

Tritium Laboratory  
January 28, 2009

SWAB REPORT #505

SWAB DATE: 20 January 2009

*R/V Blue Heron*

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Distribution:  
SWAB Committee  
Doug Ricketts

REPORT FOR SWAB # 505

LOCATION : Duluth, MN  
 TECHNICIAN: Jim Happell  
 VESSEL/LAB: R/V Blue Heron

DATE : 20 January 2009  
 STATUS: See Comments.

SAMPLE #	SAMPLE IDENTIFICATION	NET ACTIVITY EXTRACTED	
		<sup>3</sup> H dpm/m <sup>2</sup>	<sup>14</sup> C dpm/m <sup>2</sup>
2	Initial bucket blank	0	0
<u>Dry Lab (See Figure 1)</u>			
3	Deck in front of passage to Lazerette	0	0
4	Inside chest freezer	547*	0
5	Port bench	0	0
6	Center bench	0	0
7	Stbd bench	0	0
8	Deck in front of stairs to Main Deck	0	0
9	Bench adjacent to sink	0	0
<u>Wet Lab (See Figure 2)</u>			
10	Inside freezer	4,367*	0
11	Inside refrigerator	28	0
12	Stbd bench	53	0
13	Port bench	0	0
14	Deck in front of stairs to Dry Lab	0	25
15	Deck in front of aft door	34	0
16	Galley/Mess Deck by aft door	0	0
17	Deck in Galley	0	0
18	Deck under table	0	0
<u>Maindeck/Fantail (See Figure 2)</u>			
19	Hatch	0	0
20	Deck under A-frame	0	0
<u>Radioisotope Van (See Figure 3)</u>			
21	Benchtop adjacent to LSC	0	13
22	Inside fume hood	0	0
23	Bench adjacent to sink	11	0
24	Inside refrigerator near single door	5	0
25	Inside refrigerator next to LSC	287	17
26	Deck in center of van	44	28
<u>Whaleback Deck (See Figure 4)</u>			
27	Deck inside pilothouse	0	0
28	Deck in front of pilothouse	0	0
29	Deck by Hydro winch	30	0
30	Final bucket sample	0	27

**COMMENTS**

Tritium activity was found inside chest freezer in Dry Lab and freezer in Wet Lab, both areas need cleaning before any natural tracer work is done.