

Tritium Laboratory
February 2, 2009

COURTESY SWAB REPORT #513

SWAB DATE: 29 January 2009

R/V NEW HORIZON

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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		RERUN
		3H dpm/m2	14C dpm/m2	3H dpm/m2
0	Machine Blank		-	-
1	Tap water		0	0
2	Initial bucket blank		68	0 201
<u>Main Lab (See Figure)</u>				
3	Chest freezer frost		0	0 61
4	Freezer frost		0	0 37
5	Refrigerator floor, shelves		300	0 472
6	Inside sink		484	0 548*
7	Deck near sink		364	0 348
8	Benchtop		242	0 259
9	Benchtop		41	0 259
10	Benchtop fore by clock		392	0 435
11	Benchtop aft		269	0 444
12	Benchtop by net station		476	0 571*
13	Benchtop		773*	0 742*
14	Deck		464	0 563*
<u>Ocean Lab (See Figure)</u>				
15	Port sink		901*	0 981*
16	Aft sink		405	0 638*
17	Benchtop		166	0 473
18	Sink, starboard		949*	0 928*
19	Benchtop		388	0 518*
20	Fume hood floor		333	0 311
21	Deck near sink and hood		304	0 395
<u>Fantail (See Figure)</u>				
22	Deck near aft door		315	0 405
34	Port deck		220	0 385
35	Deck stbd.		288	10 362
<u>Wet Lab & Strbd. Lab (See Figure)</u>				
23	Sink		653*	0 689*
24	Deck inside door		140	0 197
25	Desktop		396	0 383
<u>Miscellaneous Areas</u>				
26	Deck near stairs		258	0 391
27	Deck near lab door		243	0 281
28	Sink		629*	0 683*
29	Benchtop		367	0 291
30A	Deck at aft end of lab		232	0 374
30B	-80 freezer		0	0 -
31	Top of stbd. deckbox		305	0 325
32	Deck near rad van door		413	0 473
33	Benchtop		280	0 363
36	Final bucket blank		100	0 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 C14 contamination.