

Tritium Laboratory
March 20, 2009

COURTESY SWAB REPORT #513

SWAB DATE: 29 January 2009

R/V NEW HORIZON

Dr. James D. Happell
Associate Research Professor

Distribution:
SWAB Committee
Gary Lain

REPORT FOR COURTESY SWAB # 513

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

DATE: 29 January 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	0	0
2	Initial bucket blank	68	0
<u>Main Lab (See Figure)</u>			
3	Chest freezer frost	0	0
4	Freezer frost	0	0
5	Refrigerator floor, shelves	300	0
6	Inside sink	484	0
7	Deck near sink	364	0
8	Benchtop	242	0
9	Benchtop	41	0
10	Benchtop fore by clock	392	0
11	Benchtop aft	269	0
12	Benchtop by net station	476	0
13	Benchtop	773*	0
14	Deck	464	0
<u>Ocean Lab (See Figure)</u>			
15	Port sink	901*	0
16	Aft sink	405	0
17	Benchtop	166	0
18	Sink, starboard	949*	0
19	Benchtop	388	0
20	Fume hood floor	333	0
21	Deck near sink and hood	304	0
<u>Fantail (See Figure)</u>			
22	Deck near aft door	315	0
34	Port deck	220	0
35	Deck stbd.	288	10
<u>Wet Lab & Stbd. Lab (See Figure)</u>			
23	Sink	653*	0
24	Deck inside door	140	0
25	Desktop	396	0
<u>Miscellaneous Areas</u>			
26	Deck near stairs	258	0
27	Deck near lab door	243	0
28	Sink	629*	0
29	Benchtop	367	0
30A	Deck at aft end of lab	232	0
30B	-80 freezer	0	0
31	Top of stbd. deckbox	305	0
32	Deck near rad van door	413	0
33	Benchtop	280	0
36	Final bucket blank	100	0

Comments

Minor tritium contamination found in various areas of the ship. These require cleaning before any natural tracer work. It is recommended that all areas be cleaned for tritium contamination. All areas tested were free of radiocarbon contamination.