

Tritium Laboratory
10 February 2010

SWAB REPORT # 538

SWAB DATE: 20 January 2010

R/V Hugh Sharp
UDE Radioisotope Van

Dr. James D. Happell
Associate Research Professor

Distribution:
SWAB Committee
Tim Deering

REPORT FOR SWAB # 538

LOCATION: Lewes, DE
 TECHNICIAN: Cecilia Roig
 VESSEL/LAB: R/V *Hugh Sharp*

DATE: 20 January 2010
 STATUS: See Comments

SAMPLE #	SAMPLE IDENTIFICATION	NET ACTIVITY EXTRACTED	
		³ H dpm/m ²	¹⁴ C dpm/m ²
1	Machine blank	0	0
2	Initial bucket blank	0	0
<u>Dry Lab (See Figure 1)</u>			
3	Inside Whirlpool freezer top	0	0
4	Inside Whirlpool refrigerator bottom	59	0
5	Inside Holiday freezer	36	0
6	Benchtop across from Whirlpool	0	0
7	Deck port of Holiday freezer	42	0
8	Benchtop stbd of sink	0	0
9	Stbd. aft benchtop	0	0
10	Stbd. fwd. benchtop	0	0
11	Deck under electrical panels	37	0
<u>Wet Lab (See Figure 1)</u>			
12	Inside small chest freezer	0	0
13	Inside Roper freezer top	0	0
14	Inside Roper refrigerator bottom	0	0
15	Inside Woods refrigerator bottom	0	0
16	Stbd. sink area	0	0
17	Aft sink area	17	0
18	Stbd. benchtop fwd. of CTD door	10	0
19	Deck center of vestibule area	0	0
20	Desk inside computer room	0	0
21	Intermediate bucket blank	0	0
<u>Radioisotope Van (See Figure 2)</u>			
22	Inside fume hood	26	28
23	Benchtop above refrigerator	61	0
24	Sink area	107	0
25	Top of LSC	0	0
26	Deck at entrance close to LSC	246	7
27	Benchtop scross from LSC	41	0

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SAMPLE #	SAMPLE IDENTIFICATION	NET ACTIVITY EXTRACTED	
		^3H dpm/m ²	^{14}C dpm/m ²
28	Benchtop above freezer	0	0
29	Benchtop scross from fume hood	127	8
30	Inside freezer bottom	20	0
31	Inside refrigerator bottom	367	219
32	Deck center of van	234	11
33	Deck at entrance close to hood	153	0
34	Final bucket blank	32	0

Comments

All areas in the ship were free of radioisotope contamination. Only minor ^3H and ^{14}C contamination was found inside the refrigerator bottom in the radioisotope van. No action is required at this time.