

Tritium Laboratory
October 19, 1998

SWAB REPORT #235

SWAB DATE: 9-10 October 1998

R/V Laurence M. Gould
Antarctic Support Associates

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Distribution:
SWAB COMMITTEE
Robert Kluckholn, ASA

REPORT FOR SWAB # 235

LOCATION : Punta Arenas, Chile
 TECHNICIAN: Jim Happell
 VESSEL/LAB: R/V Laurence M. Gould

DATE : 9 October 1998
 STATUS: All areas tested
 free of radioisotope
 spills.

SAMPLE #	SAMPLE IDENTIFICATION	NET ACTIVITY EXTRACTED	
		³ H dpm/m ²	¹⁴ C dpm/m ²
1	Machine blank	-	-
2	Initial Bucket blank (C.O. #1)	0	0
<u>Hydro Lab (See Figure 1)</u>			
3	Deck in front of fume hood	0	0
4	Deck in front of nanopure H ₂ O system	0	0
5	Deck in front of sink at end of port workbench	0	0
6	Inside refrigerator, bottom	14	1
7	Deck in front of refrigerator	0	4
8	Deck in front of fwd sink	0	0
9	Bench next to port workbench sink	0	0
10	Bench next to fwd sink	0	3
11	Inside fume hood	0	2
<u>Wet Lab (See Figure 1)</u>			
12	Inside fume hood	0	0
13	Inside ultralow freezer	0	1
14	Inside refrigerator next to freezer, bottom	0	25
15	Inside refrigerator next to stbd aft entrance	14	0
16	Bench next to aft sink	0	0
17	Deck in front of fume hood and fwd sink	0	0
18	Deck in front of seawater sink	0	0
19	Deck in front of aft sink	0	0
20	Bucket blank (C.O. #1)	0	0
<u>Dry Lab (See Figure 1)</u>			
21	Inside aft refrigerator, bottom	953	15
22	Deck in front of freezers fwd of Change Room	0	0
23	Deck in front of fume hood	24	10
24	Deck in front of door to CTD Room	0	1
25	Deck in front of door to Staging Area	0	6
<u>Passageway (See Figure 1)</u>			
26	Deck outside port entrance to Dry Lab	0	0
27	Deck outside aft, stbd entrance to Wet Lab	0	0
28	Deck outside entrance to CTD Room	0	0
29	Deck outside entrance to Laundry Room	0	30
30	Deck outside entrance to Head	2	0
31	Deck at entrance to Galley (no figure)	0	0
<u>Maindeck (See Figure 1)</u>			
32	Deck at base of stair to 01 Deck where incubators were located	0	0

SAMPLE #	SAMPLE IDENTIFICATION	NET ACTIVITY EXTRACTED	
		³ H dpm/m ²	¹⁴ C dpm/m ²
33	Deck at stbd entrance to Staging Area	0	0
34	Deck at port entrance to Staging area	0	0
35	01 Deck at top of stairs down to Maindeck	43	0
36	Deck next to winch	0	10
37	Final bucket blank (C.O. #1)	0	0
38	Initial bucket blank (C.O.#2)	0	0
<u>Radioisotope Van #04841 (See Figure 2)</u>			
39	Inside fume hood	1,106	0
40	Bench next to fume hood	1,188	5
41	Bench left of sink	366	0
42	Bench right of sink	554	3
43	Bench where LSC sat	272	0
44	Deck in front of sink	1,052	0
45	Deck inside of entrance to van	63	0
<u>Radioisotope Van #05400 (See Figure 2)</u>			
46	Inside fume hood	1,643	0
47	Bench next to fume hood	968	24
48	Bench left of sink	47	0
49	Bench right of sink	411	59
50	Bench where LSC sat	627	0
51	Deck in front of sink	424	4
52	Deck inside of entrance to van	9	6
53	Bucket blank (C.O. #2)	0	0
<u>Freezers in Storage (No figure)</u>			
54	Bucket blank (next day, October 10)	0	0
55	Inside freezer #05394, bottom	0	23
56	Inside refrigerator #05394, bottom	0	15
57	Inside freezer #05395, bottom	3,960*	0
58	Inside refrigerator #05395, bottom	127	0
59	Final bucket blank		

COMMENTS

The ship, *R/V Laurence M. Gould*, is free from any radioisotope spills. The radioisotope vans have no radiocarbon present, and only very minor tritium contamination. No action is required.

The freezer compartment of refrigerator, NSF ID#05395 has tritium contamination. It needs to be cleaned with decon agent before this it is used for anything other than radioisotope storage.