SWAB REPORT #445

SWAB DATE: 18 December 2006

R/V Nathaniel B. Palmer

Dr. James D. Happell Research Associate Professor

Distribution: SWAB Committee Bob Kluckhohn

REPORT FOR SWAB # 445

LOCATION: Lyttelton, New Zealand DATE: 18 Dec. 2006
TECHNICIAN: Cecilia Roig STATUS: See **COMMENTS**

VESSEL/LAB: R/V Nathaniel B. Palmer

VEGGET EAS. N/ V Nathaniel B. Taimer		
SAMPLE SAMPLE IDENTIFICATION #	NET ACTIVITY EXTRACTED 3H dpm/m2 14C dpm/m2	
1 Machine Blank	_	_
2 Initial bucket blank C.O. #1	0	0
Dry Lab (See Figure 1)		
3 Deck in front of freezers	5	0
4 Inside Percival Sci. 00011175	0	0
5 Ice inside Isotemp 00011622	0	0
6 Inside Percival Sci. 00011176	0	94
7 Ice inside Revco 12063	0	0
8 Ice inside Ultima II freezer	13	0
9 Top of Ultima II freezer	0	0
10 Aft workbench/sink area	0	0
11 Deck inside double doors	29	0
12 Stbd. workbench	53	0
13 Benchtop aft of port sink	21	0
14 Water inside Revco refrigerator 00011164	84	•
Freezer drawer	71	0
15 Bottom inside Revco refrigerator 00011164	0	0
Baltic Room (See Figure 1)		
16 Water inside aft door	143	0
17 CTD frame track	0	0
18 Aft port corner of deck	63	0
Radiation Van USAP 0004(See Figure 2)		
19 Interim bucket blank	0	0
20 Inside fume hood	16	9
21 Workbench under window	60	0
22 Workbench across sink	21	0
23 Workbench left of sink	7	0
24 Freezer bottom (furthest from sink)	53	49
25 Refrigerator bottom (closest to sink)	1,265*	700*
26 Deck below ladder	119	26
27 Deck between fume and LSC	184	33
28 Deck inside door	188	2
Radiation Van USAP 0003(See Figure 3)		
29 Workbench left of sink	916*	383
30 Refrigerator bottom furthest from sink	435	105
31 Refrigerator bottom nearest to sink	2,929*	1,326*
32 Inside fume hood	227	162
33 Top of LSC	136	51
34 Workbench across from sink	321	132
35 Deck between fume hood & LSC	2,612*	261
36 Deck center of van	2,536*	249
37 Deck below ladder	51,887**	395
38 Deck inside door	22,199**	287
39 Interim bucket blank	0	52

REPORT FOR SWAB # 445

SAMPLE SAMPLE IDENTIFICATION #	NET ACTIVITY EX 3H dpm/m2 14C			
02 Deck, Helo Deck (See Figure 4)				
40 Inside freezer top Baxter Cryo-fridge	24	59		
Inside refrigerator bottom & drawers Baxt	ter C 19	47		
42 Deck below Baxter Cryo-fridge	195	74		
43 Inside Air Clean 600 station	0	57		
44 Workbench stbd. of sink	31	69		
45 Deck in front of door to passageway	113	78		
46 Final bucket blank C.O. #1	13	53		
47 Initial bucket blank C.O. #2	0	0		
48 Deck below sink	0	34		
49 Deck in front of passageway door to Works	shop 0	0		
50 Deck in front of door to stbd.	78	0		
51 Deck in front of door to Helo Pad	37	7		
52 Deck in front of door to Workshop	9	0		
53 Interim bucket blank	0	0		
Bio Lab (See Figure 5)				
54 Deck below refrigerator	0	0		
55 Deck inside fwd. entrance	0	0		
56 Deck below aft sink	0	0		
57 Inside AirClean 600 Workstation	0	0		
58 Inside fume hood aft of port sink	84	25		
59 Inside fume hood fwd. of port sink	26	0		
60 Deck below fwd. fume hood	38	0		
61 Deck below aft fume hood	9	0		
62 Benchtop fwd. of port sink	0	0		
63 Workbench right of sink	0	0		
64 Inside refrigerator bottom NSF16532	0	0		
65 Inside Air Clean 600 PCR Workstation	0	0		
66 Deck below port sink	11	0		
67 Interim bucket blank	0	0		
Hydro Lab (See Figure 6) 68 Inside bottom So-Low 00011177	0	0		
68 Inside bottom So-Low 00011177 69 Inside bottom Baxter 00011181	0 25	0		
70 Benchtop aft of stbd. sink	25	0		
71 Deck below stbd. sink	58	-		
72 Deck below aft sink	0	5 0		
73 Benchtop port of aft sink	0	0		
74 Deck inside stbd. door	29	0		
74 Deck Inside Stpd. door	29	U		
Wet Lab (See Figure 6)				
75 Deck inside port entrance	62	0		
76 Benchtop port of aft sink	0	0		
77 Deck inside stbd. door	66	0		
78 Benchtop aft of stbd. sink	0	0		
79 Deck in center of room	1	0		
80 Deck inside fwd. entrance	0	0		

REPORT FOR SWAB # 445

SAMPLI #	E SAMPLE IDENTIFICATION	NET ACTIVITY 3H dpm/m2	_
"		on apm, ma	110 ap,
Aquar	ium (See Figure 6)		
81 I	Deck outside aft entrance to Aquarium Room	7	0
82 I	Deck outside fwd. entrance to Aquarium Room	n 66	0
Moon I	Pool Van - 5866-W505 (See Figure 7)		
83 I	Deck inside side entrance	0	0
84 5	Shelf next to side entrance	13	0
85 \$	Shelf across side entrance	0	0
86 I	Deck inside double entrance	0	0
87 I	Final bucket blank C.O. #2	0	0

Comments

All areas on ship tested free of radioisotope spills. Only minor C14 contamination was detected in Van # s 3 and 4. Both vans also had tritium contamination, the deck in Van # 3 needs to be cleaned to prevent tracking to other areas.