

Tritium Laboratory
3 June 2011

SWAB REPORT # 580

SWAB DATE: 27 May 2011

R/V Thomas Thompson

James D. Happell

Distribution:
SWAB Committee

REPORT FOR SWAB # 580

LOCATION: Seattle Washington
VESSEL: *R/V Thomas Thompson*

DATE: 27 May 2011
TECHNICIAN: Cecilia Roig

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	0	±	0	0	±	0
	<u>Hydro Lab (See Figure 1)</u>						
3	Deck in front of port sink	0	±	0	0	±	0
4	Inside fume hood	24	±	77	0	±	0
5	Deck in front of hood	0	±	0	12	±	37
6	Deck in front of stbd. sink	0	±	0	3	±	44
	<u>Wet Lab (See Figure 2)</u>						
7	Inside fume hood	0	±	0	6	±	37
8	Deck center of lab	0	±	0	0	±	0
	<u>Main Lab (See Figure 3)</u>						
9	Inside port GE freezer top	0	±	0	5	±	45
10	Inside port GE fridge bottom	0	±	0	14	±	41
11	Inside fume hood	0	±	0	12	±	41
12	Inside aft SoLow	0	±	0	0	±	0
13	Inside stbd SoLow	0	±	0	0	±	0
14	Inside stbd. GE freezer top	13	±	69	0	±	0
15	Inside stbd. GE fridge bottom	0	±	0	0	±	0
16	Deck inside aft double doors	11	±	45	5	±	33
17	Inside Cospolich	126	±	75	0	±	0
18	Deck inside fwd. port door	0	±	0	0	±	0
19	Deck inside mid port door	4	±	24	11	±	36
20	Deck inside aft port door	1	±	11	12	±	36
21	Port sink area	0	±	0	0	±	0
22	Stbd. sink area	0	±	0	0	±	0
23	Deck in front of stbd. sink	11	±	54	1	±	25
24	Deck in front of port sink	0	±	0	0	±	0
	<u>Bio/Analytical Lab (See Figure 1)</u>						
25	Inside hood	30	±	49	11	±	32
26	Inside Cospolich top	0	±	0	0	±	0
27	Inside Cospolich bottom	0	±	0	0	±	0

Sample #	Sample Identification	^3H dpm/m ²		^{14}C dpm/m ²	
		activity	error	activity	error
30	Deck inside aft cold chamber	53	± 55	13	± 30
31	Deck in deck in vestibule area	0	± 0	5	± 43
32	Fwd. sink area	0	± 0	0	± 0
33	Inside stbd. entrance	4	± 23	12	± 36
34	Intermediate bucket blank	5	± 0	0	± 0
<u>Rad Van (See Figure 4)</u>					
35	Sink area	0	± 0	0	± 0
36	Bench top right of sink	8	± 1	*187	± 66
37	Bench top left of NorCold	0	± 0	*164	± 65
38	NorCold top	259	± 36	0	± 0
39	NorCold bottom	282	± 14	*5,992	± 144
40	Deck next to escape hatch	0	± 0	0	± 0
41	Inside fume hood	2	± 0	*176	± 65
42	Deck center of van	0	± 0	*186	± 66
43	Deck at entrance next to sink	56	± 6	*877	± 79
44	Final bucket blank	0	± 0	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. Some ^{14}C contamination was detected in most samples taken in the radioisotope van. No action required at this time.

