

Tritium Laboratory
21 December 2009

COURTESY SWAB REPORT #537
SWAB DATE: 24 November 2009
R/V New Horizon

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Distribution:
SWAB Committee
Scripps Swab List
Gary Lain

REPORT FOR COURTESY SWAB #537

LOCATION: San Diego, CA
 TECHNICIAN: Gary Lain
 VESSEL/LAB: R/V New Horizon

DATE: 24 November 2009
 STATUS: See Comments.

SAMPLE #	SAMPLE IDENTIFICATION	NET ACTIVITY EXTRACTED	
		³ H dpm/m ²	¹⁴ C dpm/m ²
0	Machine Blank	-	-
1	Tap Water blank	0	0
2	Initial bucket blank C.O. #1	0	0
<u>Main Lab (See Figure)</u>			
3	Torrey freezer frost	0	0
4	Upright freezer frost	0	0
5	Inside refrigerator bottom	258	0
6	Sink area	138	0
7	Deck in front of sink	142	0
8	Bench top foreward	89	0
9	Bench top under window	105	0
10	Bench top fore by clock	191	0
11	Bench top mid	120	0
12	Bench top center	171	0
13	Bench top stbd. aft	71	0
14	Deck at entrance to Ocean Lab	73	0
<u>Ocean Lab (See Figure)</u>			
15	Port sink area	58	0
16	Aft sink area	238	0
17	Bench top	141	0
18	Sink area	113	0
19	Bench top	124	0
20	Inside fume hood	150	0
21	Deck in front of sink	5	0
22	Deck at port door	121	0
<u>Fantail (See Figure)</u>			
23	Port deck	149	0
24	Stbd. deck	154	0
<u>Wet Lab & Stbd. Lab (See Figure)</u>			
25	Sink	116	0
26	Deck inside door	70	0
27	Desk top	189	0
28	Scientific freezer	75	0
<u>Upper Lab (See Figure)</u>			
29	Minus 80 freezer	160	0
30	Sink area	123	0
31	Deck between stairs	135	0
32	Deck at aft entrance	91	0
33	Deck at starboard	44	0
34	Final bucket blank C.O. #1	0	0

Comments

Samples analyzed are splits from swab test done by Gary Lain (SIO). All areas tested were free of C14 contamination. Analysis results do show widespread low level 3H in almost every sample, however, we believe these to be false positives, because the last SWAB on the New Horizon in Sept. 2009 was clean and there has been no tritium use since then. At this time we are scheduling a swab by Tritium Laboratory personnel for February 2010.