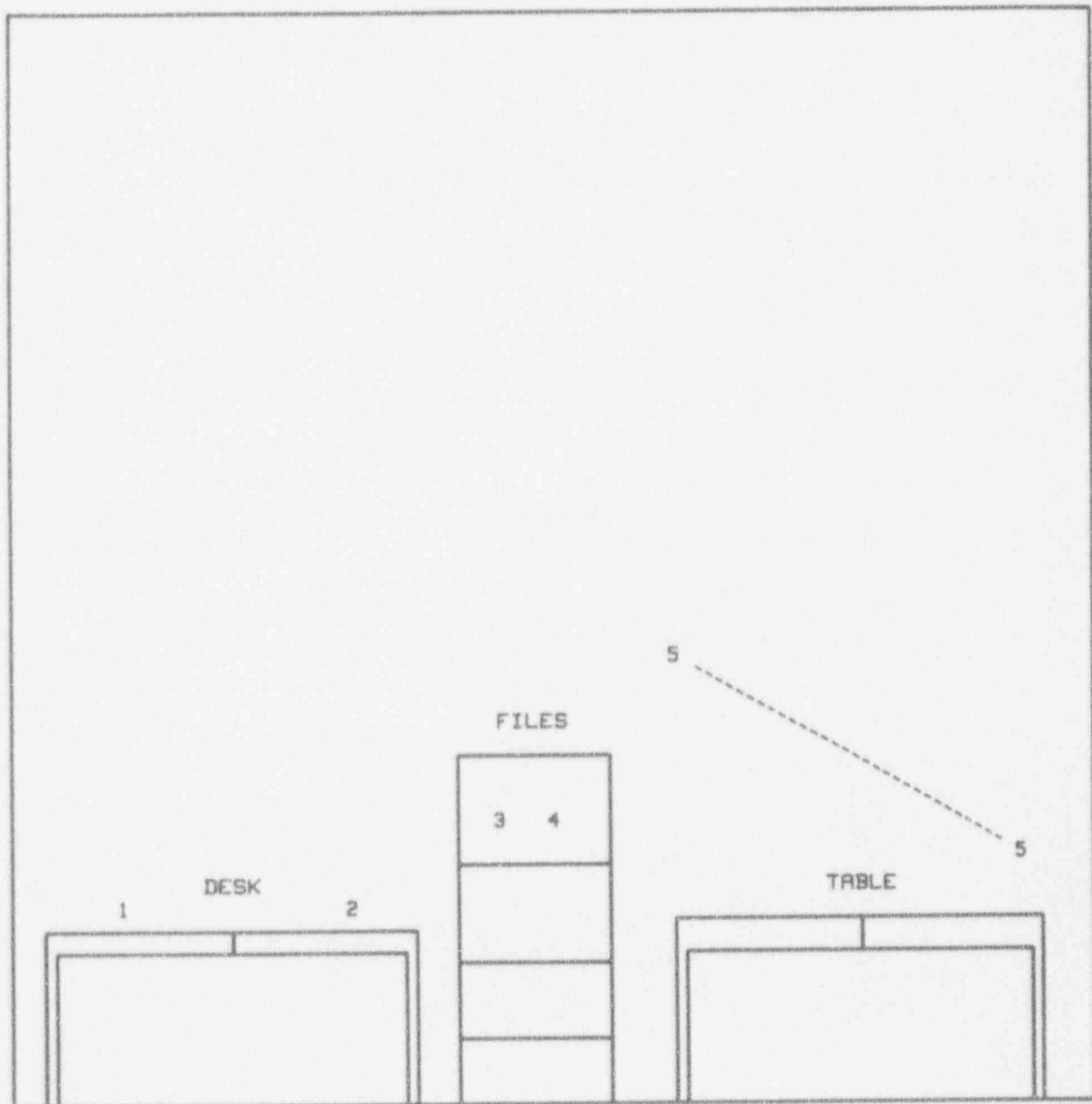
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-VI VIEW-R

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-1 View B

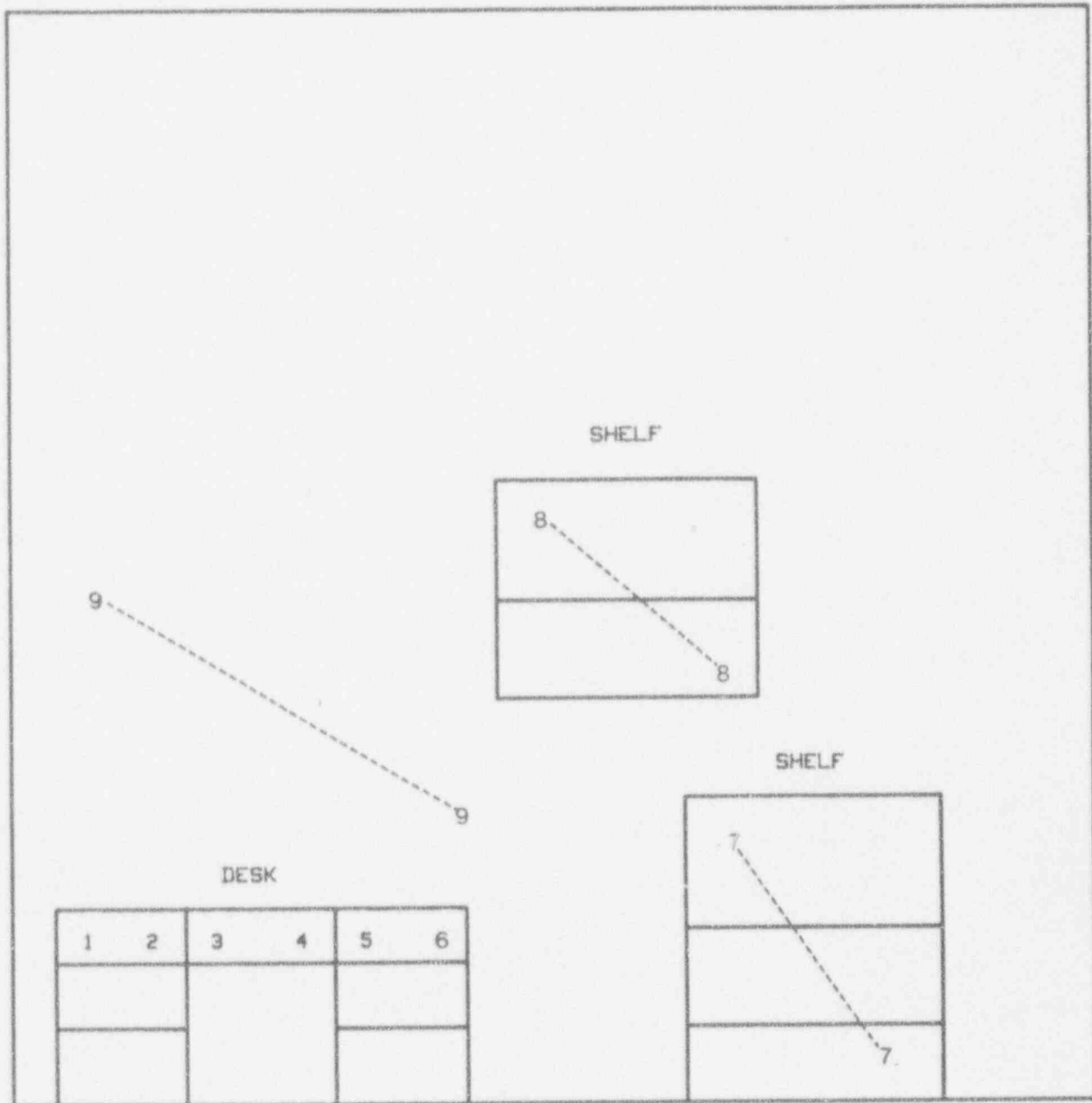
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-V1 VIEW-B

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-1 View C

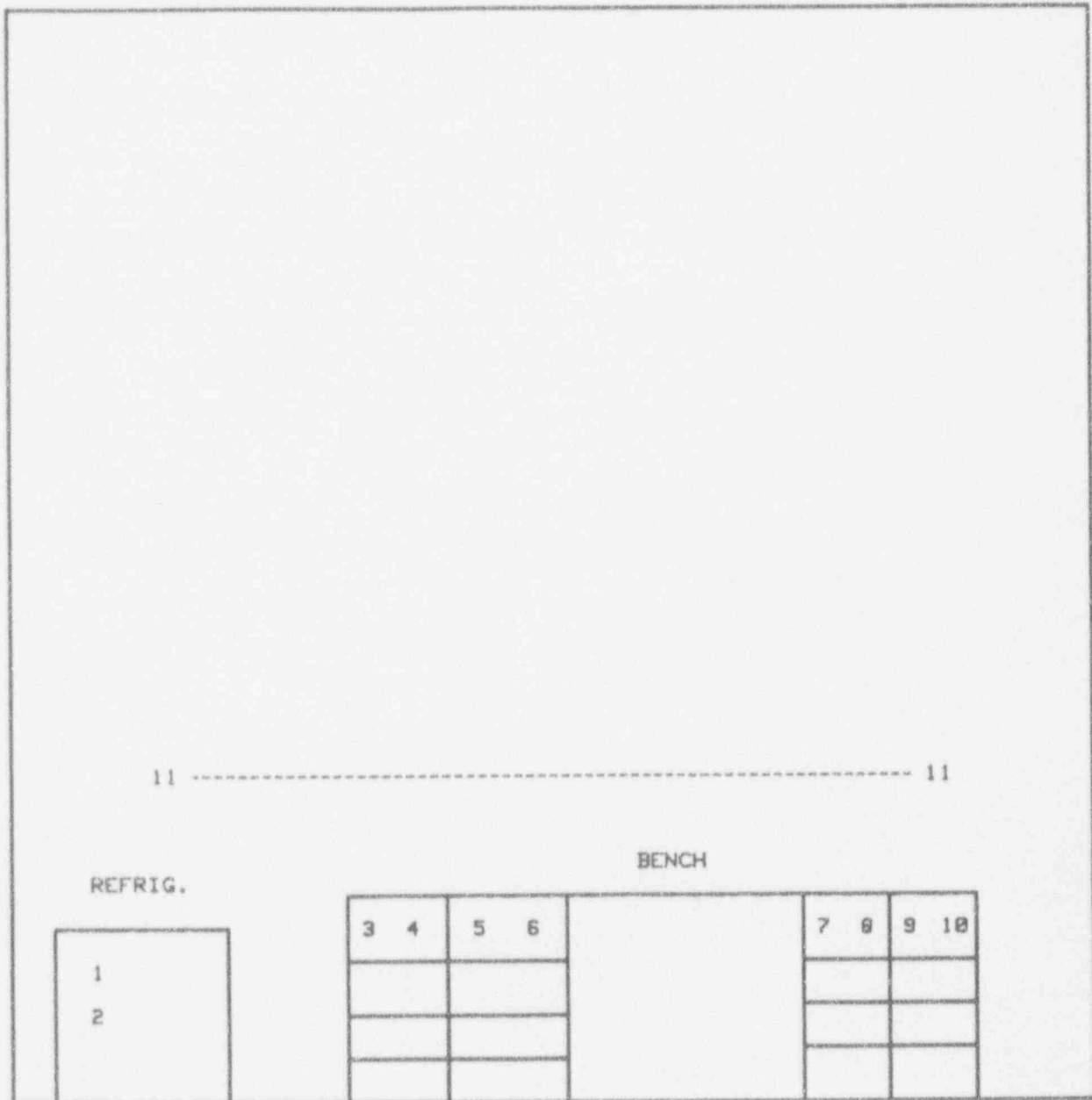
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25
11	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-V1 VIEW-C

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-9 Main View

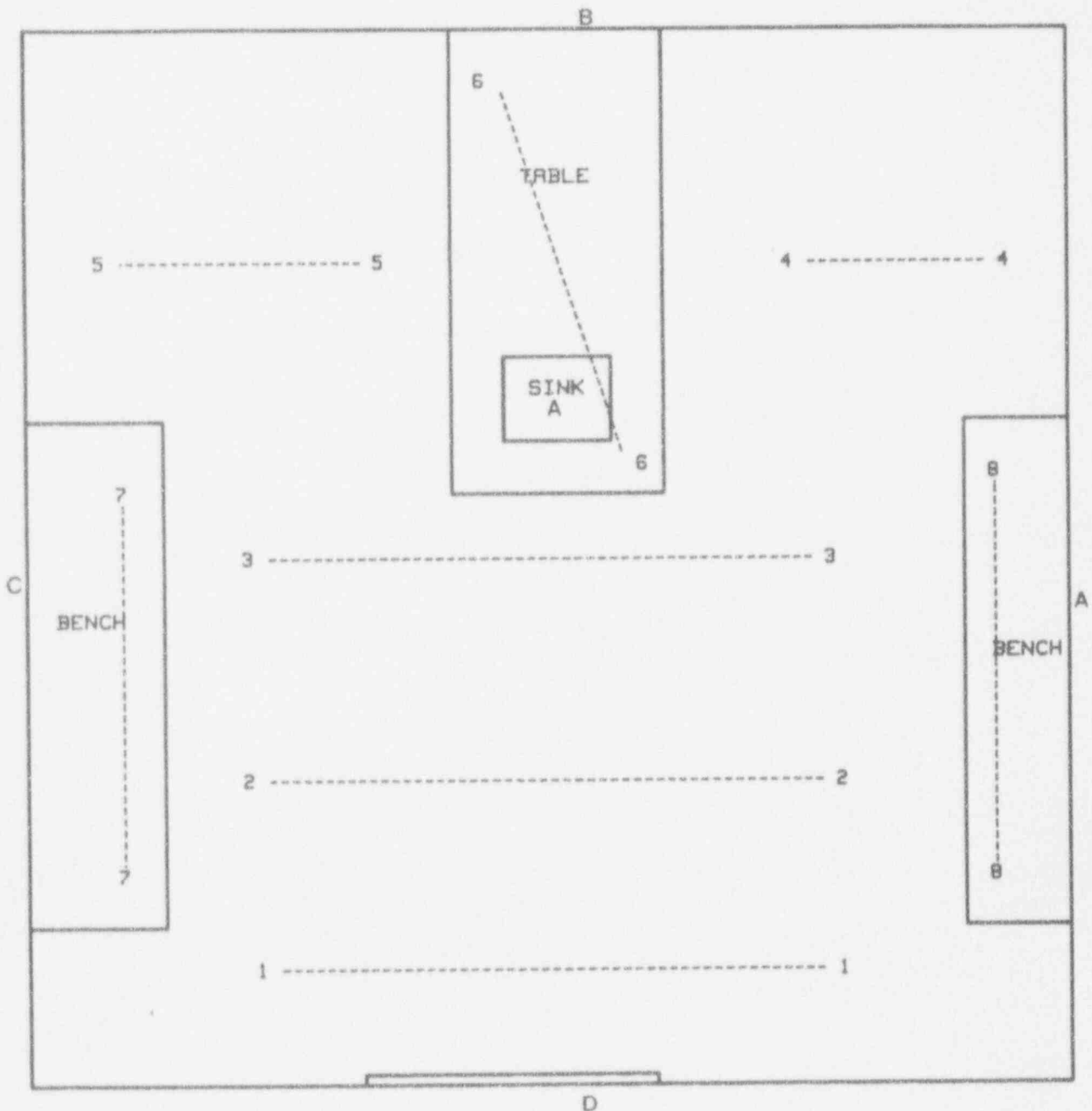
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	183 ±18	92
7	53 ±5	27
8	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-V9 MAIN VIEW

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING

LOCATION: V-9 View A

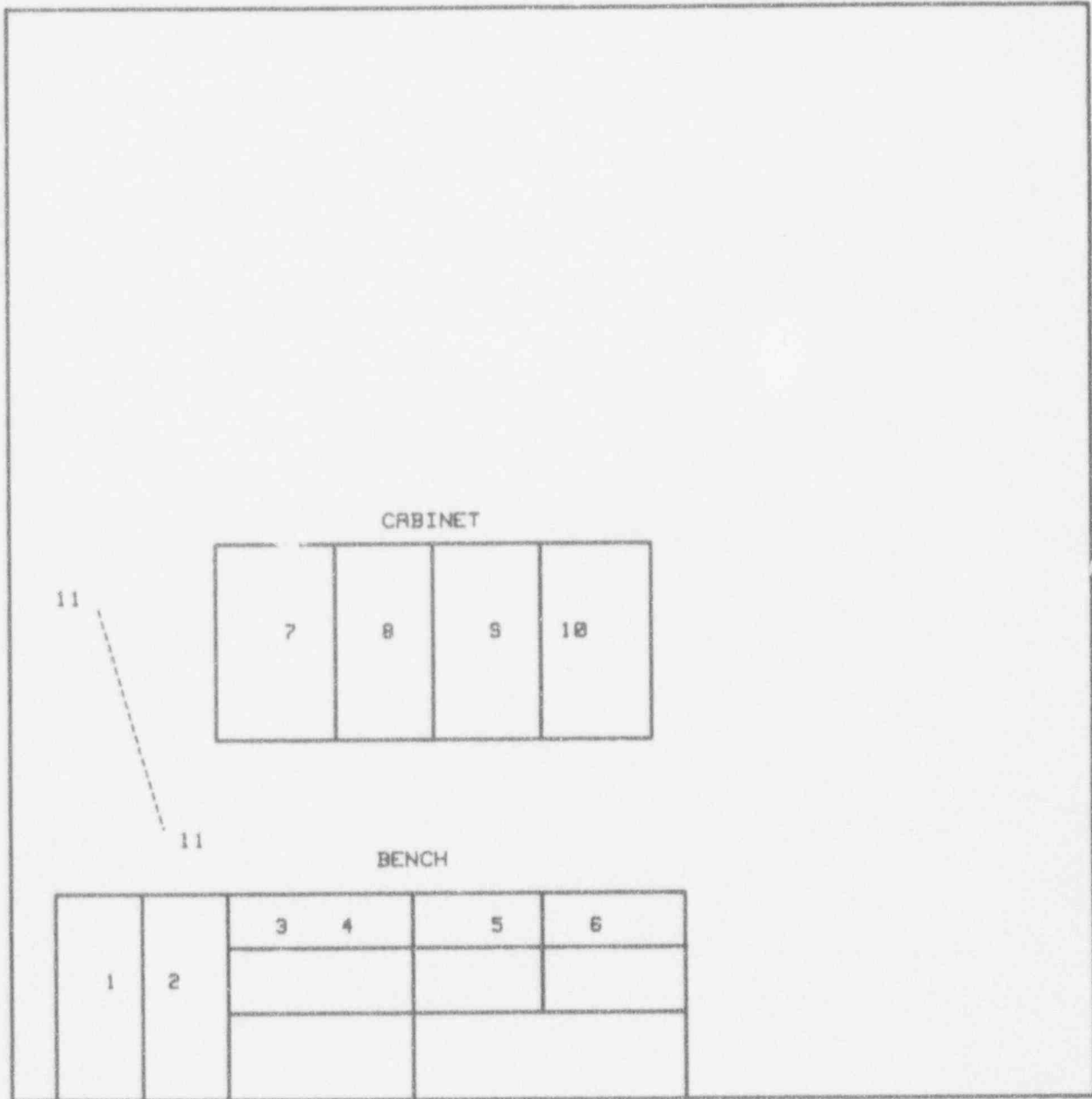
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25
11	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-V9 VIEW-R

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-9 View C

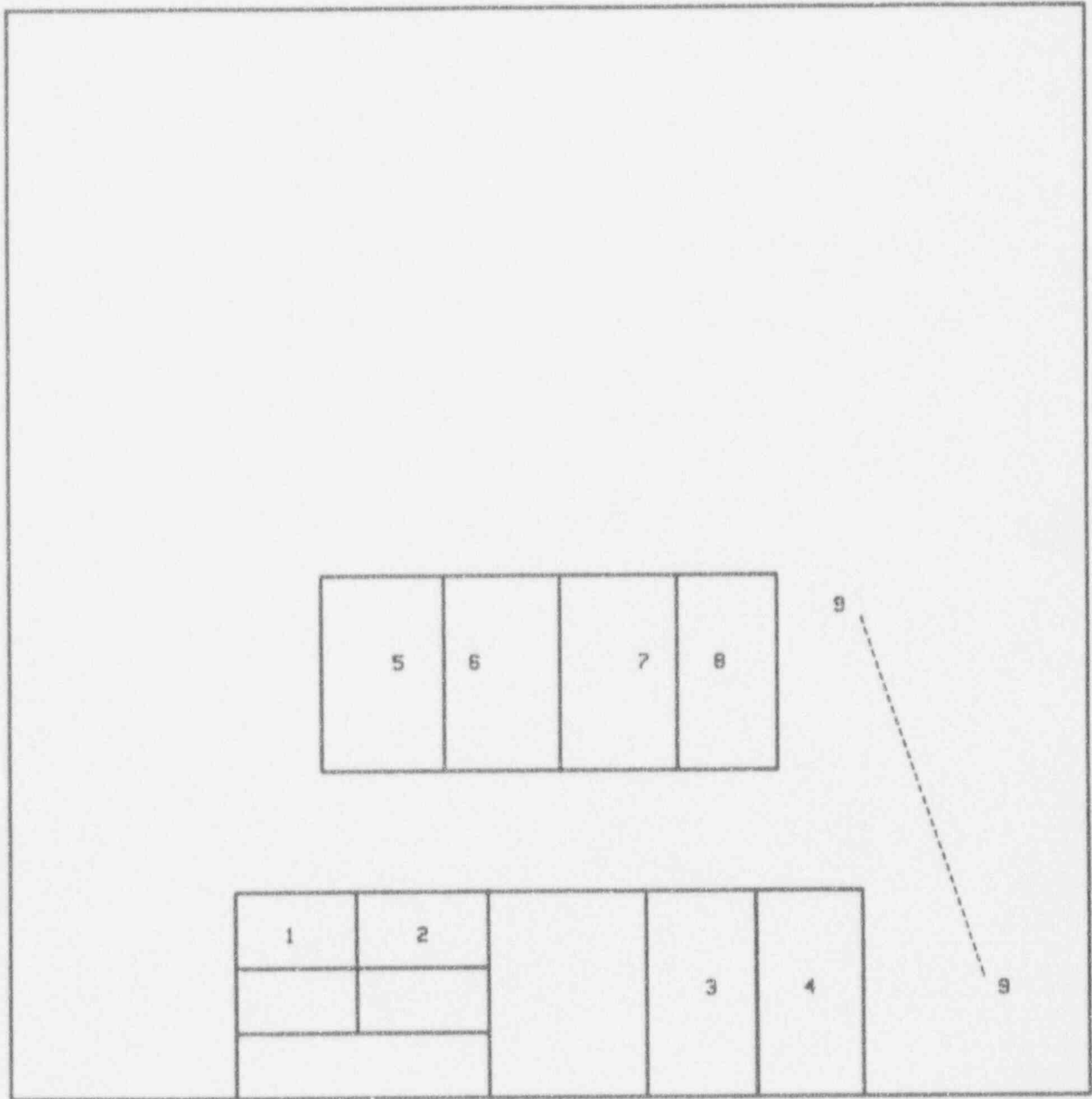
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25

● DIAGRAM OF SURVEYED AREA

LOCATION: V-V9 VIEW-C

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-32A Main View

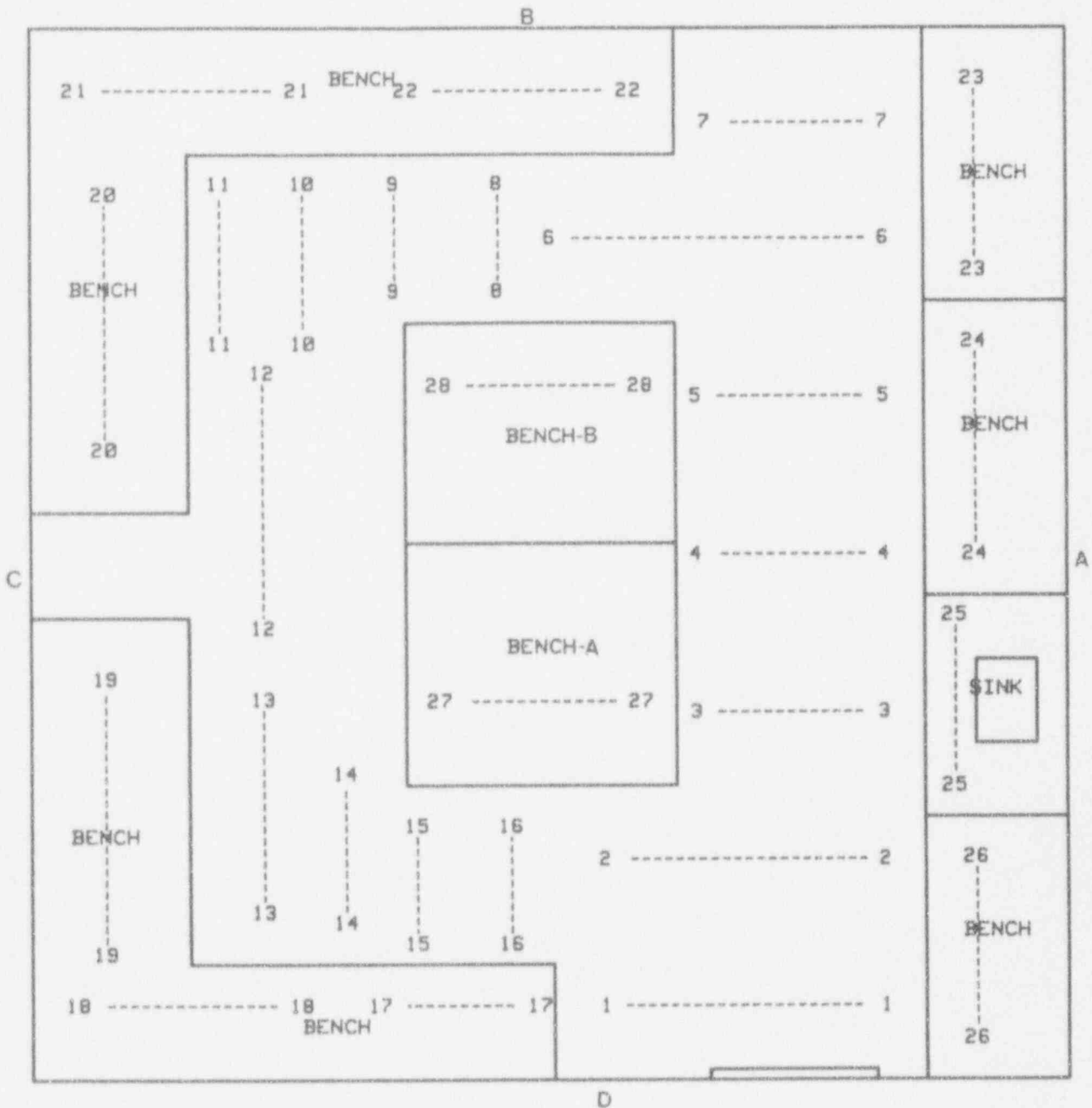
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25
11	<50	<25
12	<50	<25
13	<50	<25
14	<50	<25
15	<50	<25
16	<50	<25
17	800 ±80	400
18	<50	<25
19	<50	<25
20	<50	<25
21	<50	<25
22	<50	<25
23	147 ±15	74
24	<50	<25
25	141 ±14	71
26	<50	<25
27	162 ±16	81
28	239 ±24	120

DIAGRAM OF SURVEYED AREA

LOCATION: V-32-R MAIN VIEW

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-32A View A (Pre-decon)

SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	180 ±18	90
3	<50	<25
4	204 ±20	102
5	<50	<25
6	500 ±50	250
7	<50	<25
8	<50	<25
9	<50	<25
10	106 ±11	53
11	<50	<25
12	<50	<25
13	<50	<25
14	<50	<25
15	87 ±9	44
16	4578 ±458	2289
17	<50	<25
18	239 ±24	120
19	<50	<25
20	565 ±57	283
21	<50	<25
22	2636 ±264	1318

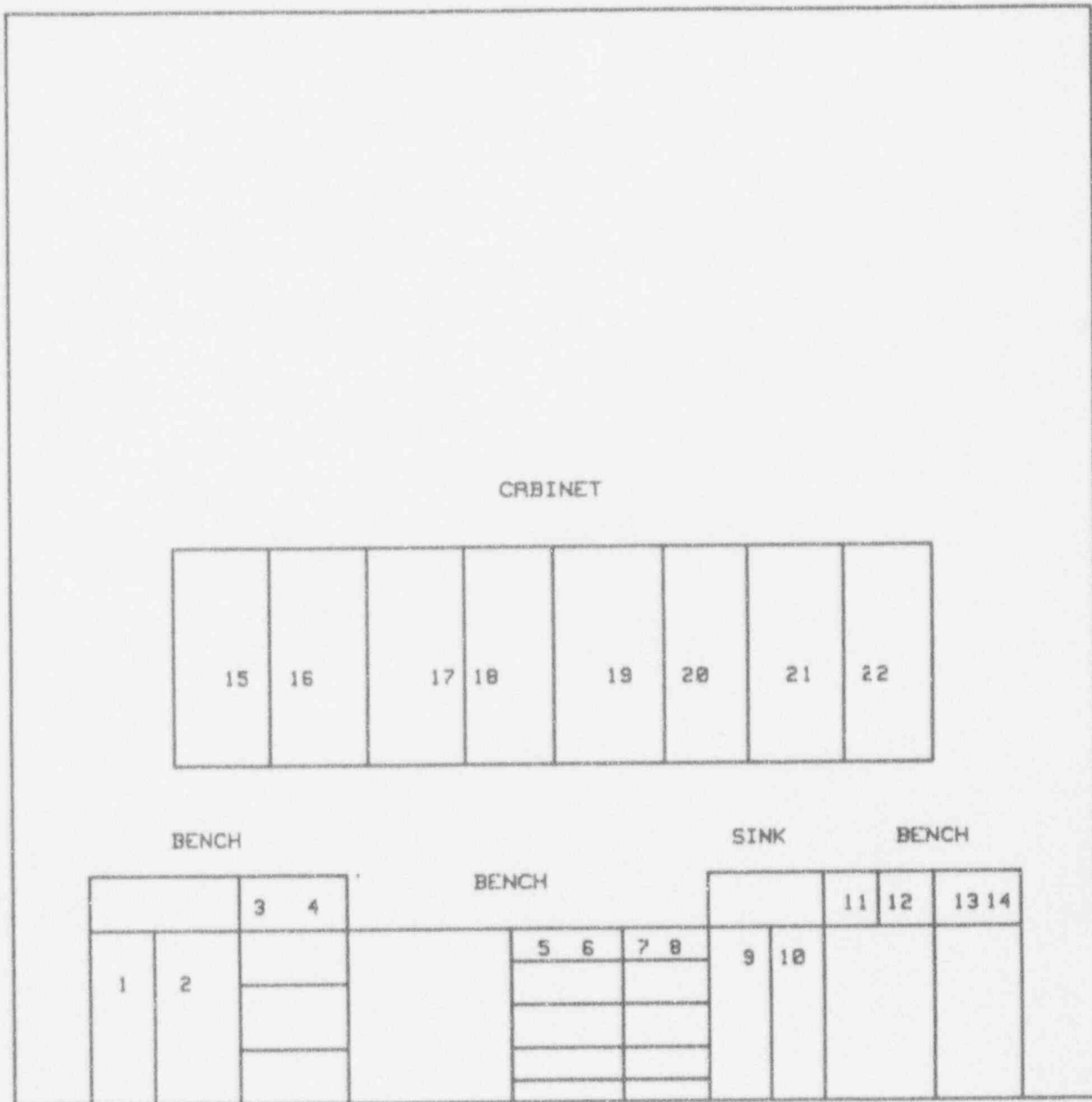
DIAGRAM OF SURVEYED AREA

LOCATION: V-32-R VIEW-R

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____

"INITIAL SURVEY"



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-32A View A (Post-decon)

Part A

SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25
11	<50	<25
12	<50	<25
13	<50	<25
14	<50	<25
15	<50	<25
16	<50	<25
17	91 ±9	46
18	<50	<25
19	<50	<25
20	<50	<25
21	<50	<25
22	<50	<25
23	<50	<25
24	<50	<25
25	<50	<25
26	<50	<25
27	<50	<25
28	55 ±6	28
29	<50	<25
30	<50	<25

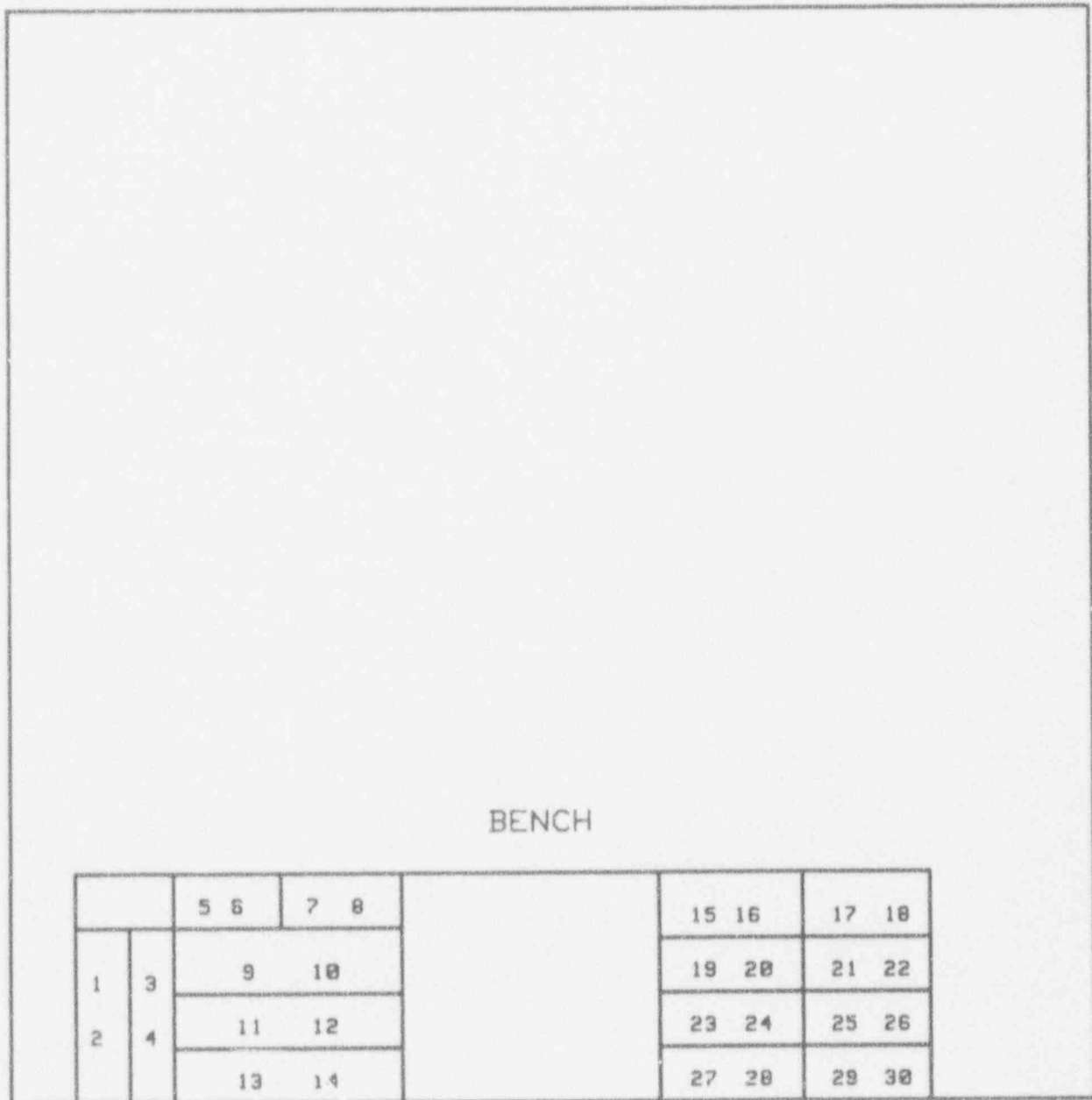
DIAGRAM OF SURVEYED AREA

LOCATION: V-32-A VIEW-A/PART-A

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____

"POST DECON SURVEY"



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-32A View A (Post-decon)

Part B

SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25
11	<50	<25
12	<50	<25
13	<50	<25
14	<50	<25
15	<50	<25
16	<50	<25
17	<50	<25
18	<50	<25
19	<50	<25
20	86 ±9	43
21	<50	<25
22	<50	<25
23	<50	<25
24	<50	<25
25	<50	<25
26	<50	<25
27	<50	<25
28	<50	<25
29	126 ±13	63
30	286 ±29	143

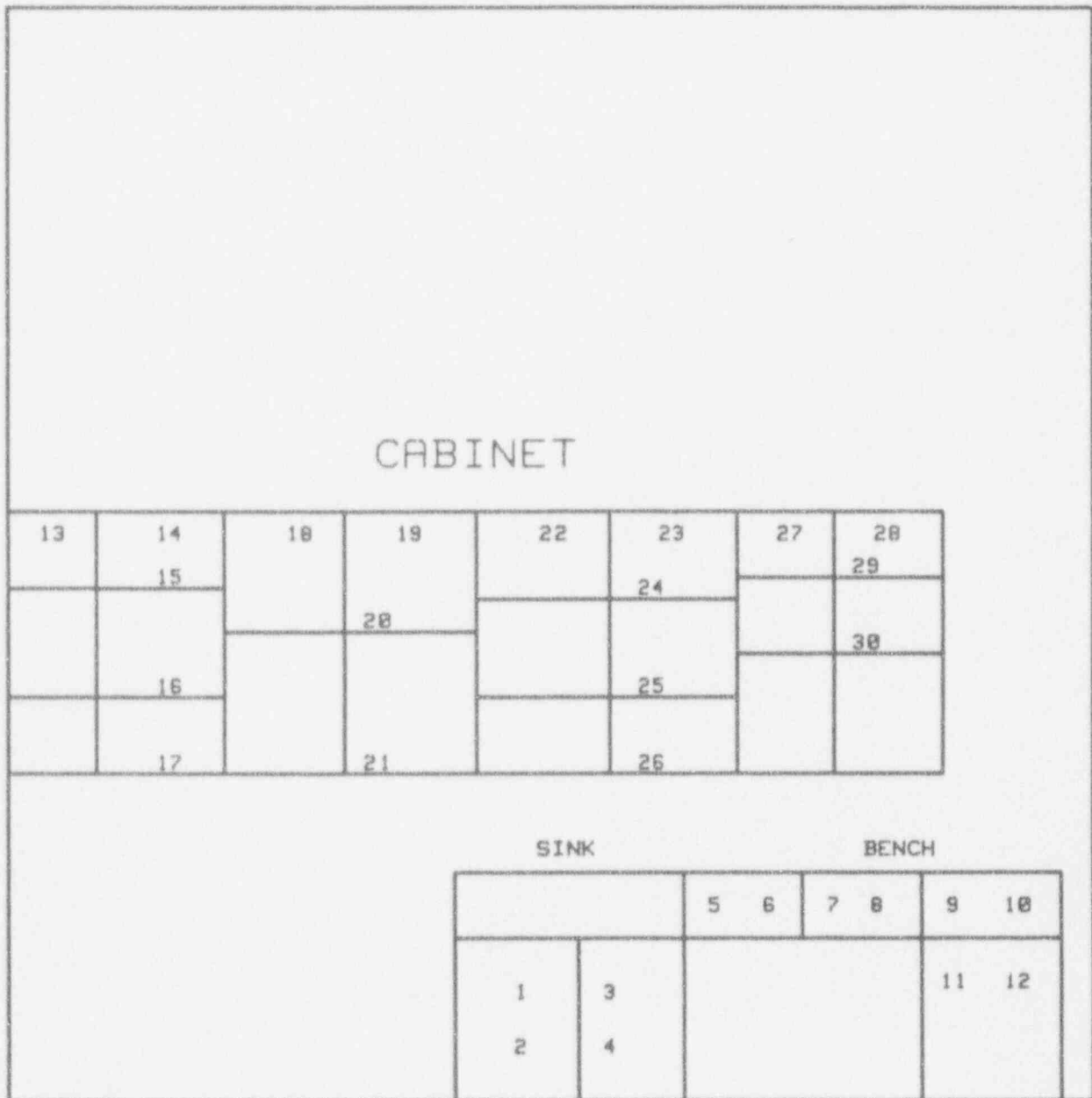
DIAGRAM OF SURVEYED AREA

LOCATION: V-32-R VIEW-R/PART-B

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____

"POST DECON SURVEY"



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-32A View B

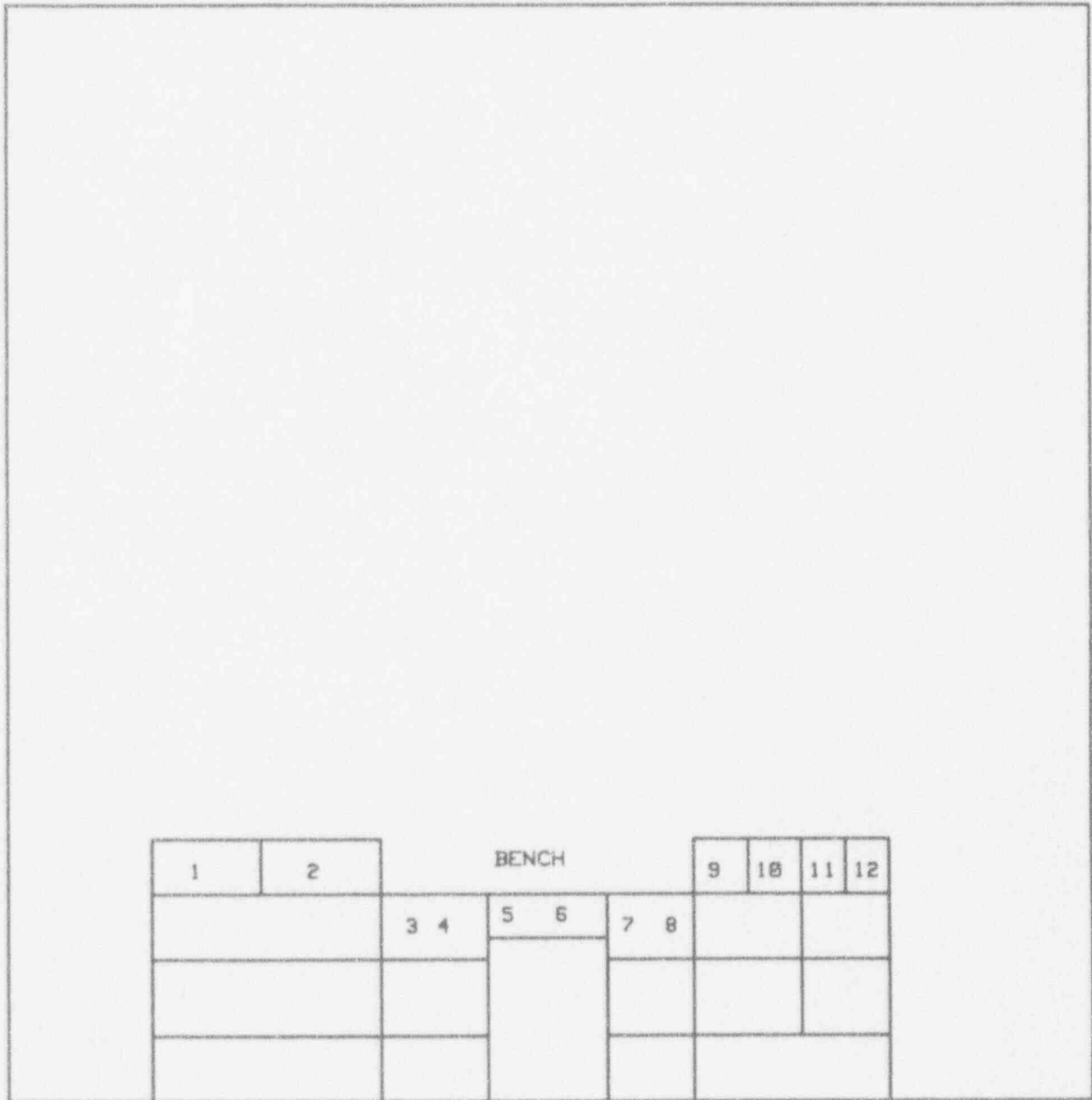
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	70 ±7	35
8	<50	<25
9	<50	<25
10	<50	<25
11	<50	<25
12	114 ±11	57

DIAGRAM OF SURVEYED AREA

LOCATION: V-32-R VIEW-B

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-32A View C

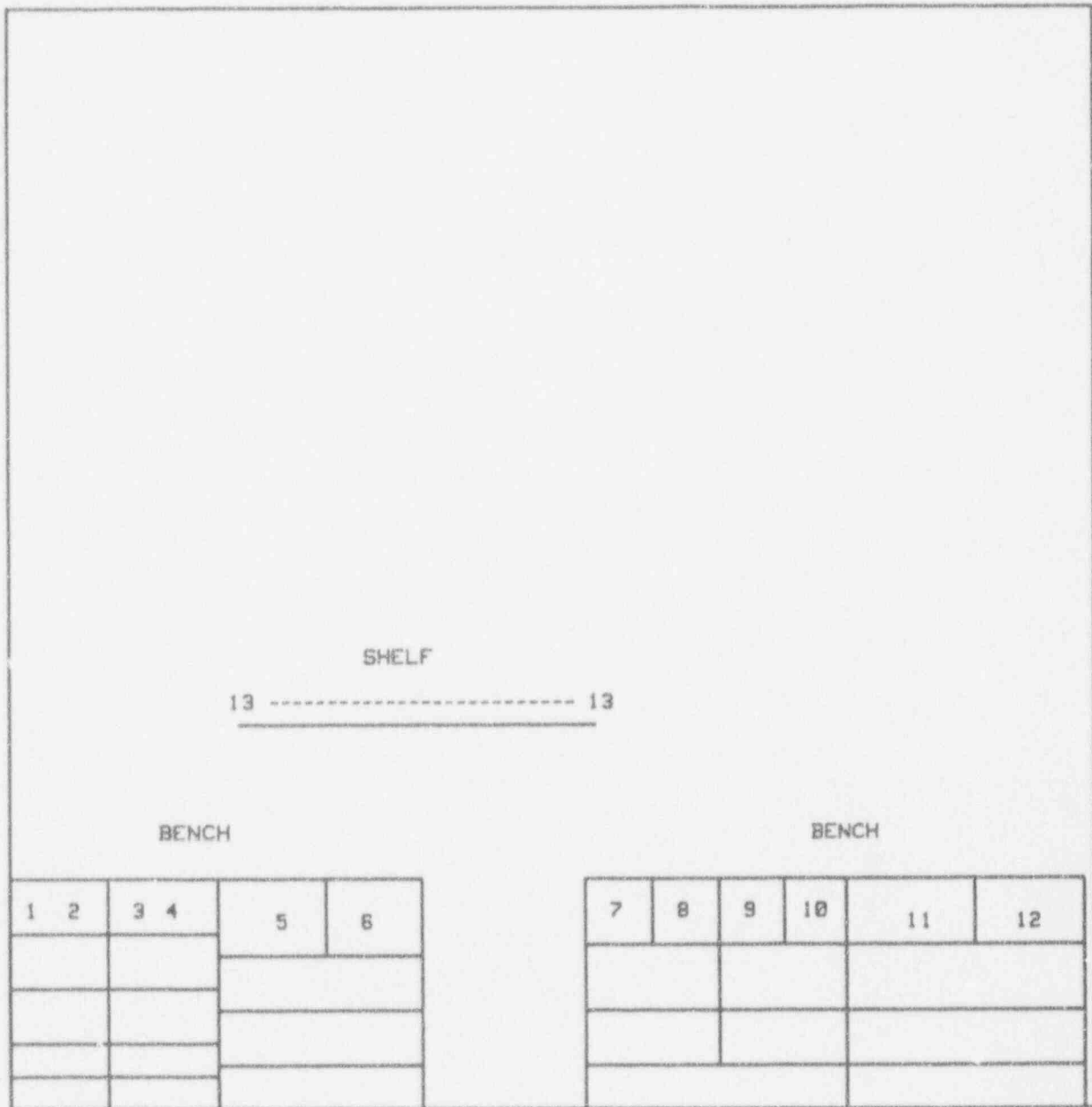
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	197 ±20	99
3	<50	<25
4	608 ±61	304
5	<50	<25
6	426 ±43	213
7	<50	<25
8	337 ±34	169
9	146 ±15	73
10	919 ±92	460
11	79 ±8	40
12	141 ±14	71
13	677 ±68	339

DIAGRAM OF SURVEYED AREA

LOCATION: V32-R VIEW-C

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-32A View D (Pre-decon)

SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25
11	<50	<25
12	<50	<25
13	<50	<25
14	<50	<25
15	<50	<25
16	<50	<25
17	<50	<25
18	266 ±27	133
19	380 ±38	190
20	4963 ±496	2482

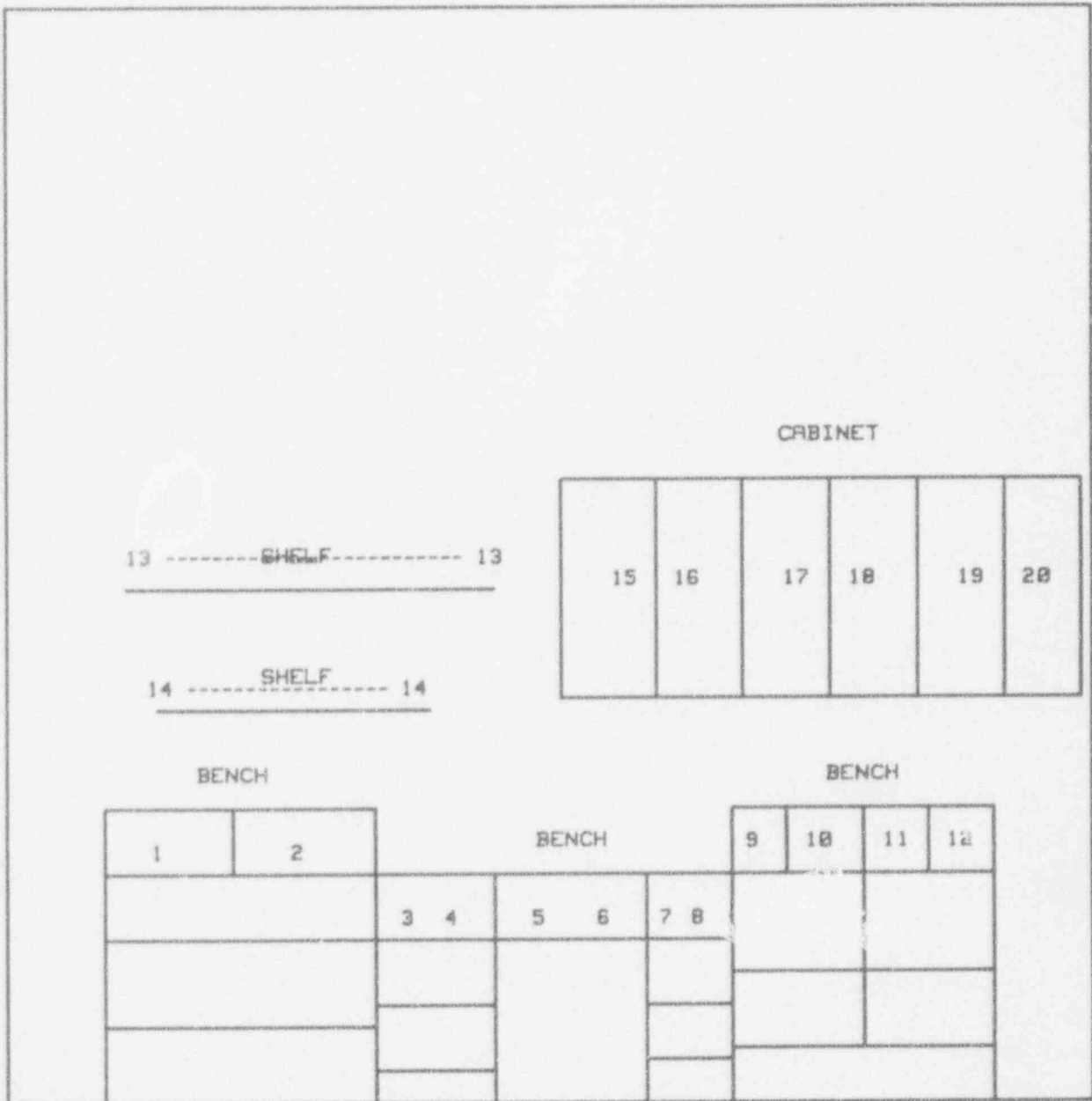
DIAGRAM OF SURVEYED AREA

LOCATION: V-32-R VIEW-D

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____

"INITIAL SURVEY"



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-32A View D (Post-decon)

Part A

SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	145 ±15	73
7	<50	<25
8	<50	<25
9	<50	<25
10	260 ±26	130
11	398 ±40	199
12	<50	<25
13	<50	<25
14	<50	<25
15	<50	<25
16	<50	<25
17	<50	<25
18	<50	<25
19	<50	<25
20	<50	<25
21	<50	<25
22	<50	<25
23	<50	<25
24	<50	<25
25	<50	<25
26	<50	<25
27	<50	<25
28	<50	<25
29	<50	<25

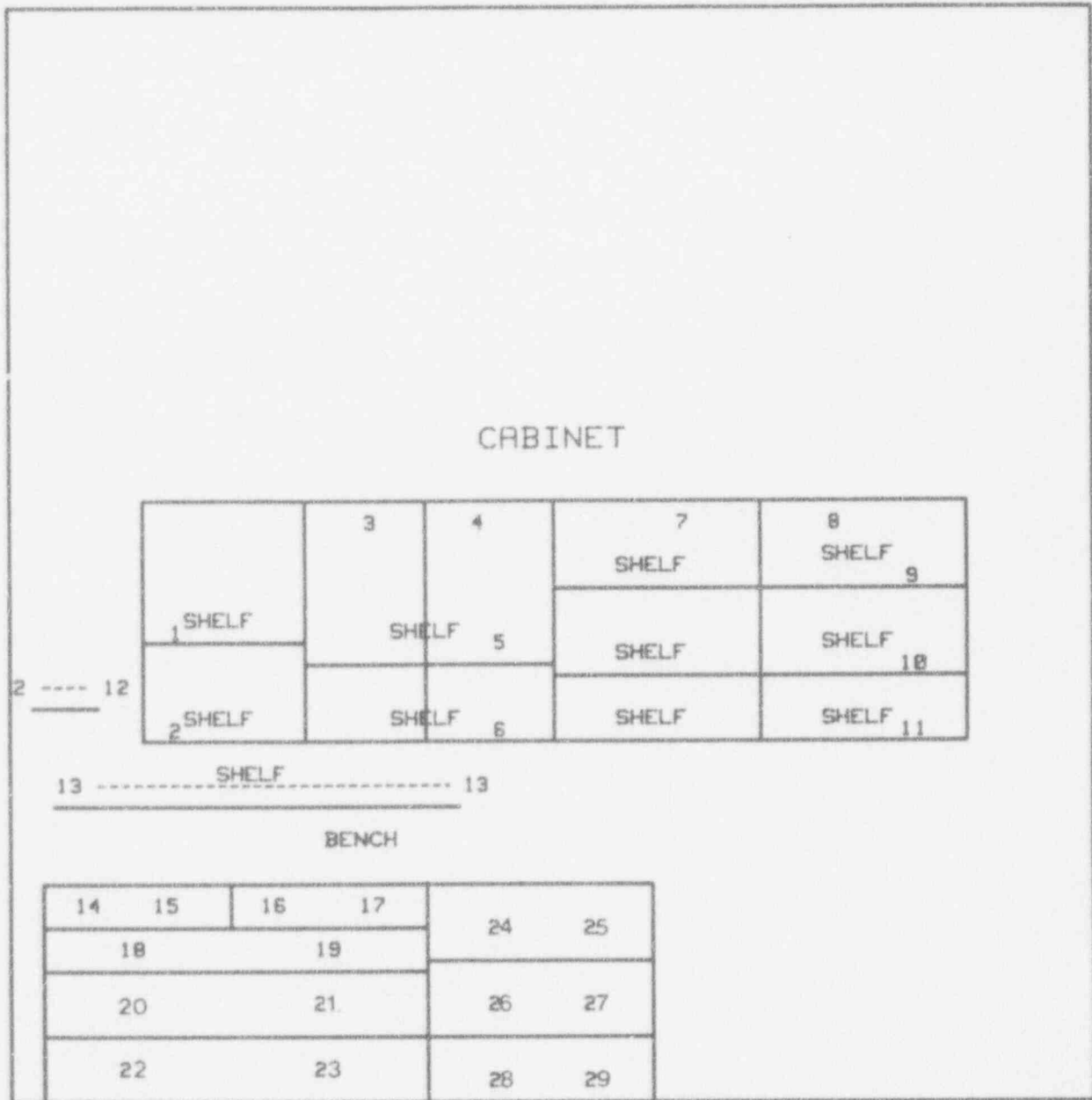
DIAGRAM OF SURVEYED AREA

LOCATION: V-32-R VIEW-D/PART-R

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____

'POST DECON SURVEY'



SMEAR RESULTS
 BY LIQUID SCINTILLATION
 COUNTING

LOCATION: V-32A View D (Post-decon)

Part B

SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25
11	<50	<25
12	<50	<25
13	<50	<25
14	<50	<25
15	<50	<25
16	<50	<25
17	<50	<25
18	<50	<25
19	109 ±11	55
20	<50	<25
21	<50	<25
22	<50	<25
23	<50	<25
24	<50	<25

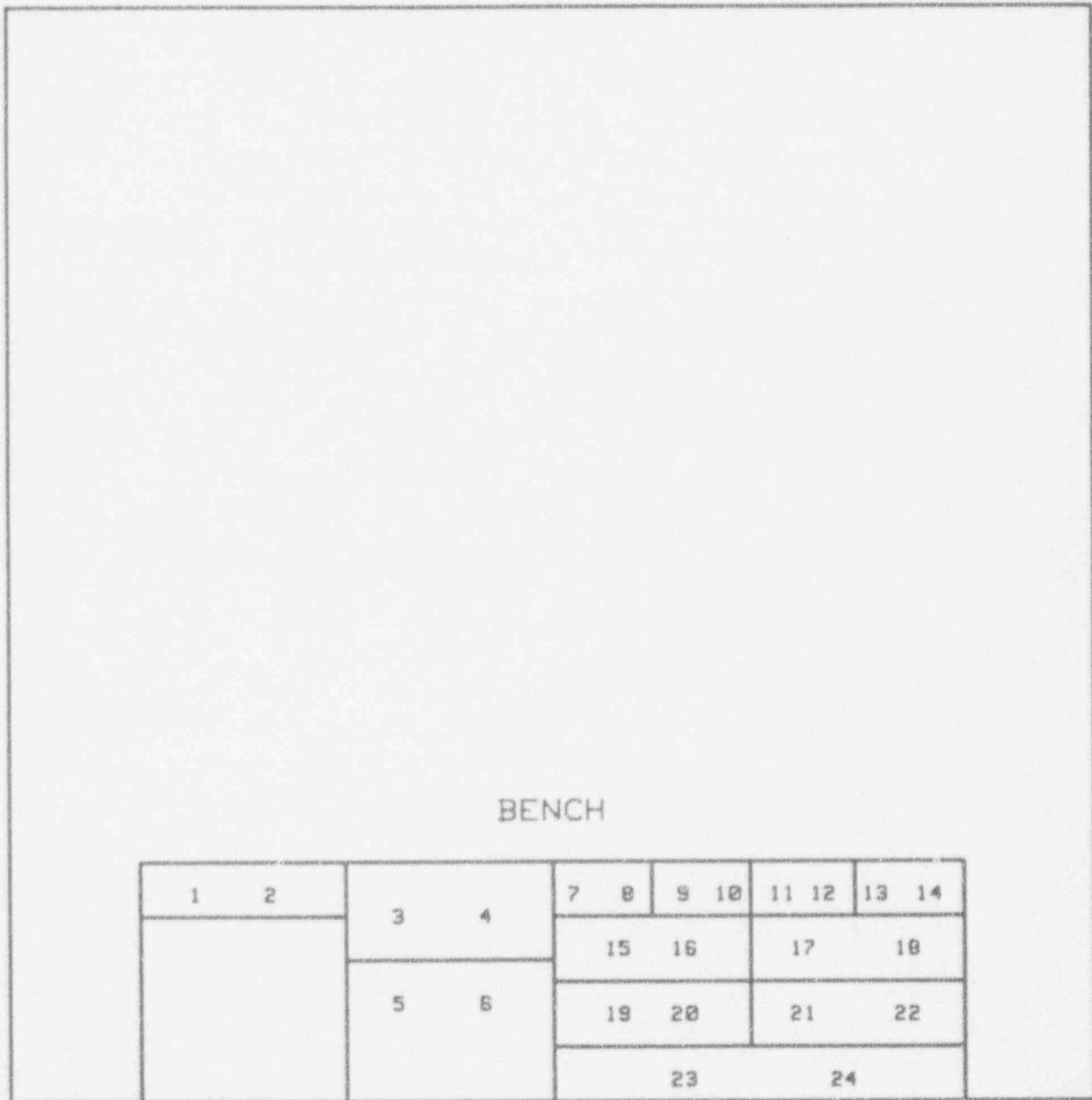
DIAGRAM OF SURVEYED AREA

LOCATION: V-32-R VIEW-D/PART-B

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____

"POST DECON SURVEY"



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-32A Island A (Pre-decon)

SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	424 ±42	212
7	<50	<25
8	267 ±27	134
9	137 ±14	69
10	190 ±19	95
11	1057 ±106	529
12	115 ±12	58

**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-32A Island A (Post-decon)

Part A

SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	330 ±33	165
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25
11	<50	<25
12	<50	<25
13	<50	<25
14	<50	<25
15	<50	<25
16	66 ±7	33
17	<50	<25
18	<50	<25
19	<50	<25
20	<50	<25
21	<50	<25
22	<50	<25
23	<50	<25
24	<50	<25
25	<50	<25
26	<50	<25
27	<50	<25
28	<50	<25
29	67 ±7	34

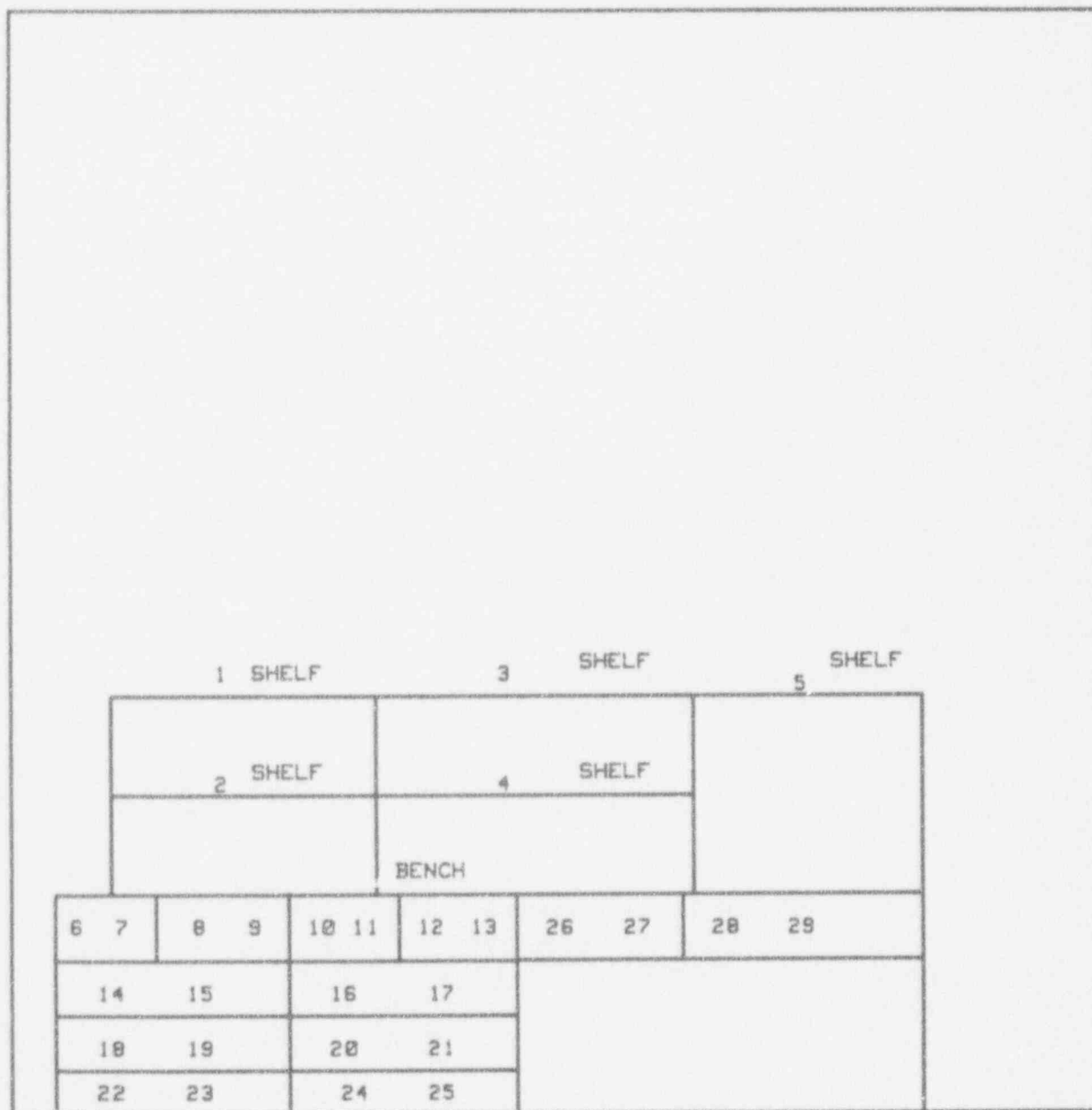
DIAGRAM OF SURVEYED AREA

LOCATION: V-32-A ISLAND-A/PART-A

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____

'POST DECON SURVEY'



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**
LOCATION: V-32A Island A (Post-decon)
Part B

SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	70 ±7	35
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25
11	346 ±35	173
12	<50	<25
13	<50	<25
14	<50	<25
15	<50	<25
16	<50	<25
17	<50	<25
18	<50	<25
19	<50	<25
20	<50	<25
21	<50	<25
22	<50	<25
23	115 ±12	58
24	491 ±49	246

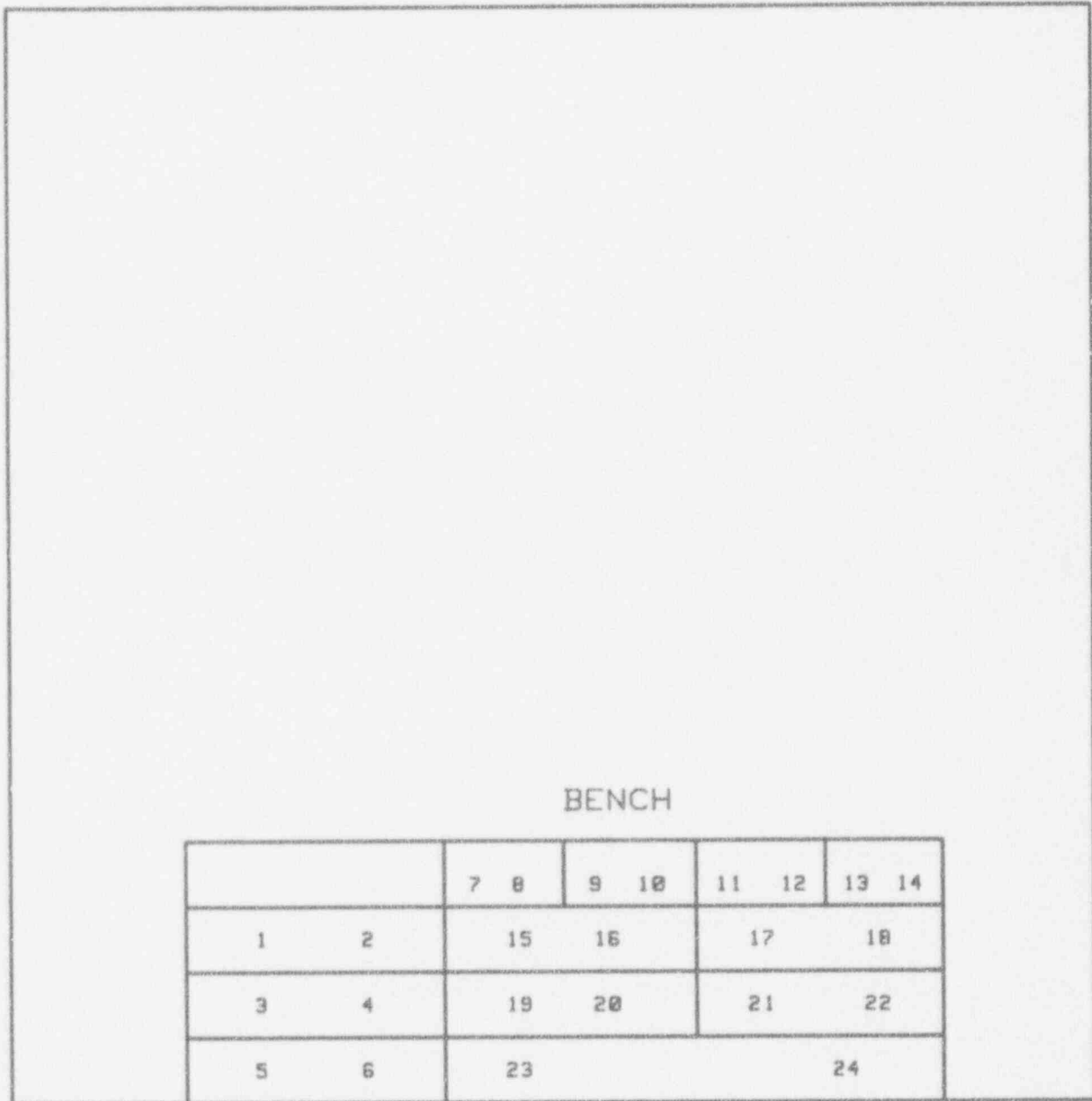
DIAGRAM OF SURVEYED AREA

LOCATION: V-32--A ISLAND-A/PART-B

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____

'POST DECON SURVEY'



SMEAR RESULTS
 BY LIQUID SCINTILLATION
 COUNTING

LOCATION: V-32A Island B (Pre-decon)

SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	1005 ±101	506
3	<50	<25
4	3179 ±318	1590
5	<50	<25
6	305 ±31	153
7	561 ±56	282
8	3733 ±373	1867
9	<50	<25
10	575 ±58	288

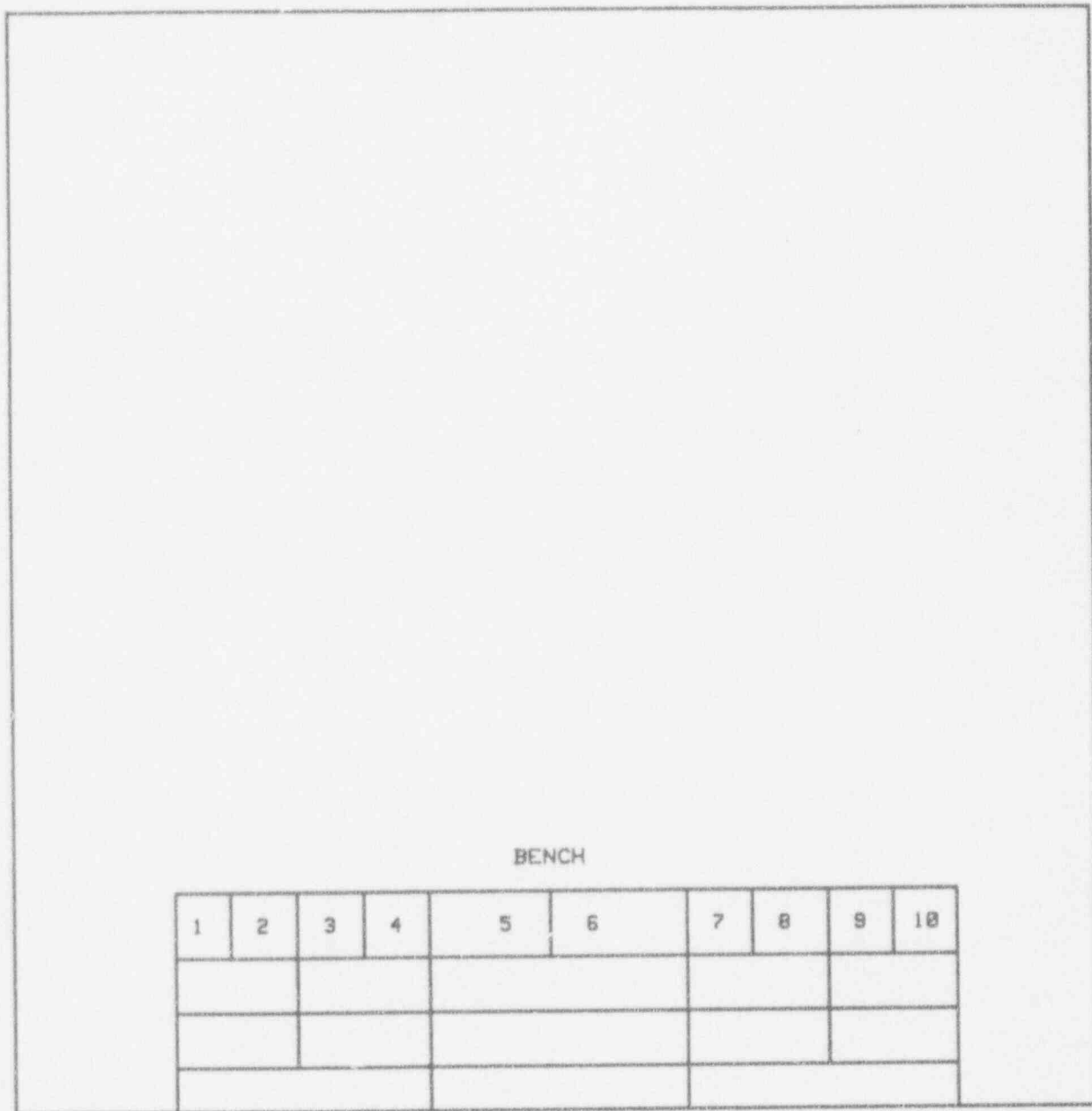
DIAGRAM OF SURVEYED AREA

LOCATION: V-32-R ISLRND-B

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____

"INITIAL SURVEY"



SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING

LOCATION: V-32A Island B (Post-decon)

Part A

SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25
11	<50	<25
12	<50	<25
13	<50	<25
14	<50	<25
15	<50	<25
16	86 ±9	43
17	<50	<25
18	167 ±17	84
19	<50	<25
20	<50	<25
21	<50	<25
22	<50	<25
23	<50	<25
24	218 ±22	109
25	<50	<25
26	<50	<25
27	<50	<25
28	<50	<25

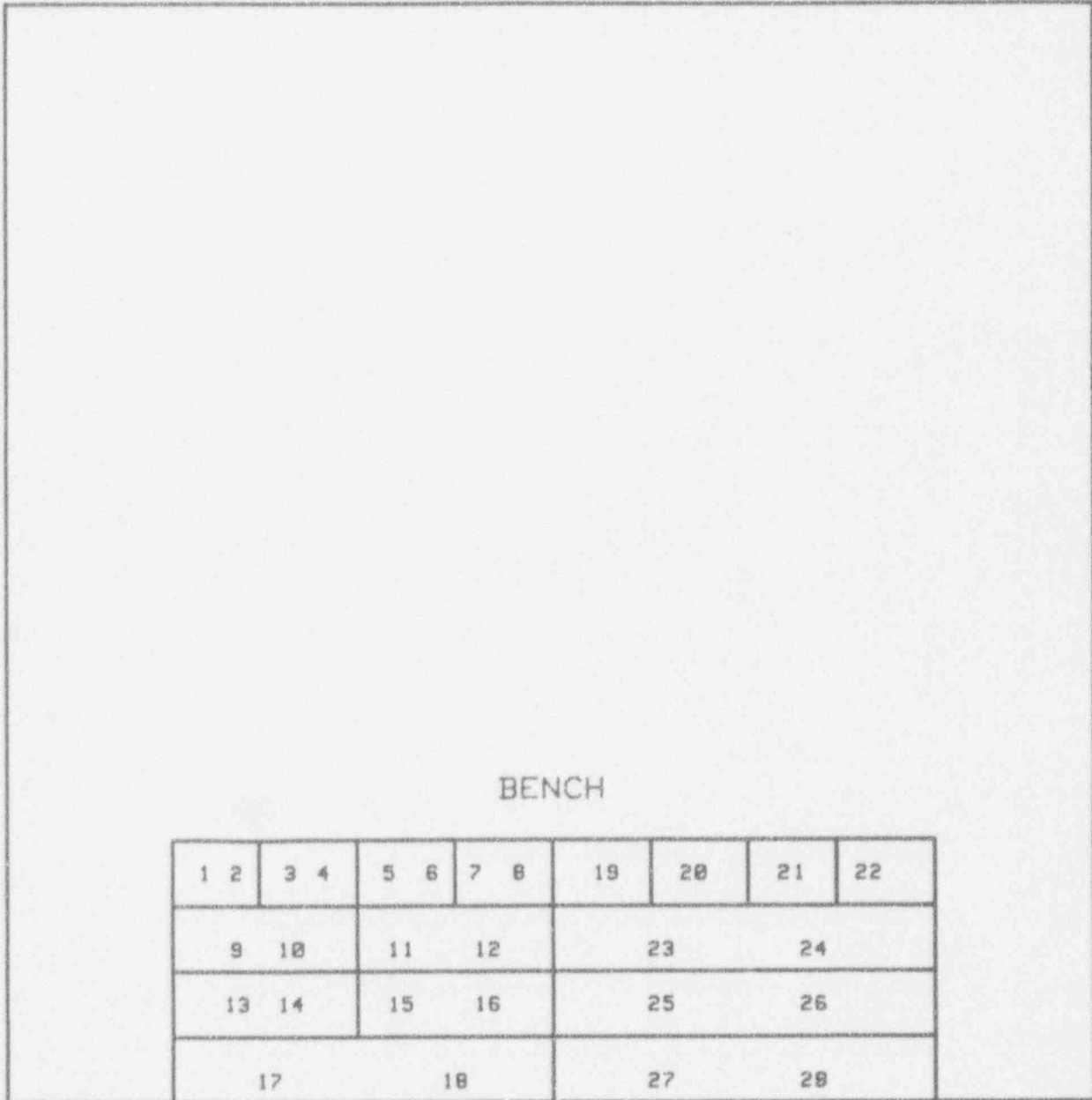
DIAGRAM OF SURVEYED AREA

LOCATION: V-32-R ISLAND-B/PART-R

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____

"POST DECON SURVEY"



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-32A Island B (Post-decon)

Part B

SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	421 ±42	211
3	<50	<25
4	100 ±10	50
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	134 ±13	67
11	<50	<25
12	<50	<25
13	283 ±28	142
14	<50	<25
15	<50	<25
16	<50	<25
17	<50	<25
18	<50	<25

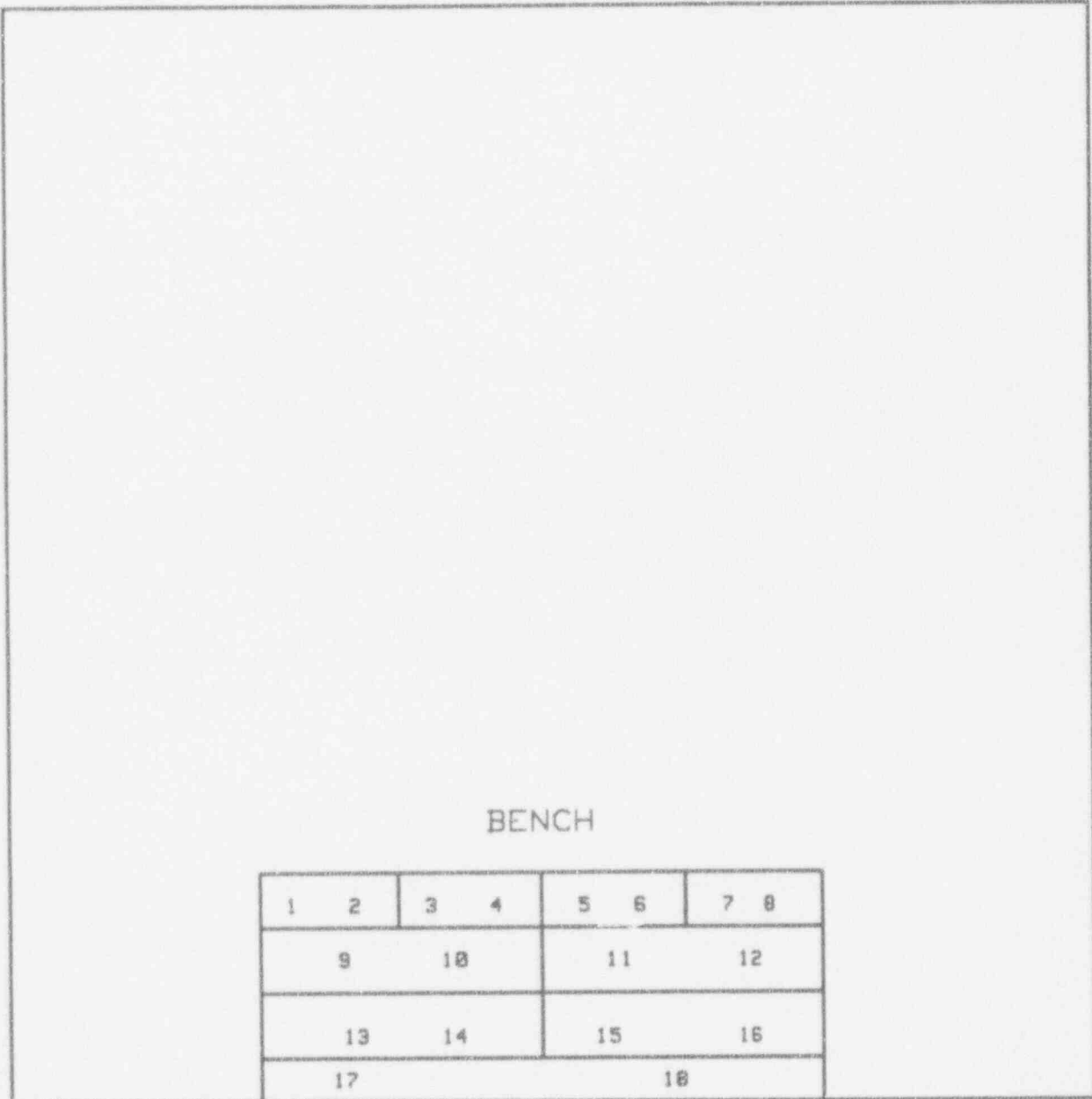
DIAGRAM OF SURVEYED AREA

LOCATION: V-32-R ISLAND-B/PART-B

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____

'POST DECON SURVEY'



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-33 Main View

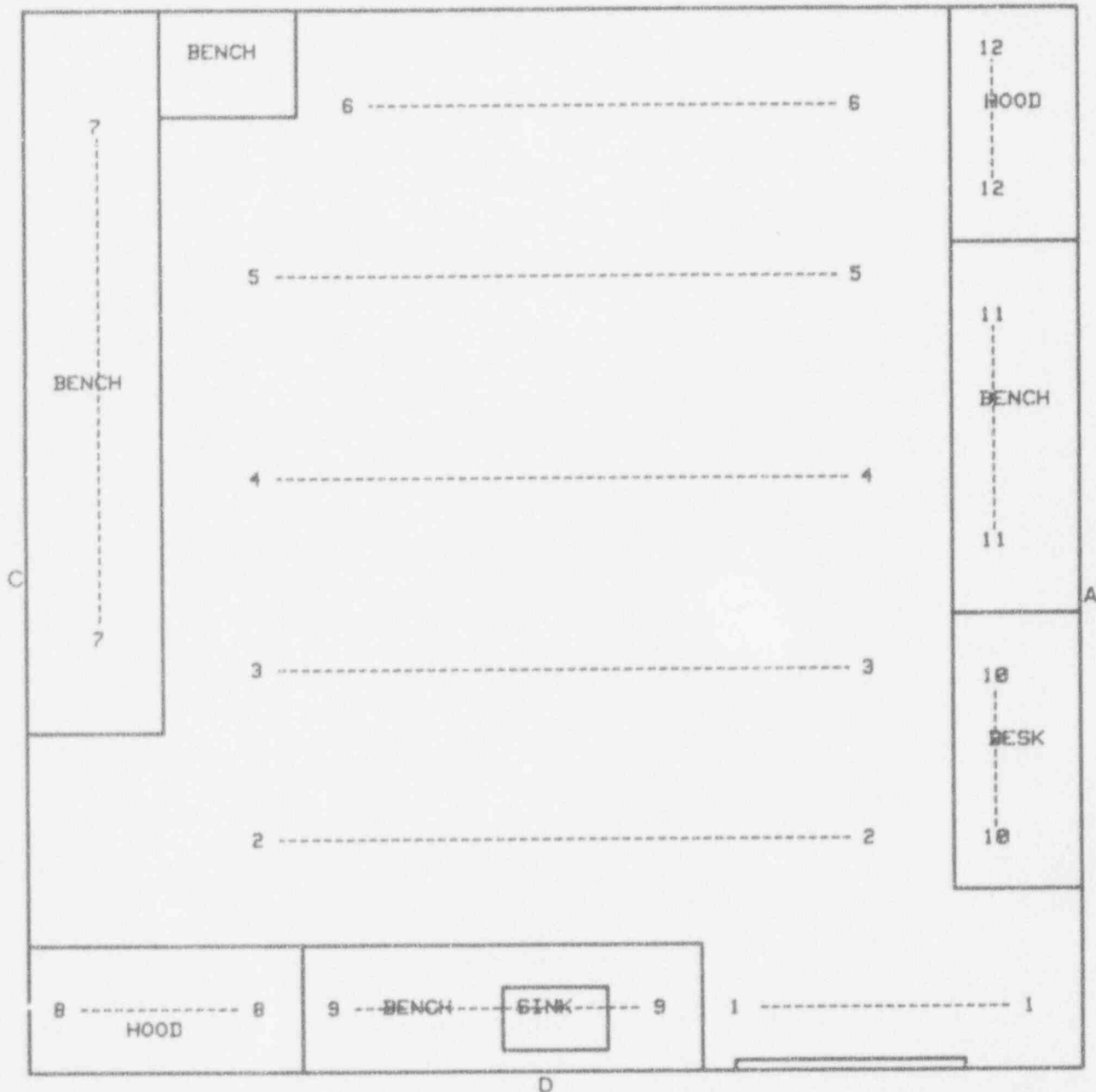
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25
11	<50	<25
12	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-V33 MAIN VIEW

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-33 View A

SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	458 ±46	229
9	<50	<25
10	<50	<25
11	448 ±45	224
12	<50	<25
13	<50	<25
14	<50	<25
15	<50	<25
16	<50	<25
17	<50	<25
18	<50	<25
19	<50	<25
20	<50	<25
21	<50	<25

**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-33 View C

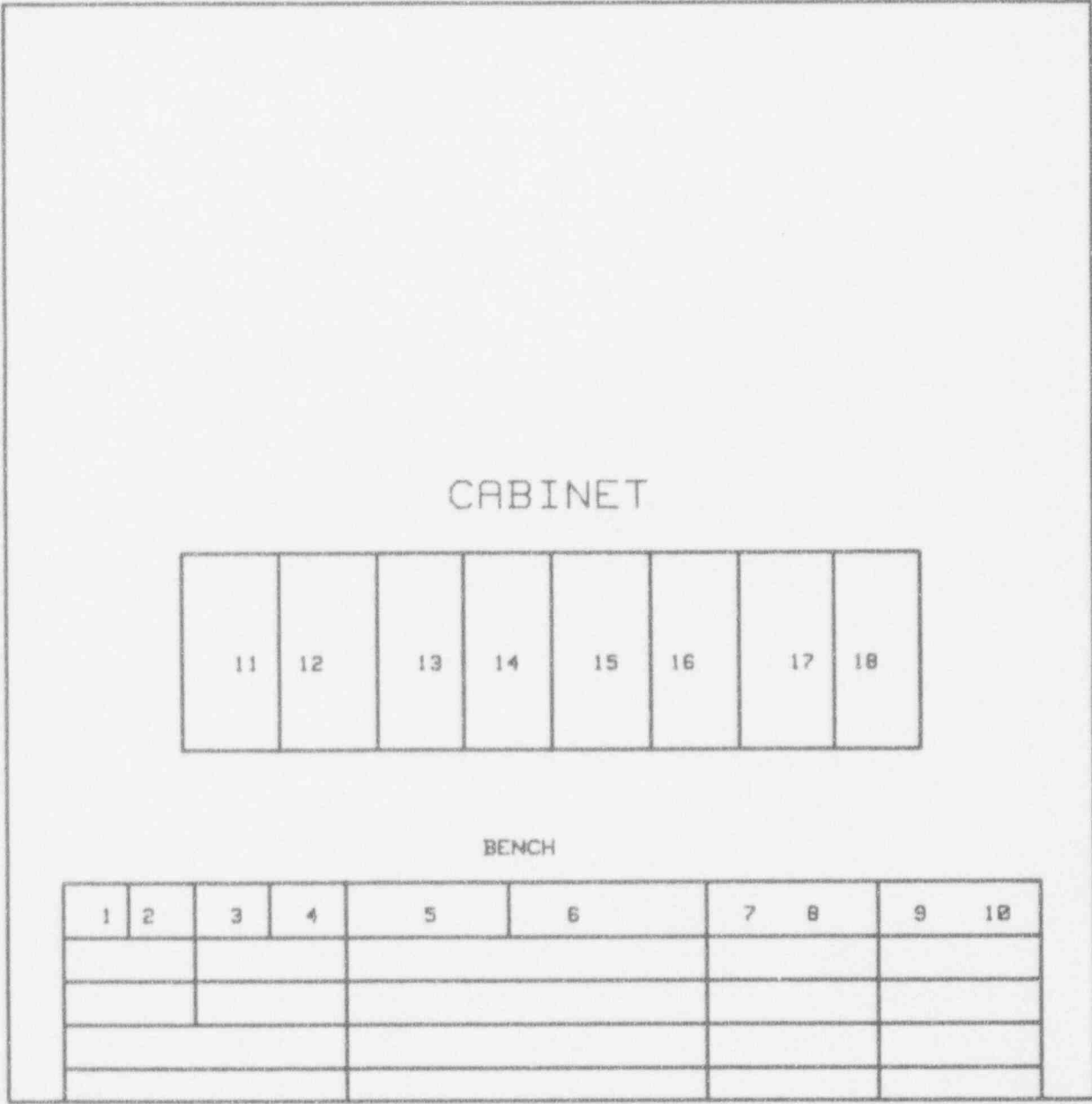
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	500 ±50	250
10	<50	<25
11	<50	<25
12	<50	<25
13	<50	<25
14	<50	<25
15	139 ±14	70
16	<50	<25
17	<50	<25
18	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-V33 VIEW-C

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-33 View D

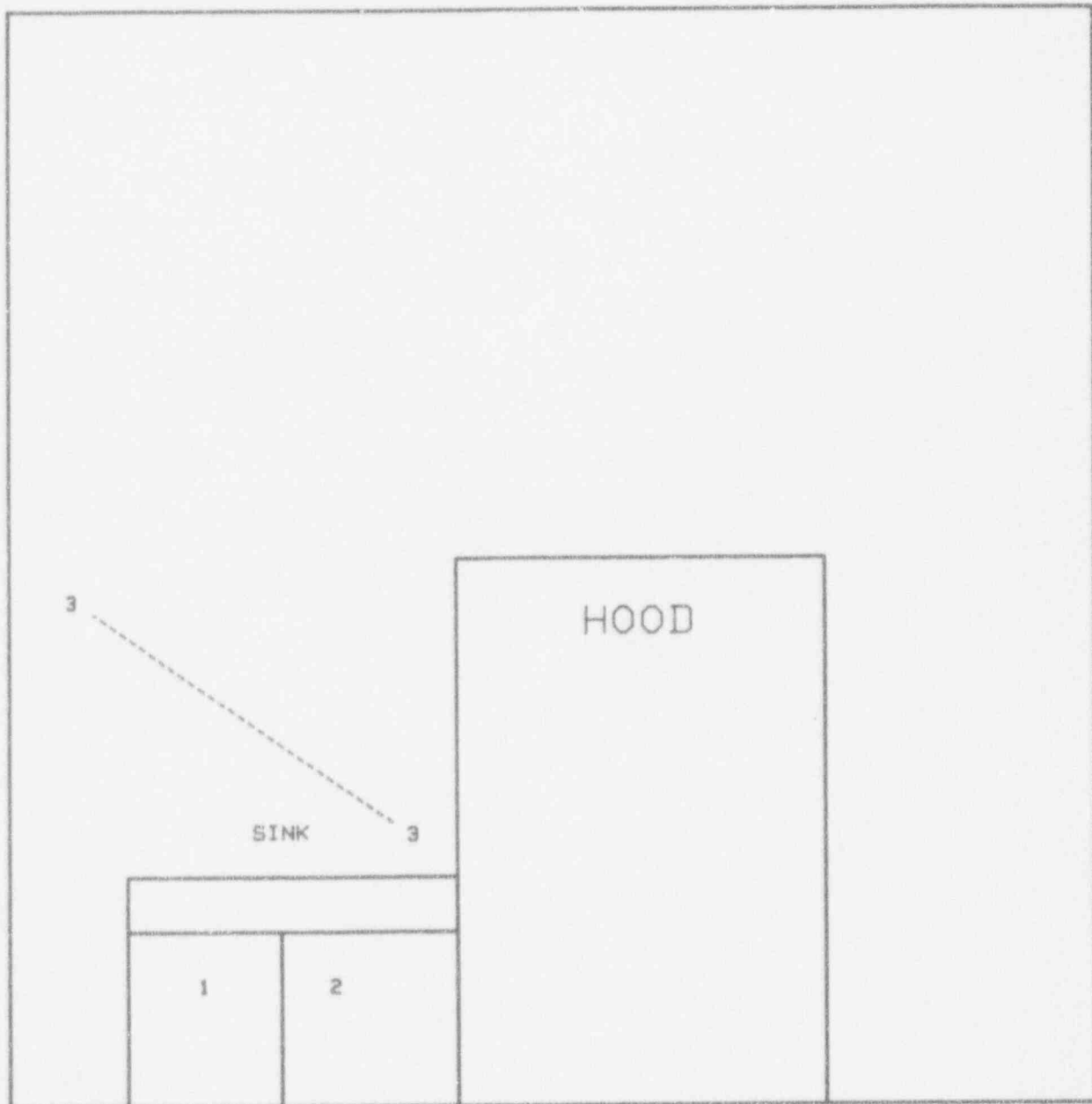
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	607 ±61	304

● DIAGRAM OF SURVEYED AREA

LOCATION: V-V33 VIEW-D

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



SMEAR RESULTS
 BY LIQUID SCINTILLATION
 COUNTING

LOCATION: V-33 Hood 1

SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	73 ±7	37
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	72 ±7	36
10	<50	<25

**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-103 Main View

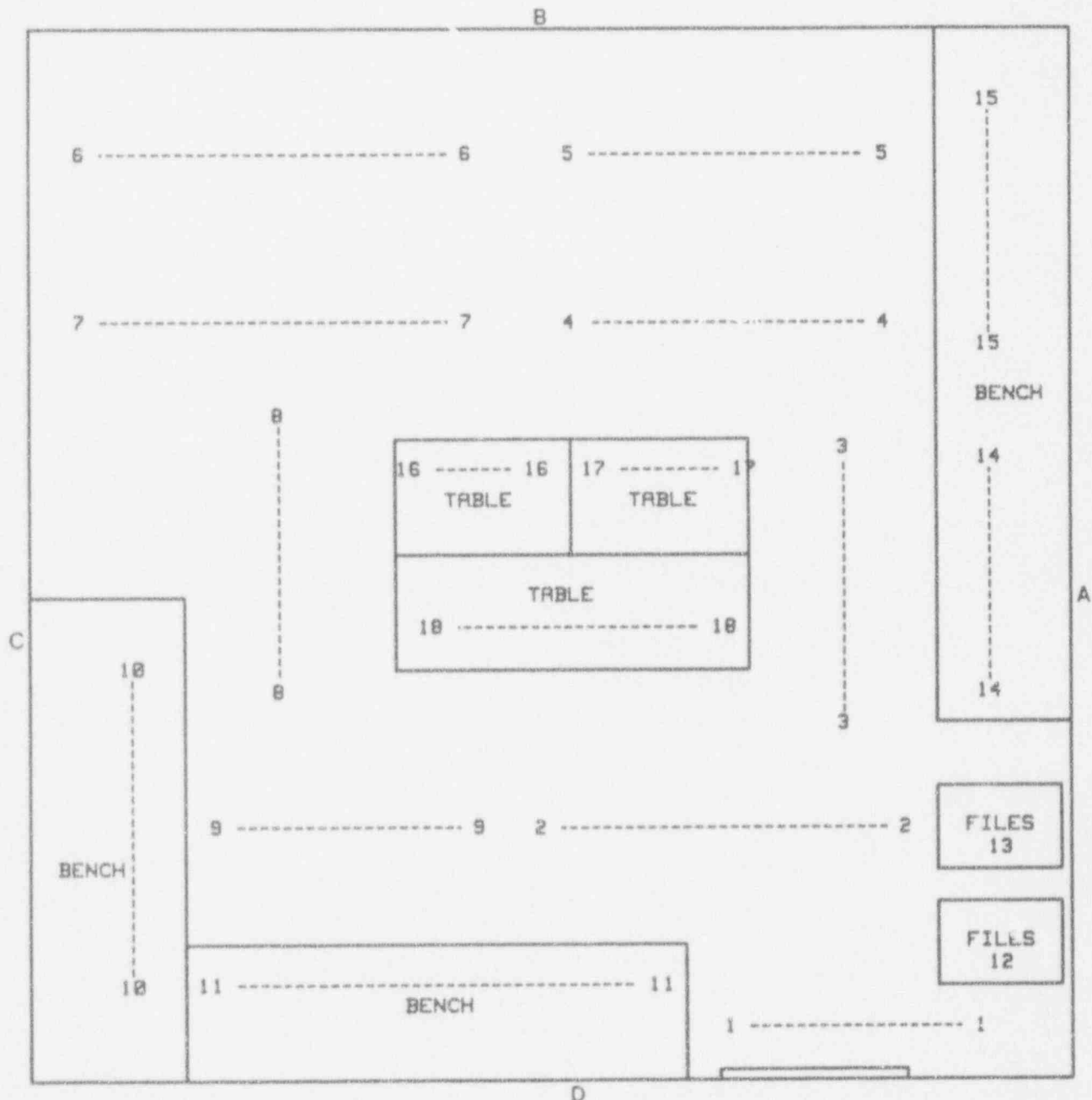
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25
11	<50	<25
12	<50	<25
13	<50	<25
14	<50	<25
15	<50	<25
16	<50	<25
17	<50	<25
18	<50	<25

● DIAGRAM OF SURVEYED AREA

LOCATION: V-103 MAIN VIEW

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



SMEAR RESULTS
 BY LIQUID SCINTILLATION
 COUNTING

LOCATION: V-103 View A

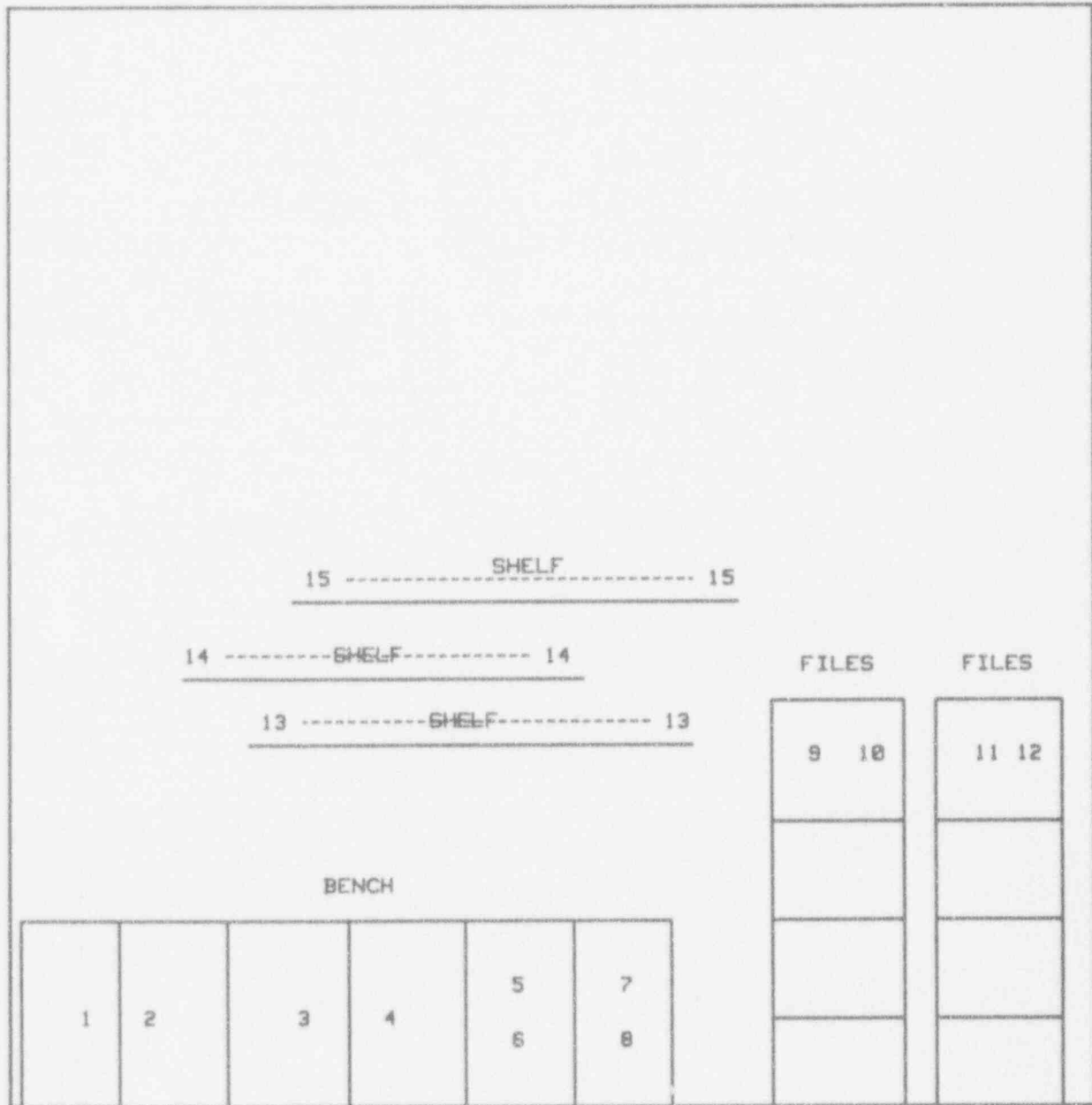
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25
11	<50	<25
12	<50	<25
13	<50	<25
14	<50	<25
15	<50	<25

● DIAGRAM OF SURVEYED AREA

LOCATION: V-103 VIEW-R

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-103 View C

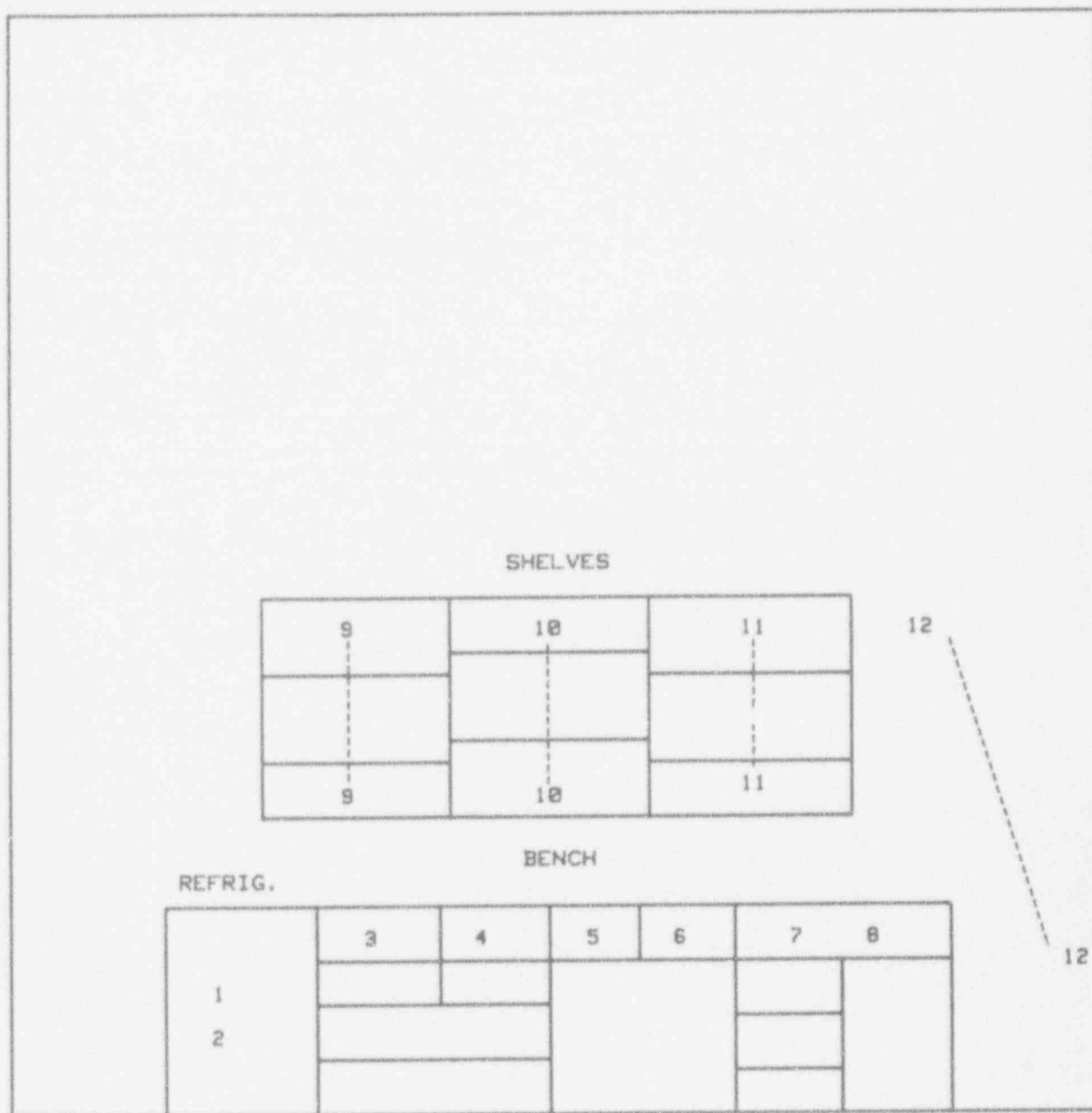
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25
11	<50	<25
12	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-103 VIEW-C

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-103 View D

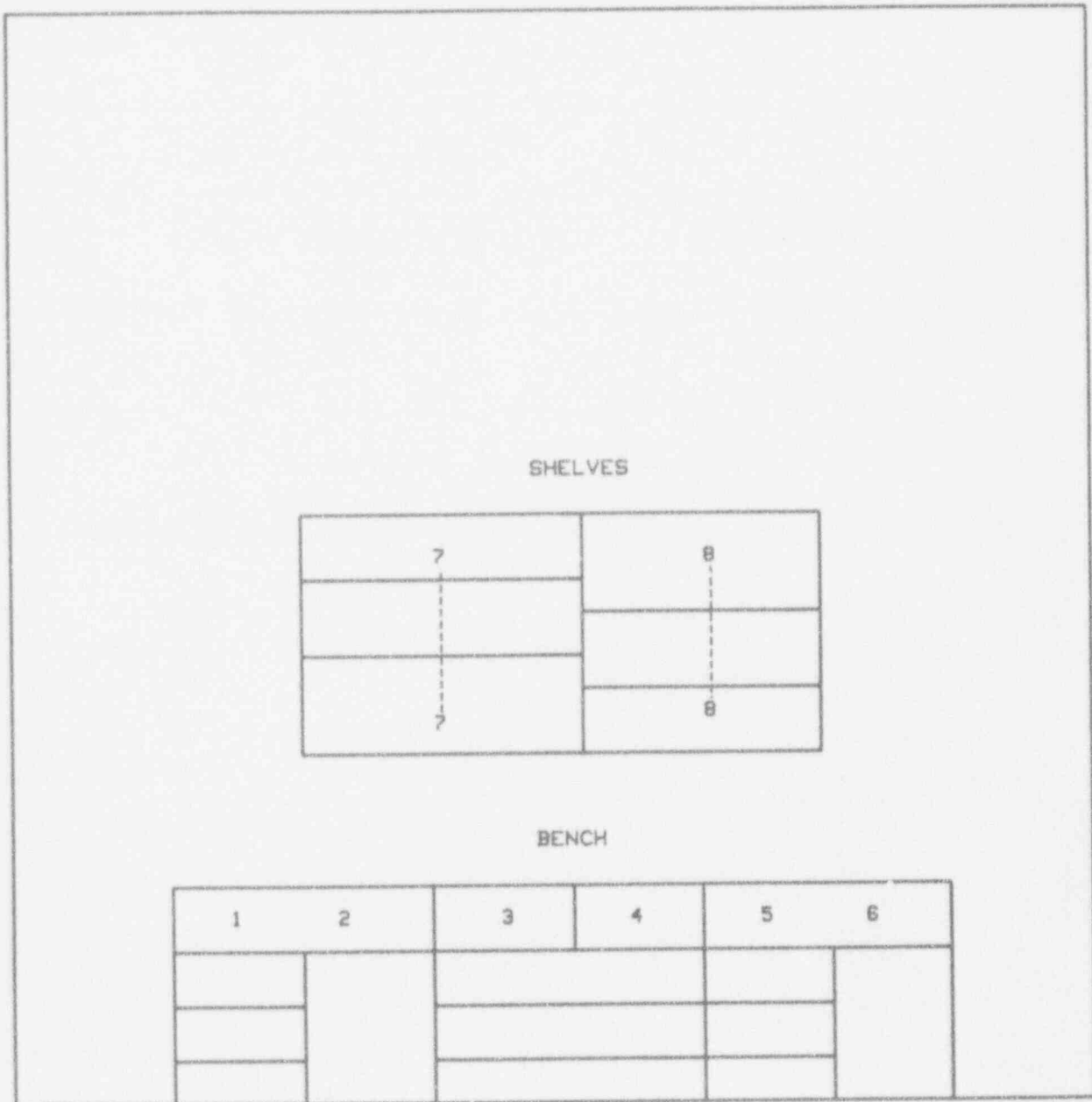
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-103 VIEW-D

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-107 Main View

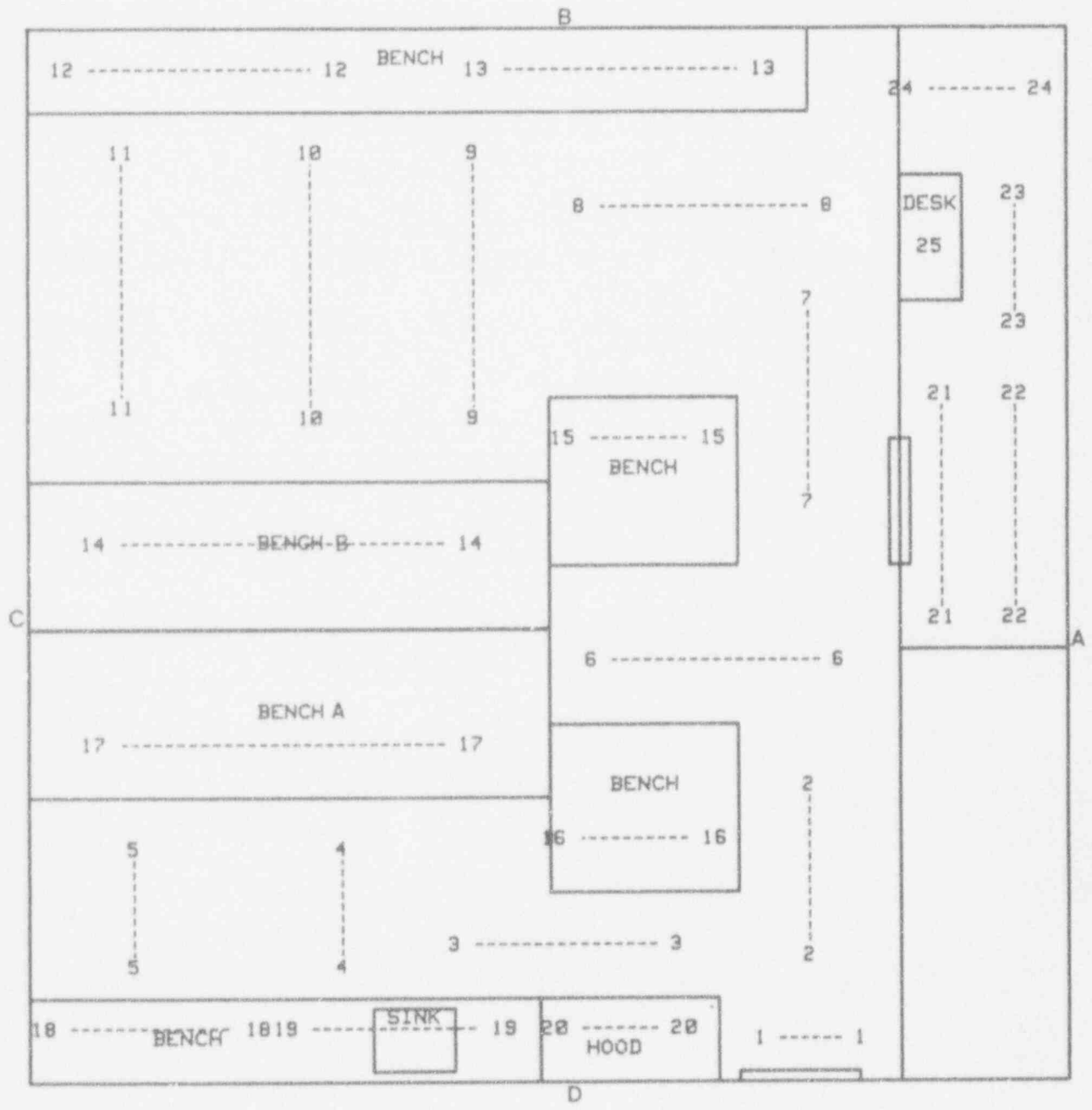
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25
11	<50	<25
12	<50	<25
13	<50	<25
14	<50	<25
15	<50	<25
16	<50	<25
17	<50	<25
18	<50	<25
19	<50	<25
20	<50	<25
21	<50	<25
22	<50	<25
23	<50	<25
24	<50	<25
25	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-107 MAIN VIEW

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-107 View B

SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25

**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-107 View D

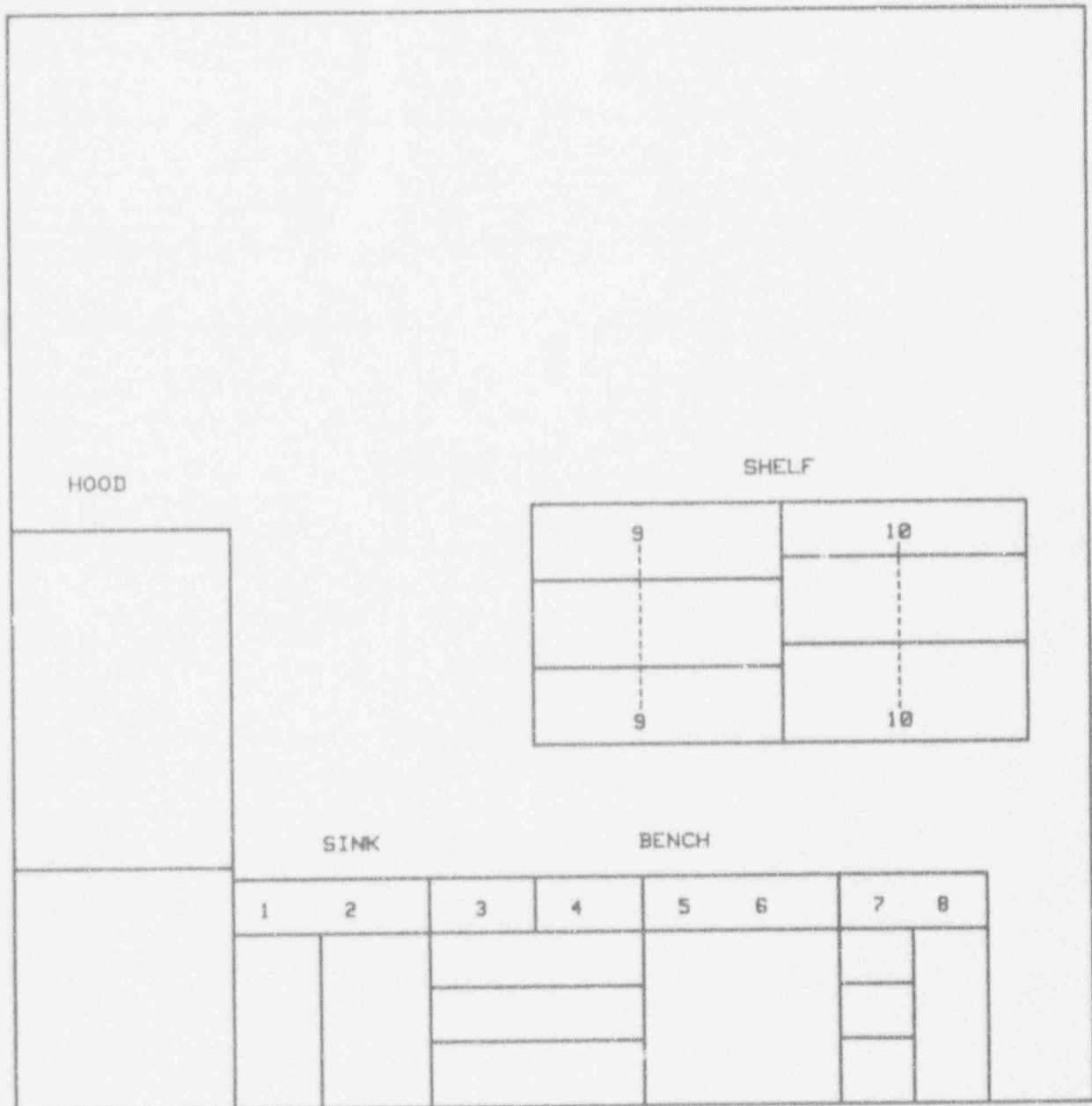
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-107 VIEW-D

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-107 Island A

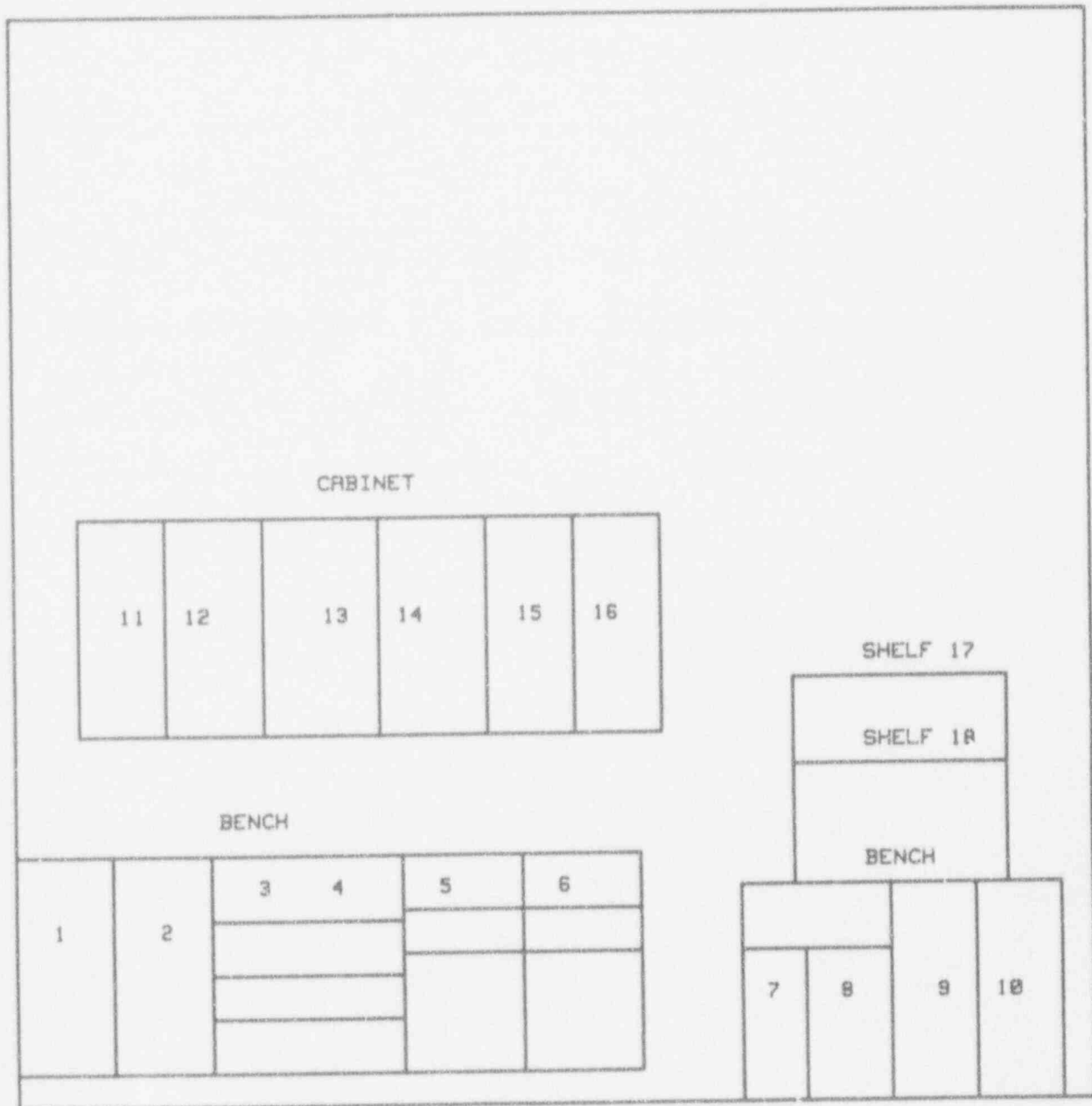
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25
11	<50	<25
12	<50	<25
13	<50	<25
14	<50	<25
15	<50	<25
16	<50	<25
17	<50	<25
18	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-107 ISLAND-A

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-107 Island B (Pre-decon)

SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25
11	<50	<25
12	3093 ±309	1547
13	<50	<25
14	<50	<25
15	<50	<25
16	<50	<25
17	<50	<25
18	<50	<25

**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-107 Island B (Post-decon)

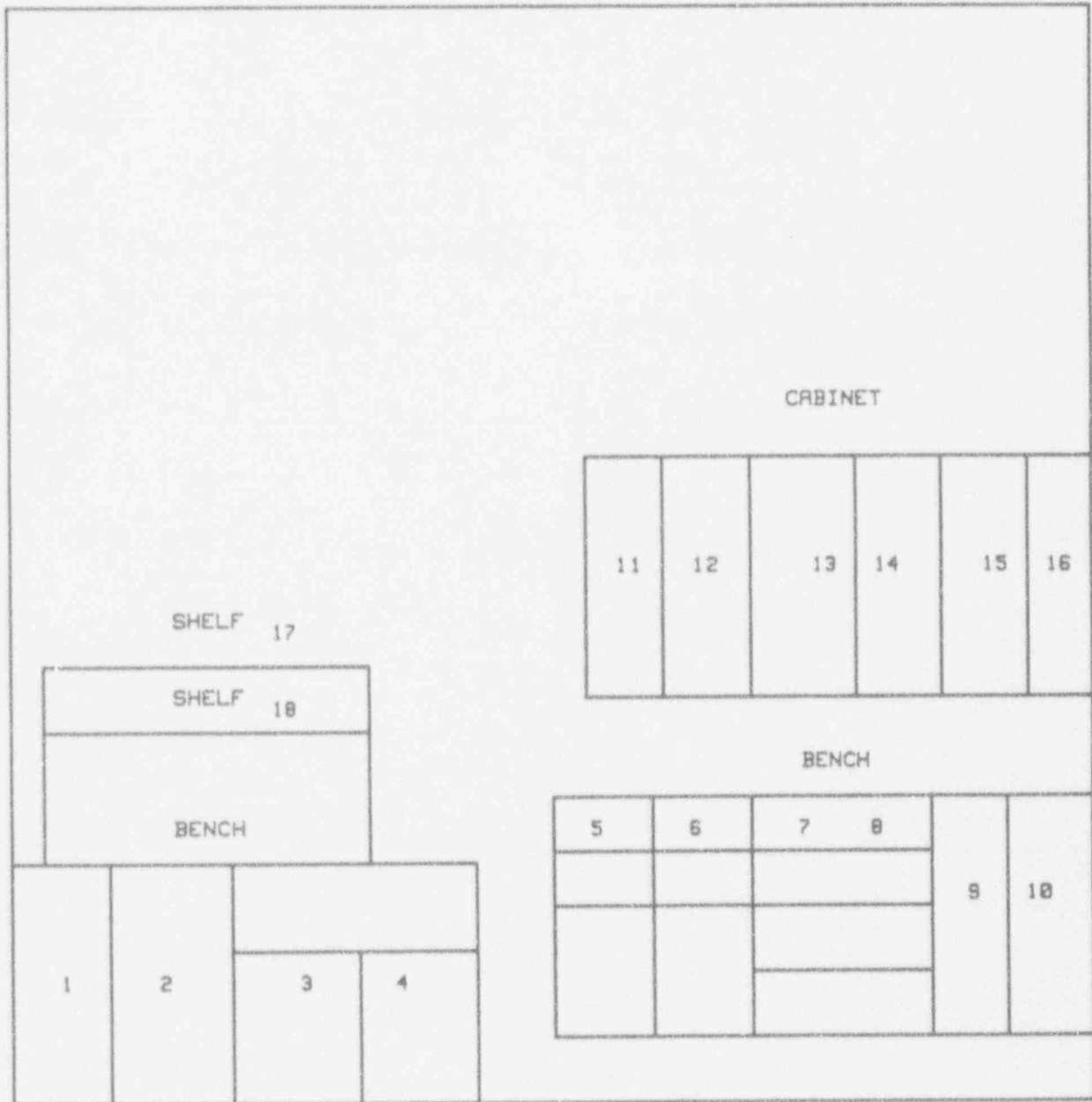
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25
11	<50	<25
12	<50	<25
13	<50	<25
14	<50	<25
15	<50	<25
16	<50	<25
17	<50	<25
18	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-107 ISLAND-B

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-107 Hood 1

SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25

**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-108 Main View

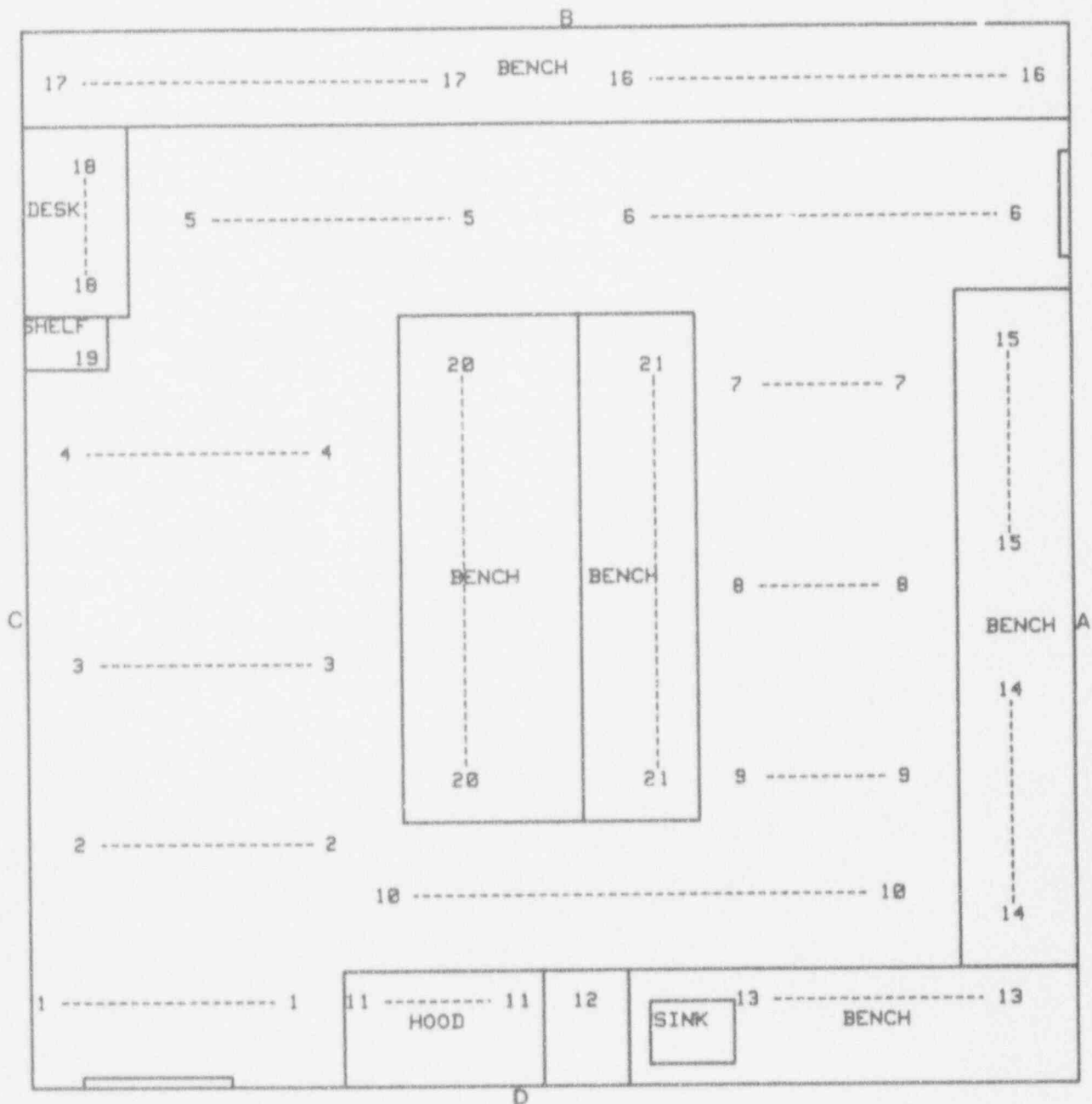
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25
11	<50	<25
12	<50	<25
13	<50	<25
14	<50	<25
15	<50	<25
16	<50	<25
17	<50	<25
18	<50	<25
19	<50	<25
20	<50	<25
21	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-108 MAIN VIEW

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-108 View A

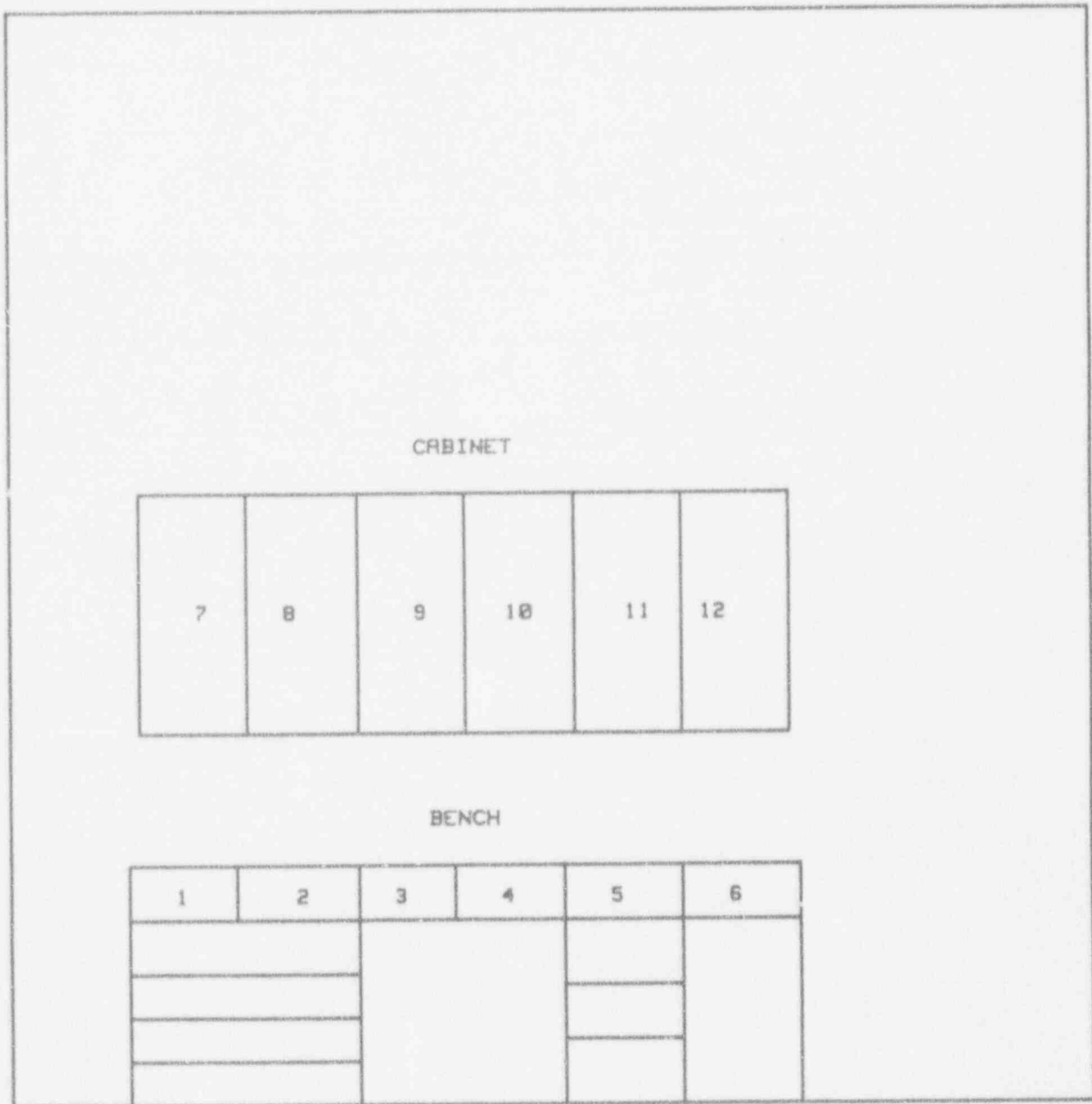
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25
11	<50	<25
12	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-108 VIEW-R

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-108 View B

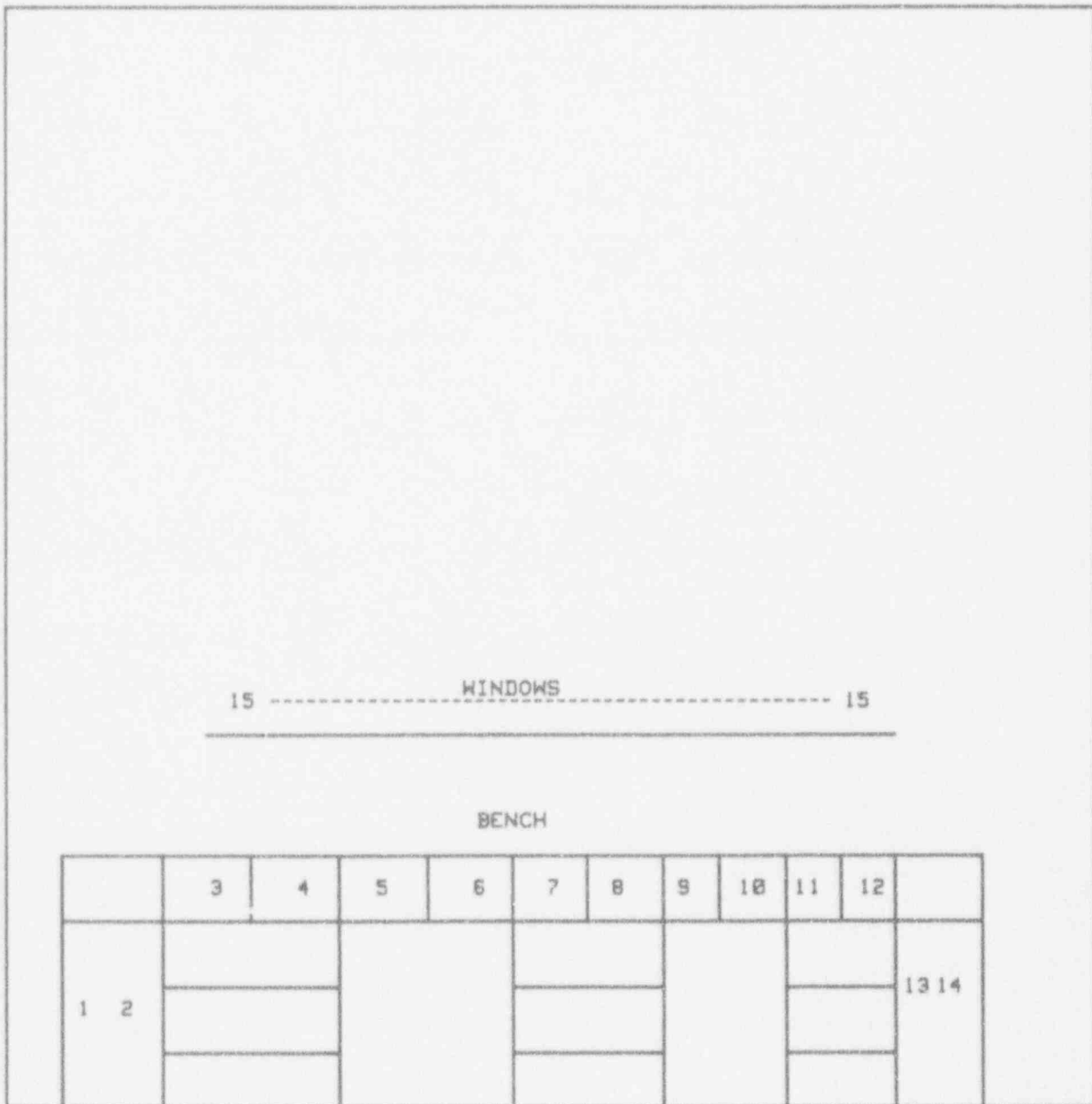
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25
11	<50	<25
12	<50	<25
13	<50	<25
14	<50	<25
15	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-108 VIEW-B

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-108 View C

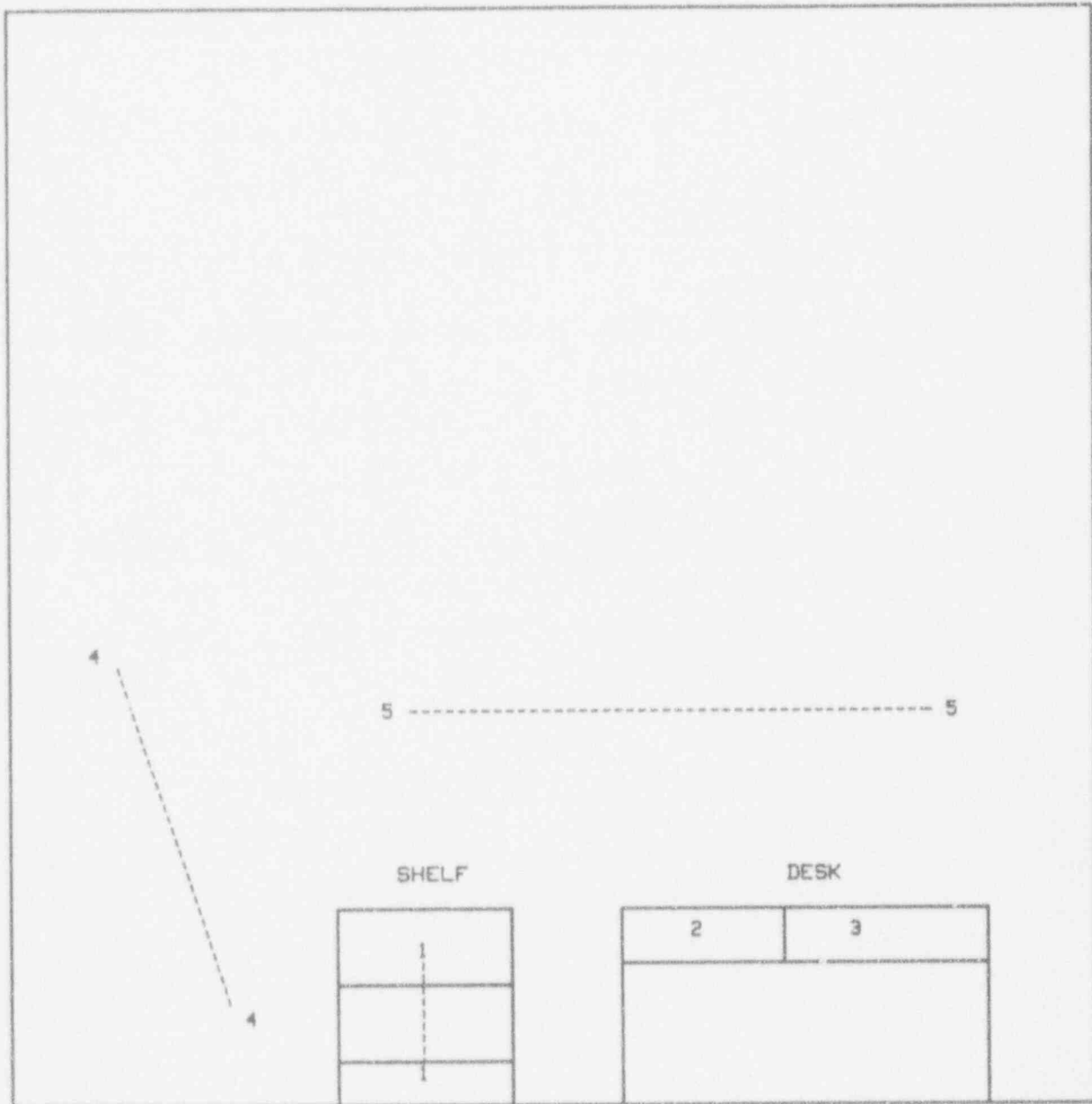
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	91 ±9	46
4	<50	<25
5	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-108 VIEW-C

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-108 View D

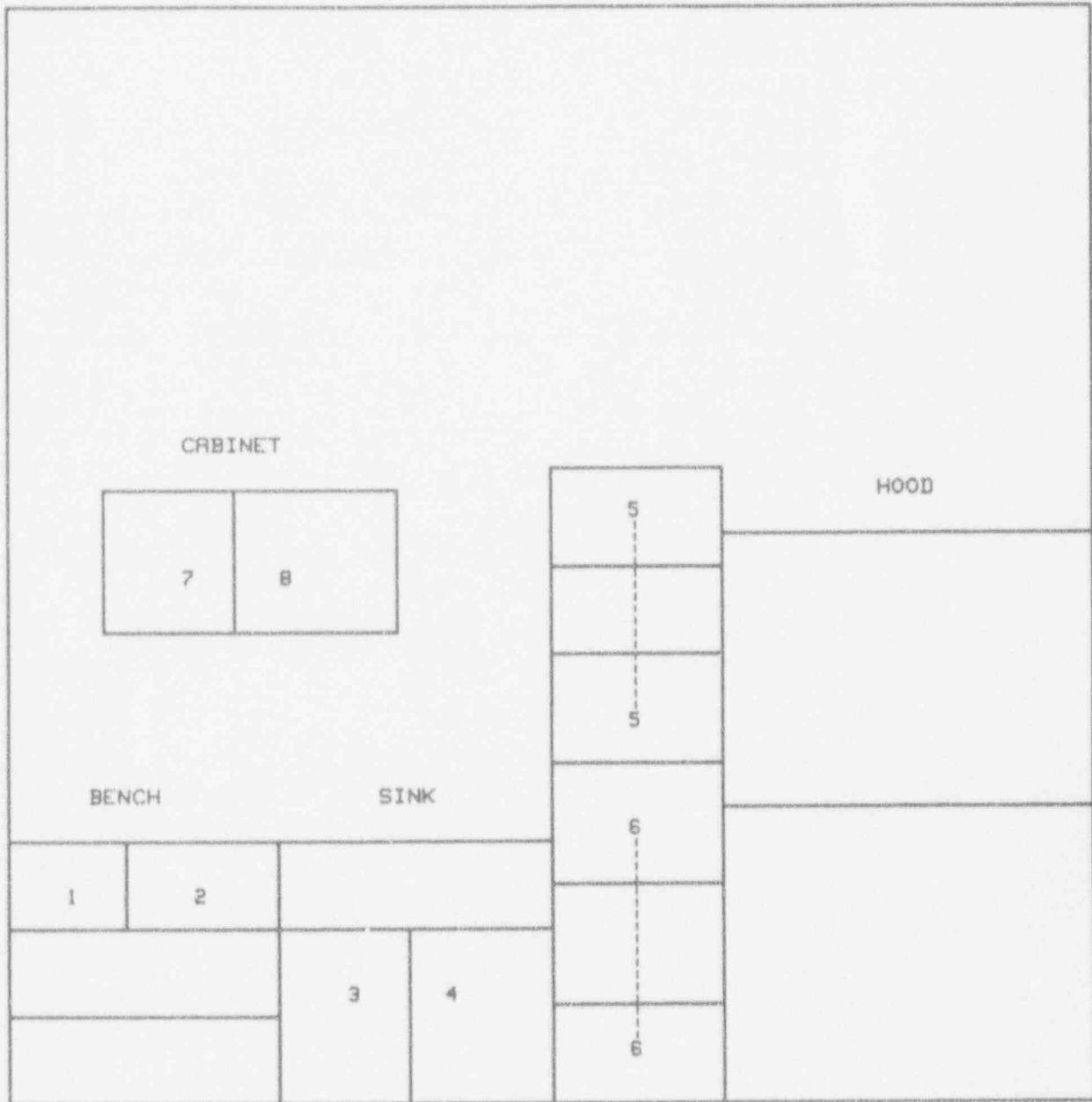
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-108 VIEW-D

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-108 Island B

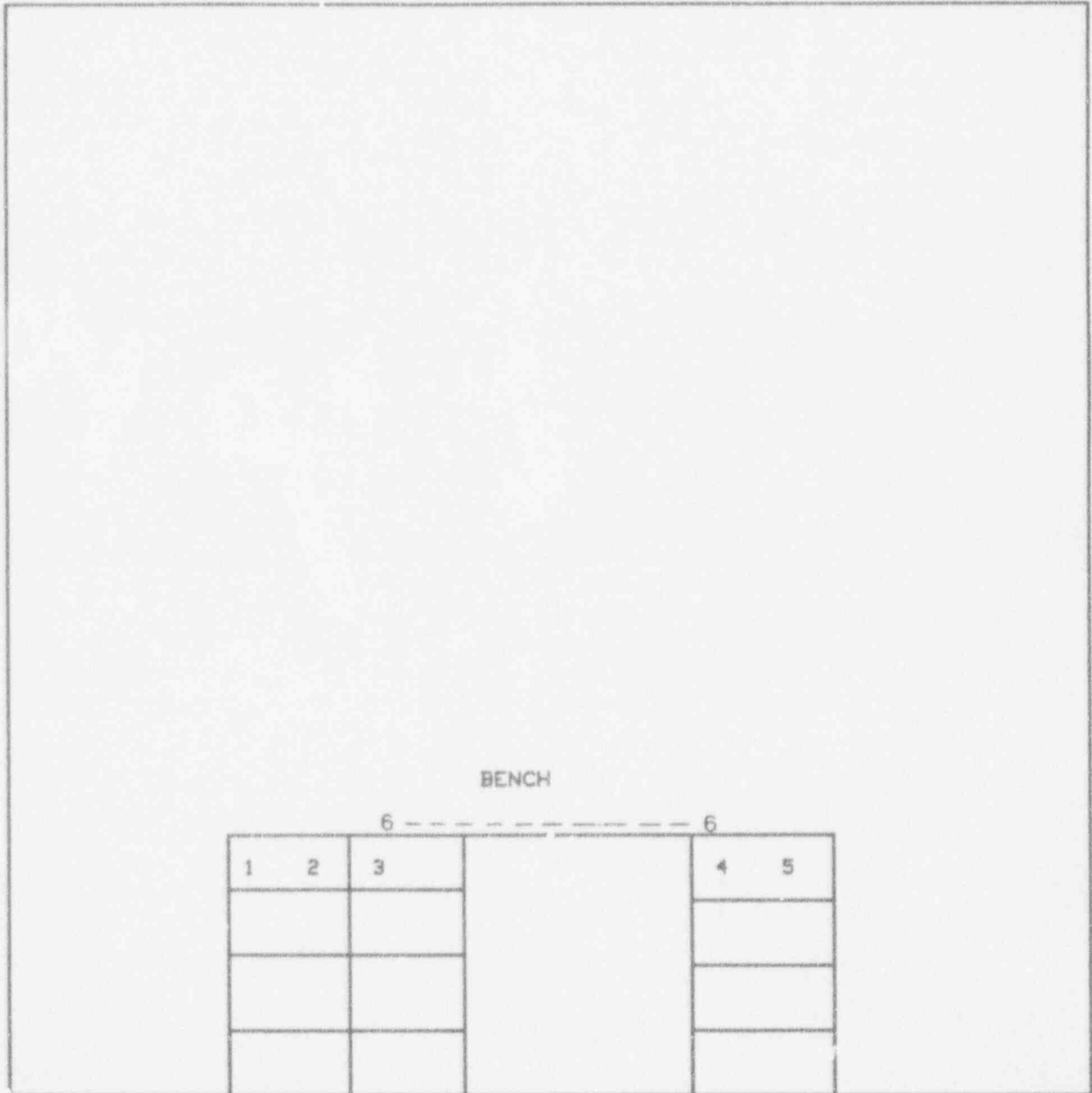
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-108 ISLAND-B

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING

LOCATION: V-108 Hood 1

SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25

**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-109 Main View

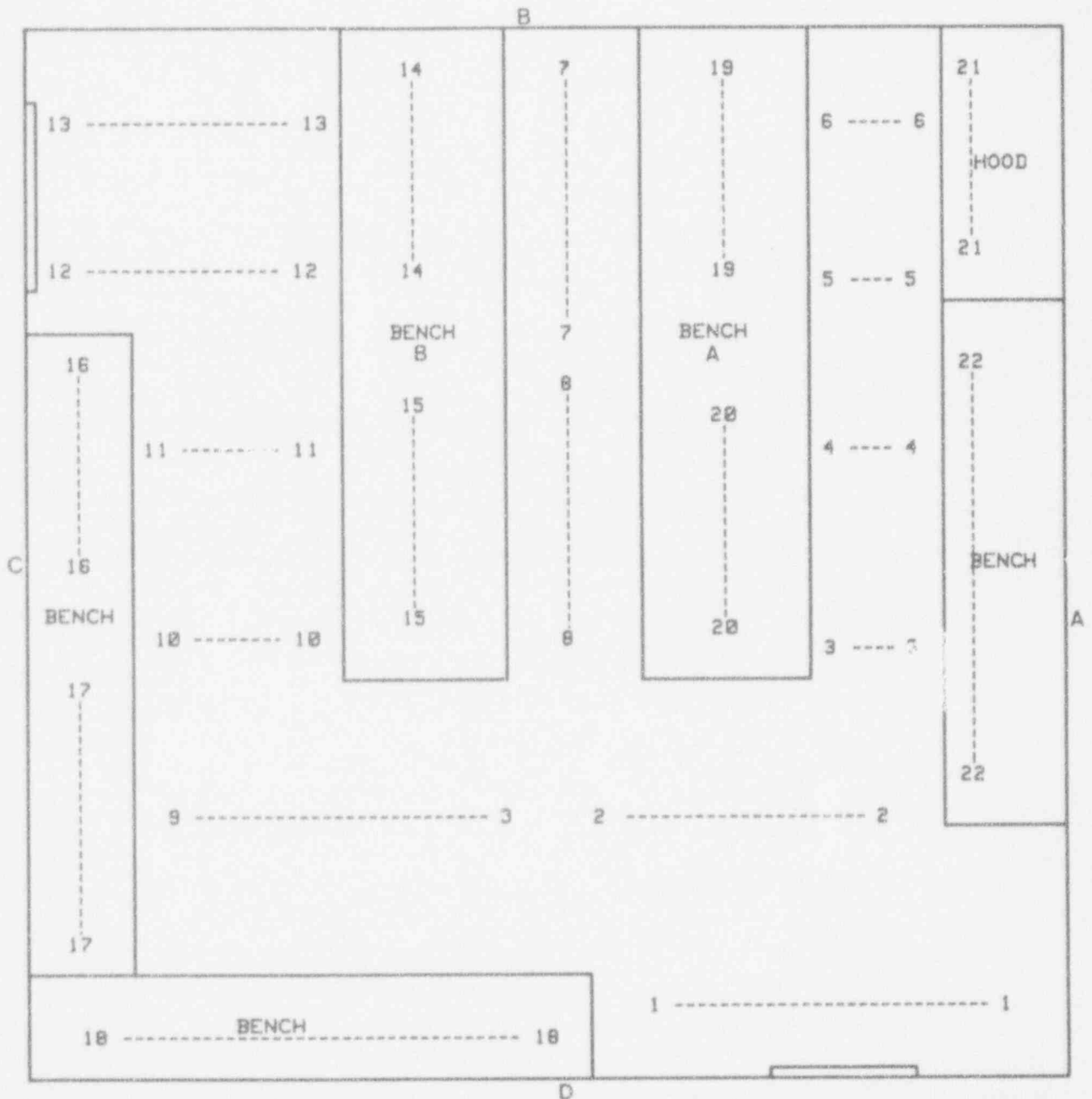
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25
11	<50	<25
12	<50	<25
13	<50	<25
14	<50	<25
15	<50	<25
16	<50	<25
17	<50	<25
18	<50	<25
19	<50	<25
20	<50	<25
21	<50	<25
22	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-109 MAIN VIEW

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-109 View A

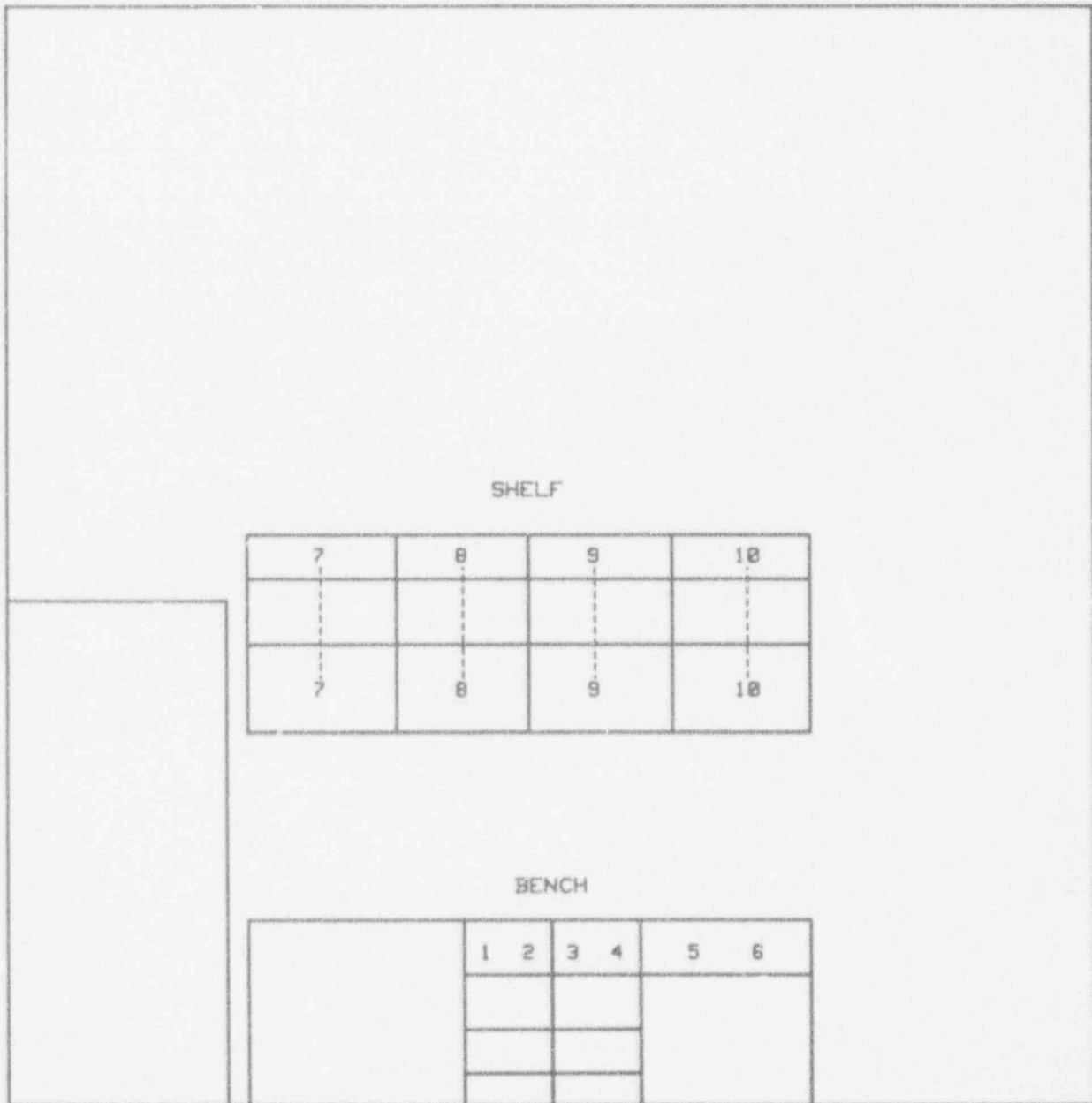
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-109 VIEW-R

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-109 View C

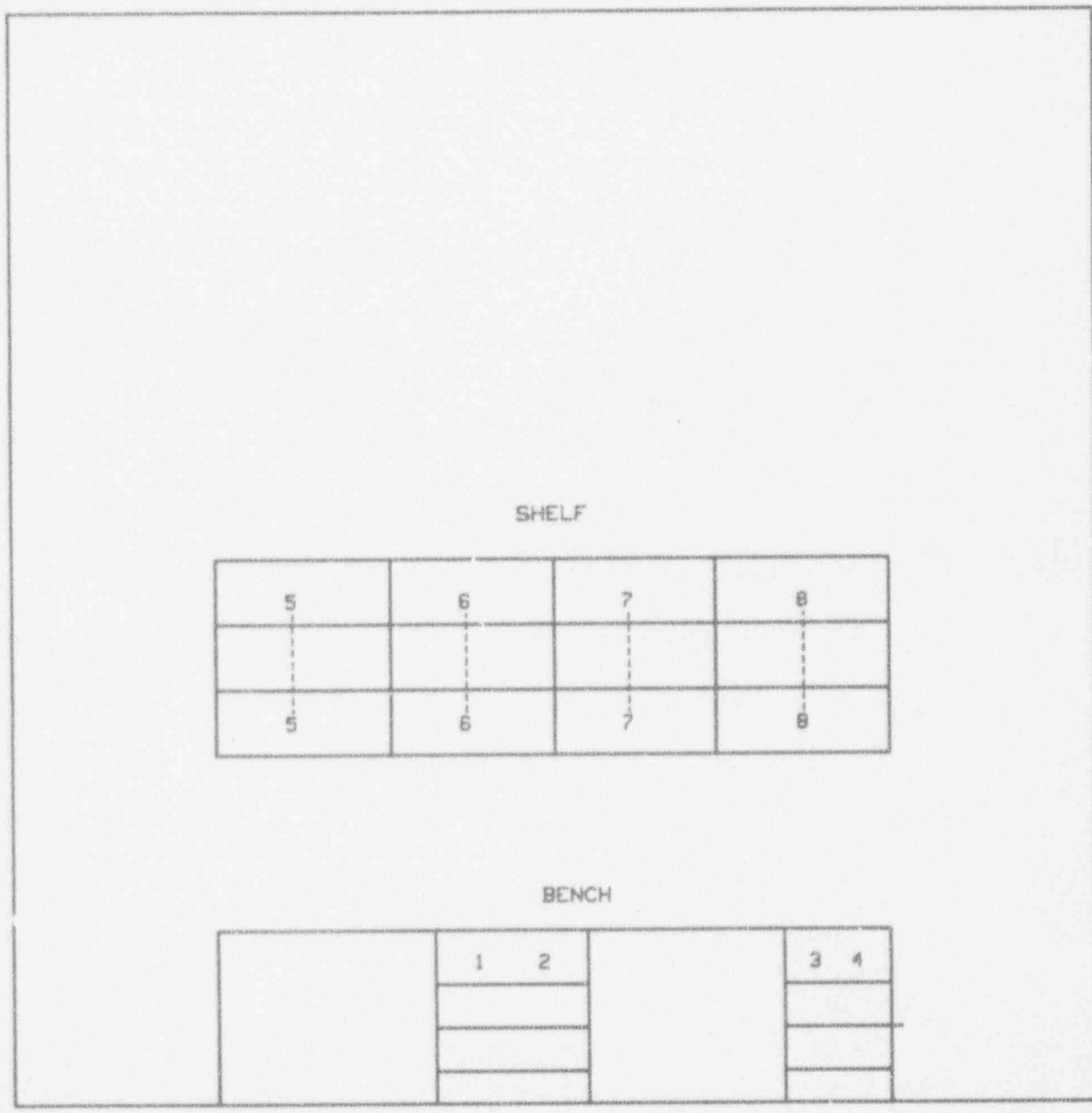
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-109 VIEW-C

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-109 View D

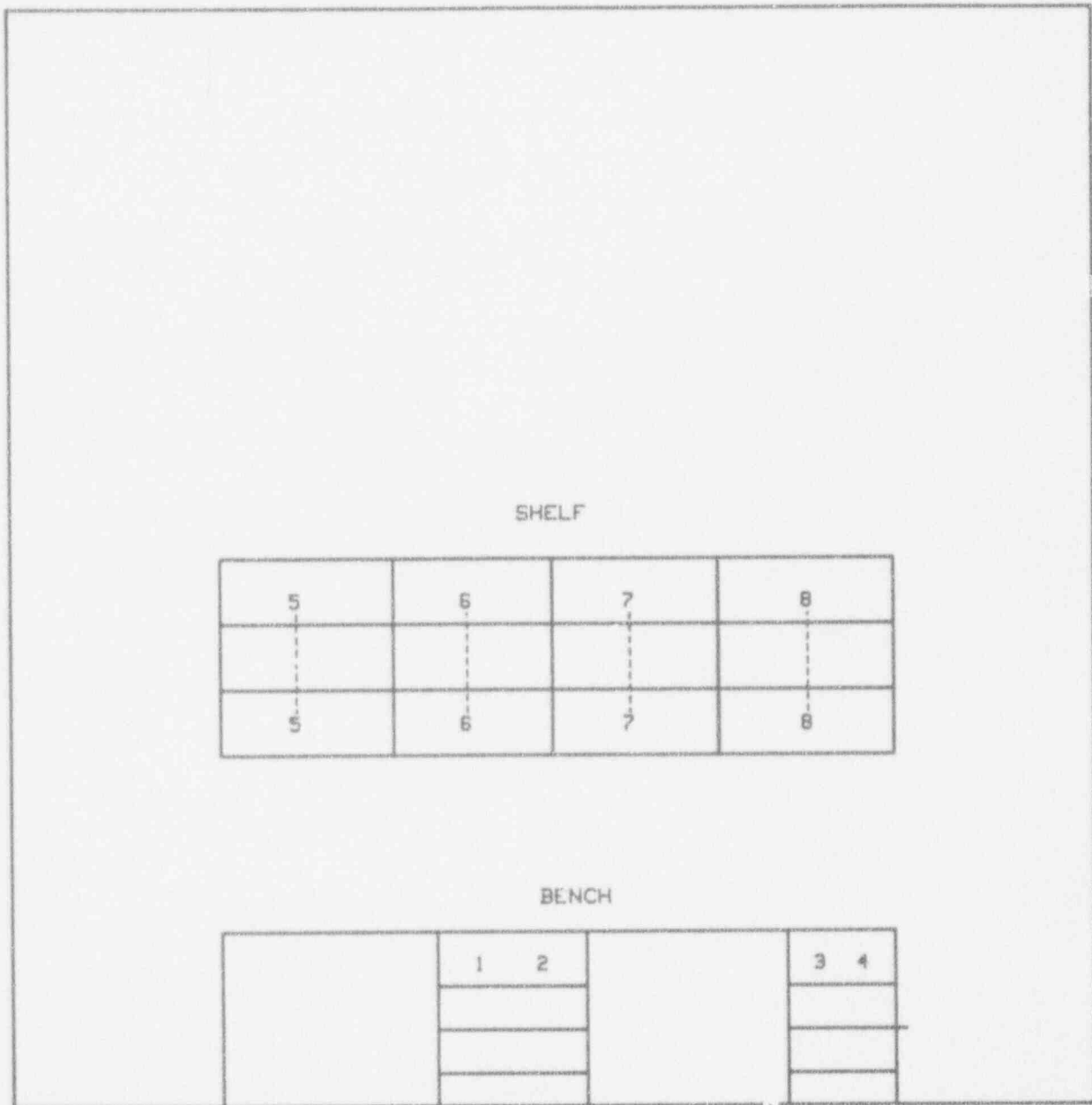
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-109 VIEW-D

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-109 Island A

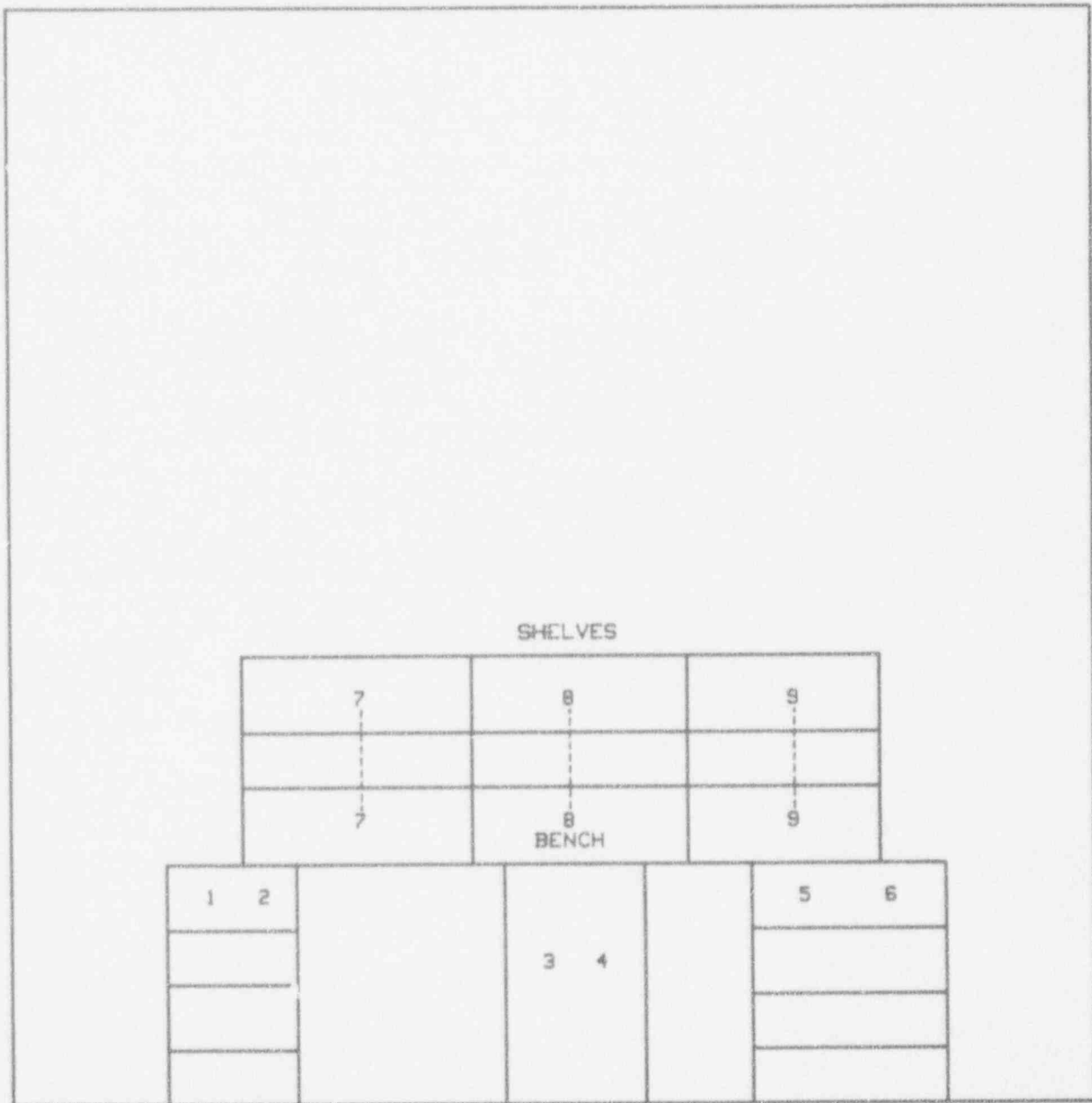
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-109 ISLAND-A

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING

LOCATION: V-109 Island B

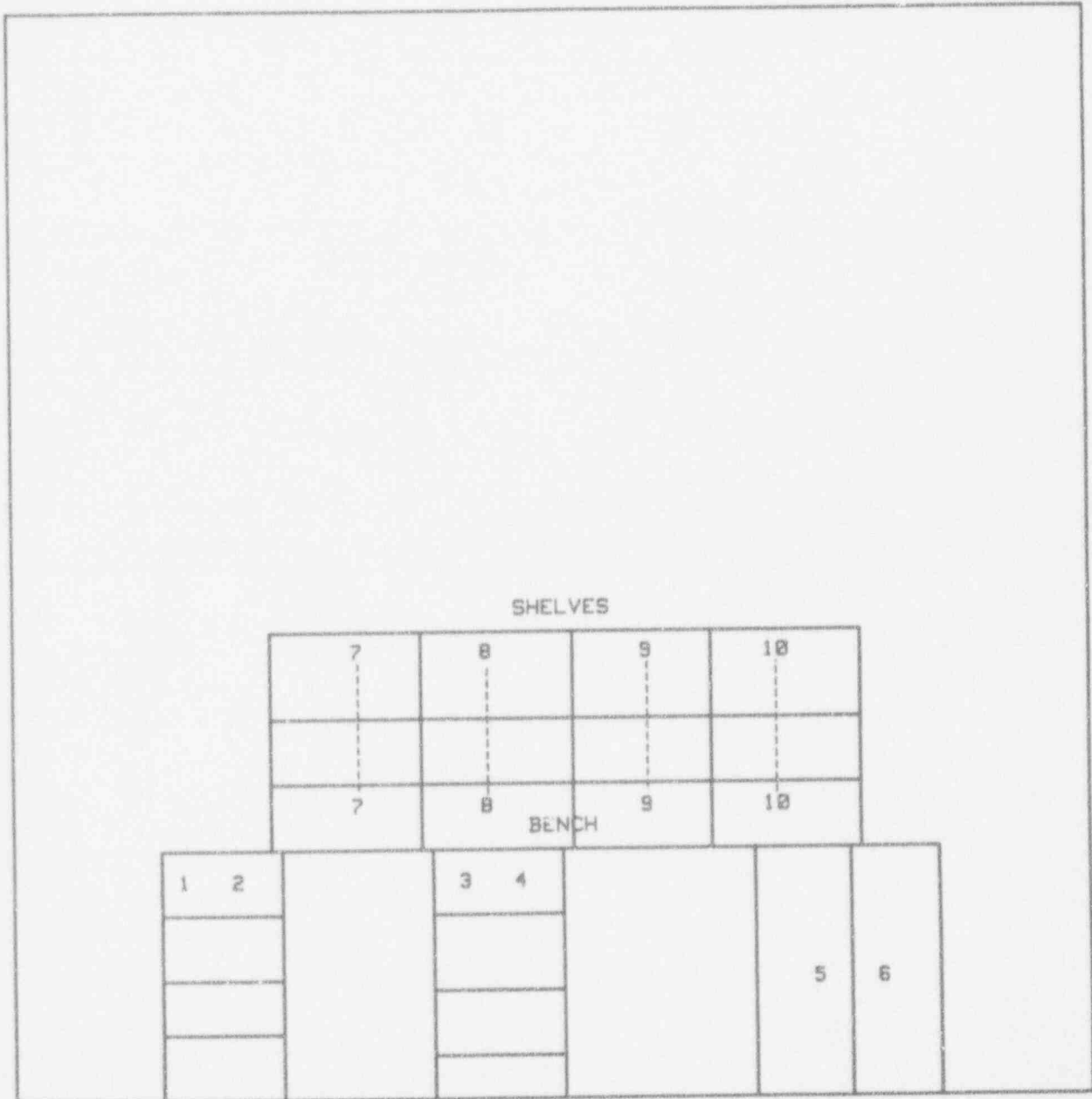
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-109 ISLAND-B

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-109 Hood 1

SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25

**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-110 Main View

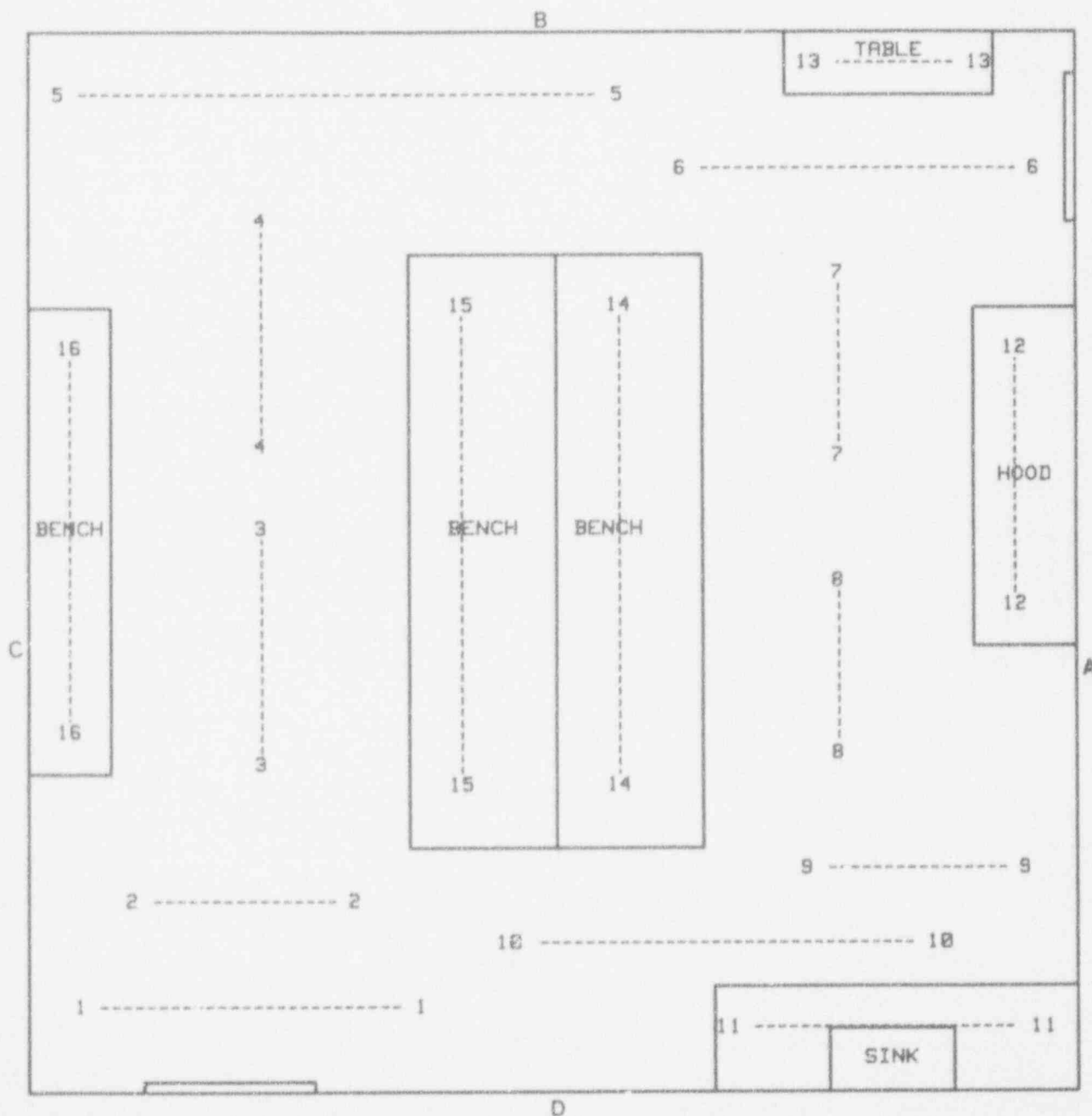
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25
11	<50	<25
12	<50	<25
13	<50	<25
14	53 ±5	27
15	<50	<25
16	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-110 MAIN VIEW

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-110 View C

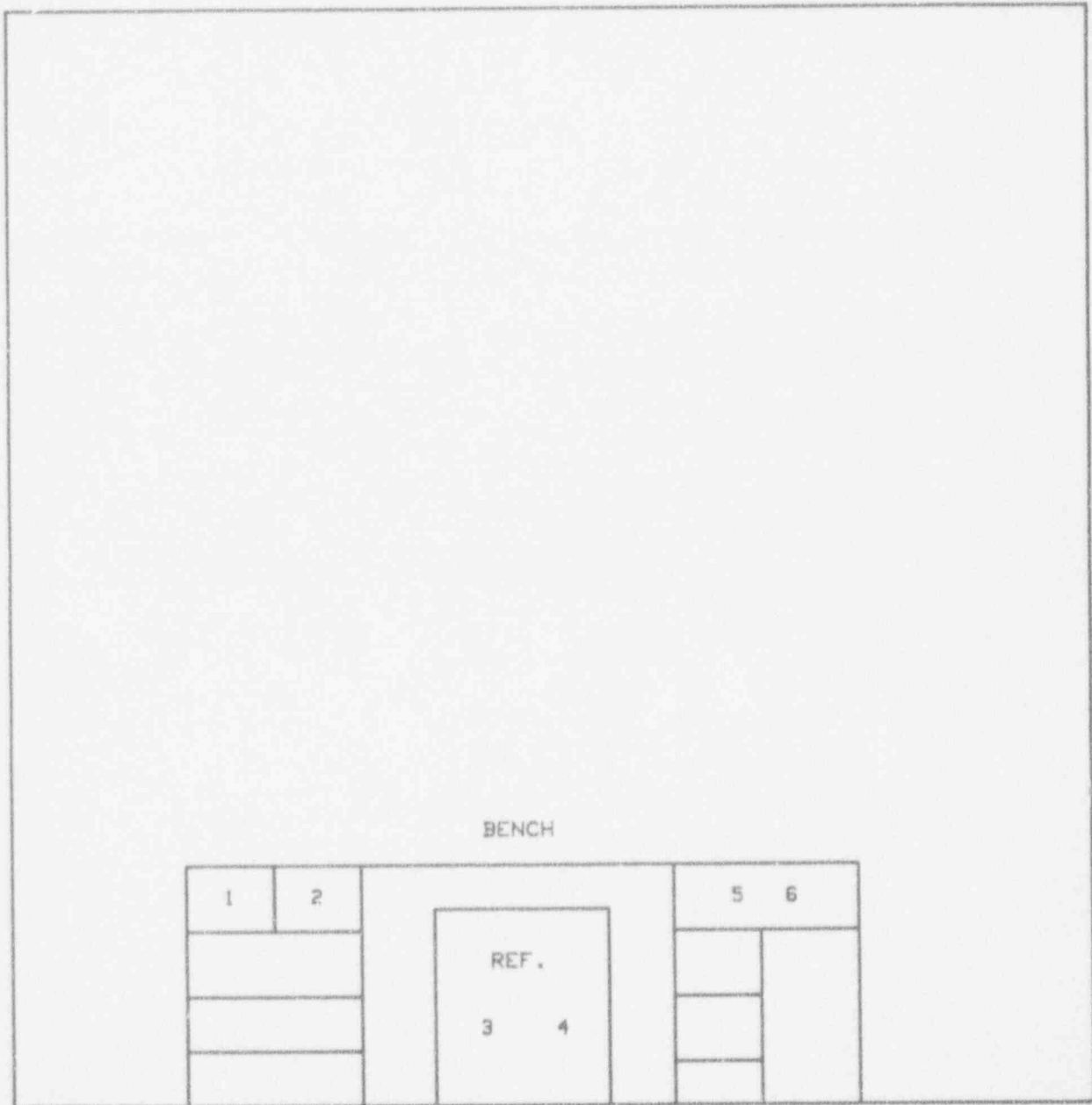
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	80 ±8	40
2	88 ±9	44
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-118 VIEW-C

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-110 Island A

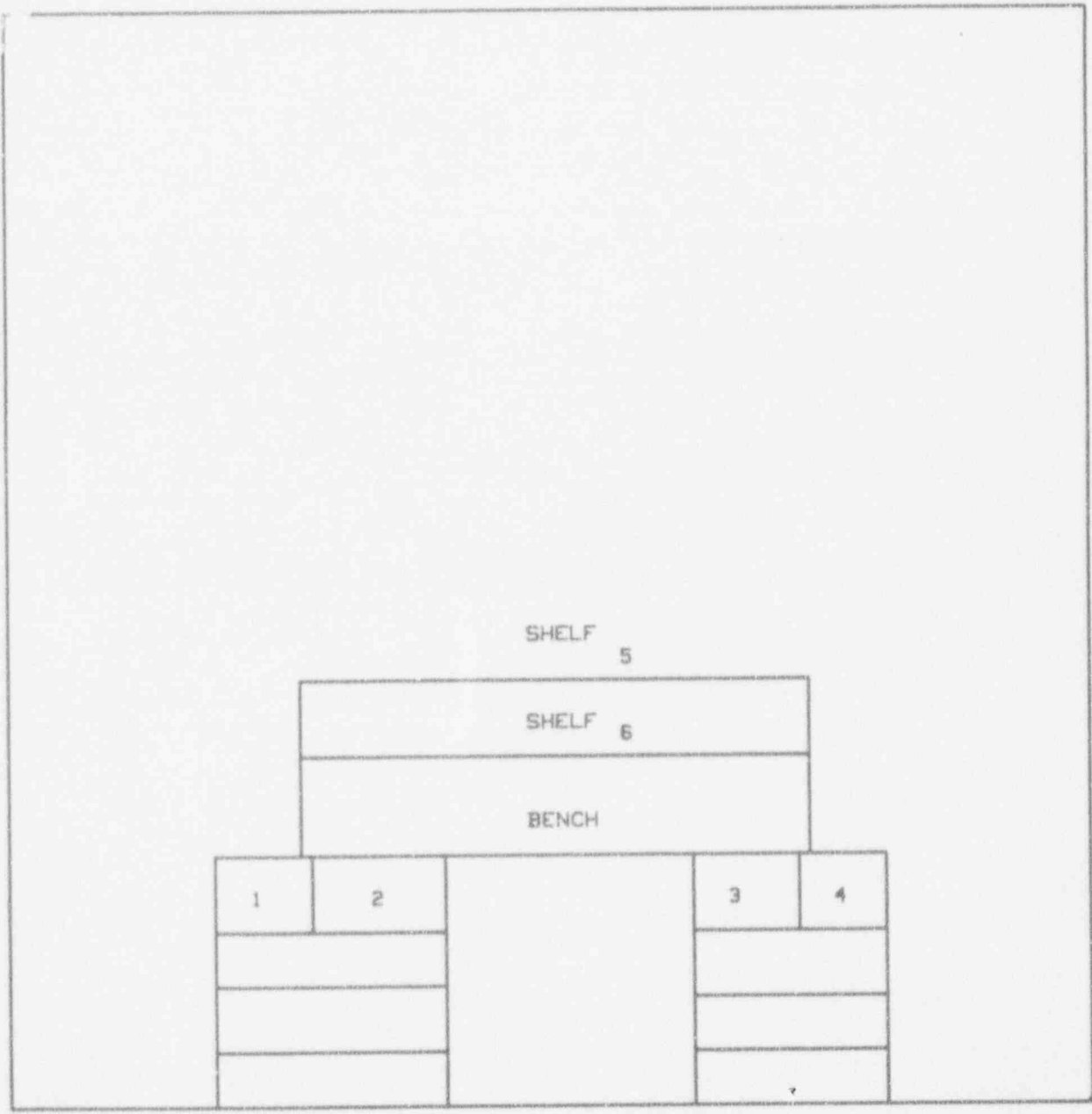
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-110 ISLAND-A

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-110 Island B

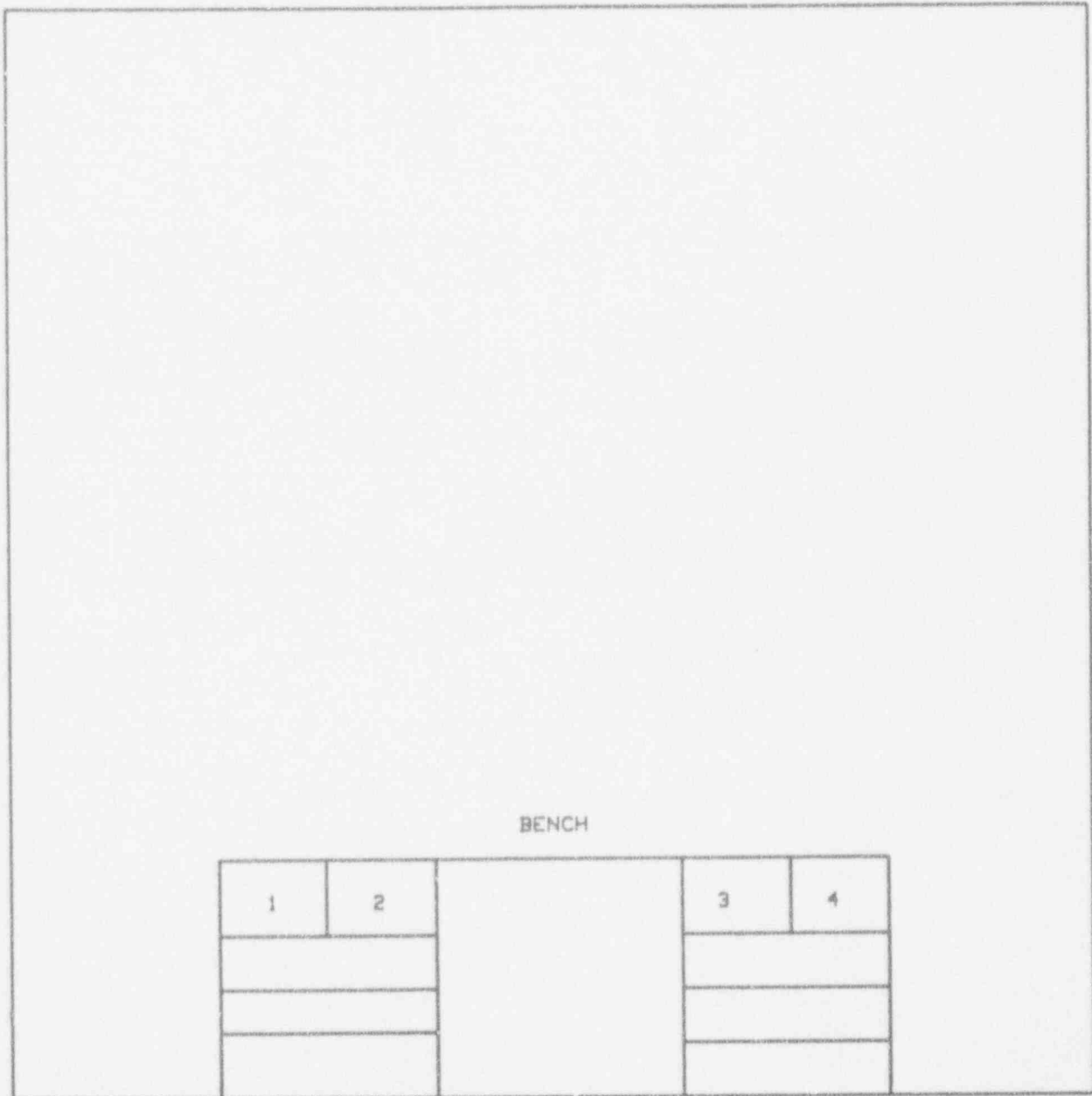
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-110 ISLAND-B

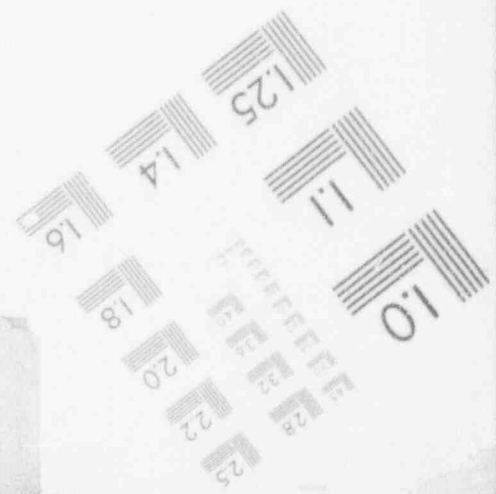
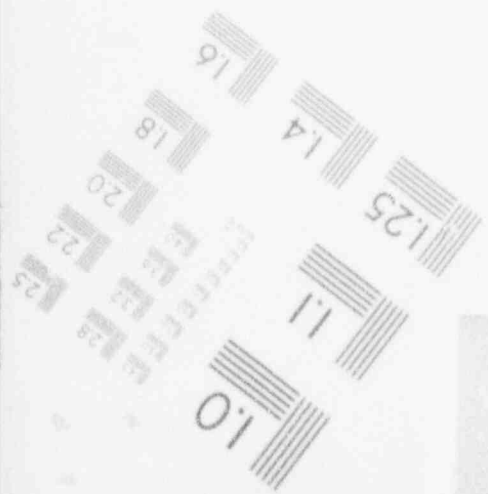
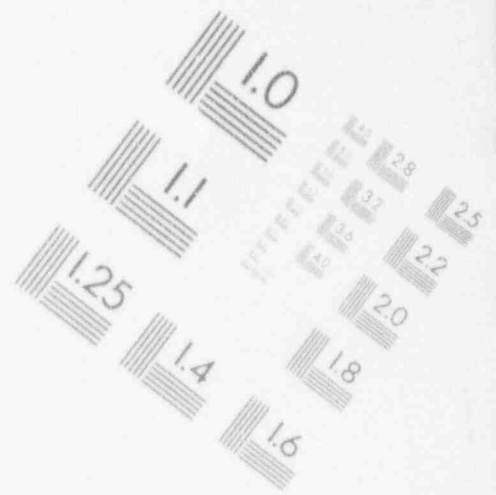
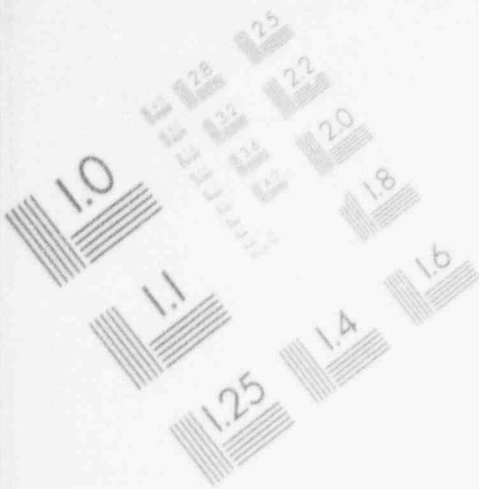
PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



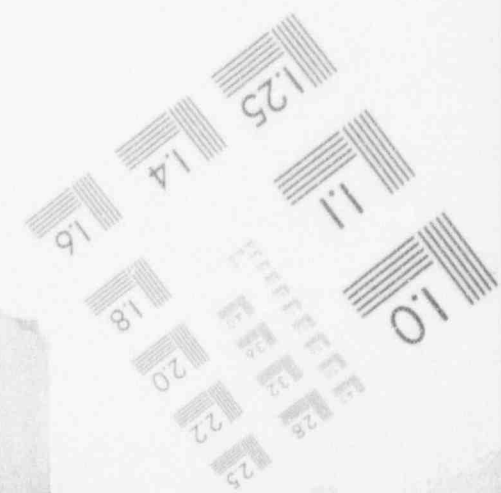
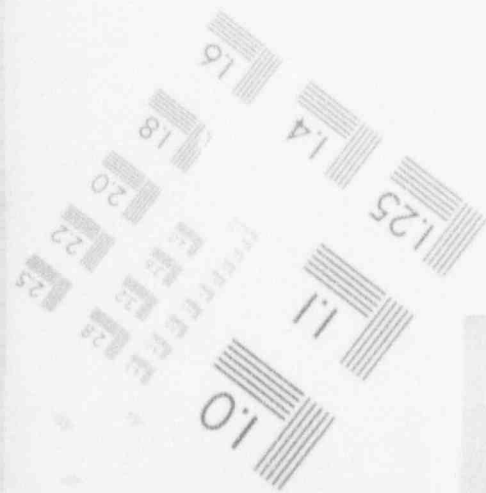
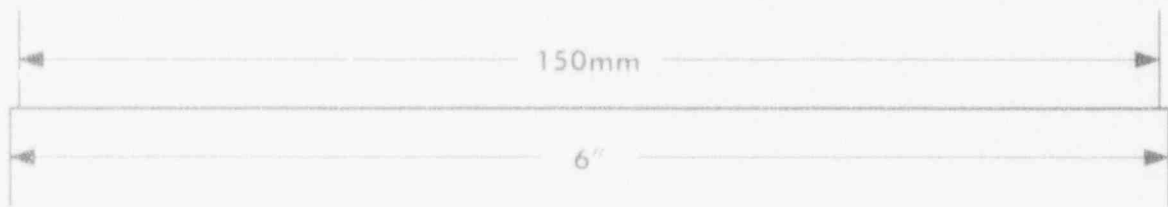
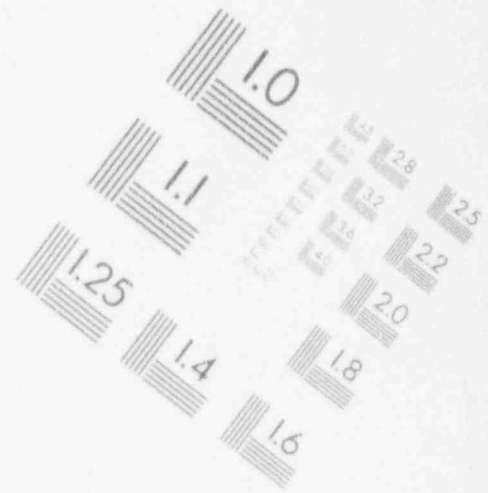
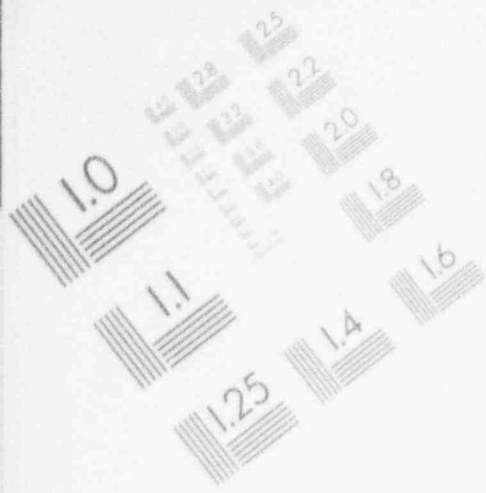
1

IMAGE EVALUATION TEST TARGET (MT-3)



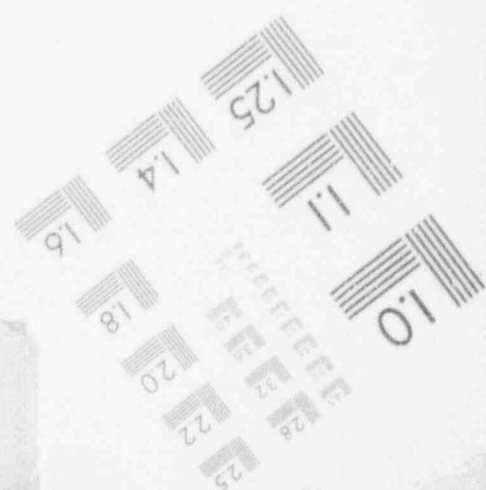
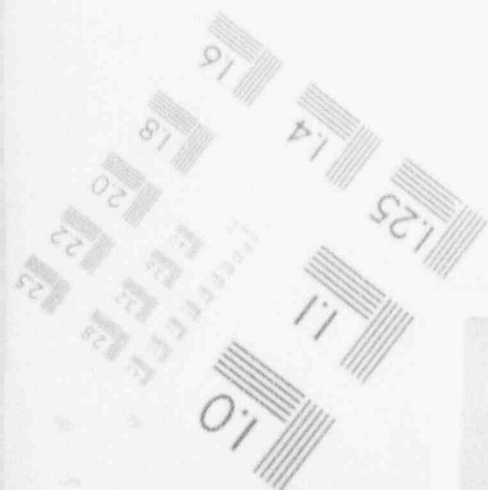
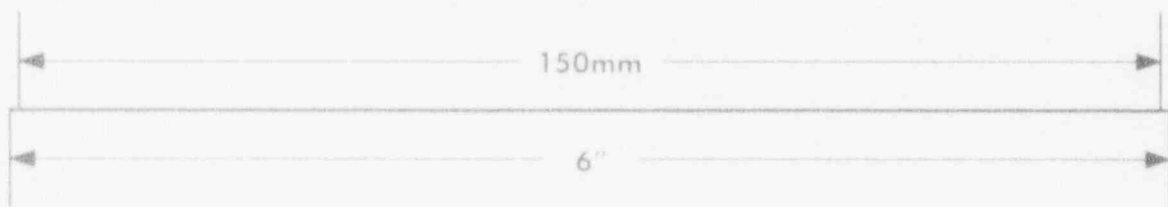
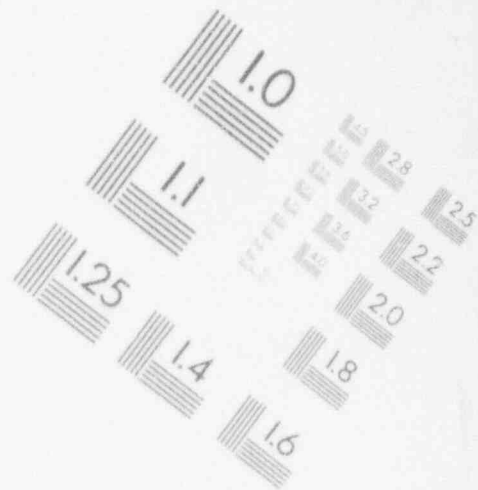
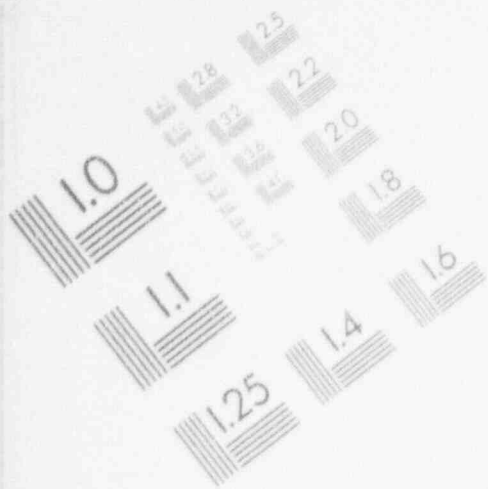
1

IMAGE EVALUATION TEST TARGET (MT-3)



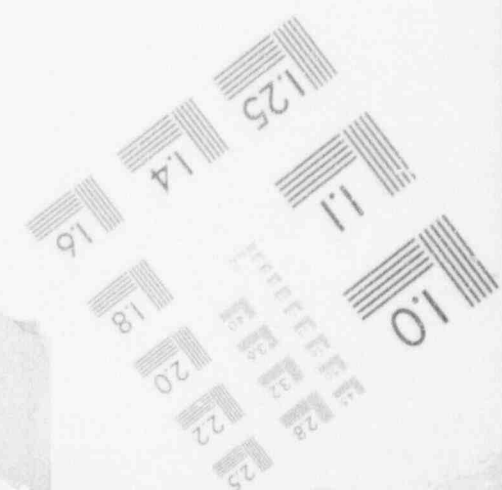
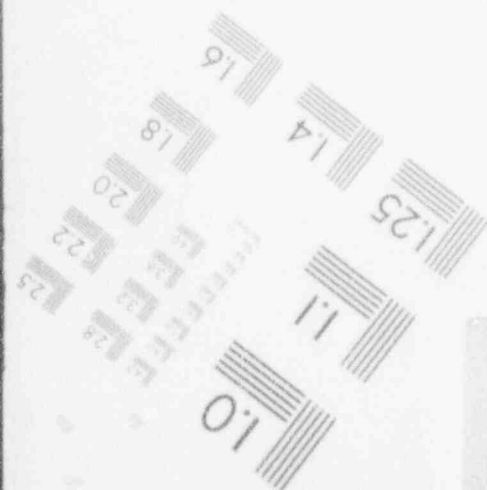
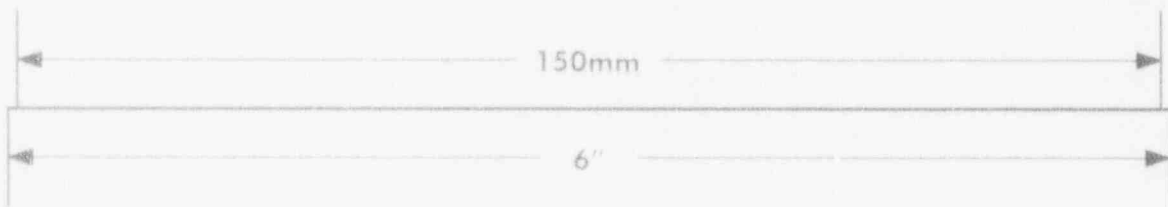
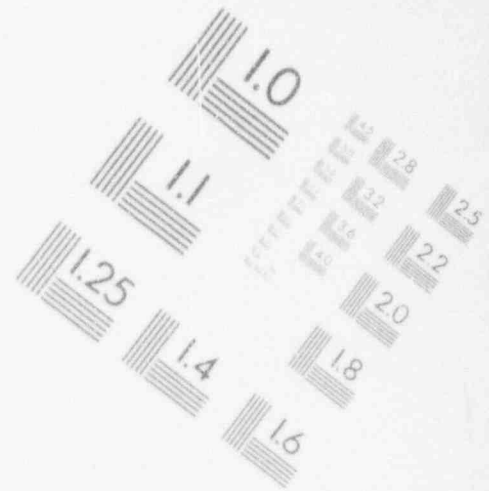
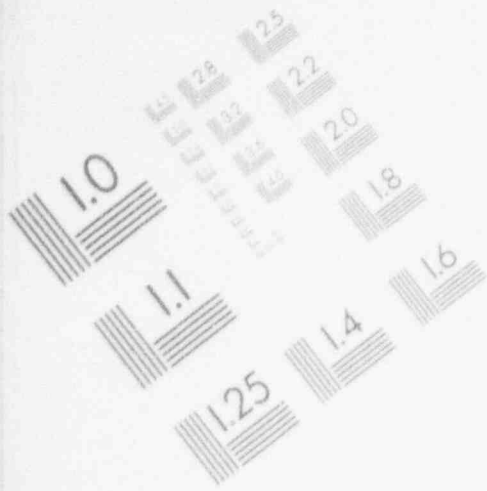
1

IMAGE EVALUATION TEST TARGET (MT-3)



1

IMAGE EVALUATION TEST TARGET (MT-3)



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-110 Hood 1

SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	562 ±56	281
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25

**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-131 Main View

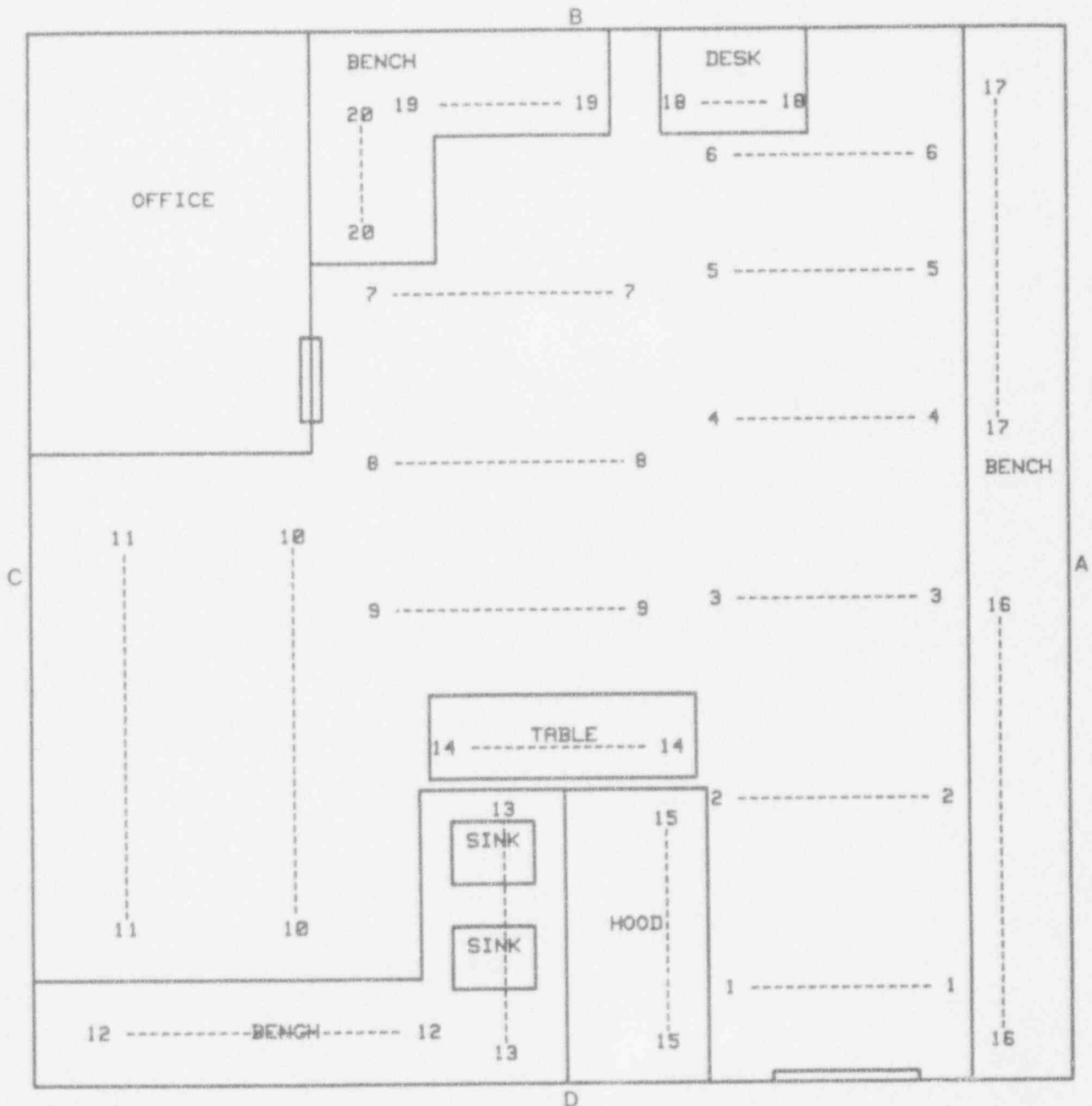
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25
11	<50	<25
12	<50	<25
13	<50	<25
14	<50	<25
15	56 ±6	28
16	<50	<25
17	<50	<25
18	<50	<25
19	<50	<25
20	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-131 MAIN VIEW

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-131 View A

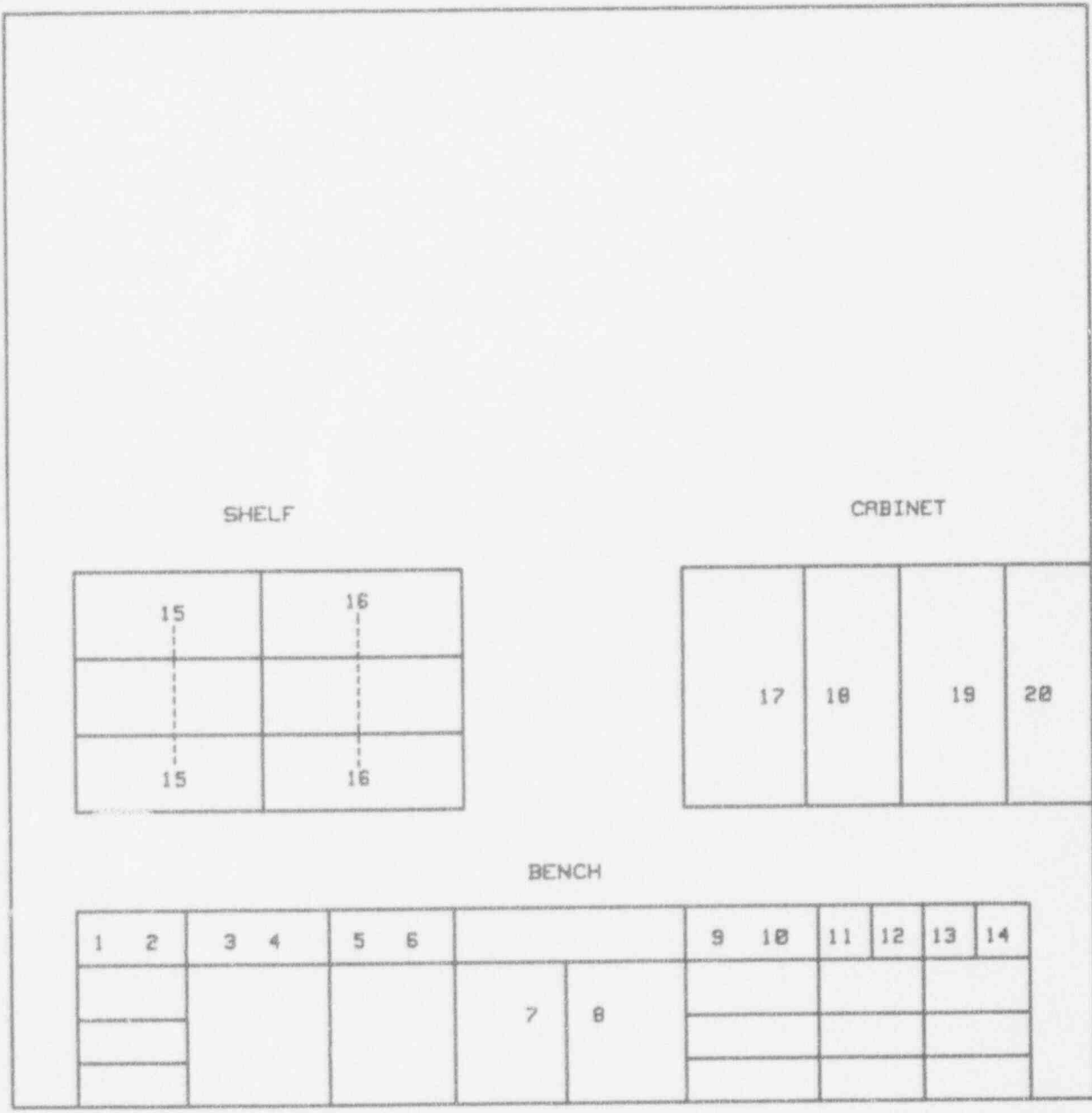
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25
11	<50	<25
12	<50	<25
13	<50	<25
14	<50	<25
15	<50	<25
16	<50	<25
17	<50	<25
18	<50	<25
19	<50	<25
20	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-131 VIEW-R

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-131 View B

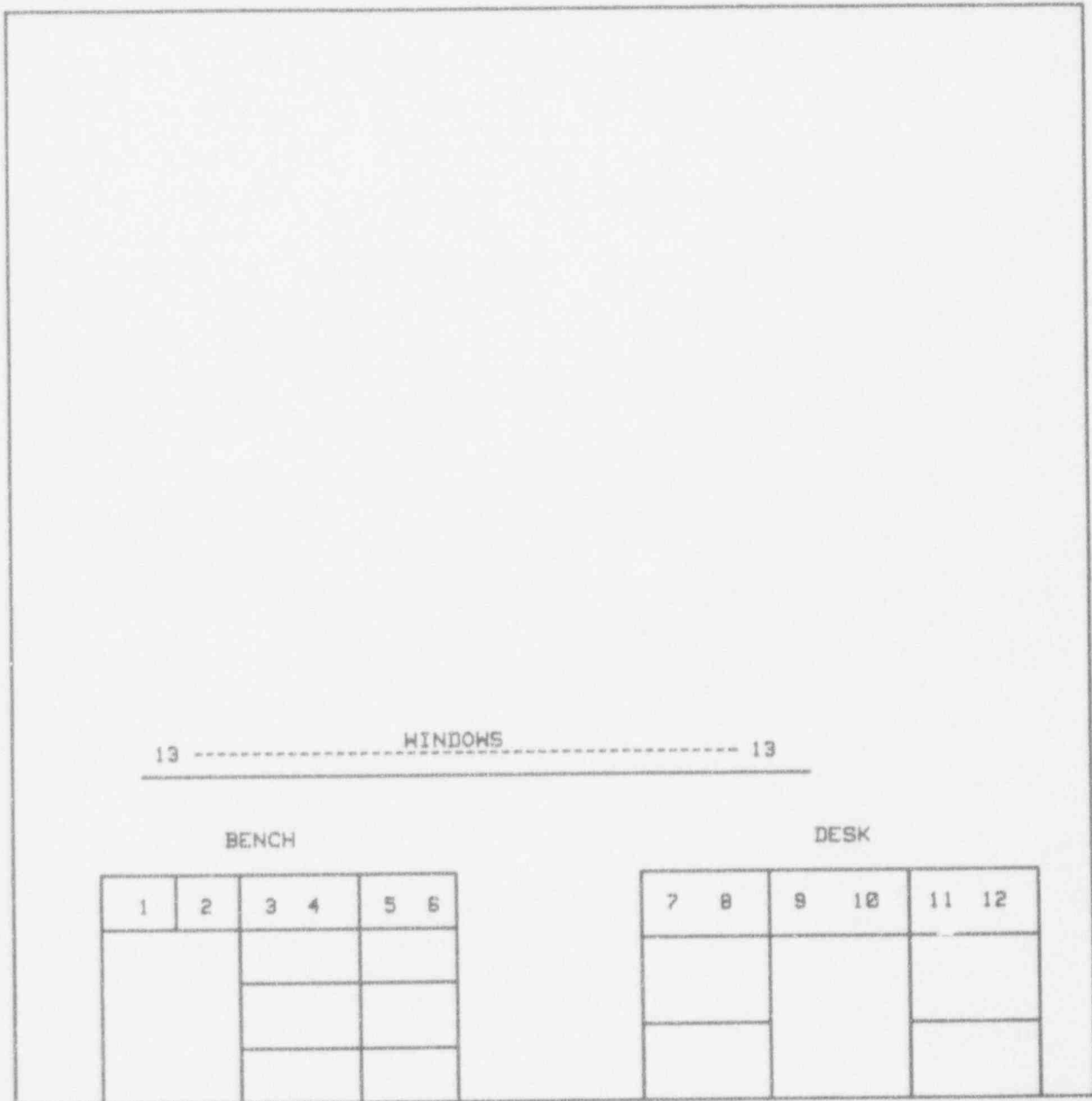
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25
11	<50	<25
12	<50	<25
13	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-131 VIEW-B

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-131 View C

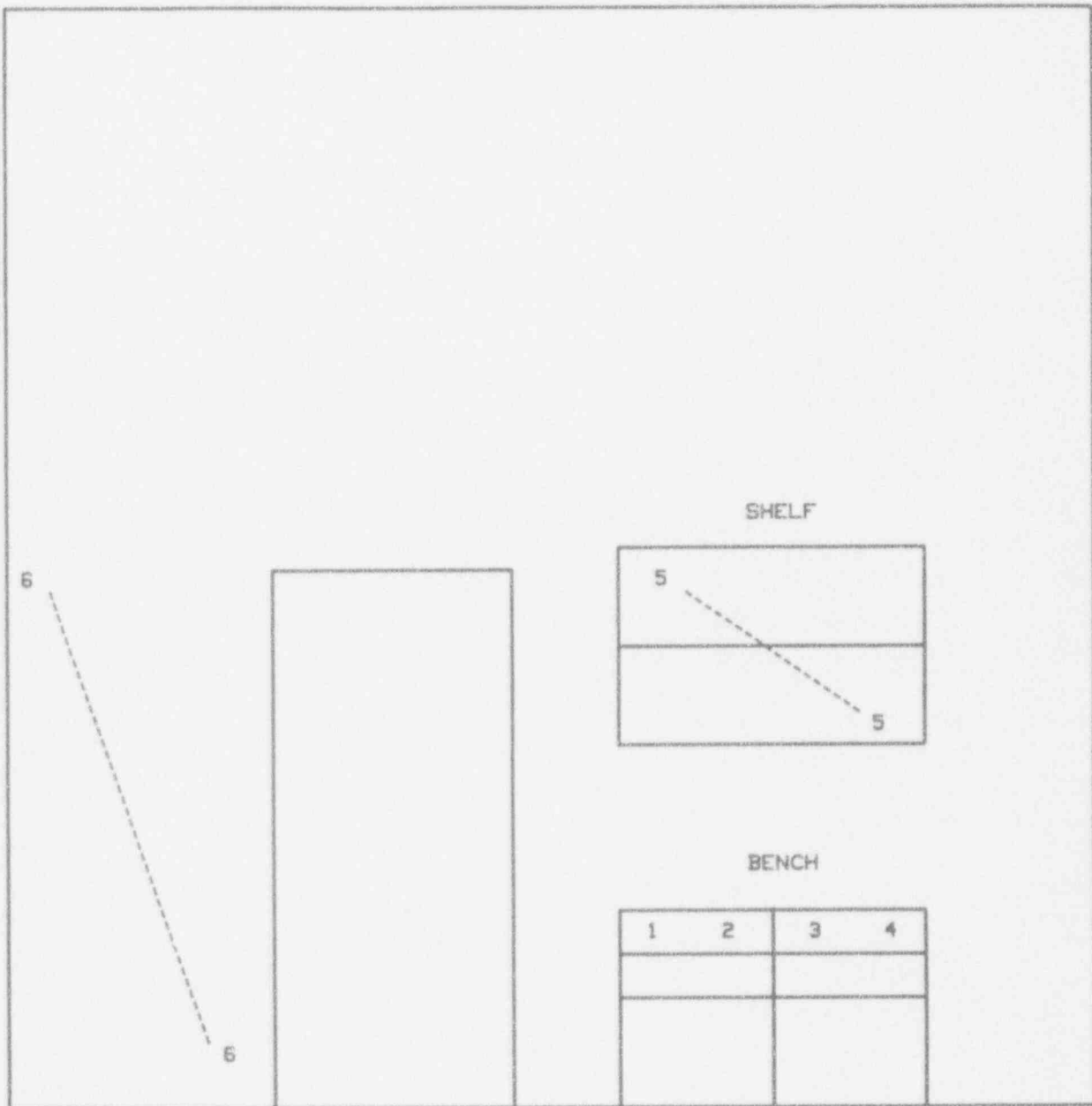
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-131 VIEW-C

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-131 View D

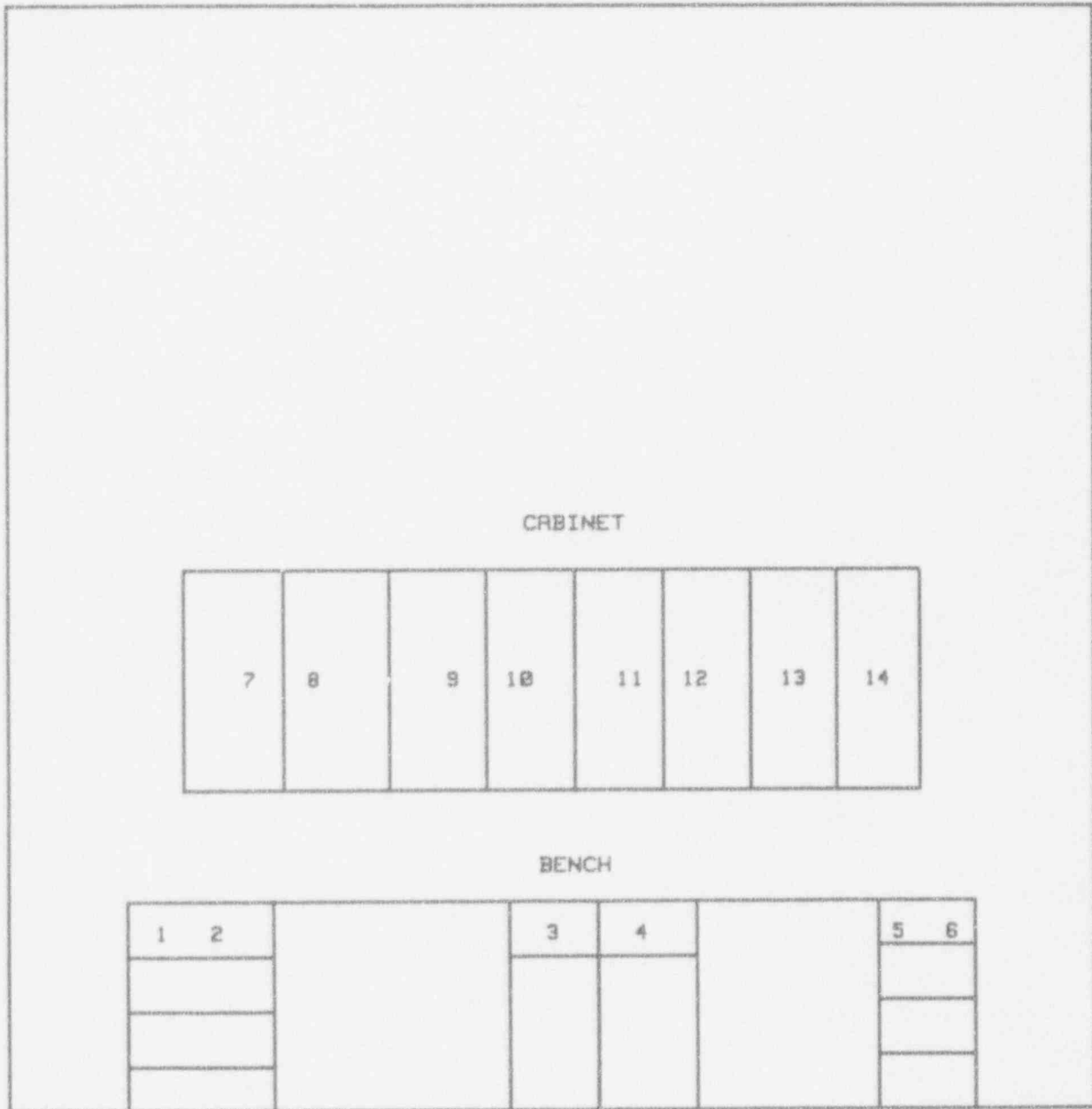
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25
11	<50	<25
12	<50	<25
13	<50	<25
14	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-131 VIEW-D

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-131 Hood 1

SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	202 ±20	101
2	<50	<25
3	473 ±47	237
4	86 ±9	43
5	240 ±24	120
6	497 ±50	249
7	<50	<25
8	<50	<25
9	109 ±11	55
10	79 ±8	40

**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-133 Main View

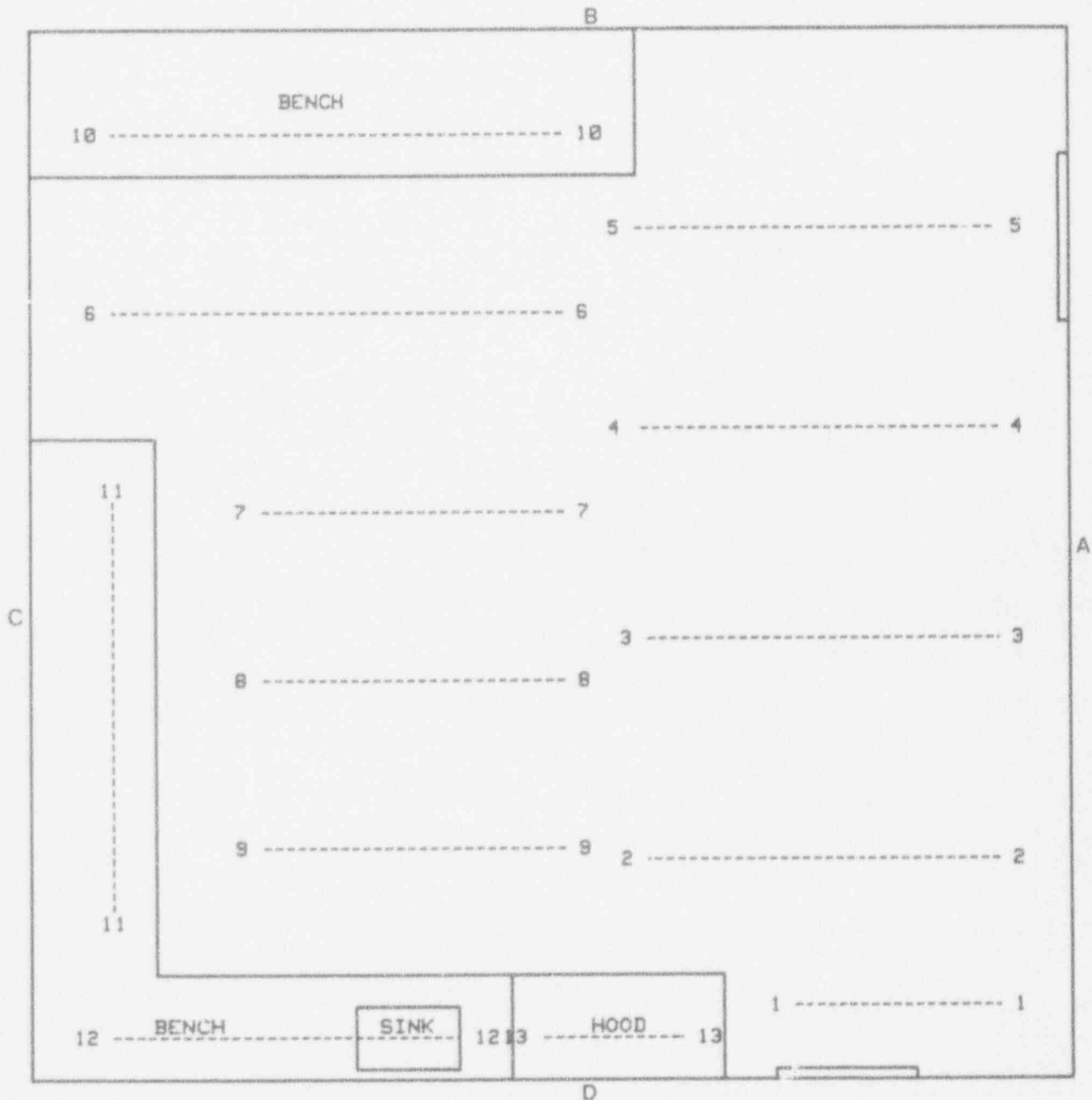
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25
11	<50	<25
12	<50	<25
13	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-133 MAIN VIEW

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-133 View B

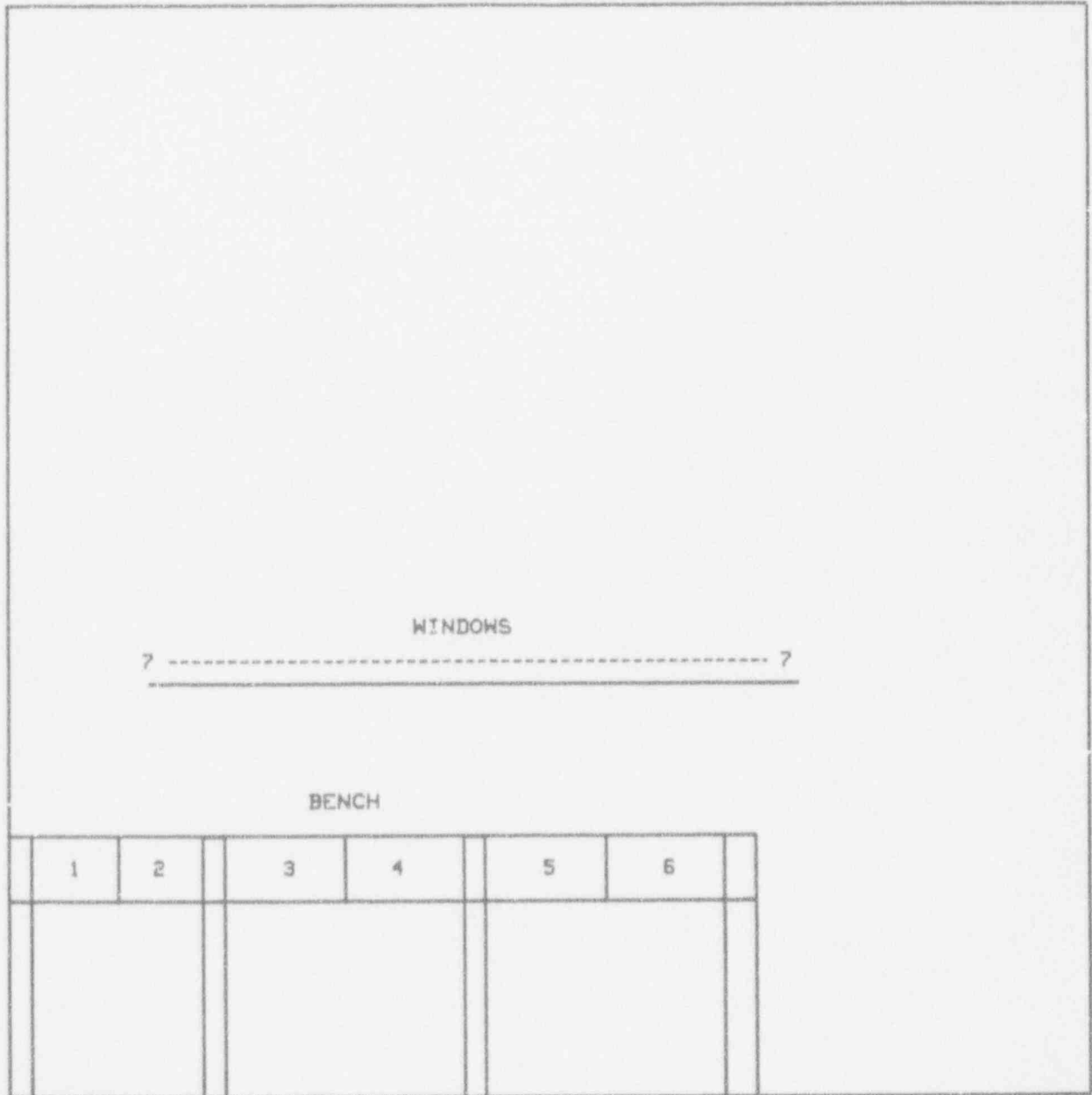
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-133 VIEW-B

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-133 View C

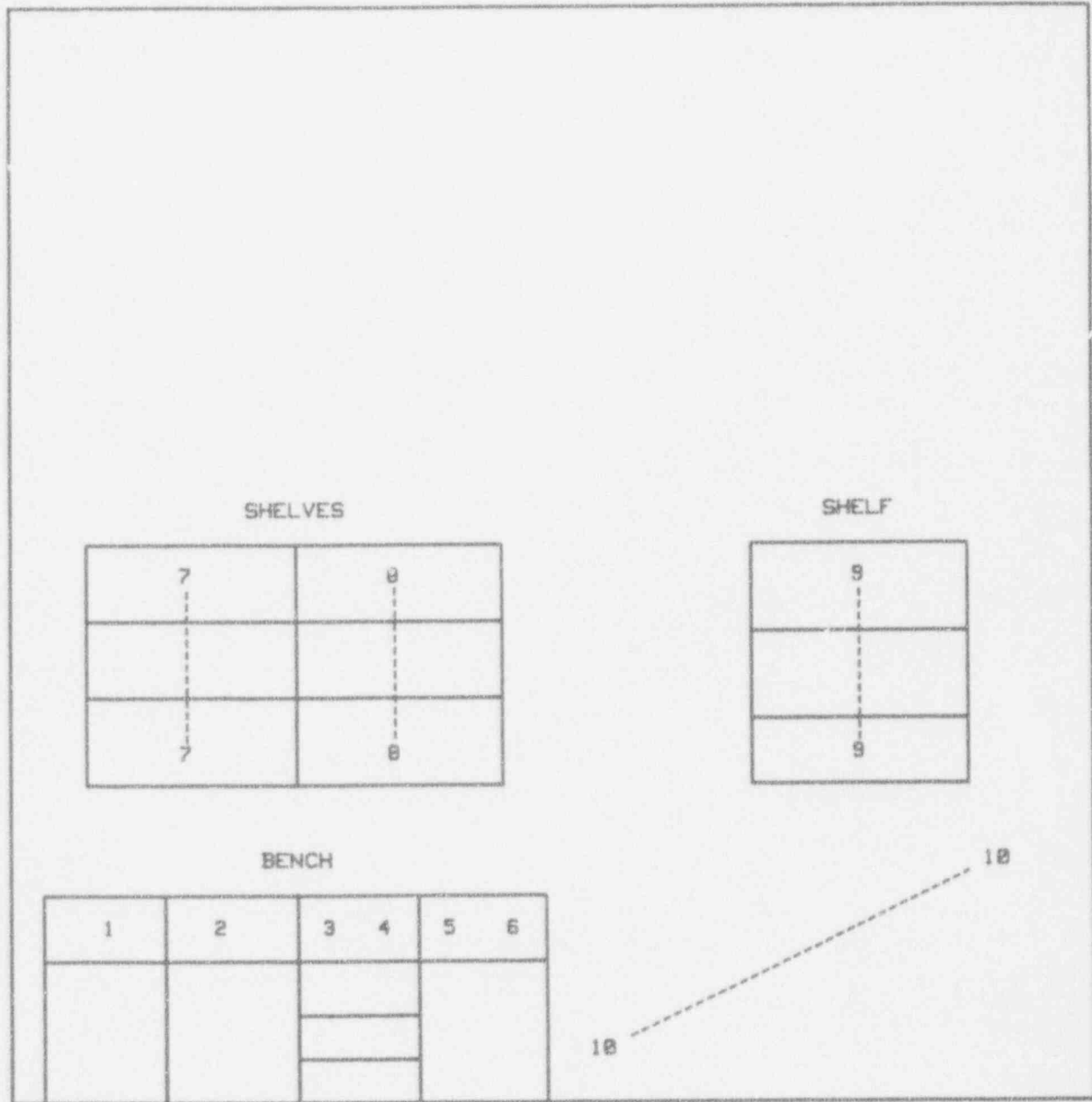
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	122 ±12	61
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-133 VIEW-C

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-133 View D (Pre-decon)

SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25
11	<50	<25
12	1820 ± 182	910

**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-133 View D (Post-decon)

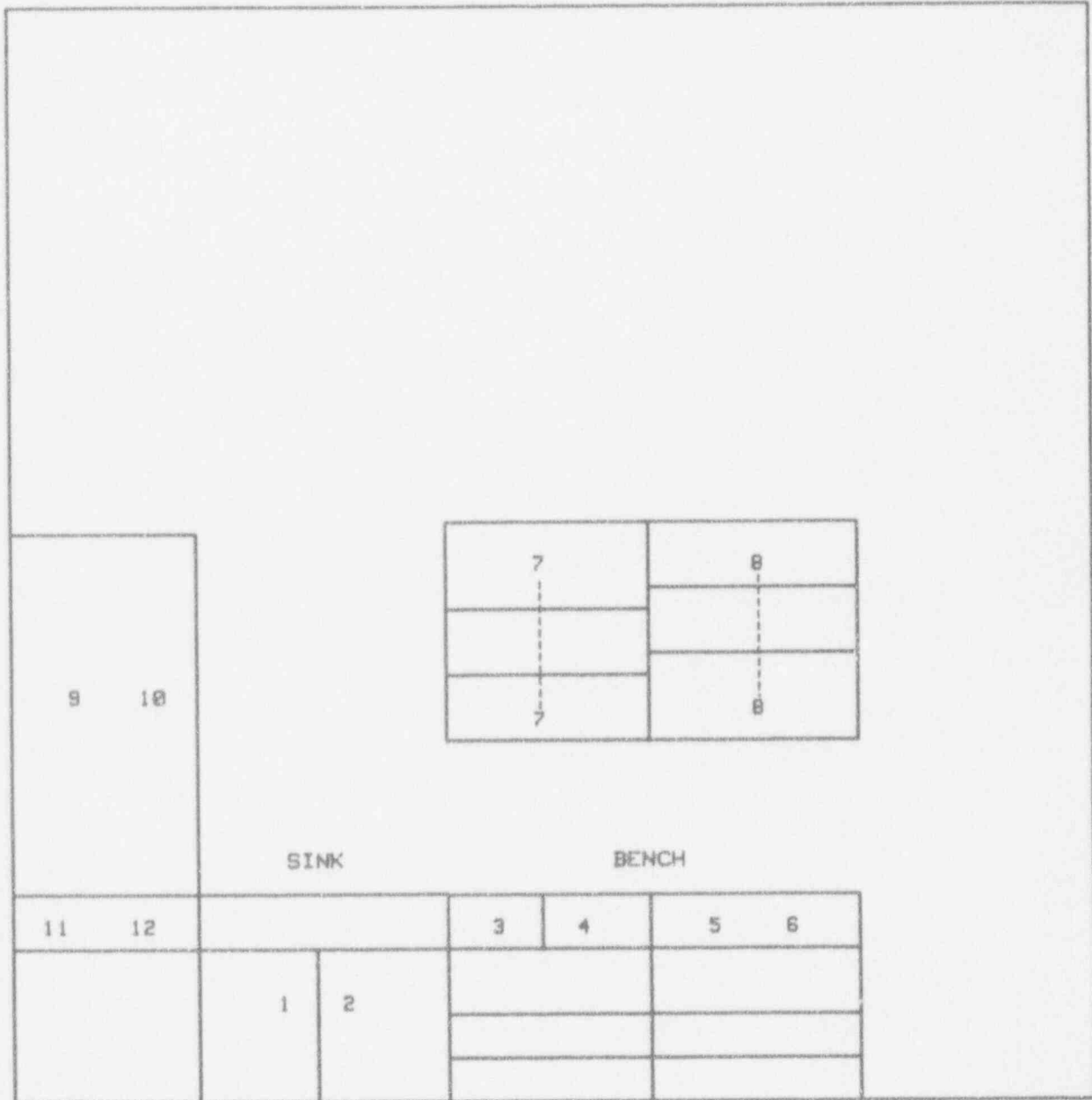
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25
11	<50	<25
12	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-133 VIEW-D

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-133 Hood 1

SMEAR No.	Low Energy Be' α Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	65 \pm 7	33
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25

**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-135 Main View

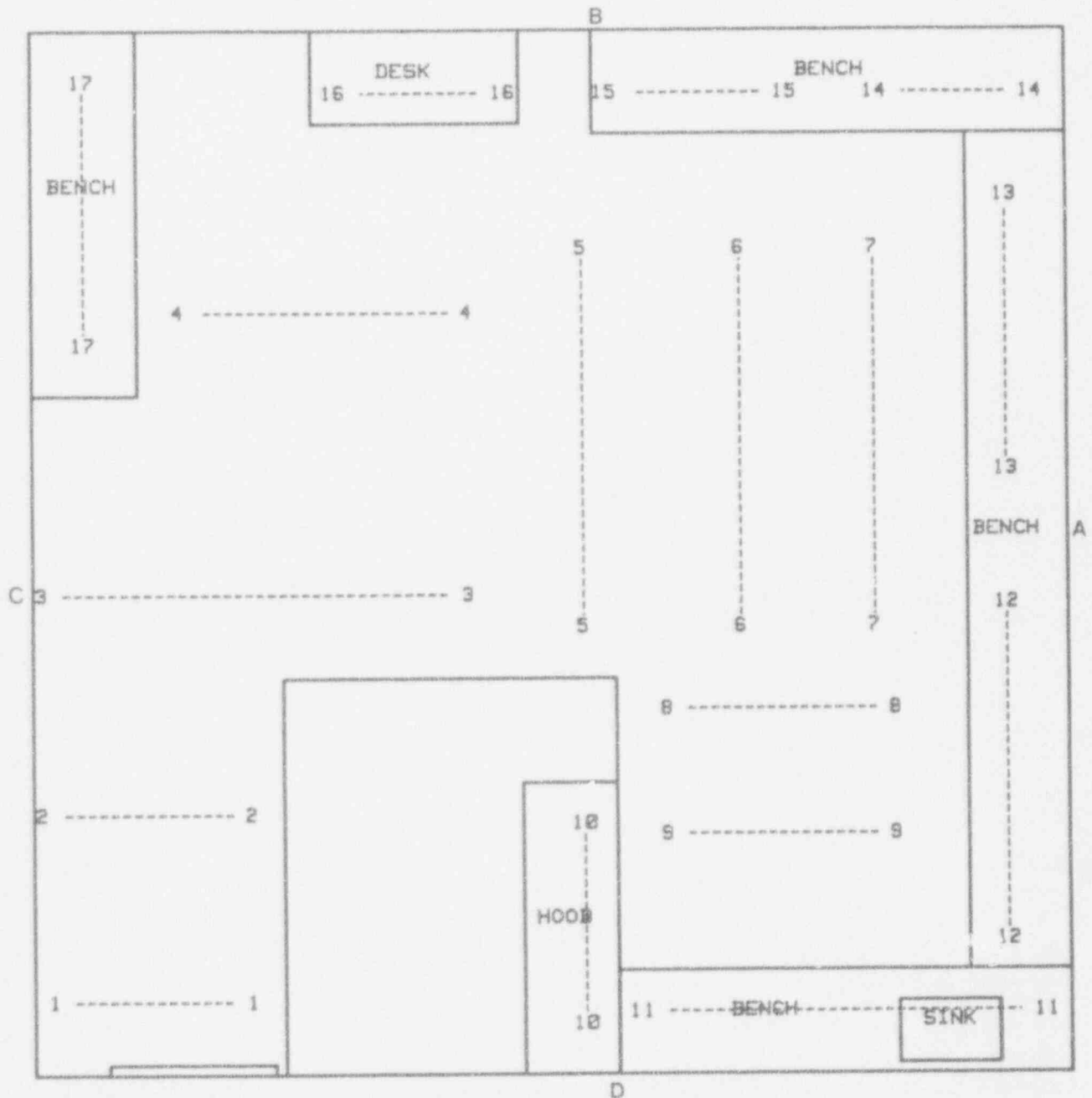
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25
11	<50	<25
12	<50	<25
13	<50	<25
14	<50	<25
15	<50	<25
16	<50	<25
17	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-135 MAIN VIEW

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-135 View A

SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25
11	<50	<25
12	<50	<25
13	<50	<25
14	<50	<25
15	<50	<25

**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-135 View B

SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25
11	<50	<25
12	<50	<25
13	<50	<25
14	<50	<25
15	<50	<25
16	<50	<25
17	<50	<25

**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-135 View C

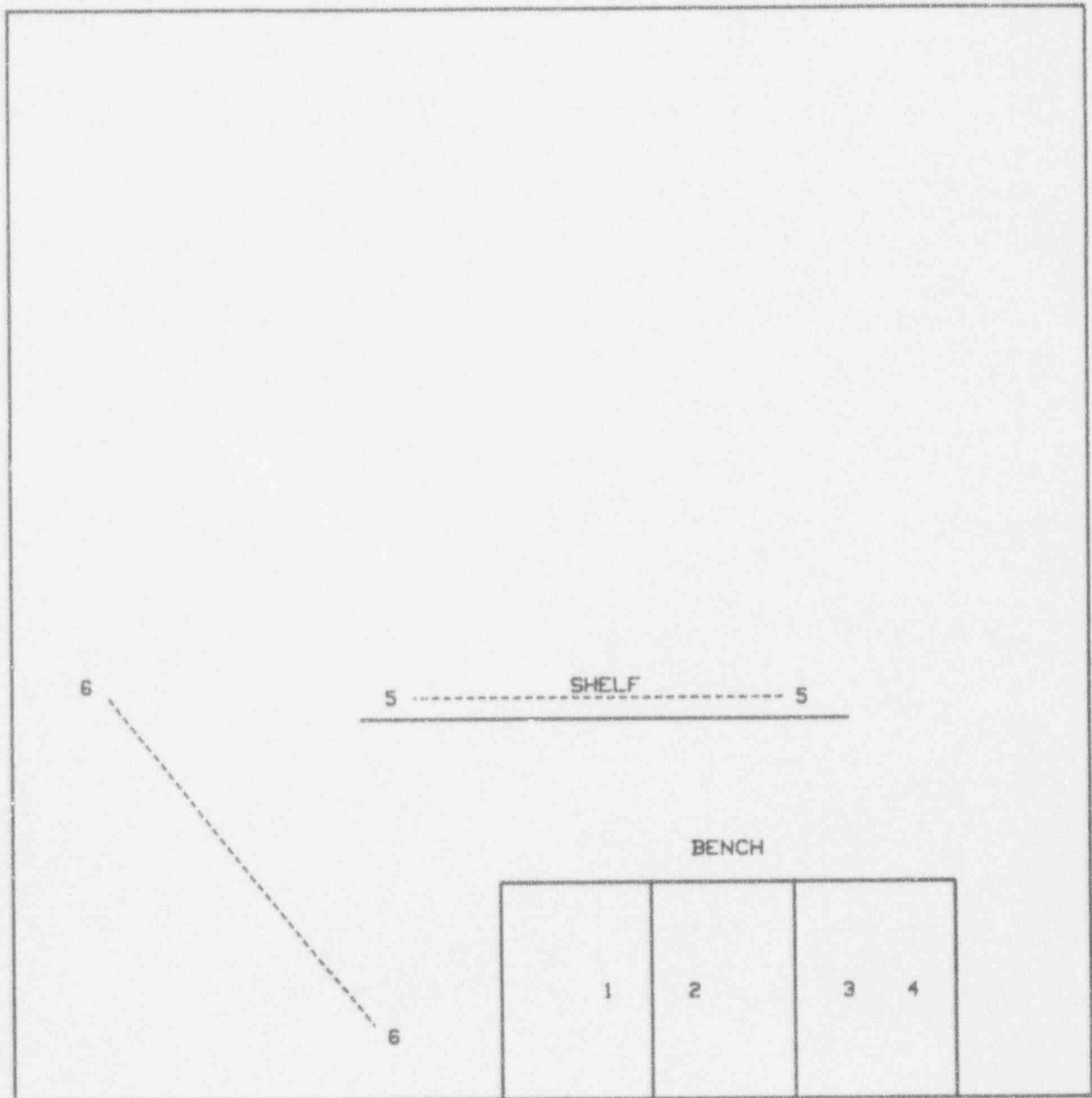
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-135 VIEW-C

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-135 View D

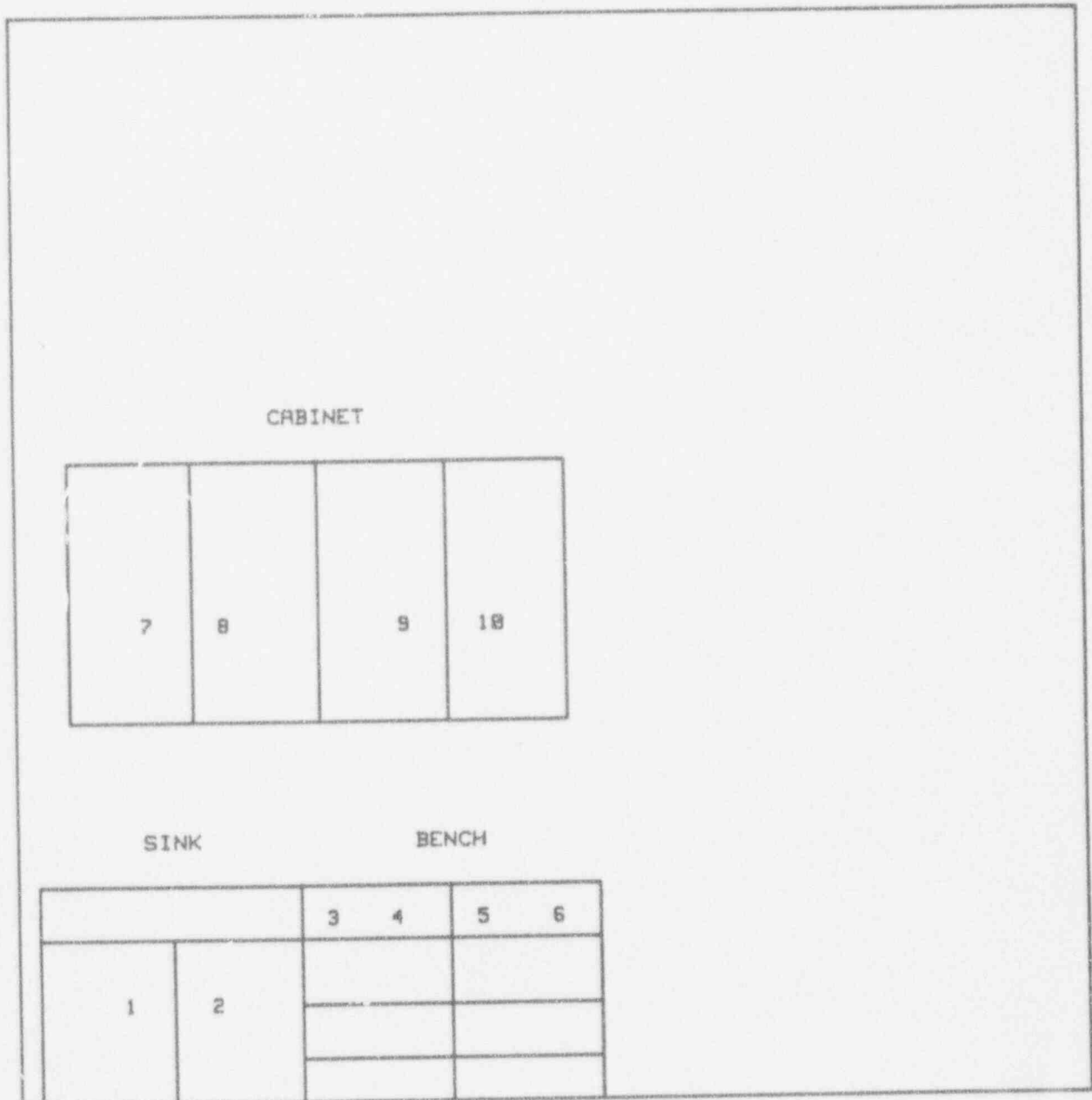
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	401 ±40	201
5	<50	<25
6	51 ±5	26
7	517 ±52	259
8	<50	<25
9	<50	<25
10	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-135 VIEW-D

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-135 Hood 1

SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25

**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-136 Main View

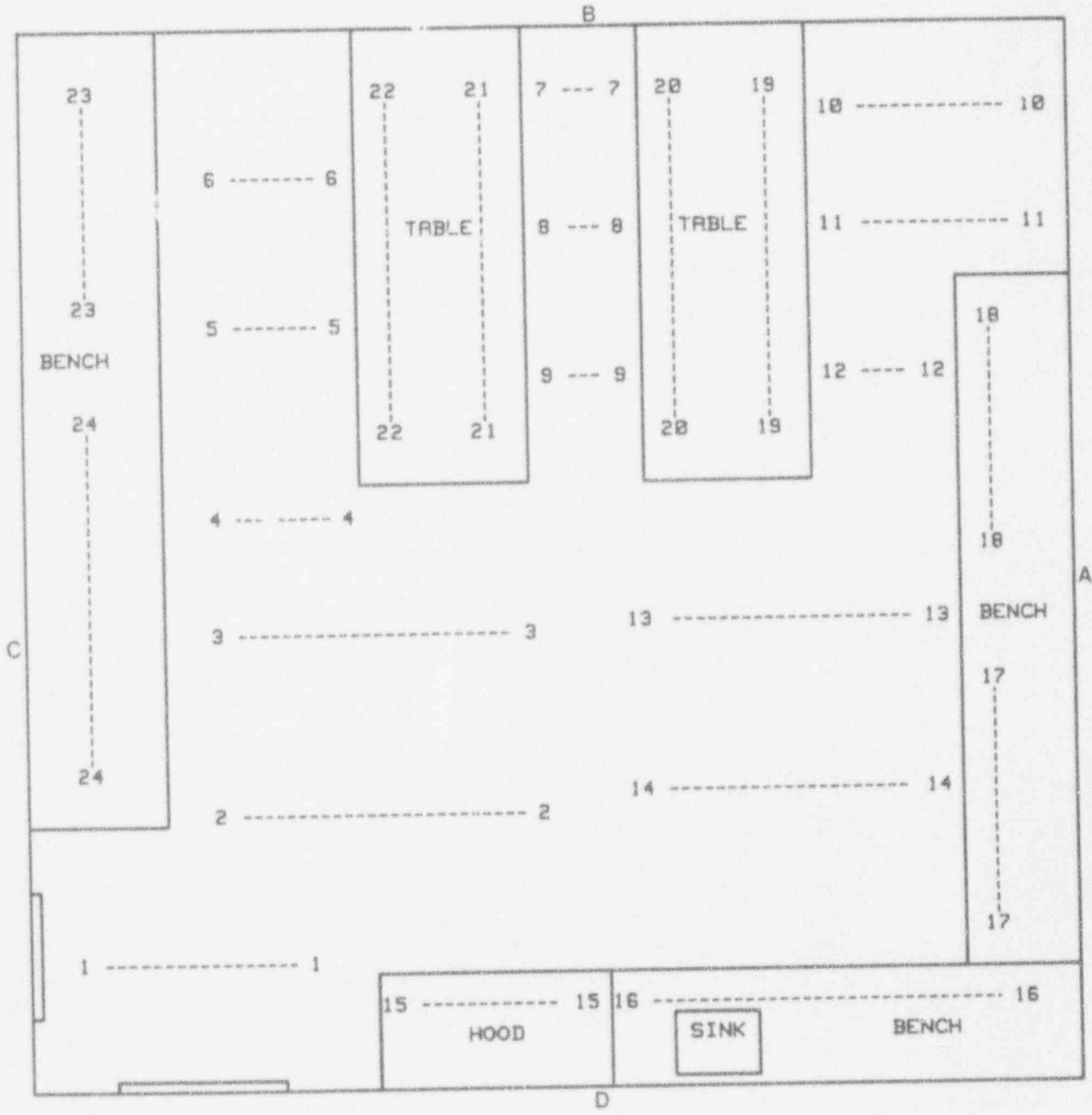
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25
11	<50	<25
12	<50	<25
13	<50	<25
14	<50	<25
15	<50	<25
16	<50	<25
17	<50	<25
18	<50	<25
19	<50	<25
20	<50	<25
21	<50	<25
22	<50	<25
23	<50	<25
24	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-136 MAIN VIEW

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-136 View A

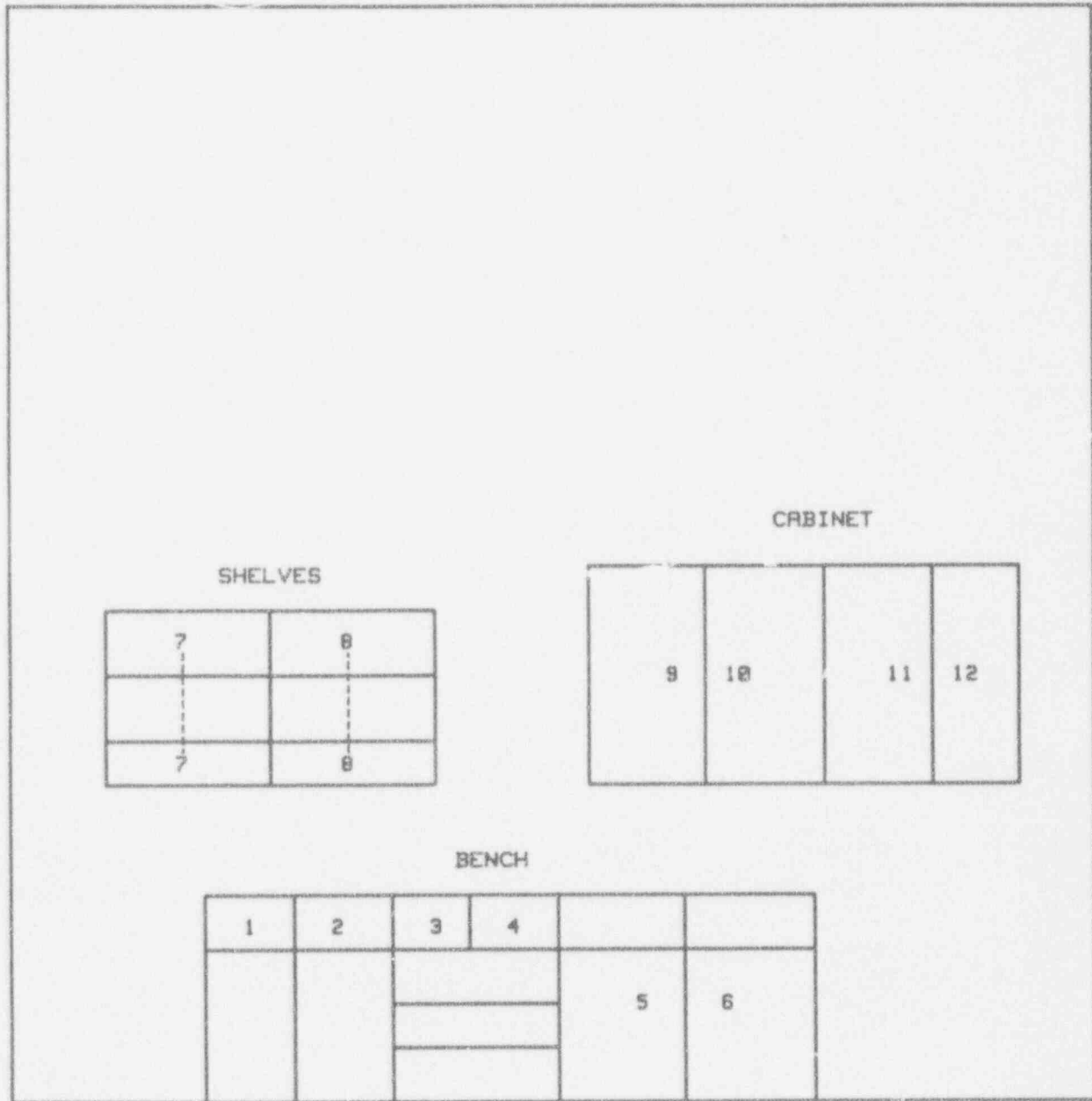
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25
11	<50	<25
12	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-136 VIEW-R

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-136 View C

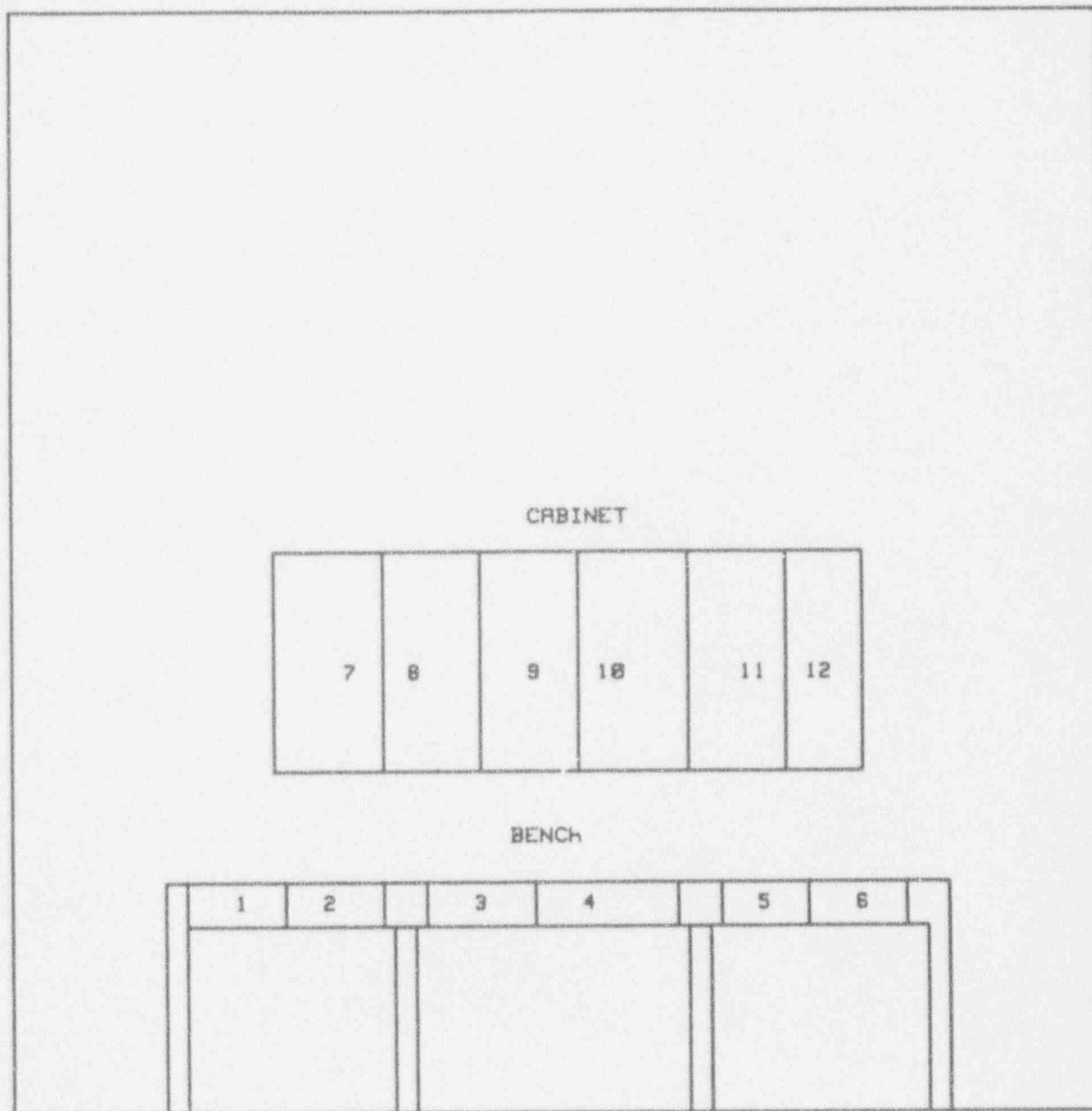
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25
11	<50	<25
12	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-136 VIEW-C

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION:

V-136 View D

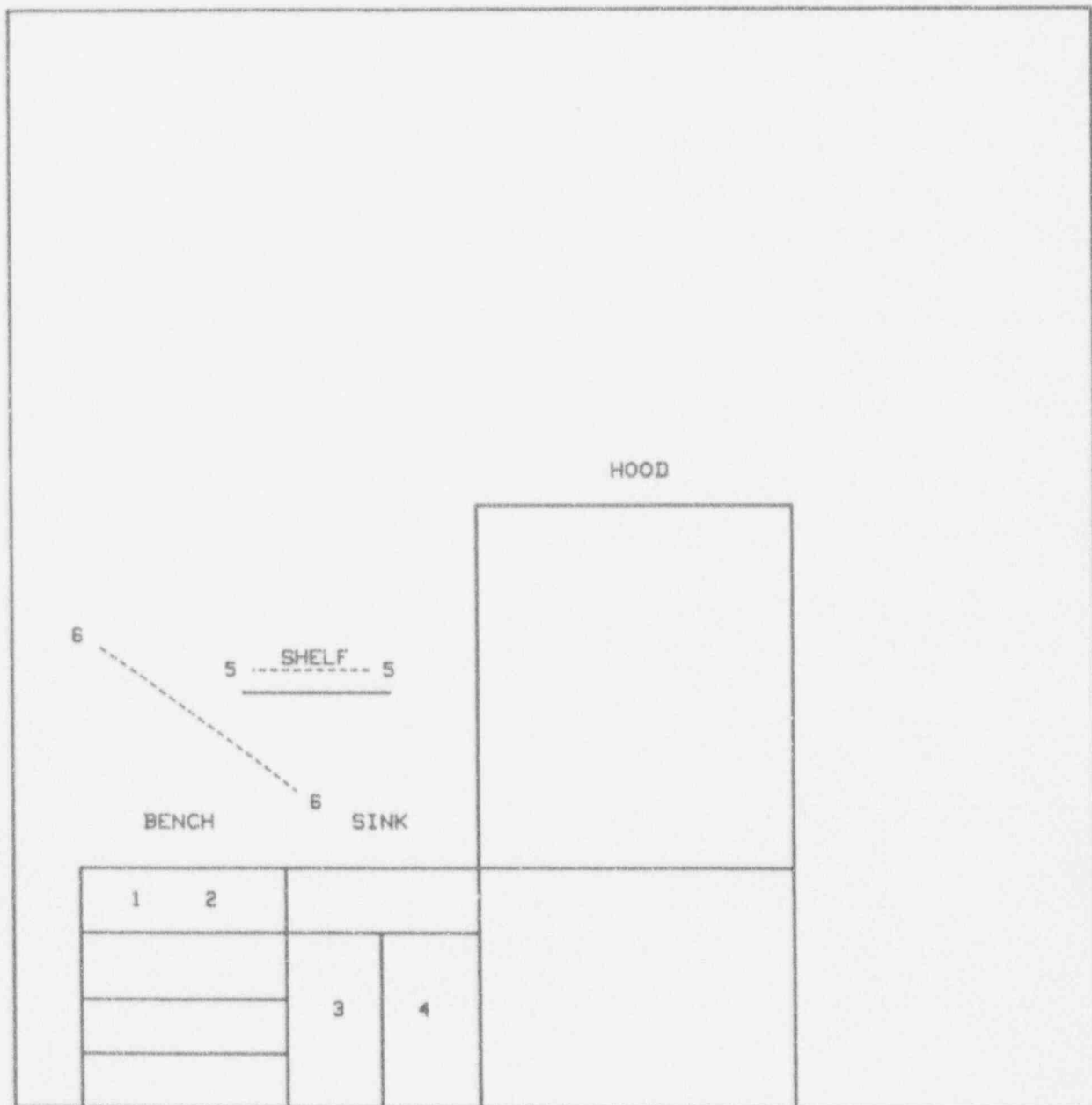
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-136 VIEW-D

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-136 Hood 1

SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25

**FINAL SITE SURVEY
FOR
CIBA-GEIGY CORPORATION
SUMMIT, NEW JERSEY
SEPTEMBER 1993
BUILDING V, SECOND FLOOR**

Joel Antkowiak
Robert S. Bell, Jr.

Survey Date: August 30 through September 3, 1993
Report Date: October 15, 1993

Teledyne Isotopes
50 Van Buren Avenue
Westwood, New Jersey 07675

**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-202 Main View

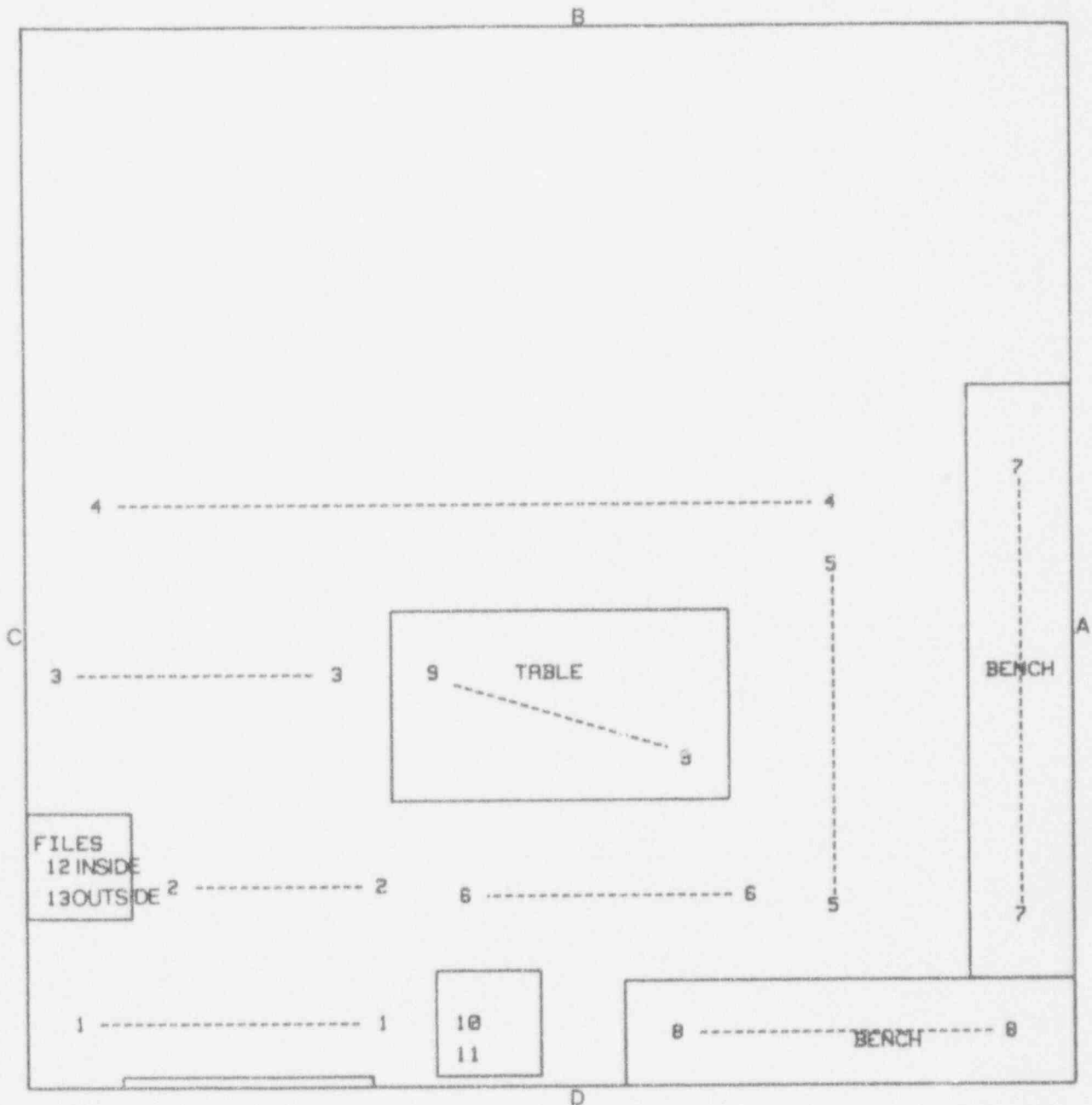
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25
11	<50	<25
12	<50	<25
13	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-202 MAIN VIEW

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-202 View A

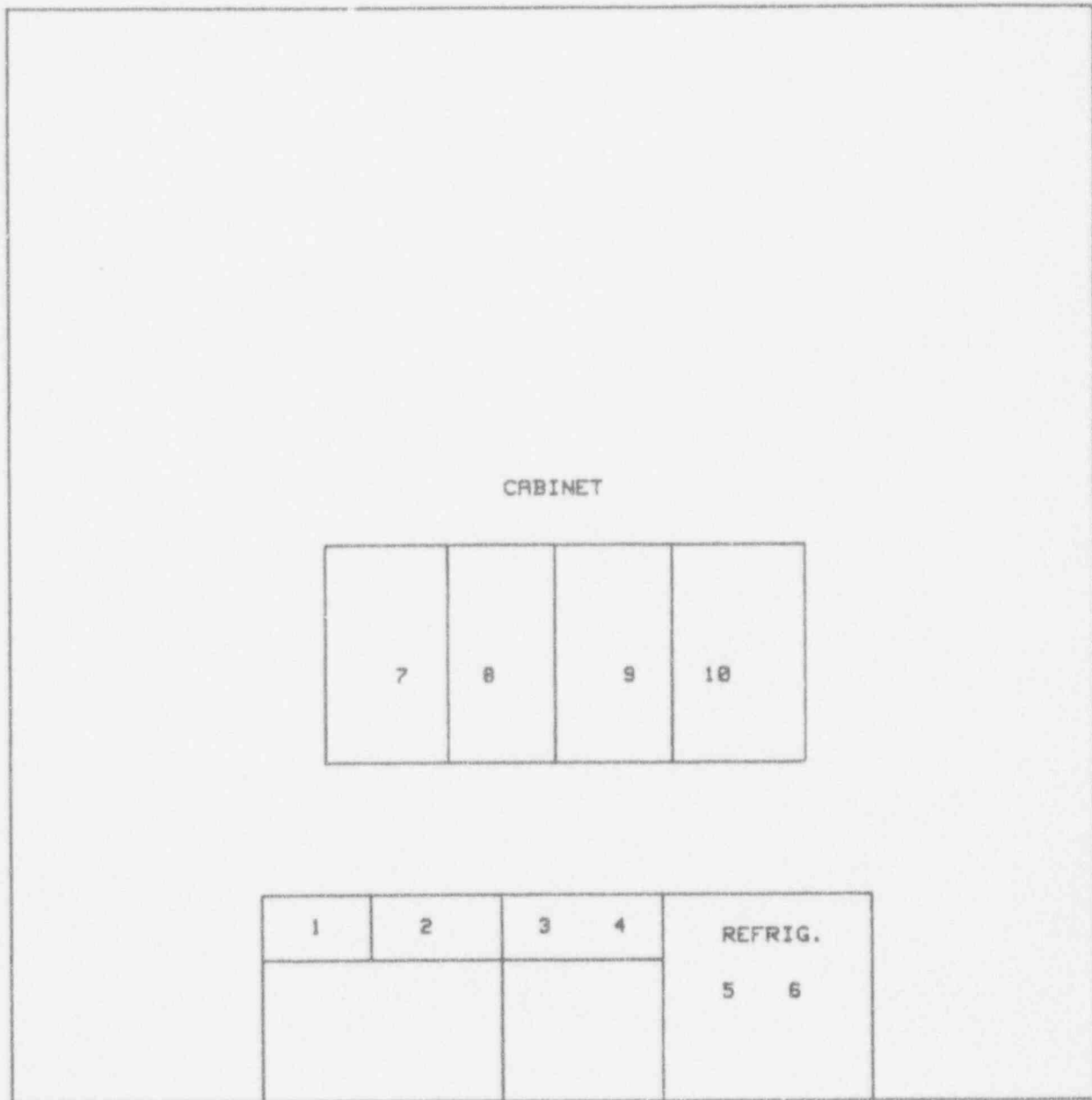
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-202 VIEW-R

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-202 View D

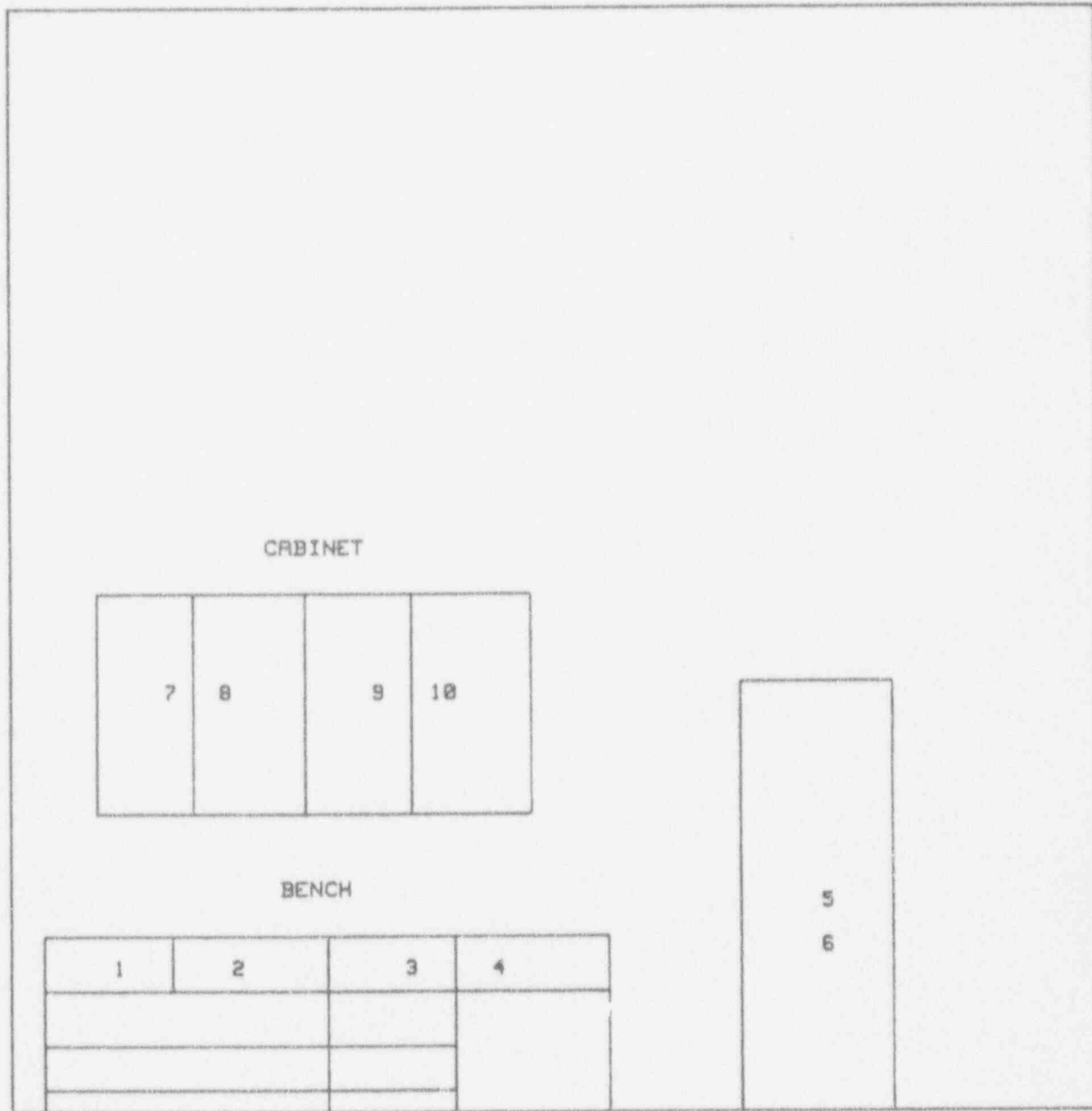
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-202 VIEW-D

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-202 Island

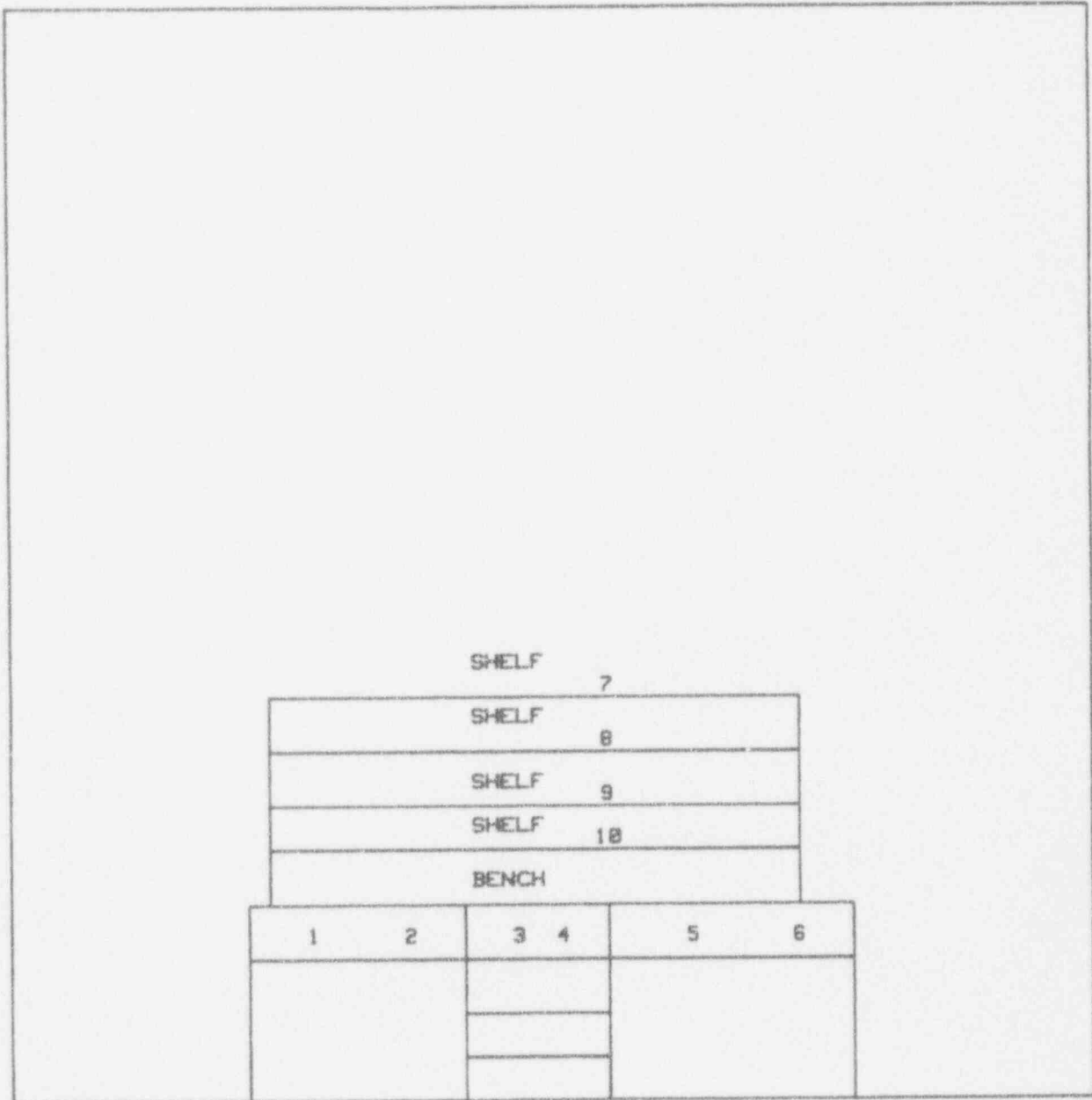
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-202 ISLAND

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-204 Main View

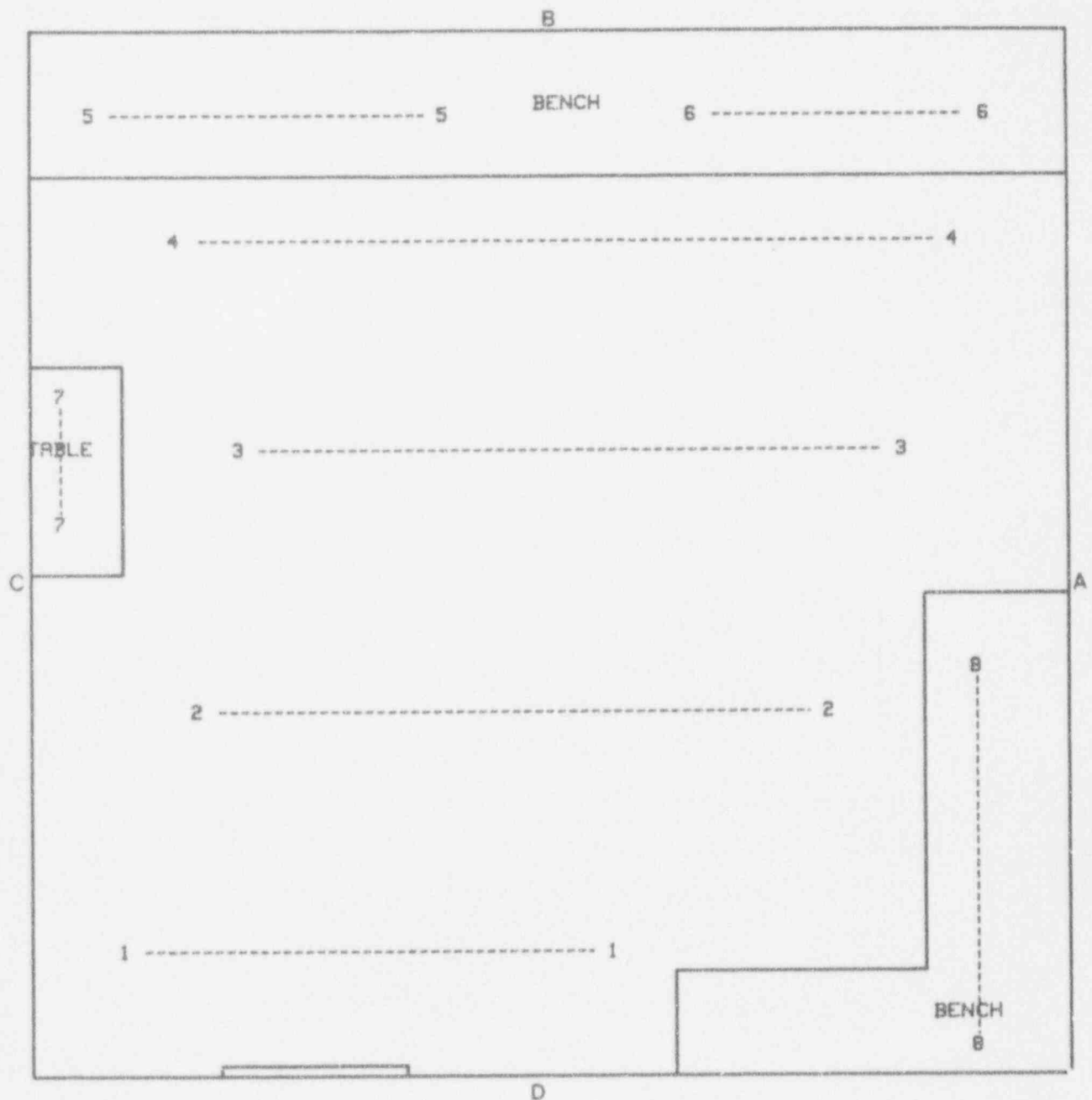
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-204 MAIN VIEW

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-204 View A

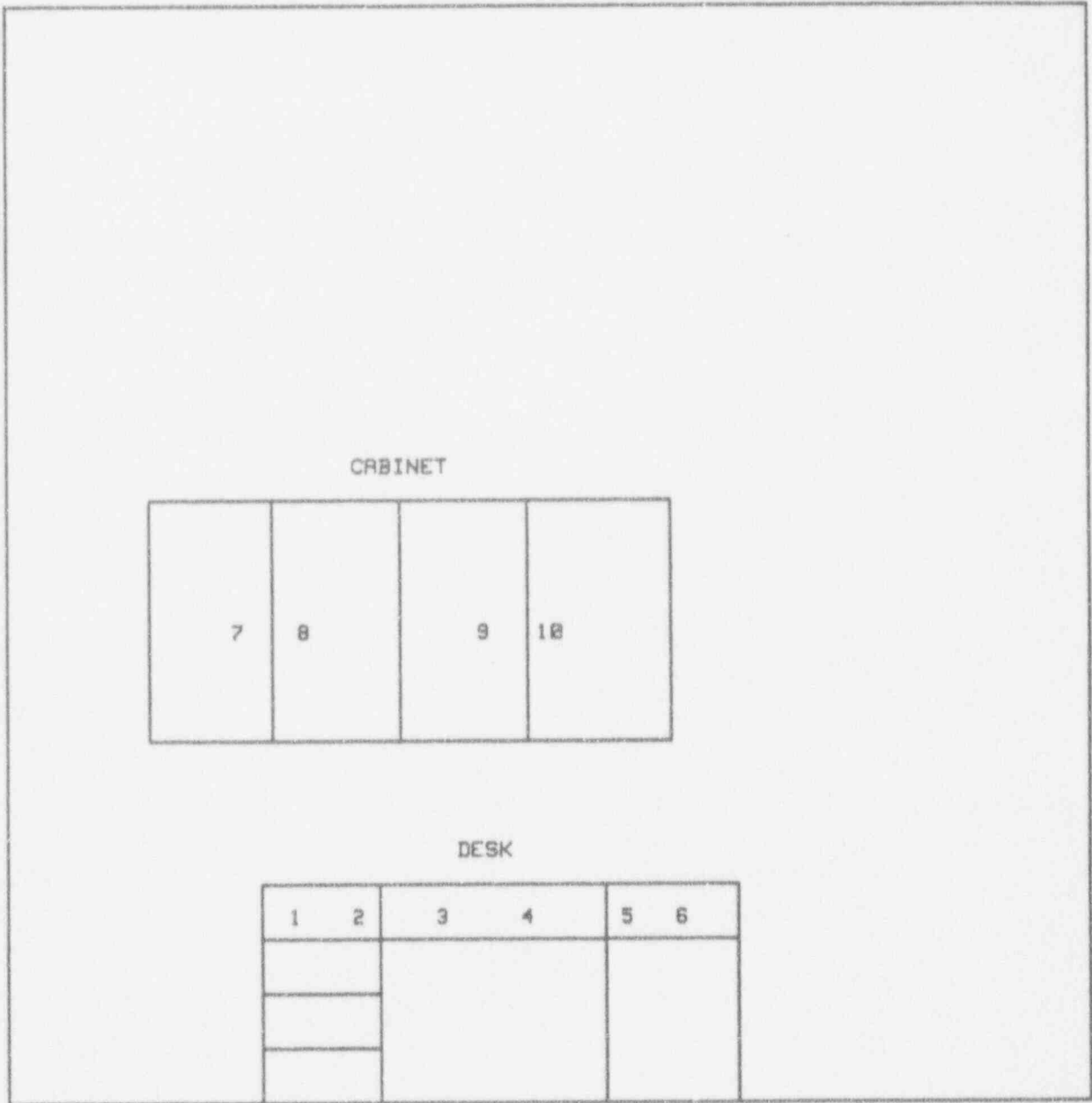
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25

● DIAGRAM OF SURVEYED AREA

LOCATION: V-204 VIEW-R

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



CABINET

7	8	9	10
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DESK

1	2	3	4	5	6

**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION:

V-204 View B

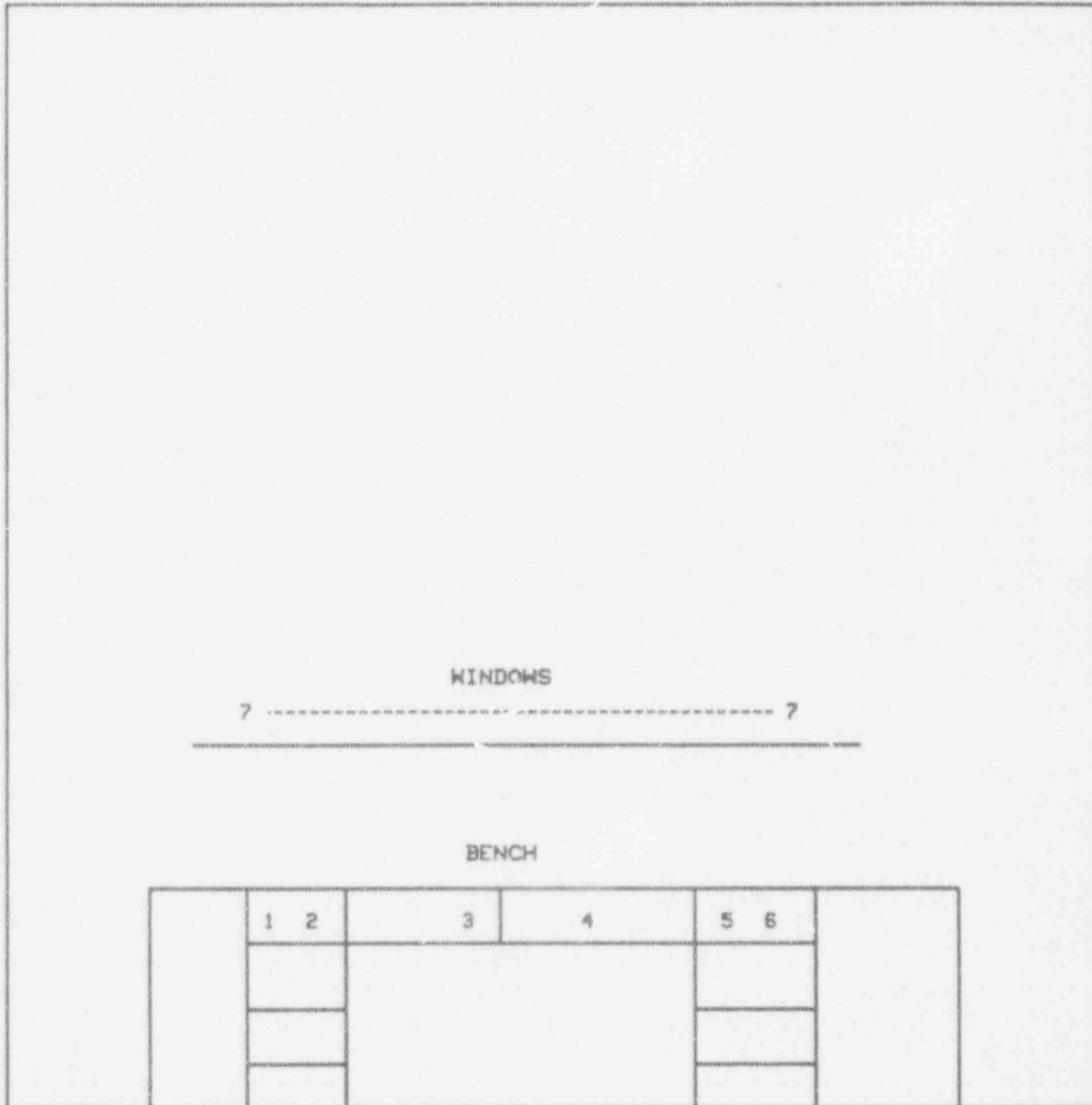
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25

● DIAGRAM OF SURVEYED AREA

LOCATION: V-204 VIEW-B

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-204 View C

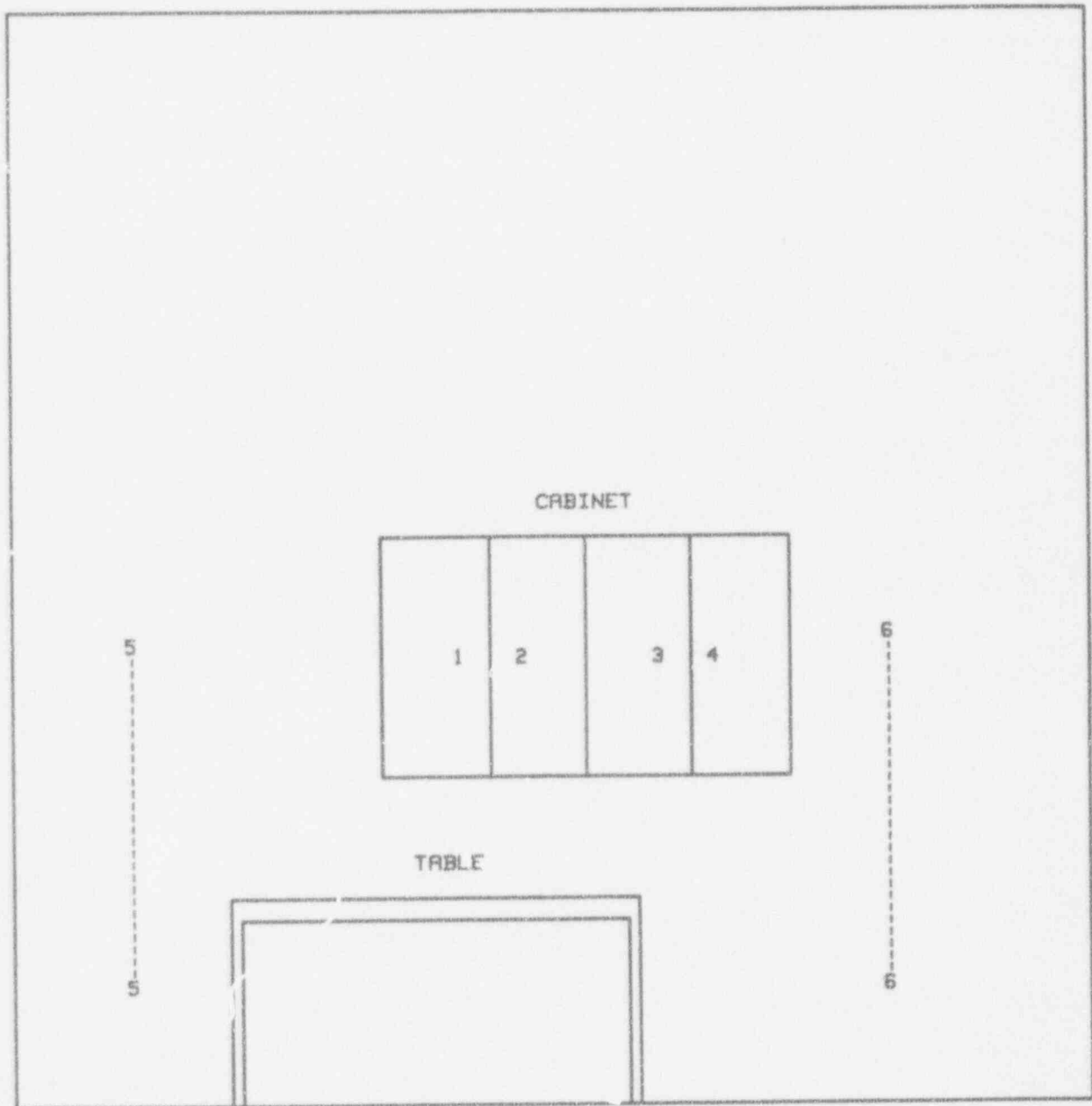
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-284 VIEW-C

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-204 View D

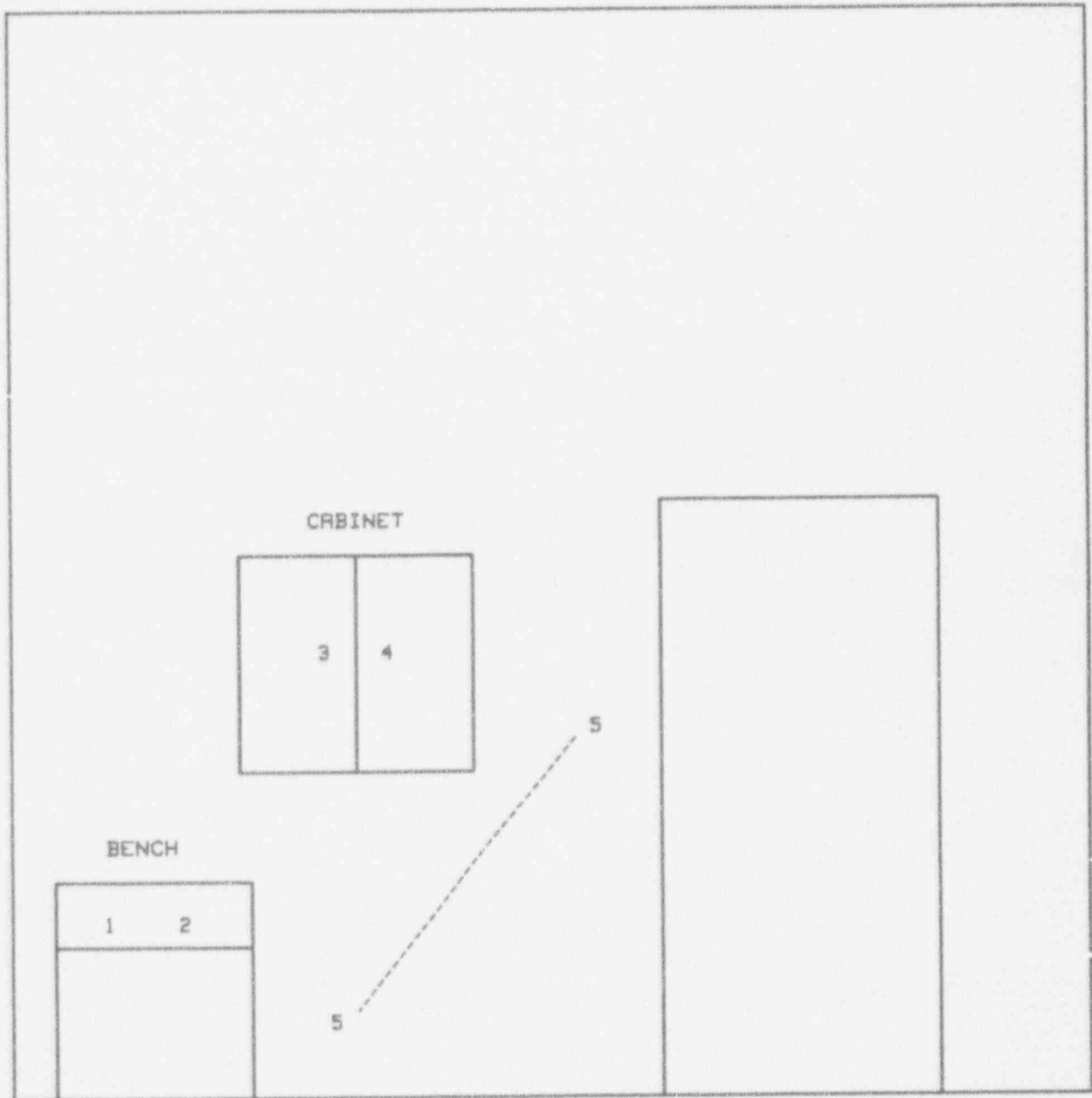
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-204 VIEW-D

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-205 Main View

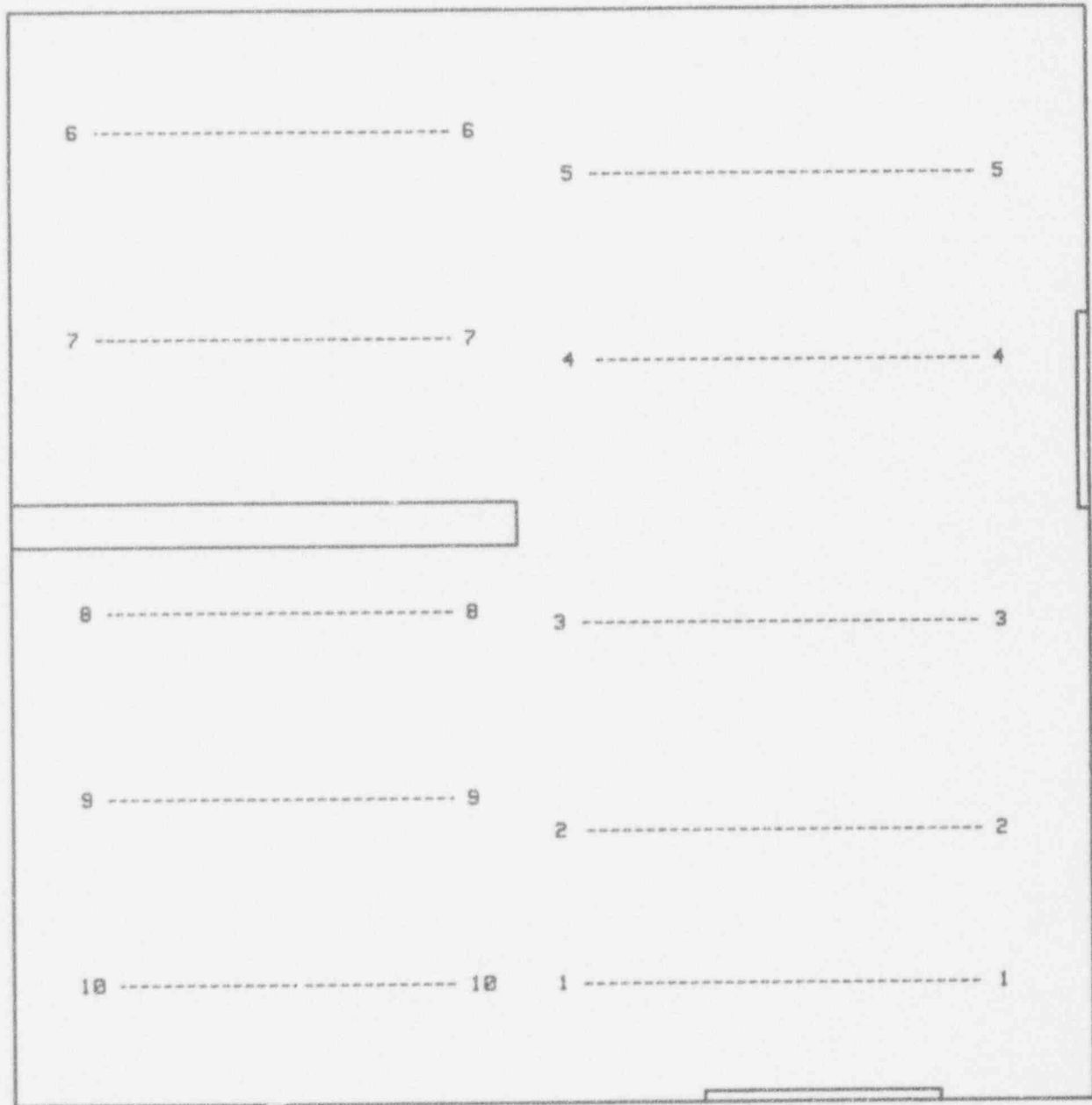
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-205 MAIN VIEW

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-206 Main View

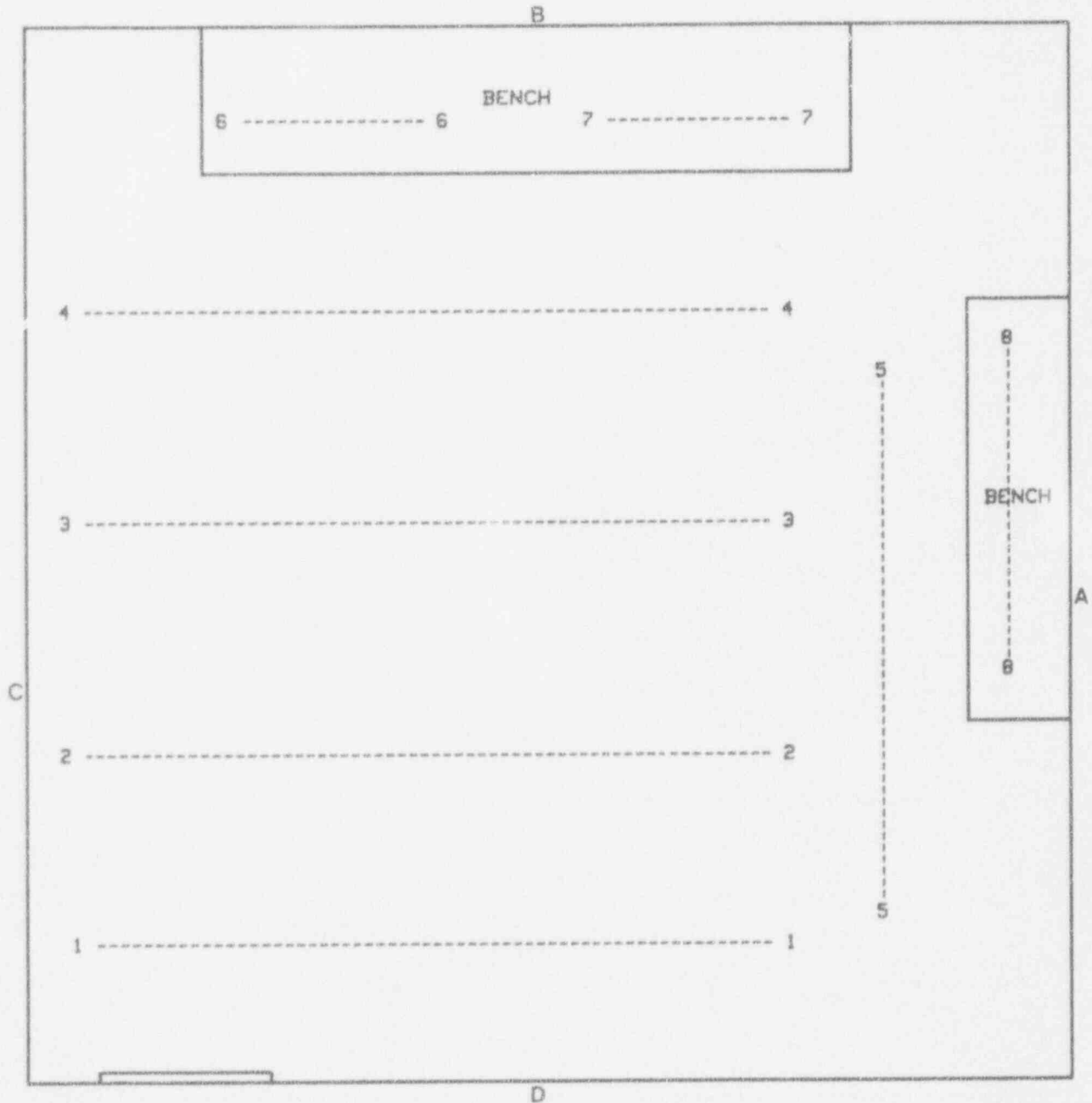
SMEAR No.	Low Energy Beta Activity dpra/sample	Low Energy Beta Activity dpra/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-206 MAIN VIEW

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING

LOCATION: V-206 View A

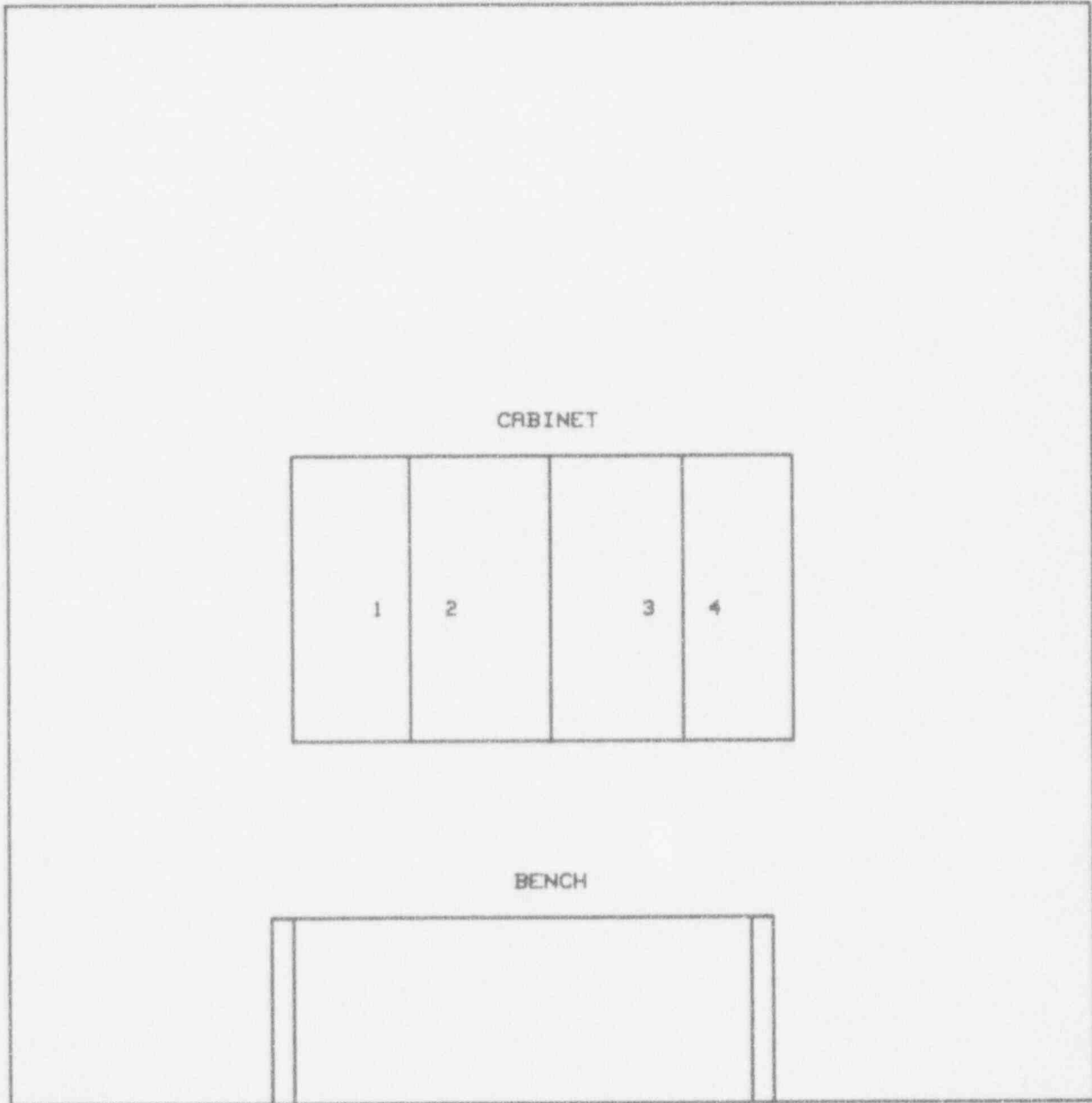
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25

● DIAGRAM OF SURVEYED AREA

LOCATION: V-286 VIEW-R

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-206 View B

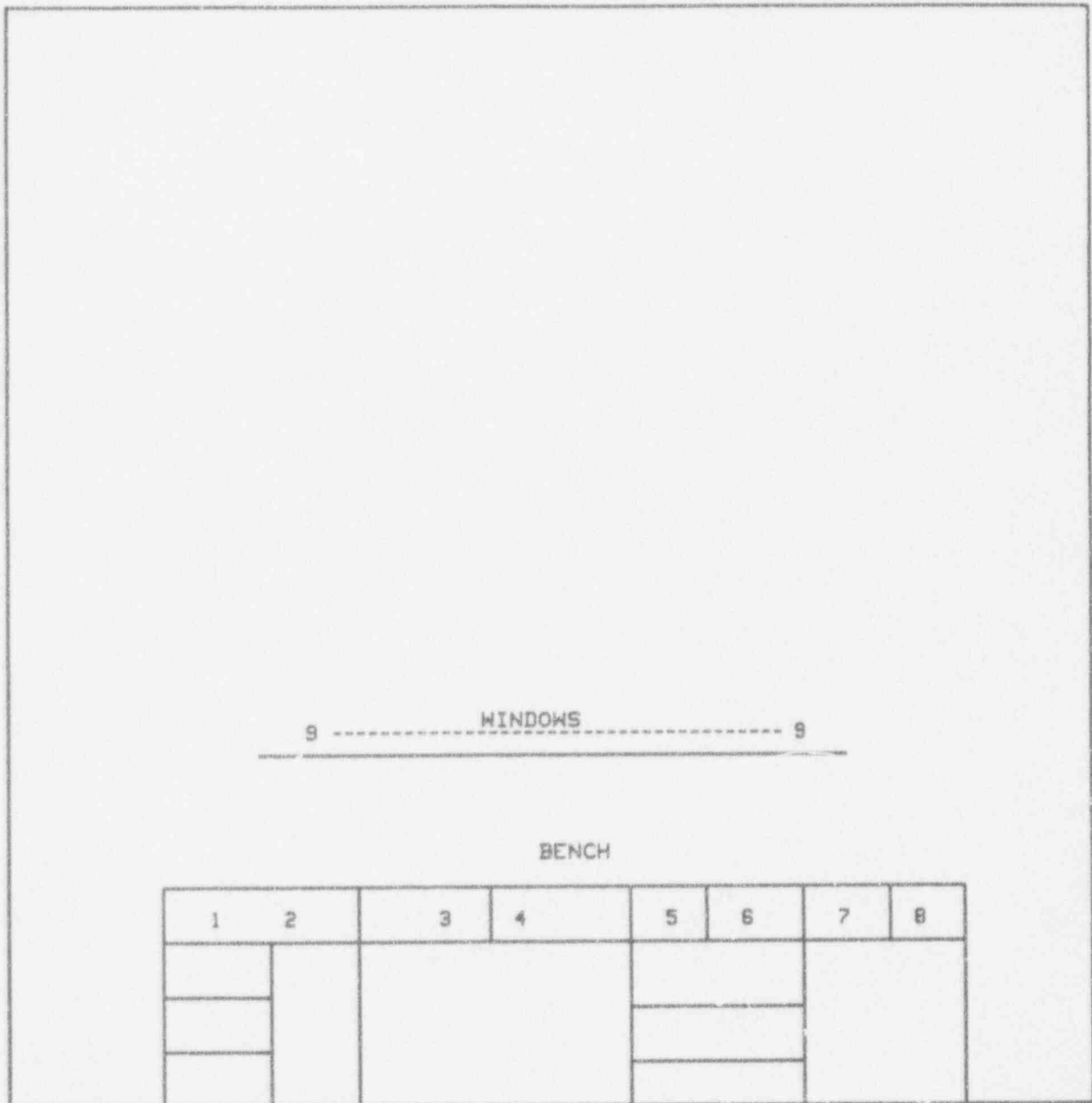
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-206 VIEW-B

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-206 View C

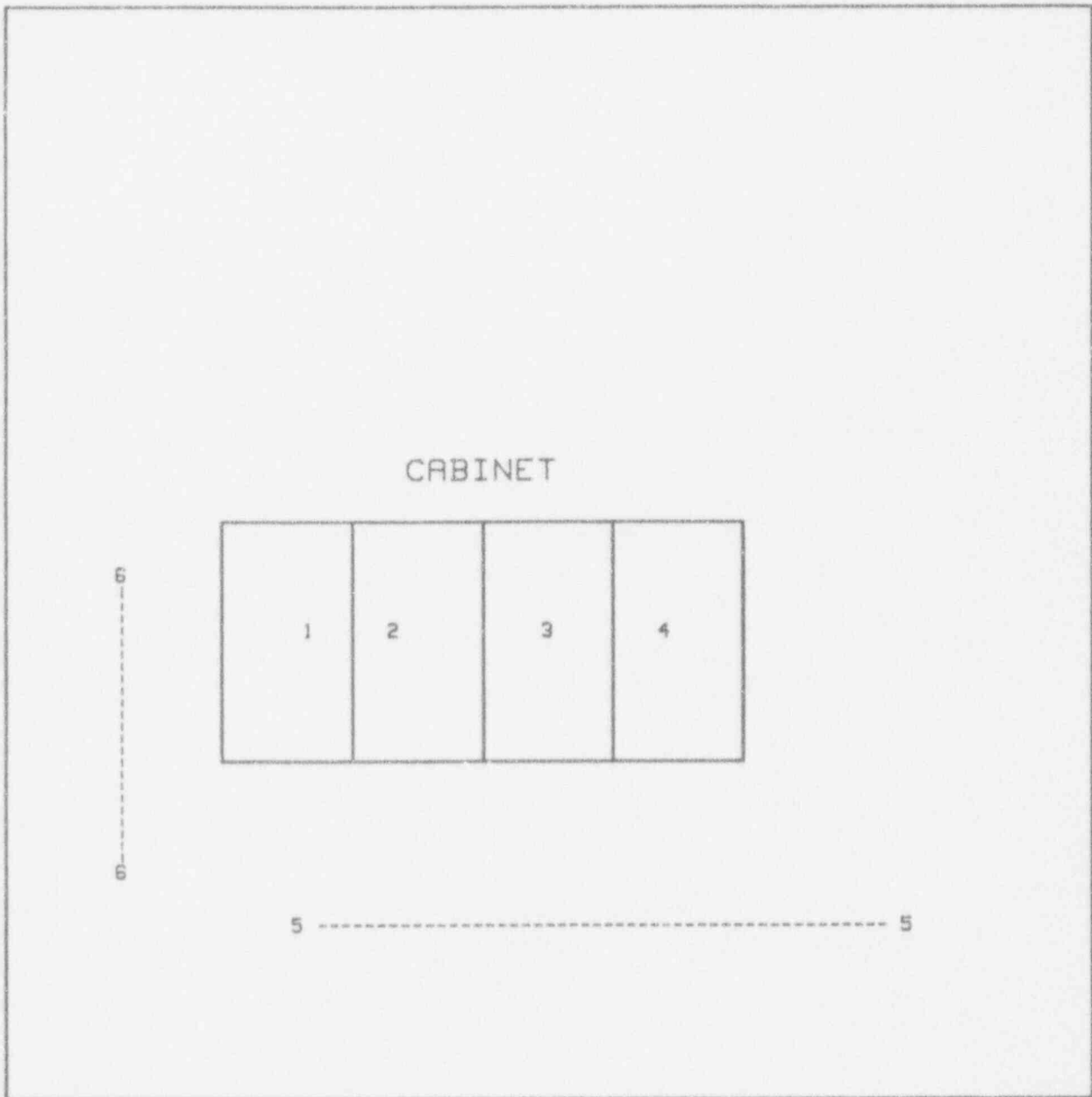
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-206 VIEW-C

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-208 Main View

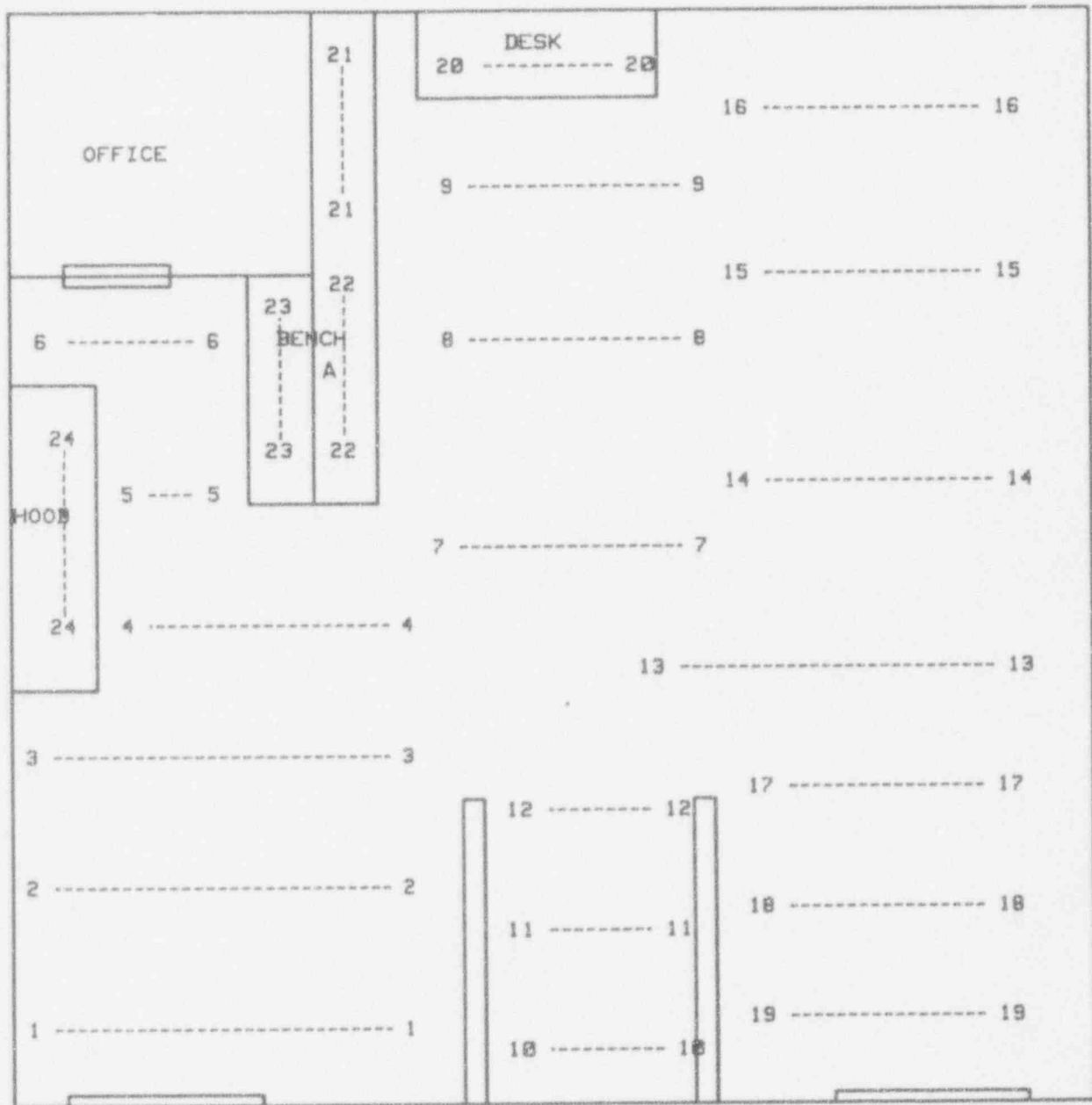
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25
11	<50	<25
12	<50	<25
13	<50	<25
14	<50	<25
15	<50	<25
16	<50	<25
17	<50	<25
18	<50	<25
19	<50	<25
20	<50	<25
21	<50	<25
22	<50	<25
23	<50	<25
24	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-200 MAIN VIEW

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-208 View A

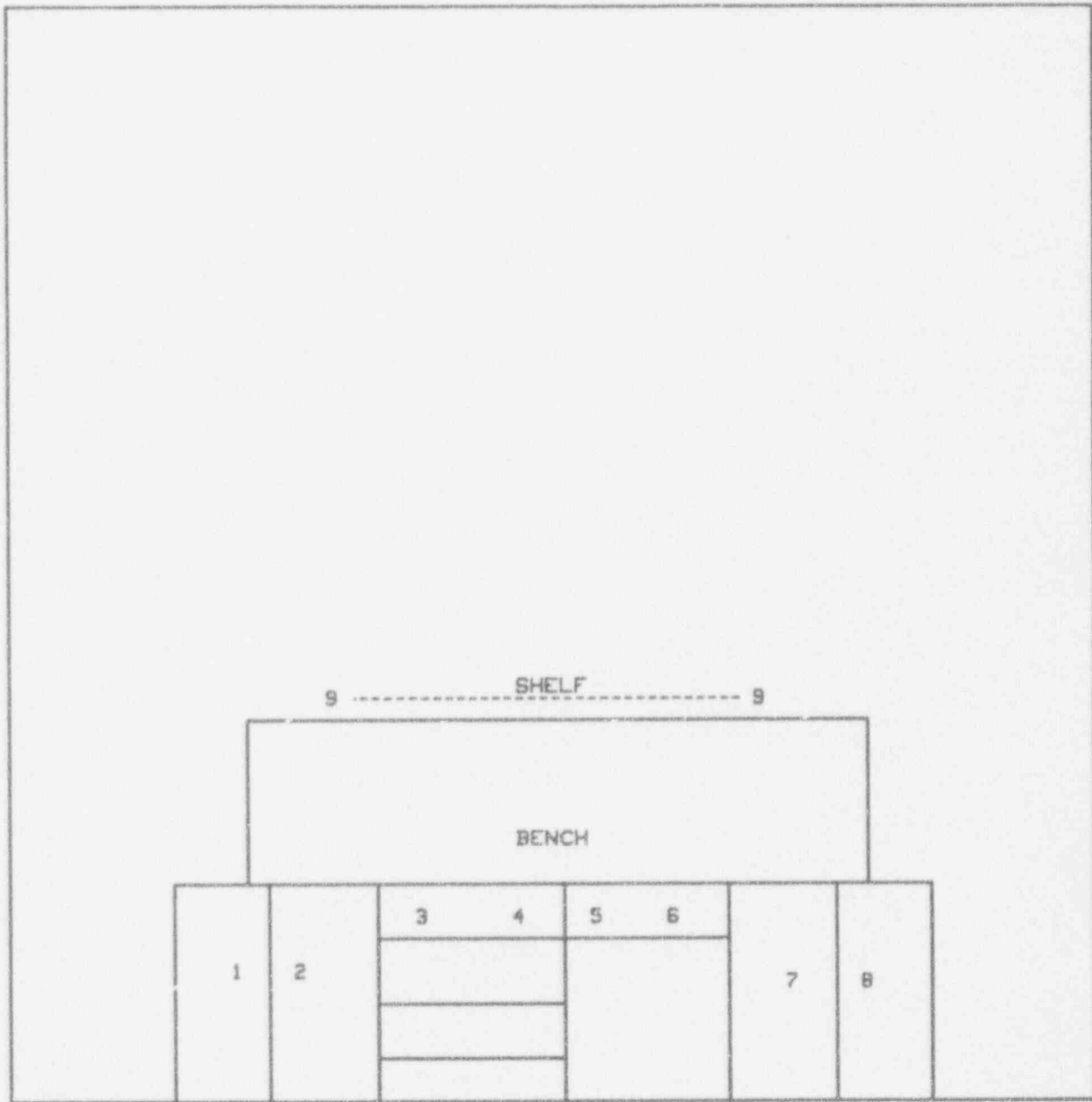
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-208 VIEW-R

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-208 Hood 1

SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25

**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-209 Main View

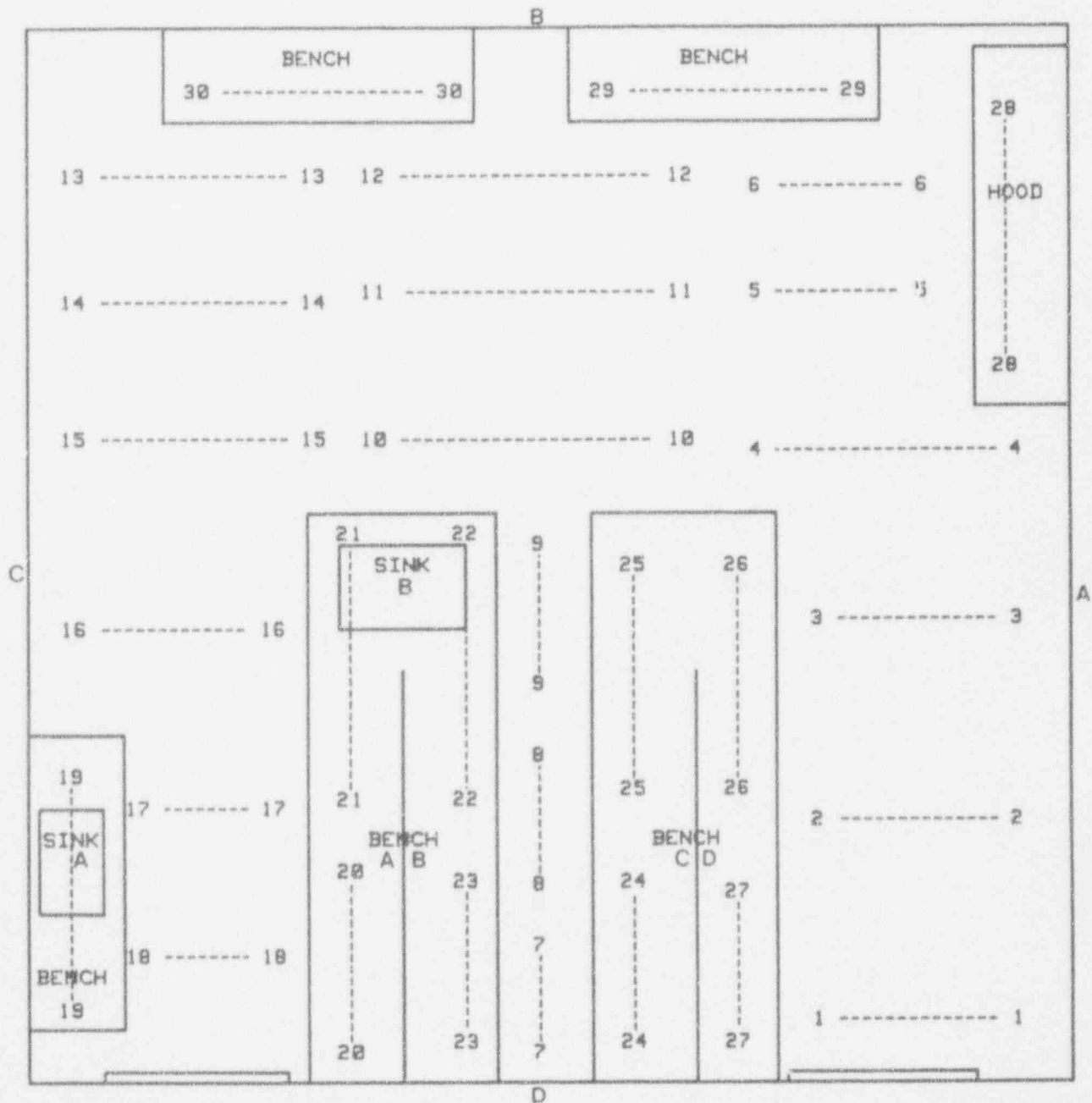
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25
11	<50	<25
12	<50	<25
13	<50	<25
14	<50	<25
15	<50	<25
16	<50	<25
17	<50	<25
18	<50	<25
19	<50	<25
20	<50	<25
21	<50	<25
22	<50	<25
23	<50	<25
24	<50	<25
25	<50	<25
26	<50	<25
27	<50	<25
28	<50	<25
29	<50	<25
30	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-209 MAIN VIEW

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION:

V-209 View C

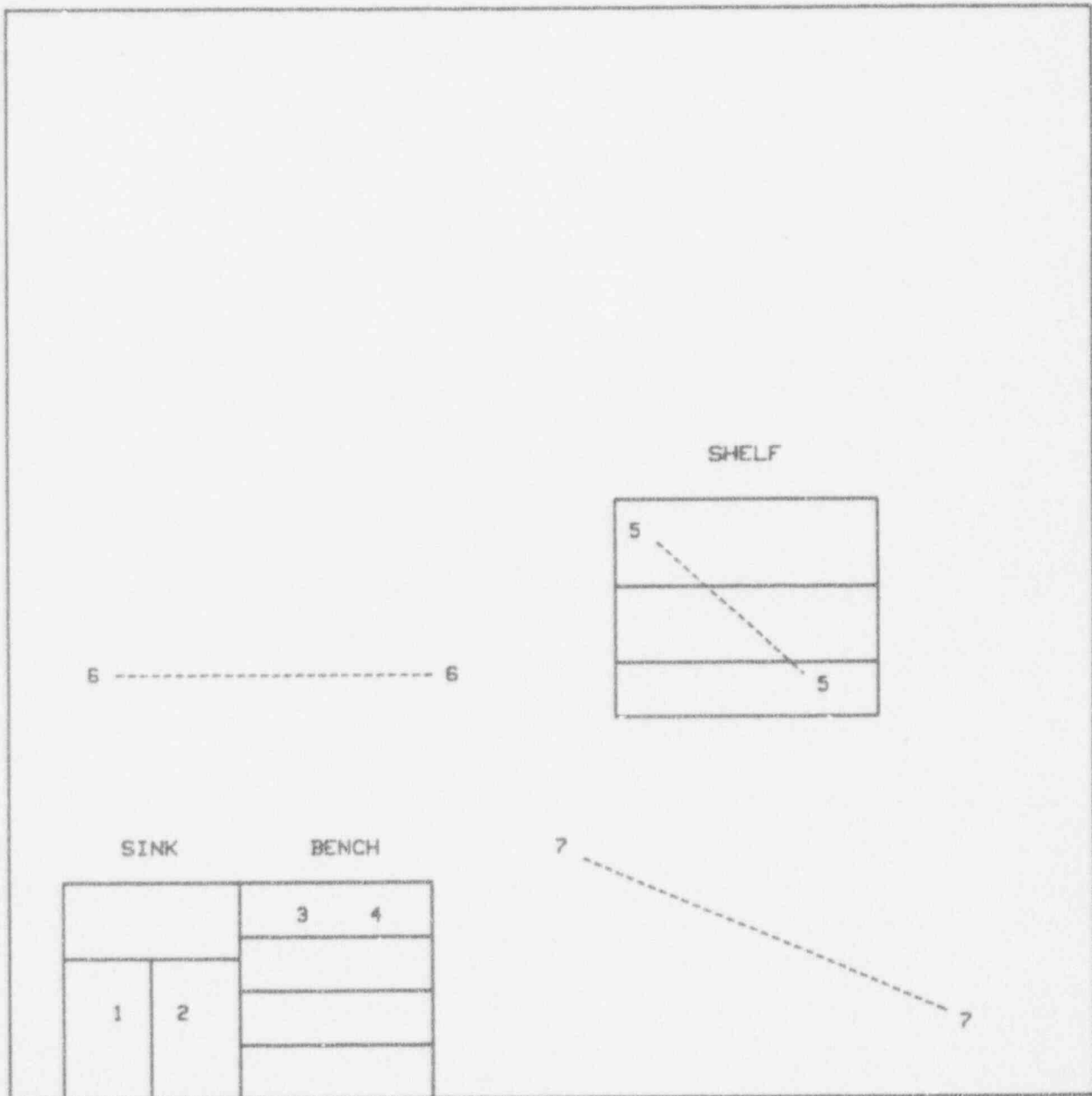
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-289 VIEW-C

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-209 Island A

SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25
11	<50	<25
12	<50	<25

**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-209 Island B

SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	181 ± 18	91
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25
11	<50	<25
12	<50	<25

**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-209 Island C

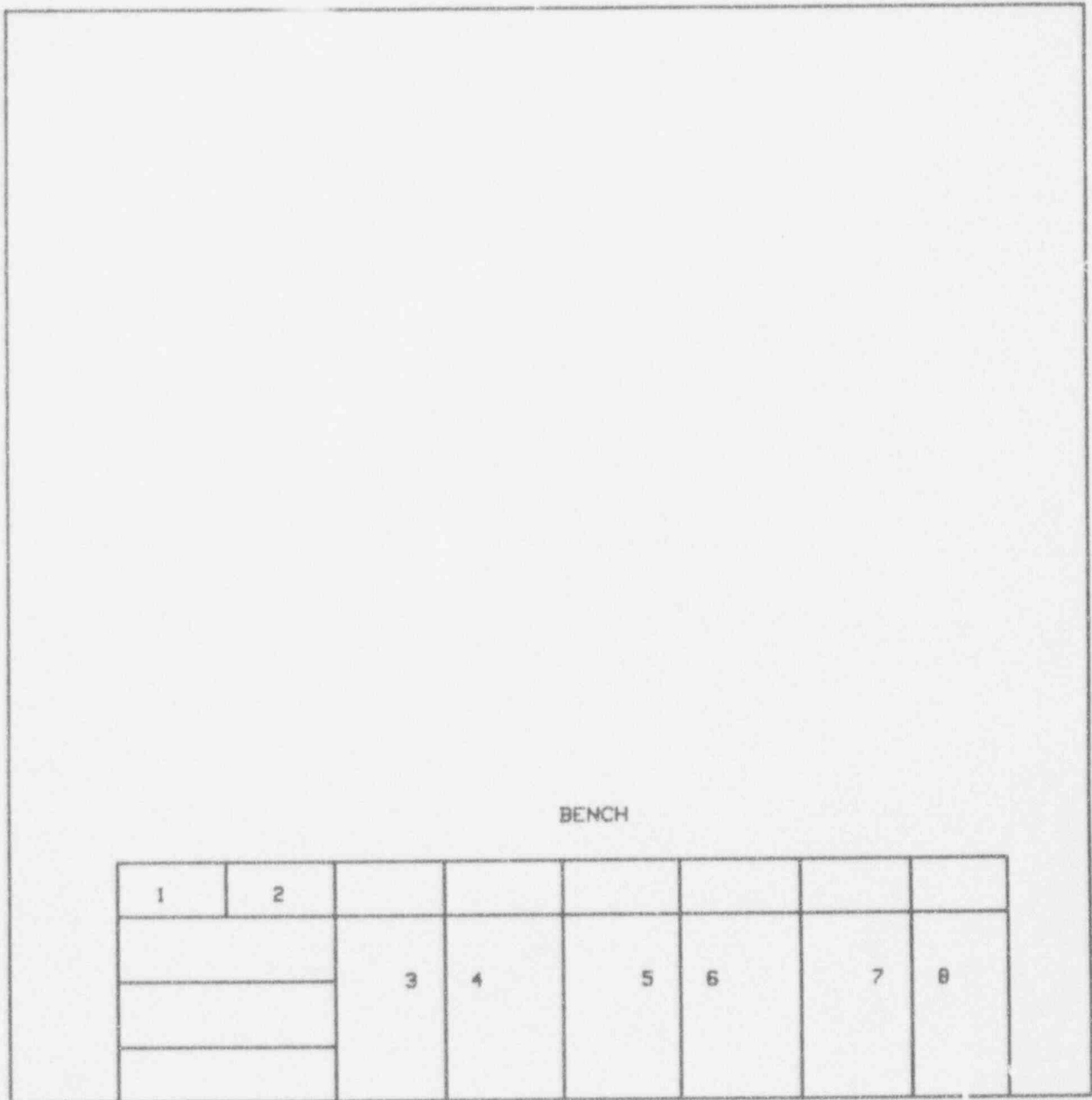
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-289 ISLAND-C

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-209 Island D

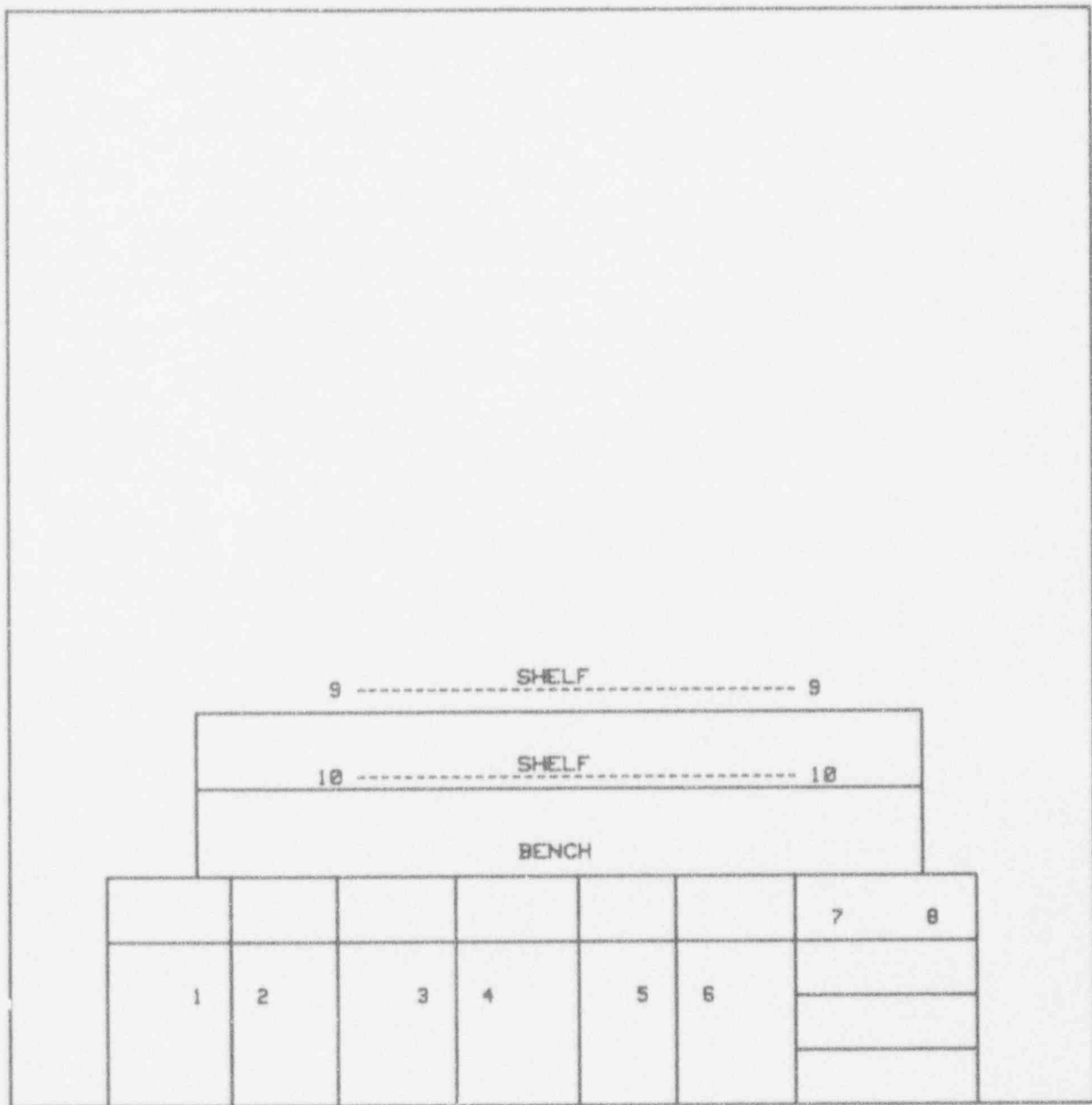
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-289 ISLAND-D

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-209 Hood 1

SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25

**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-235 Main View

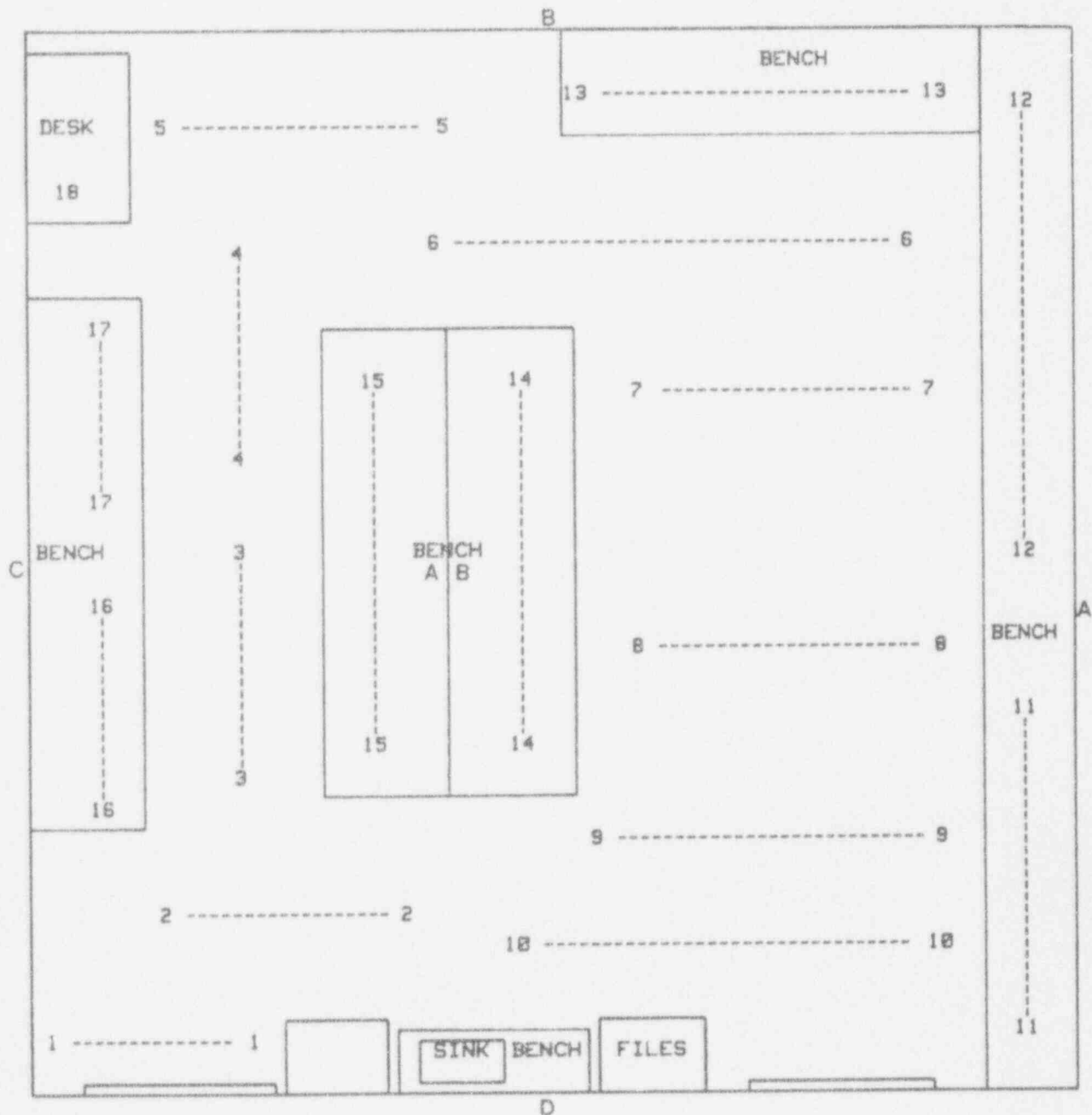
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25
11	<50	<25
12	<50	<25
13	<50	<25
14	<50	<25
15	<50	<25
16	<50	<25
17	<50	<25
18	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-235 MAIN VIEW

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-235 View A (Pre-decon)

SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	1104 ±110	552
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25
11	<50	<25
12	<50	<25
13	<50	<25
14	<50	<25
15	<50	<25

**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-235 View A (Post-decon)

SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25
11	<50	<25
12	<50	<25
13	<50	<25
14	<50	<25
15	<50	<25

**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-235 View B

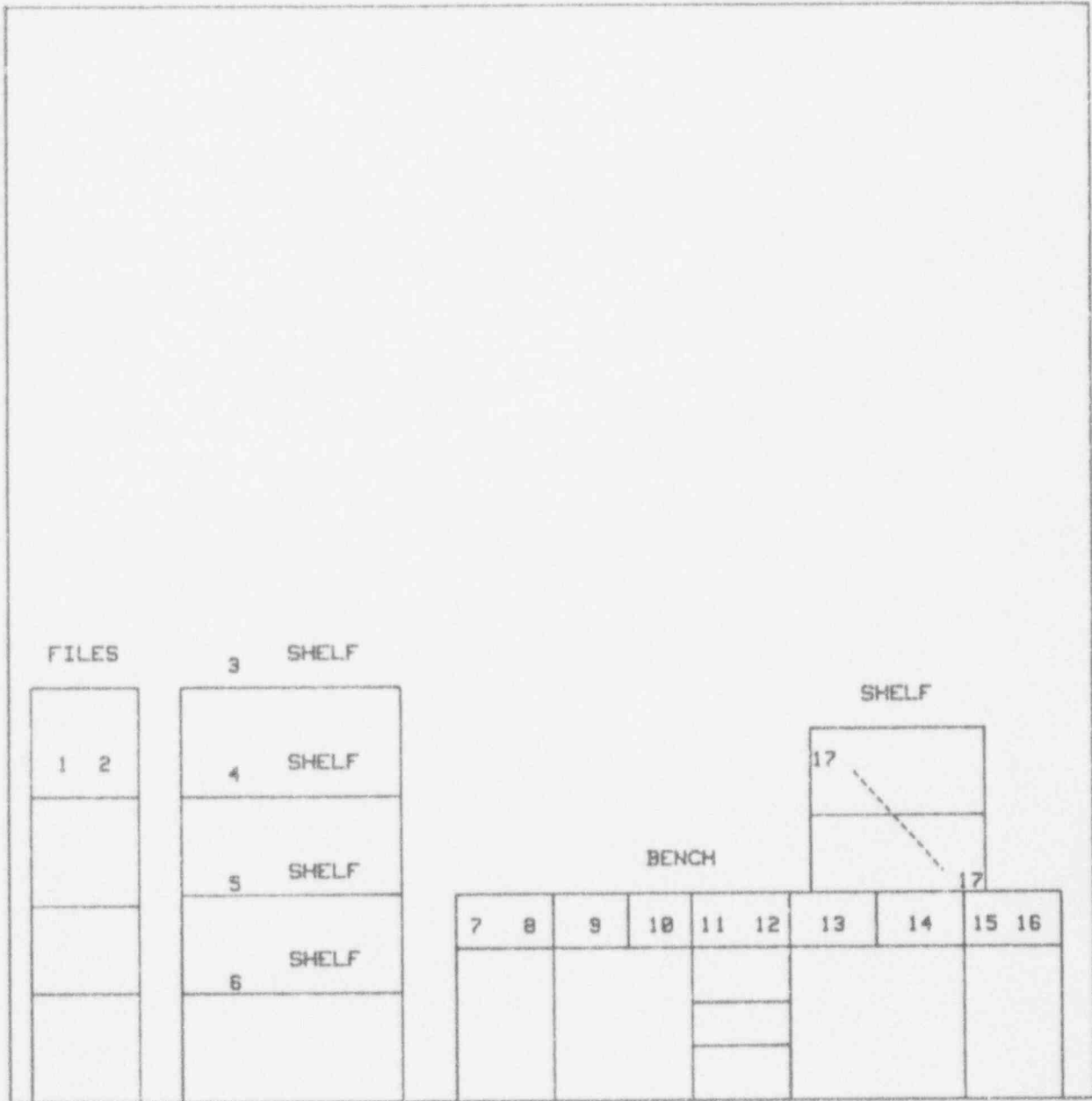
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25
11	<50	<25
12	<50	<25
13	<50	<25
14	<50	<25
15	<50	<25
16	<50	<25
17	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-235 VIEW-B

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-235 View C

SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25
11	<50	<25
12	<50	<25
13	<50	<25
14	<50	<25

**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-235 View D

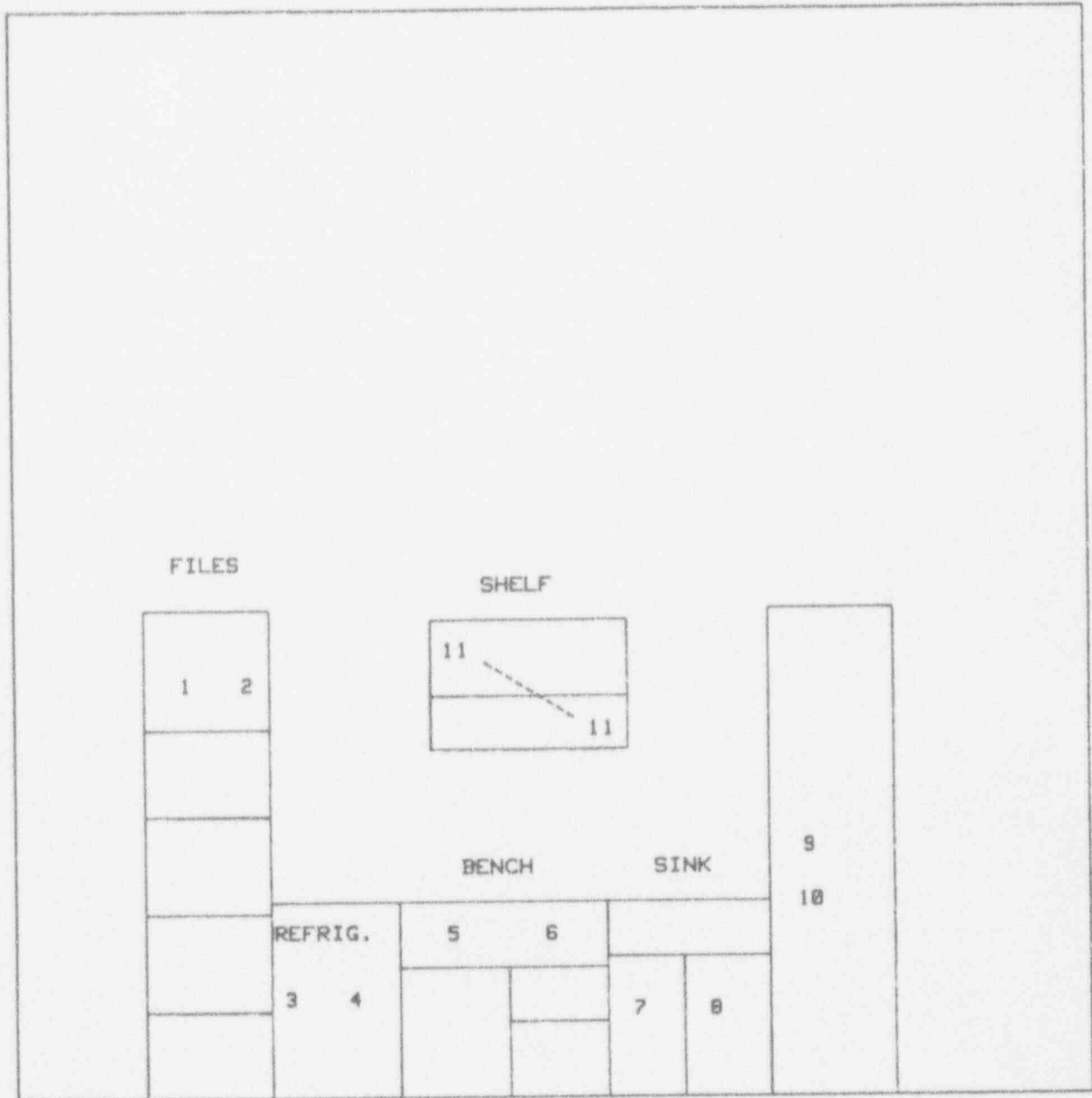
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25
11	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-235 VIEW-D

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-235 Island A

SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25

**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-235 Island B

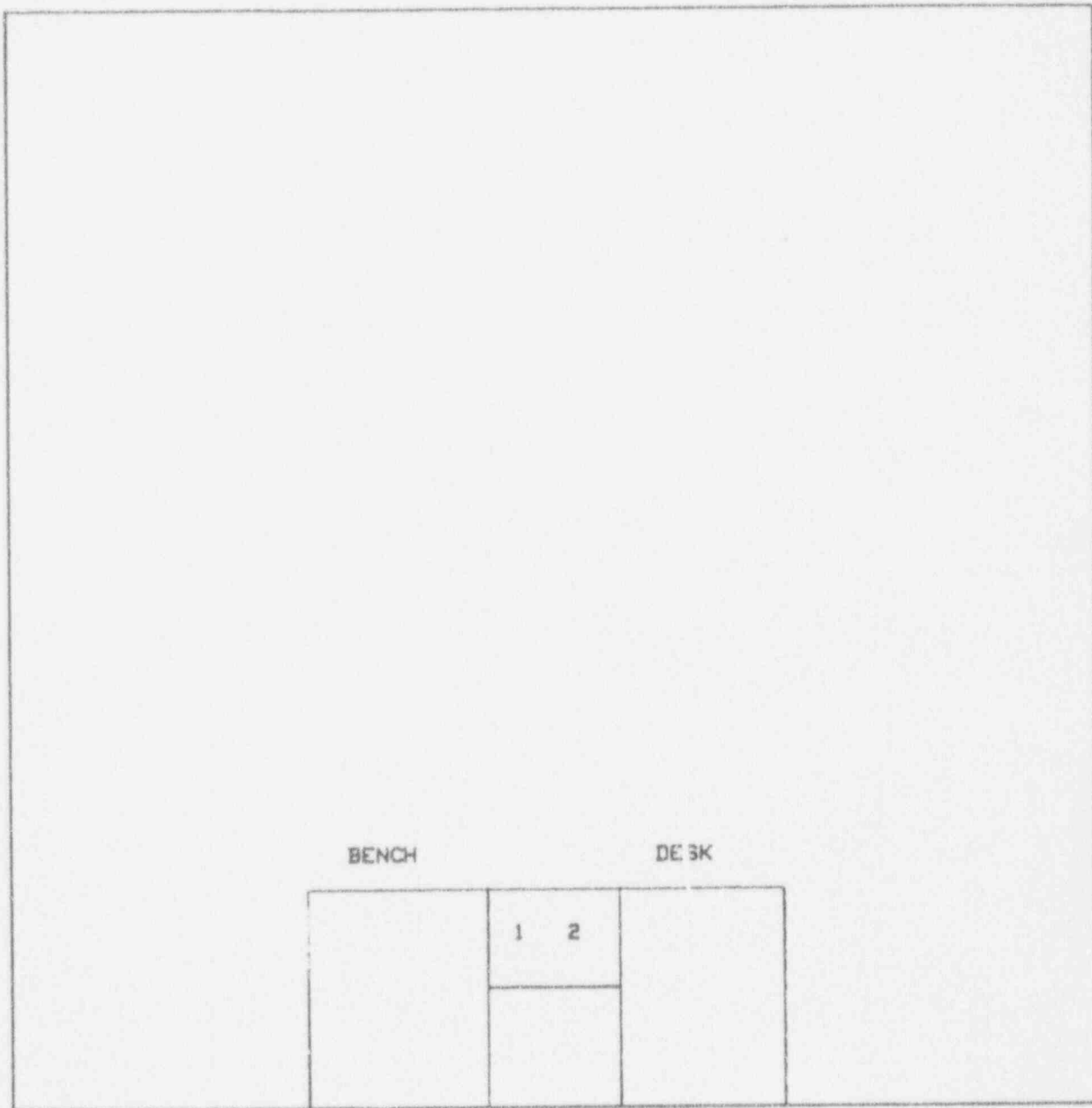
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25

● DIAGRAM OF SURVEYED AREA

LOCATION: V-235 ISLAND-B

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-243 Main View

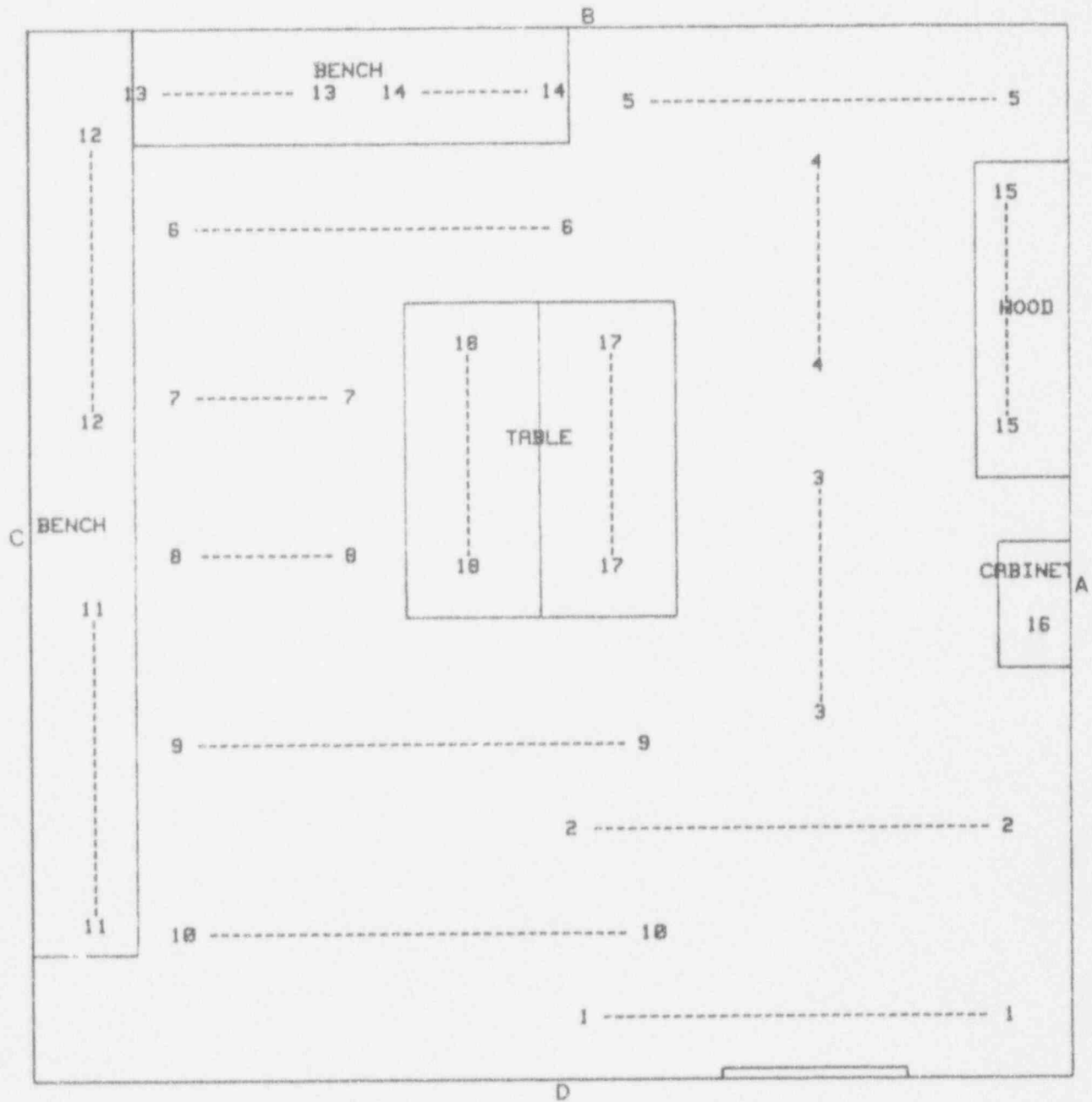
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25
11	<50	<25
12	<50	<25
13	<50	<25
14	<50	<25
15	<50	<25
16	<50	<25
17	<50	<25
18	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-243 MAIN VIEW

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-243 View B

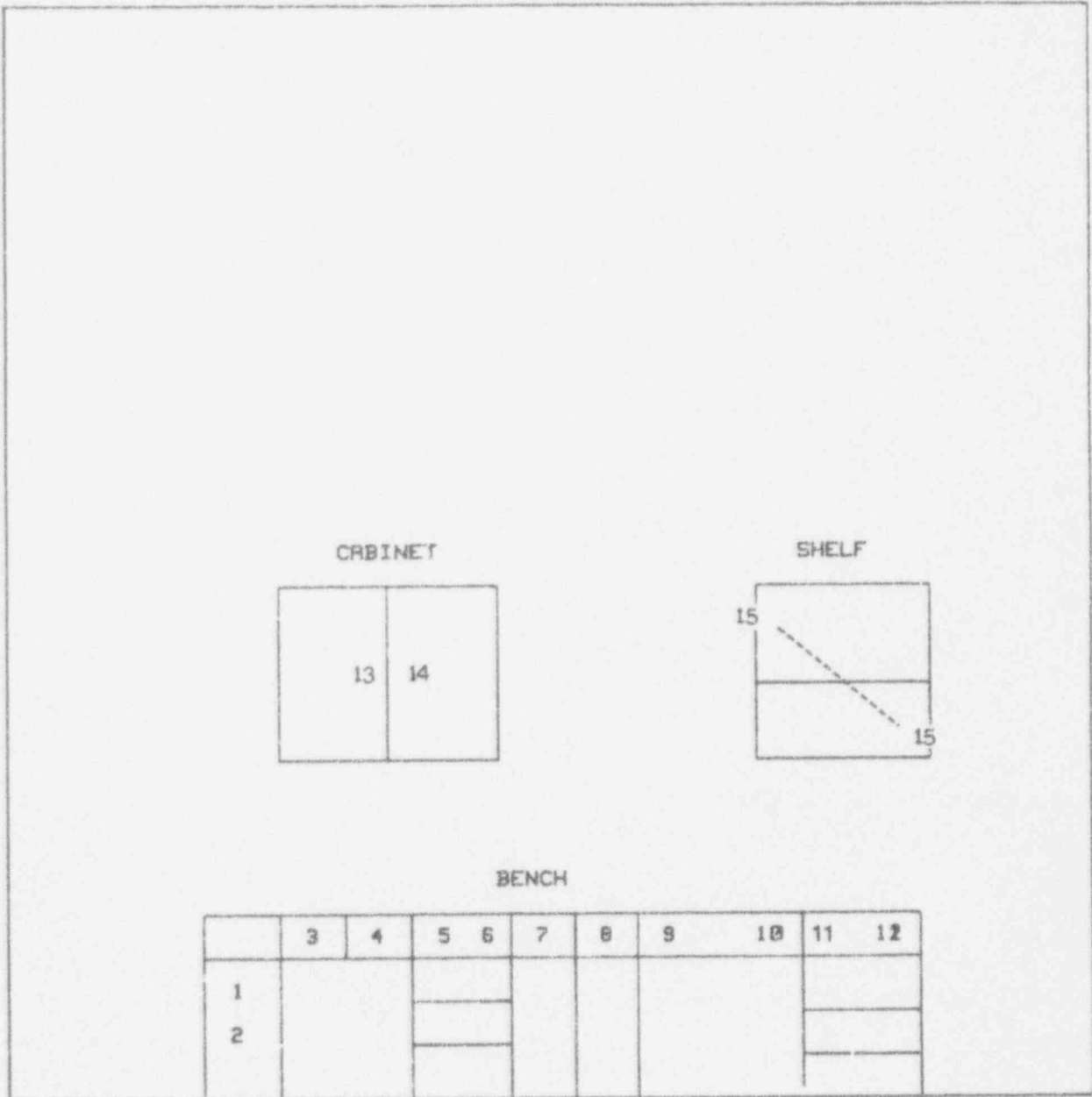
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25
11	<50	<25
12	<50	<25
13	<50	<25
14	<50	<25
15	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-243 VIEW-B

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-243 View C

SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25
11	<50	<25
12	<50	<25
13	<50	<25
14	<50	<25

**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-243 View D

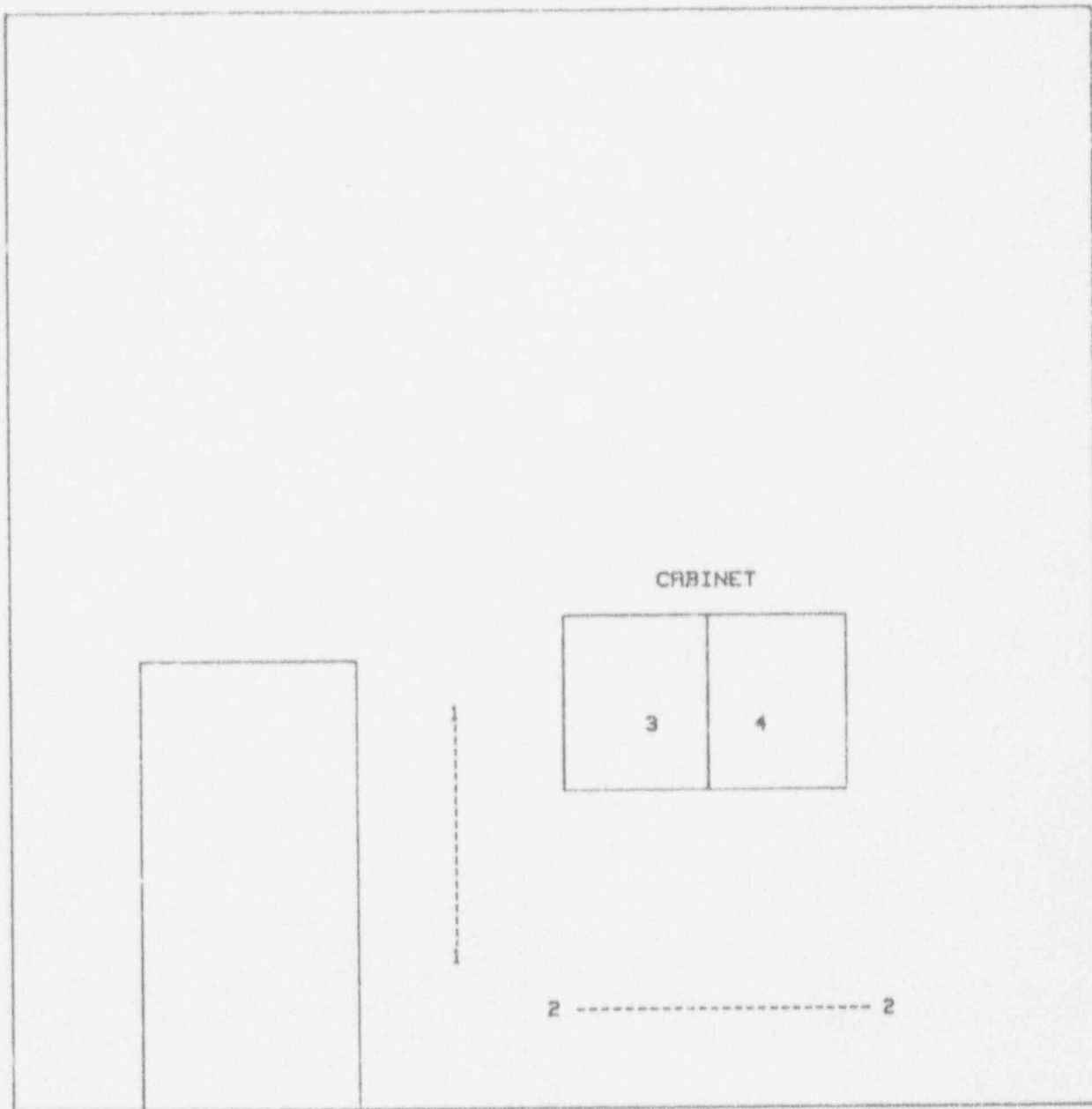
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25

● DIAGRAM OF SURVEYED AREA

LOCATION: V-243 VIEW-D

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-243 Hood 1

SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25

**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-244 Main View

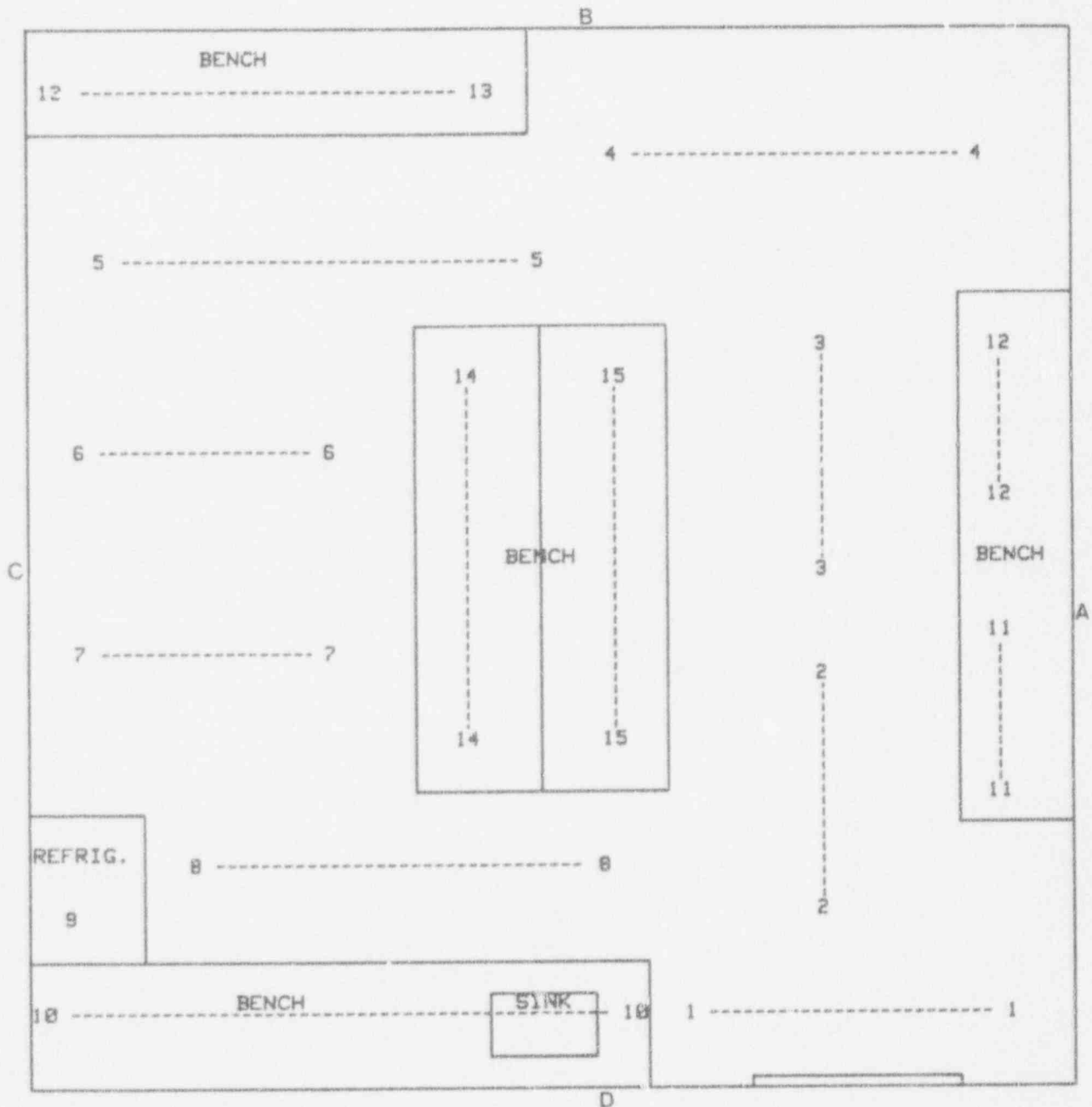
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25
11	<50	<25
12	<50	<25
13	<50	<25
14	<50	<25
15	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-244 MAIN VIEW

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-244 View A

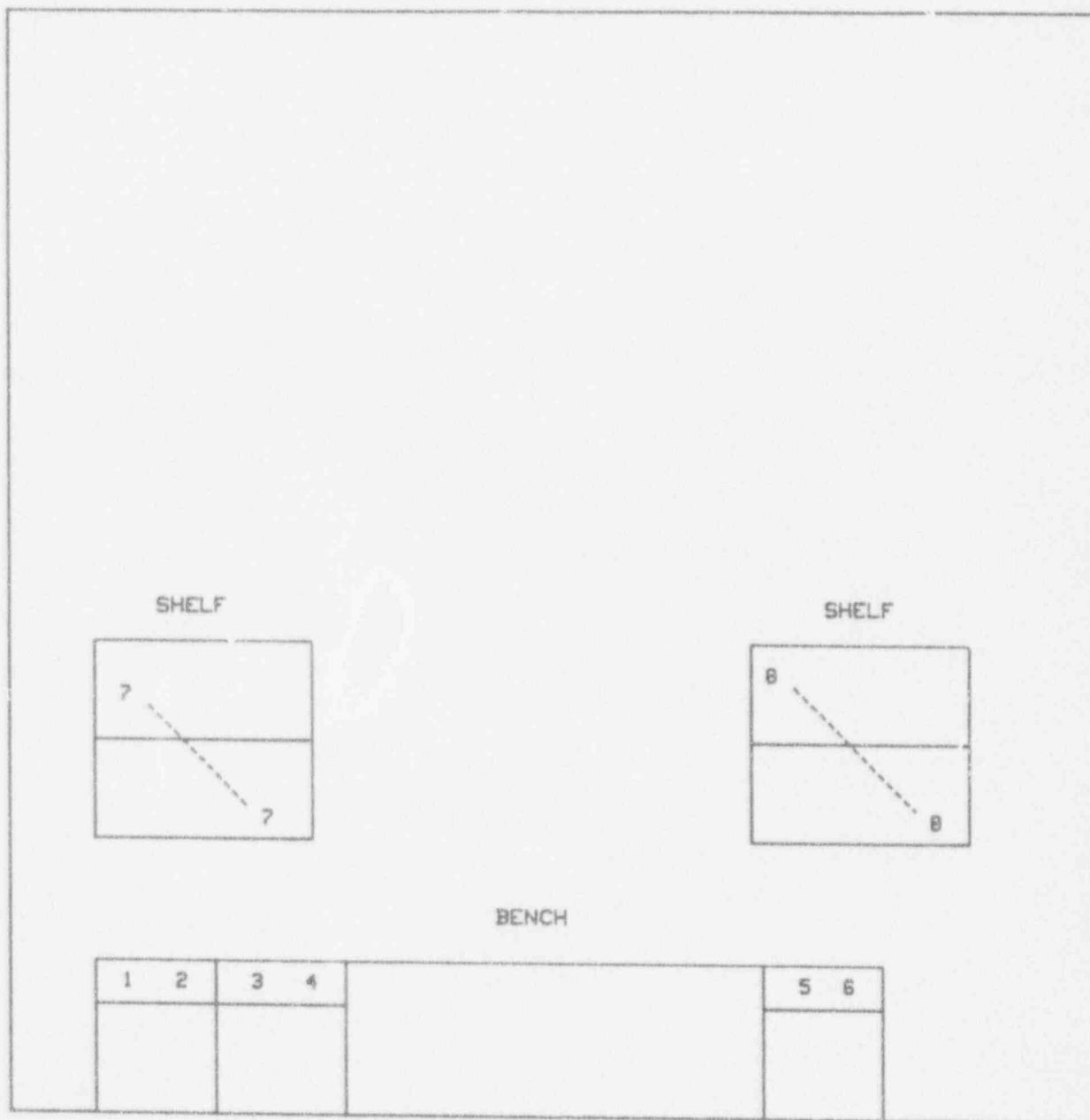
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-244 VIEW-R

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-244 View B

SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25
11	<50	<25

**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-244 View C

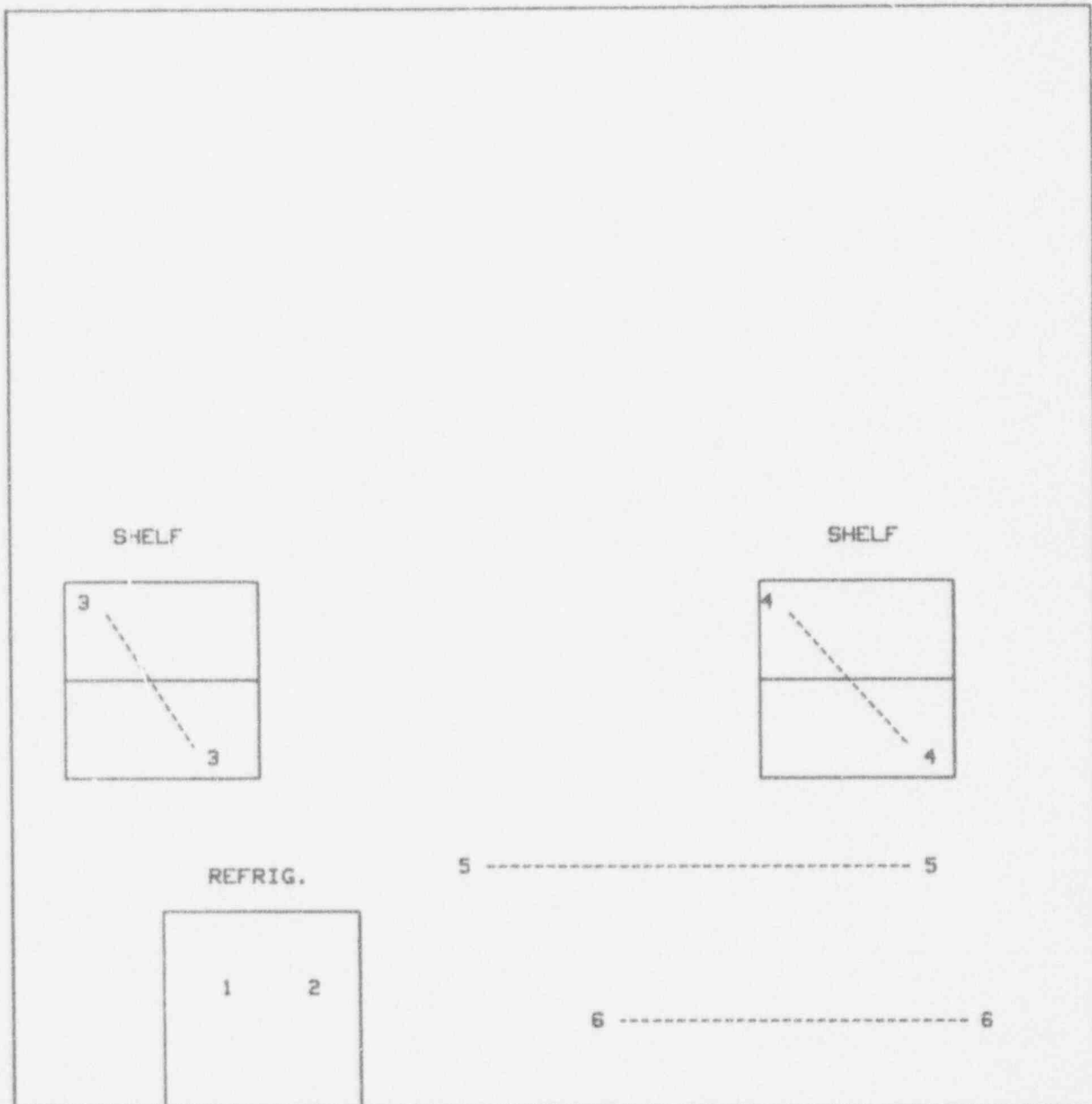
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-244 VIEW-C

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-244 View D

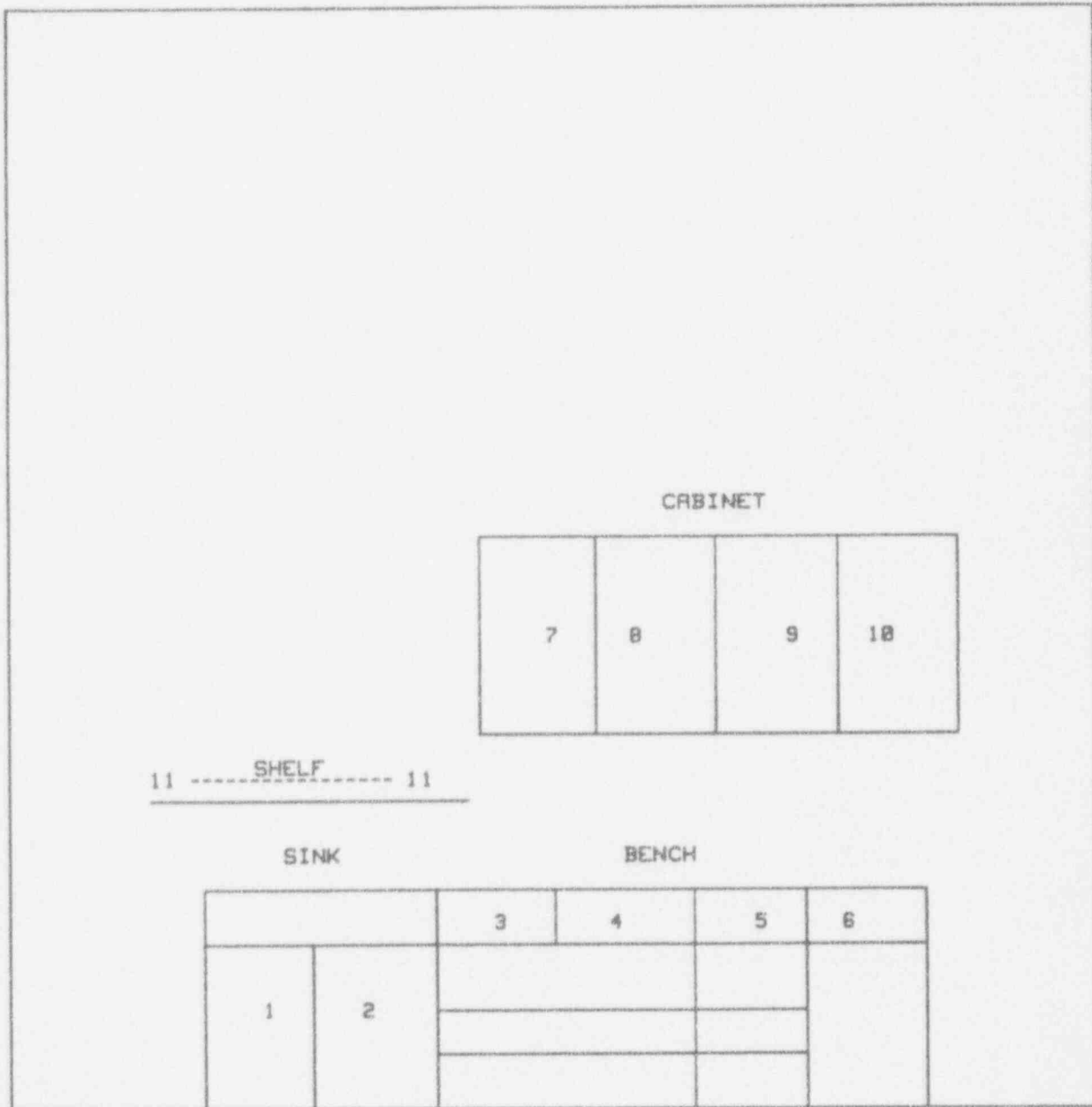
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25
3	<50	<25
4	<50	<25
5	<50	<25
6	<50	<25
7	<50	<25
8	<50	<25
9	<50	<25
10	<50	<25
11	<50	<25

DIAGRAM OF SURVEYED AREA

LOCATION: V-244 VIEW-D

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-244 Island A

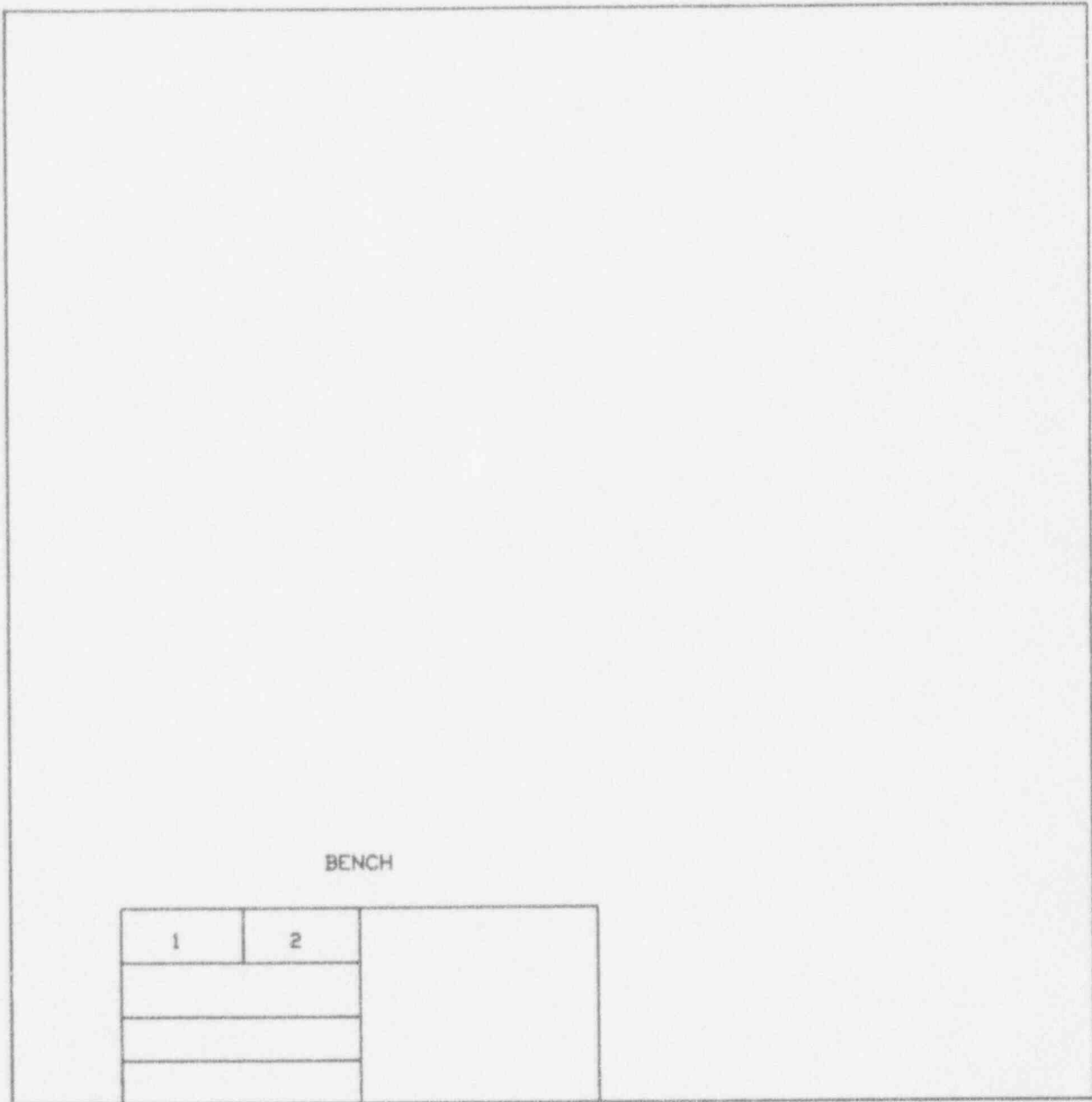
SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25

● DIAGRAM OF SURVEYED AREA

LOCATION: V-244 ISLAND-R

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____



**SMEAR RESULTS
BY LIQUID SCINTILLATION
COUNTING**

LOCATION: V-244 Island B

SMEAR No.	Low Energy Beta Activity dpm/sample	Low Energy Beta Activity dpm/100cm ²
1	<50	<25
2	<50	<25

● DIAGRAM OF SURVEYED AREA

LOCATION: V-244 ISLAND-B

PRINCIPLE OCCUPANTS: _____

ISOTOPE USAGE: _____

