

Tritium Laboratory
13 October 2009

SWAB REPORT #532

SWAB DATE: 6 October 2009

*R/V Atlantis
and Radioisotope Van*

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Distribution:
SWAB Committee
David Fisichella

REPORT FOR SWAB # 532

LOCATION: San Diego, CA
 TECHNICIAN: Cecilia Roig
 VESSEL/LAB: R/V Atlantis

DATE: 6 October 2009
 STATUS: See Comments

SAMPLE #	SAMPLE IDENTIFICATION	NET ACTIVITY EXTRACTED	
		3H dpm/m2	14C dpm/m2
1	Machine Blank	-	-
2	Initial bucket blank C.O. #1	27	0
<u>Hydro Lab (See Figure 1)</u>			
3	Inside freezer top	86	0
4	Inside freezer bottom	0	0
5	Inside fume hood	0	0
6	Stbd. bench top	77	0
7	Deck at stbd. door	35	0
8	Deck at aft entrance	24	0
9	Bench top aft of port sink	0	0
<u>Wet Lab (See Figure 1)</u>			
10	Inside fume hood	0	0
11	Fwd. sink area	0	0
12	Deck center of lab	26	0
13	Deck inside aft double doors	3	0
14	Stbd. bench top	51	0
<u>Main Lab (See Figure 2)</u>			
15	Inside middle Revco	78	0
16	Inside aft Revco	37	0
17	Deck inside port aft entrance	31	0
18	Deck inside fwd. entrance	5	0
19	Deck in front of port sink	0	0
20	Deck in front of ice machine	18	0
21	Port sink area	7	0
22	Inside fume hood	0	0
23	Deck in front of fume hood	8	0
24	Intermediate bucket blank	0	0
<u>Bio/Analytical Lab (See Figure 3)</u>			
25	Inside freezer top (water)	49	0
26	Inside freezer bottom	51	0
27	Deck inside stbd. entrance	0	0
28	Deck in front of freezer	16	0
29	Inside fume hood	0	0
30	Fwd. bench top	3	0
31	Aft bench top & sink area	0	0
32	Deck in front of fume hood	37	0
33	Deck inside aft entrance	0	0
<u>Miscellaneous Areas (See Figure 3)</u>			
34	Deck inside fwd. walk-in-freezer	39	0
35	Fwd. bench top of aft walk-in	12	0
36	Aft bench top of aft walk-in	47	0

SAMPLE #	SAMPLE IDENTIFICATION	NET ACTIVITY EXTRACTED	
		3H dpm/m2	14C dpm/m2
37	Deck inside aft walk-in-freezer	36	0
38	Deck outside walk-in-freezer	0	0
<u>Electronics/Computer Lab (See Figure 3)</u>			
39	Deck at stbd. entrance	13	0
40	Deck at fwd. entrance	49	0
41	Final bucket blank C.O. #1	0	0
<u>Radioisotope Van (See Figure 4)</u>			
42	Initial bucket blank C.O. #2	0	0
43	Sink area	292	13
44	Bench top above fridge	0	1
45	Inside hood	0	0
46	Bench top across hood	147	46
47	Bench top above port freezer	66	78*
48	Bench top across sink	103	11
49	Inside freezer	1,547*	205*
50	Inside port fridge	127	2
51	Deck under hatch	73	24
52	Deck center of van	159	51*
53	Deck at entrance	63	27
54	Final bucket blank C.O. #2	0	0

Comments

All areas tested on the ship were clean of isotope spills. Only minor tritium and C14 contamination was found in Radioisotope Van, no action is needed.