

Tritium Laboratory
14 February 2011

SWAB REPORT # 572

SWAB DATE: 8 February 2011

R/V NEW HORIZON
and CalCOFI Van

James D. Happell

Distribution:
SWAB Committee
Gary Lain

REPORT FOR SWAB # 572

LOCATION: Point Loma, CA
VESSEL/LAB: R/V NEW HORIZON

DATE: 8 February 2011
TECHNICIAN: Cecilia Roig

Sample #	Sample Identification	³ H dpm/m ²		¹⁴ C dpm/m ²	
		activity	error	activity	error
1	1st Vial Background	0	± 0	0	± 0
2	Initial bucket blank	31	± 71	0	± 0
	<u>Main Lab (See Figure 1)</u>				
3	Inside Torrey freezer	14	± 1034	0	± 0
4	Inside Kenmore freezer top	24	± 42	9	± 33
5	Inside Kenmore fridge bottom	19	± 61	0	± 0
6	Sink area	29	± 117	0	± 0
7	Deck in front of sink	0	± 0	4	± 38
8	Stbd. fwd. benchtop	55	± 69	0	± 0
9	Fwd. benchtop	53	± 70	0	± 0
10	Midport benchtop top	80	± 60	0	± 0
11	Deck in front of midport benchtop	19	± 33	22	± 36
12	Benchtop aft	66	± 64	0	± 0
13	Deck in front of electronic equip.	1	± 8	7	± 37
	<u>Ocean Lab (See Figure 1)</u>				
14	Mid benchtop across sinks	40	± 67	0	± 0
15	Aft sink area	38	± 51	0	± 2
16	Deck at entrance to stairwell	0	± 0	5	± 46
17	Fwd. port sink area	13	± 153	0	± 0
18	Benchtop aft of port sink	50	± 74	0	± 0
19	Benchtop fwd of aft sink	29	± 114	0	± 0
20	Aft port sink area	10	± 0	0	± 0
21	Inside fume hood	56	± 77	0	± 0
22	Deck in front of hood	22	± 46	6	± 32
	<u>Wet Lab (See Figure 1)</u>				
23	Sink area	6	± 31	7	± 36
24	Benchtop stbd. of sink	59	± 76	0	± 0
25	Deck under sink	73	± 50	0	± 0
26	Deck at entrance to Main Lab	22	± 51	0	± 0
27	Fwd. benchtop	38	± 57	0	± 0
28	Scientific freezer benchtop	0	± 0	1	± 0
29	Scientific freezer deck	38	± 102	0	± 0

Sample #	Sample Identification	³ H dpm/m ²		¹⁴ C dpm/m ²	
		activity	error	activity	error
<u>Upper Lab (See Figure 1)</u>					
30	Minus 80 freezer	5	± 0	0	± 0
31	Sink area	8	± 0	0	± 0
32	Deck at aft entrance	15	± 93	0	± 0
33	Deck at fwd. entrance	0	± 0	0	± 0
34	Intermediate bucket blank	0	± 0	0	± 0
<u>CalCOFI Van (See Figure 2)</u>					
35	Sink area	12	± 19	41	± 38
36	Benchtop across sink	0	± 0	18	± 38
37	Benchtop right of sink	0	± 0	*280	± 47
38	Inside fridge drawer	0	± 0	*864	± 62
39	Benchtop right of fridge	0	± 0	*249	± 46
40	Deck at entrance	42	± 54	0	± 0
41	Final bucket blank	8	± 37	5	± 34

Comments

Please note that the error reported for each isotope is the two-standard deviation counting error. No isotope contamination was found on the ship. Minor ¹⁴C contamination was found in the Calcofi van and should be cleaned before any natural tracer work.

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