

Tritium Laboratory
28 July 2009

COURTESY SWAB REPORT #524

SWAB DATE: 12 April 2009

R/V KILO MOANA
And Radioisotope Van

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Distribution:
SWAB Committee
Timothy McGovern

REPORT FOR COURTESY SWAB # 524

LOCATION: Kaohsiung, Taiwan
 TECHNICIAN: Kuhio Vellalos
 VESSEL/LAB: R/V Kilo Moana

DATE: 12, 13 April 2009
 STATUS: See Comments

SAMPLE #	SAMPLE IDENTIFICATION	NET ACTIVITY EXTRACTED	
		3H dpm/m2	14C dpm/m2
1	Machine Blank	-	-
2	Initial bucket blank	0	0
<u>Radioisotope Van (Figure 1)</u>			
32	Counter next to sink	66,159**	80*
33	Fume hood	1,187*	22
34	Counter next to fume hood	4,935*	0
3	LSC in Rad Van	358	33
35	Deck at fwd. entrance	1,256*	110*
39	Fwd refrigerator	540*	0
38	Aft refrigerator	22,172**	31
31	Port fwd. counter	3,891*	0
36	Deck aft entrance	2,715*	0
<u>Hydro Lab (See Figure 2)</u>			
CO2	Initial bucket blank on 2nd day	0	0
5	Forward bench top	28	0
4	Deck in front of fwd. bench top	536*	0
CO1	Deck in front of door to passageway	473	0
<u>Lab # 1 (See Figure 2)</u>			
11	Lab #1 deck in front of aft door	69	0
13	Lab #1 deck in front of fwd. door	0	0
<u>Wet Lab (See Figure 2)</u>			
17	Inside fume hood	0	0
16	Forward bench top next to sink	2	0
14	Deck in front of aft door	0	0
15	Deck in front of door to Hydro Lab	212	0
<u>Chemistry Lab (See Figure 2)</u>			
8	Forward bench top	278	0
7	Inside fume hood	7	0
6	Deck in front of port door	134	0
<u>Miscellaneous Areas (See Figure 2)</u>			
9	Ice from inside freezer	0	0
10	Ice from inside freezer	0	0
23	IMET bench top port of sink area	0	0
24	IMET deck at entrance to lab	0	0
25	Deck in Library	0	0
27	Deck inside port entrance to Mess Deck	0	0
28	Deck inside stbd. entrance to Mess	0	0

SAMPLE #	SAMPLE IDENTIFICATION	NET ACTIVITY EXTRACTED	
		3H dpm/m2	14C dpm/m2
01	Deck (See Figure 3)		
29	Deck in front of Lounge	0	0
30	Deck in front of entrance to Computer Lab	11	0
22	Final bucket blank	0	0

Comments

Moderate tritium contamination found in radioisotope van. Counter next to sink and aft refrigerator require cleaning. Minor tritium and C14 spills in other areas of van do not require any action. Minor tritium contamination detected in Hydro Lab bench top requires cleaning before any natural tracer work.

Figure 3
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