

Tritium Laboratory
4 April 2011

SWAB REPORT # 578

SWAB DATE: 1 April 2011

R/V Walton Smith and UM Small Radioisotope Van

James D. Happell

Distribution:
SWAB Committee
Richard Kniffin

REPORT FOR SWAB # 578

LOCATION: Miami, FL
VESSEL: *R/V Walton Smith*

DATE: 1 April 2011
TECHNICIAN: Jim Happell

Sample #	Sample Identification	³ H dpm/m ²		¹⁴ C dpm/m ²	
		activity	error	activity	error
1	1st Vial Bkgnd	0	± 0	0	± 0
2	Initial bucket blank	51	± 48	6	± 25
<u>Main Lab (Figure 1)</u>					
3	Bench top port of sink	71	± 52	7	± 0
4	Stbd. side of center bench	47	± 70	0	± 0
5	Stbd. bench top	44	± 48	7	± 27
6	Deck inside door to Wet Lab	98	± 62	0	± 0
7	Deck inside Mess Hall	61	± 53	0	± 0
8	Deck inside stairs fwd. stbd.	76	± 55	0	± 0
9	Deck inside stairs fwd. port	25	± 33	26	± 35
10	Deck between stbd. & center bench	89	± 59	0	± 0
11	Deck between port & center bench	48	± 48	10	± 29
12	Deck below sink	64	± 47	18	± 31
13	Port side of center bench	57	± 48	15	± 30
<u>Wet Lab (Figure 1)</u>					
14	Inside Haier freezer bottom	13	± 29	19	± 35
15	Inside Haier freezer top	61	± 51	5	± 22
16	Inside Haier refrigerator bottom	36	± 46	8	± 29
17	Deck between doors	32	± 48	2	± 21
18	Bench top stbd. of fwd. sink	32	± 58	0	± 0
19	Bench top port of aft sink	8	± 38	5	± 33
20	Deck between sinks	24	± 49	0	± 7
<u>UM Small Radioisotope Van (Figure 2)</u>					
21	Left bench top	59	± 61	0	± 0
22	Bench top left of LSC	78	± 50	15	± 29
23	Bench top right of LSC	*880	± 95	15	± 9
24	Refrigerator	3	± 12	15	± 36
25	Bench top around sink	18	± 37	13	± 34
26	Fume hood	8	± 30	10	± 35
27	Deck	78	± 54	3	± 16
28	Top of LSC	87	± 57	0	± 0
29	Final bucket blank	55	± 65	0	± 0

Comments

Please note that the error reported for each isotope is the two-standard deviation counting error. All areas tested on the ship were free of contamination. One sample in the UM Small Radioisotope Van tested positive for minor ^3H contamination, no action required.

