SWAB REPORT # 549

SWAB DATE: 1 July 2010

R/V Atlantis and Radioisotope Van

Dr. James D. Happell Associate Research Professor

Distribution: SWAB Committee David Fisichella

REPORT FOR SWAB # 549

LOCATION: Astoria, OR DATE: 1 July 2010

TECHNICIAN: Cecilia Roig STATUS: See Comments

VESSEL/LAB: R/V Atlantis

SAMPLE	SAMPLE IDENTIFICATION	NET ACTIVIT	Y 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	16
4	Revco freezer mid. frost	0	13
5	Revco freezer aft. frost	13	0
6	Inside stbd. freezer top	0	23
7	Inside stdb. fridge botton	78	0
8	Port sink area	92	34
9	Deck inside fwd. port entrance	0	22
10	Deck in front of port sink	0	35
11	Deck inside aft. port entrance	0	8
12	Deck in front of stbd. sink	0	182 *
13	Inside fume hood	0	16
14	Deck in front of hood	16	8
	Bio/Analytical Lab (See Figure 1)		
15	Inside top freezer	16	0
16	Inside botton freezer	0	27
17	Fwd. benchtop smk area	0	28
18	Deck in front of freezer	12	7
19	Deck inside stbd entrance	0	27
20	Inside fume hood	0	5
21	Deck in front of fume hood	0	8
22	Aft. benchtop and sink area	0	21
23	Deck inside aft. entrance	0	21
	Miscellaneous Areas (See Figure 2)		
24	Deck inside fwd. walk-in freezer	0	55 *
25	Fwd. benchtop of aft. walk-in	0	4

SAMPLE	SAMPLE IDENTIFICATION	NET ACTIVIT	Y EXTRACTED
#		3 H dpm/m 2	¹⁴ C dpm/m ²
26	Aft. benchtop of aft. walk-in	0	31
27	Deck at entrance of aft. walk-in	0	22
28	Deck outside freezers	0	14
20	Deck outside freezers	O	14
	Electronic/Computer Lab (See Figure 2)		
29	Final bucket blank C.O. #1	0	0
30	Initial bucket blank C.O. #2	0	0
31	Deck at stbd. entrance	0	0
32	Deck at fwd. entrance	0	0
	Hydro Lab (See Figure 3)		
33	Inside freezer top	0	0
34	Inside freezer bottom	0	6
35	Inside fume hood	0	0
36	Deck in front of stbd. sink	0	22
37	Deck at stbd. door	6	0
38	Deck in front of port sink	0	15
50	Beek in front of port sink	Ŭ	10
	Wet Lab (See Figure 3)		
39	Inside fume hood	0	23
40	Deck inside aft. door	0	0
41	Bench top in sink area	0	0
42	Deck center of lab	0	27
	Padiaisatana Van (Saa Figura 4)		
43	Radioisotope Van (See Figure 4) Bench top above refrigerator	114	728 *
44	Sink area	359	11322 **
45	Benchtop across fume hood	50	1356 *
46	Benchtop above freezer	118	1215 *
47	Inside refrigerator	392	632 *
48	Inside freezer	57	86 *
49	Inside fume hood	0	358 *
50	Deck under escape hatch	315	2263 *
51	Deck center of van	781 *	6824 *
52	Deck at entrance	1531 *	7679 *
53	Final bucket blank C.O. #2	0	0
	3 u 0 0.0 2	ŭ	v

Comments

Minor ¹⁴C contamination found on the ship. Deck in front of starboard sink in Main Lab and deck inside forward walk-in freezer need to be cleaned before any natural tracer work.

¹⁴C contamination detected in all areas tested in the radioisotope van. Van sink area needs to be cleaned and deck areas should be cleaned to prevent tracking contamination into the ship. Minor ³H contamination also found in two areas in the radioisotope van.