**SWAB REPORT # 547** 

SWAB DATE: 11 June 2010

*R/V* Atlantis and Radioisotope Van

Dr. James D. Happell Associate Research Professor

Distribution: David Fisichella

## REPORT FOR SWAB # 547

LOCATION: San Francisco, CA

TECHNICIAN: Cecilia Roig

DATE: 11 June 2010

STATUS: See Comments

VESSEL/LAB: R/V Atlantis

SAMPLE	SAMPLE IDENTIFICATION	NET ACTIVITY EXTRACTED	
#		$^{3}$ H dpm/m $^{2}$	$^{14}$ C dpm/m $^{2}$
		-	•
1	Machine blank	0	0
2	Initial bucket blank C.O. #1	0	0
	Main Lab (See Figure 1)		
3	Revco freezer fwd. frost	0	1
4	Revco freezer mid. frost	0	2
5	Revco freezer aft frost	0	4
6	Inside stbd. freezer top	0	0
7	Inside stbd. fridge bottom	0	9
8	Port sink area	11	16
9	Deck inside fwd. port entrance	14	18
10	Deck in front of port sink	73	9
11	Deck inside aft port entrance	0	10
12	Deck in front of stbd. sink	37	36
13	Inside fume hood	0	7
14	Deck in front of hood	0	34
	Bio/Analytical Lab (See Figure 1)		
15	Inside top freezer	0	14
16	Inside bottom freezer	0	15
17	Fwd. benchtop & sink area	0	12
18	Deck in front of freezer	0	30
19	Deck inside stbd. entrance	0	35
20	Inside fume hood	0	17
21	Deck in front of fume hood	17	19
22	Aft benchtop and sink area	16	33
23	Deck inside aft entrance	0	22
	Miscellaneous Areas (See Figure 2)		
24	Deck inside fwd. walk-in freezer	0	15
25	Fwd. benchtop of aft walk-in	0	29
26	Aft benchtop of aft walk-in	0	27
20	The continuop of the want in	O .	21

SAMPLE	SAMPLE IDENTIFICATION	NET ACTIVITY EXTRACTED	
#		$^{3}$ H dpm/m $^{2}$	$^{14}$ C dpm/m $^{2}$
27	Deck at entrance of aft walk-in	2	29
28	Deck outside freezers	0	33
	Electronic/Computer Lab (See Figure 2)		
29	Deck at stbd. entrance	0	44
30	Deck at fwd. entrance	0	44
	Hydro Lab (See Figure 3)		
31	Inside freezer top	0	16
32	Inside freezer bottom	0	22
33	Inside fume hood	0	27
34	Deck in front of stbd. sink	12	16
35	Deck at stbd. door	5	27
36	Deck in front of port sink	10	20
37	Final bucket blank C.O. #1	0	28
38	Initial bucket blank C.O. #2	0	22
39	Inside fume hood	26	7
40	Deck inside stbd. door	29	15
41	Deck inside port door	0	24
	Dadiciastone Van (Cap Figure 4)		
42	Radioisotope Van (See Figure 4) Inside fume hood	0	1025 *
42		0	1035 * 3209 *
43 44	Benchtop above refrigerator Sink area	0	1318 *
		0	1518 *
45	Benchtop across fume hood	0	
46 47	Benchtop above freezer	0	792 *
47	Inside refrigerator	131	354 *
48	Inside freezer	5	78 *
49 50	Deck left of hood	0	792 *
50	Deck center of van	14	1227 *
51 52	Deck at entrance	0	1420 *
52	Final bucket blank C.O. #2	0	21

## **Comments**

All areas tested on the ship were free of isotope contamination. The radioisotope van was free of tritium spills but minor 14C contamination was found in areas tested in van. Van deck should be cleaned to prevent tracking into the ship.

## **Comments**

All areas tested on the ship were free of isotope contamination. The University of Delaware isotope van had minor <sup>14</sup>C and <sup>3</sup>H contamination, but does not require any action at this time. UNOLS van serial #s 625.5.02 and 625.3.08 both had minor <sup>14</sup>C contamination and will require cleaning before any natural tracer work.