Tritium Laboratory
18 May 2010

SWAB REPORT # 545

SWAB DATE: 7 May 2010

R/V Hugh Sharp and Vans

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Distribution:
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REPORT FOR SWAB # 545

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

DATE: 7 May 2010
STATUS: See Comments

SAMPLE #	SAMPLE IDENTIFICATION	ET ACTIVITY EXTRACTED ^{3}H dpm/m^2	^{14}C dpm/m^2
1	1st Machine blank	0	0
2	Initial bucket blank C.O. #1	0	16
	Dry Lab (See Figure 1)		
3	Inside Whirlpool freezer top	0	33
4	Inside Whirlpool refrigerator bottom	0	53
5	Inside Holiday freezer (seawater only)	0	10
6	Frost inside & top of Thermo -80 freezer	0	32
7	Inside Whirlpool chest freezer	0	0
8	Inside Frigidaire chest freezer - center	0	34
9	Inside Frigidaire chest freezer - aft	0	35
10	Bench top across Whirlpool freezer & ref	0	12
	Wet Lab (See Figure 1)		
11	Inside Roper freezer top	4	9
12	Inside Rover - bottom drawer	0	33
13	Inside Biological Only chest freezer	0	28
14	Inside chest freezer fwd. of CTD door	0	38
15	Inside Frigidaire chest freezer	0	7
16	Aft sink area	0	26
17	Aft bench top	0	15
18	Deck center of vestibule area	0	15
	Isotope Van (See Figure 2)		
19	Inside fume hood	148	13
20	Bench top above refrigerator	133	54 *
21	Sink area	299	48
22	Deck inside entrance close to LSC	249	87 *
23	Bench top across LSC	149	0
24	Inside freezer	0	0
25	Inside refrigerator	543 *	57 *
26	Deck center of van	215	33
27	Bench top above freezer	449	0

SAMPLE #	SAMPLE IDENTIFICATION	ET ACTIVITY EXTRACTED ^{3}H dpm/m^2	^{14}C dpm/m^2
28	Bench top closest to entrance	744 *	57 *
29	Deck inside entrance next to fume hood	160	62 *
30	Final bucket blank C.O. #1	0	7
	UNOLS Van Serial # 625.5.02 (See Figure 3)		
31	Initial bucket blank C.O. #2	0	33
32	Inside Flow Sciences	206	20
33	Bench top above freezer	0	0
34	Bench top above refrigerator	0	4
35	Sink area	0	16
36	Bench top across sink	0	5
37	Bench top across freezer	0	37
38	Deck inside entrance closest to sink	26	23
39	Inside refrigerator	0	171 *
40	Inside freezer	0	4
41	Deck center of van	0	37
42	Deck inside entrance closest to hood	0	24
	UNOLS Van Serial #2408-02 (See Figure 4)		
43	Inside hood	0	33
44	Bench top above Danby	0	19
45	Sink area	0	32
46	Bench top across sink	0	26
47	Bench top across Danby	0	0
48	Bench top across hood	0	12
49	Deck at entrance next to hood	0	45
50	Inside Danby	0	40
51	Deck inside entrance next to sink	0	21
	UNOLS Van Serial # 625.3.08 (See Figure 5)		
52	Inside hood	0	23
53	Sink area	0	7
54	Bench top across sink	0	31
55	Deck inside entrance next to hood	6	0
56	Inside freezer across sink	0	29
57	Inside Marvel Scientific	0	0
58	Deck in front of freezers	0	95 *
59	Final bucket blank C.O. # 2	0	50

Comments

All areas tested on the ship were free of isotope contamination. The University of Delaware isotope van had minor ^{14}C and ^{3}H contamination, but does not require any action at this time. UNOLS van serial #s 625.5.02 and 625.3.08 both had minor ^{14}C contamination and will require cleaning before any natural tracer work.