Tritium Laboratory March 10, 2009

SWAB REPORT #511

SWAB DATE: 24 February 2009

R/V Kilo Moana

Dr. James D. Happell Research Associate Professor

Distribution: Timothy McGovern SWAB Committee

LOCATION : H	Honolulu, Hawaii	DATE : 24 February 2009
TECHNICIAN: 3	Jim Happell	STATUS: Areas tested on board the
VESSEL/LAB: 1	R/V <i>Kilo Moana,</i> Radioisotope van	ship tested free of radioisotope spills. Rad Van contained minor tritium contamination. See COMMENTS below.

SAMPLE SAN #	MPLE IDENTIFICATION	NET ACTIVIT ³ H dpm/m ²	Y EXTRACTED ¹⁴ C dpm/m ²
1 Machir	ne blank	-	-
2 Initia	l bucket blank	8	1
Hydrolab	(see Figure 1)		
3 Deck i	n front of door to passageway	55	0
4 Deck i	n front of benchtop	22	0
5 Fwd be	nchtop	0	22
Chemistry	Lab (see Figure 1)		
6 Deck i	n front of port door	28	0
7 Stbd b	enchtop	0	0
8 Inside	fume hood	0	0
9 Sci St	orage Rm - port freezer	0	0
10 Sci St	orage Rm – stbd freezer	0	0
Lab #1 (Se	ee Figure 1)		
11 Deck i	n front of aft door	0	0
12 Stbd b	enchtop	0	0
13 Deck i	n front of fwd door	16	0
Wet Lab (s	see Figure 1)		
14 Deck i	n front of aft door	54	0
15 Deck i	n front of door to hydro lab	34	0
16 Fwd be	nchtop next to sink	0	0
17 Inside	fume hood	17	0
Lab #2 (Se	e Figure 1)		
18 Deck i	n front of stbd entrance	49	0
19 Deck i	n front of aft entrance to Staging Area	0	3
20 Bencht	op adjacent to stbd aft sink	76	0
21 Deck i	n center of lab	0	0
22 Bencht	op adjacent to fwd sink	0	0
Miscellane	eous Areas (See Figure 1)		
23 Bencht	op stbd of sink area in IMET Lab	0	7
24 Deck a	t entrance to IMET Lab	0	0
25 Deck i	n center of Classroom/Library	0	0
26 Center	benchtop in IMET Lab	0	0
27 Deck i	nside port entrance to Mess	30	0
28 Deck i	nside stbd entrance to Mess	4	0
01 Deck (S	See Figure 2)		
29 Passag	eway outside entrance to Lounge	41	0
30 Deck i	n front of entrance to Computer Lab	0	0

SAMPLE SAMPLE IDENTIFICATION		NET ACTIVITY EXTRACTED		
#		³ H dpm/m ²	$^{14}C dpm/m^2$	
Rad	ioisotope Van (See Figure 3)			
31	Fwd port benchtop	3,758*	0	
32	Aft port benchtop	267	0	
33	Inside fume hood	157	б	
34	Benchtop adjacent to fume hood	457	13	
35	Deck at fwd entrance	664*	0	
36	Deck at aft entrance	307	0	
37	Inside aft refrigerator	1,816*	30	
38	Inside fwd refrigerator	233	2	
39	Deck in center of van	1,007*	0	
40	Final bucket blank	0	0	

COMMENTS

In the Radioisotope Van, some minor tritium contamination was found on the forward port benchtop, inside the aft refrigerator and on the deck. The deck poses the most serious concern as it could potentially be tracked into other parts of the ship. We recommend cleaning the deck of the Rad Van with a suitable decontamination agent.