

## Radiological Survey Sheet

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Survey Purpose Radiologic Survey of Lab Date 9/18/07

Performed by William H. Calver (Print) William H. Calver (Sign)

|                               |                                |                                |                           |                                  |
|-------------------------------|--------------------------------|--------------------------------|---------------------------|----------------------------------|
| <b>Instrument (Model/S/N)</b> | Packard Tri-Carb<br>S/N 431521 | Packard Tri-Carb<br>S/N 431520 | Ludlum 2241-2<br>163603   | Wallac Model 1409<br>S/N 4061042 |
| <b>Det. (Model/SN)</b>        | Internal                       | Internal                       | Ludlum 43-68<br>PR 149613 | Internal                         |
| <b>Type Rad.</b>              | β                              | β                              | β                         | β                                |
| <b>Cal. Due:</b>              | 09/07/2008                     | 09/07/2008                     | 04/14/2008                | 09/07/2008                       |
| <b>Check Instruments Used</b> |                                | ✓                              | ✓                         |                                  |

| No. | Time | Locations         | See attached LSC printout for Total Activity (cpm/100 cm <sup>2</sup> ) |
|-----|------|-------------------|---|
| 1.  | 1145 | BACKGROUND        |   |
| 2.  |      | DOOR              | OUTER   |
| 3.  |      |                   | Top   |
| 4.  |      |                   | Middle  |
| 5.  |      |                   | Lower   |
| 6.  |      | INSIDE            | Top   |
| 7.  |      |                   | Middle  |
| 8.  |      |                   | Lower   |
| 9.  |      | FIRE EXTINGUISHER |   |
| 10. |      | OUTER UPPER HOOD  | FRONT   |
| 11. |      |                   | Left  |
| 12. |      |                   | Rear  |
| 13. |      |                   | Right   |
| 14. |      | OUTER RIM         | Left  |
| 15. |      |                   | UPPER   |
| 16. |      |                   | LOWER   |
| 17. |      |                   | Middle  |
| 18. |      |                   | UPPER   |
|     |      |                   | LOWER   |
|     |      |                   | Right   |
|     |      |                   | UPPER   |

- Surveyed 100% of lower surfaces using 43-68. NO READINGS IN EXCESS OF NORMAL BACKGROUND WERE NOTED.

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| No. | Time | Locations               | See attached LSC printout for Total Activity (cpm/100 cm <sup>2</sup> ) |
|-----|------|-------------------------|---|
| 19  | 1200 |                         | Right LOWER   |
| 20  |      | Inside Hood Glass FRONT | Left UPPER  |
| 21  |      |                         | LOWER   |
| 22  |      |                         | Middle UPPER  |
| 23  |      |                         | LOWER   |
| 24  |      |                         | Right UPPER   |
| 25  |      |                         | LOWER   |
| 26  |      | Left Wall               | UPPER   |
| 27  |      |                         | LOWER   |
| 28  |      | Rest Wall #1            | Left UPPER  |
| 29  |      |                         | LOWER   |
| 30  |      |                         | 2 UPPER   |
| 31  |      |                         | LOWER   |
| 32  |      |                         | 3 UPPER   |
| 33  |      |                         | LOWER   |
| 34  |      |                         | 4 UPPER   |
| 35  |      |                         | LOWER   |
| 36  |      |                         | Right Wall UPPER  |
| 37  |      |                         | with LOWER  |
| 38  |      | Hood FLOOR              | ' FRONT   |
| 39  |      |                         | REAR  |
| 40  |      |                         | Sink Hole   |
| 41  |      |                         | Drain   |
| 42  |      |                         | 2 FRONT   |
| 43  |      |                         | REAR  |
| 44  |      |                         | 3 FRONT   |
| 45  | ✓    |                         | REAR  |

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| No. | Time | Locations                             | See attached LSC printout for Total Activity (cpm/100 cm <sup>2</sup> ) |
|-----|------|---------------------------------------|---|
| 46  | 1220 | Hood Floor                            | FRONT   |
| 47  |      |                                       | REAR  |
| 48  |      | Left Wall Hood Cabinets Lower Cabinet | Left Door   |
| 49  |      |                                       | Right   |
| 50  |      | Inside Floor                          | Left  |
| 51  |      |                                       | Right   |
| 52  |      | Heater Dial above Cabinet             |   |
| 53  |      | Cabinet 2                             | Left Door   |
| 54  |      |                                       | Right Door  |
| 55  |      | Inside Floor                          | Left  |
| 56  |      |                                       | Right   |
| 57  |      | Left Wall Top Shelf above Sink        |   |
| 58  |      | 2nd Shelf                             |   |
| 59  |      | Glass waste Pegg                      |   |
| 60  |      | Countertop left of Sink               |   |
| 61  |      |                                       | Rear  |
| 62  |      |                                       | FRONT   |
| 63  |      |                                       | Right   |
| 64  |      | Inside Sink                           | FRONT   |
| 65  |      |                                       | Left  |
| 66  |      |                                       | Right   |
| 67  |      |                                       | LEFT  |
| 68  |      |                                       | REAR  |
| 69  |      |                                       | Left  |
| 70  |      |                                       | Right   |
| 71  |      | SINK FLOOR                            | Left  |
| 72  | ✓    |                                       | Right   |
|     |      |                                       | DRAIN   |

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| No. | Time  | Locations                                | See attached LSC printout for Total Activity (cpm/100 cm <sup>2</sup> ) |
|-----|-------|--|---|
| 73  | 12:48 | Left Wall Book Shelf                     | Top Shelf   |
| 74  |       |  | 2ND   |
| 75  |       |  | LOWER   |
| 76  |       | Next Set Shelves                         | TOP   |
| 77  |       |  | Middle  |
| 78  |       |  | Lower   |
| 79  |       | Bench Top <sup>Table Top</sup> FROM SINK | FRONT   |
| 80  |       |  | REAR  |
| 81  |       |  | FRONT   |
| 82  |       |  | REAR  |
| 83  |       |  | FRONT   |
| 84  |       |  | REAR  |
| 85  |       |  | FRONT   |
| 86  |       |  | REAR  |
| 87  |       | Cabinet below Sink                       | Left Door   |
| 88  |       |  | Right Door  |
| 89  |       | INSIDE                                   | FLOOR Left  |
| 90  |       |  | Middle  |
| 91  |       |  | Right   |
| 92  |       | Top Drawer                               | Outer   |
| 93  |       |  | Inner   |
| 94  |       | 2ND                                      | Outer   |
| 95  |       |  | Inner   |
| 96  |       | 3RD                                      | Outer   |
| 97  |       |  | Inner   |
| 98  |       | 4TH                                      | Outer   |
| 99  | ✓     |  | INNER   |

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| No. | Time | Locations  | See attached LSC printout for Total Activity (cpm/100 cm <sup>2</sup> ) |
|-----|------|--|---|
| 100 | 1310 | Left Drawers below Table Top                         | Outer   |
| 101 |      |  | Inner   |
| 102 |      | Right  | Outer   |
| 103 |      |  | Inner   |
| 104 |      | Rear Wall Fire Extinguisher                          |   |
| 105 |      | Center Rear Wall Cabinets Left Unit                  | Inside Top  |
| 106 |      |  | ZND   |
| 107 |      |  | Right Unit Inside Top   |
| 108 |      |  | ZND   |
| 109 |      | Right Rear Wall                                      | Lower Shelf   |
| 110 |      | Right Wall Bench Counter from Rear                   | 1   |
| 111 |      |  | 2   |
| 112 |      |  | 3   |
| 113 |      |  | 4   |
| 114 |      |  | 5   |
| 115 |      |  | 6   |
| 116 |      |  | 7   |
| 117 |      |  | 8   |
| 118 |      |  | 9   |
| 119 |      |  | 10  |
| 120 |      | 1st Bench from <sup>with</sup> Left Metal Shelf Unit | 2nd Left  |
| 121 |      |  | Right   |
| 122 |      |  | BTM Left  |
| 123 |      |  | Right   |
| 124 |      | Bench Top from Left                                  | 1 FRONT   |
| 125 |      |  | REAR  |
| 126 | ✓    |  | 2 FRONT   |

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| No. | Time | Locations          | See attached LSC printout for Total Activity (cpm/100 cm <sup>2</sup> ) |
|-----|------|--------------------|---|
| 127 | 1330 |                    | 2 REAR  |
| 128 |      |                    | 3 FRONT   |
| 129 |      |                    | REAR  |
| 130 |      |                    | Cup Hole  |
| 131 |      |                    | Drain   |
| 132 |      |                    | 4 FRONT   |
| 133 |      |                    | REAR  |
| 134 |      |                    | 5 FRONT   |
| 135 |      |                    | REAR  |
| 136 |      |                    | Cup Hole  |
| 137 |      |                    | Drain   |
| 138 |      |                    | 6 FRONT   |
| 139 |      |                    | REAR  |
| 140 |      | Desk Top           | Left  |
| 141 |      |                    | Right   |
| 142 |      | Far Side 1st Bench | Bench Top front Center Lab Front  |
| 143 |      |                    | REAR  |
| 144 |      |                    | 2 FRONT   |
| 145 |      |                    | REAR  |
| 146 |      |                    | 3 FRONT   |
| 147 |      |                    | REAR  |
| 148 |      |                    | 4 FRONT   |
| 149 |      |                    | REAR  |
| 150 |      |                    | 5 FRONT   |
| 151 |      |                    | REAR  |
| 152 |      |                    | 6 FRONT   |
| 153 | ✓    |                    | REAR  |

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| No. | Time | Locations                                   | See attached LSC printout for Total Activity (cpm/100 cm <sup>2</sup> ) |
|-----|------|---|---|
| 154 | 1350 | Desk Top                                    | Left  |
| 155 |      |   | Middle  |
| 156 |      |   | Right   |
| 157 |      | Phone                                       | Receiver  |
| 158 |      |   | Buttons   |
| 159 |      | Bench Top<br>2ND Bench FRONT Side from left | FRONT   |
| 160 |      |   | REAR  |
| 161 |      |   | FRONT   |
| 162 |      |   | REAR  |
| 163 |      |   | CupHole   |
| 164 |      |   | DRAIN   |
| 165 |      |   | FRONT   |
| 166 |      |   | REAR  |
| 167 |      |   | FRONT   |
| 168 |      |   | REAR  |
| 169 |      |   | CupHole   |
| 170 |      |   | DRAIN   |
| 171 |      |   | FRONT   |
| 172 |      |   | REAR  |
| 173 |      | Desk Top                                    | Left  |
| 174 |      |   | Right   |
| 175 |      | END of Bench Sink Bench area                | Left  |
| 176 |      |   | REAR  |
| 177 |      |   | Right   |
| 178 |      |   | FRONT   |
| 179 |      | Faucet                                      |   |
| 180 | V    | Sink Well                                   | FRONT Left  |





Assay Definition-

Assay Description:  
Background check for PM Lab (Mikey)

Assay Type: CPM  
Report Name: Report1  
Output Data Path: C:\Packard\Tricarb\Results\bill\bills swipes  
Raw Results Path: C:\Packard\Tricarb\Results\bill\bills swipes\20070918\_1810\20070918\_1810.results  
RTF File Name: C:\Packard\Tricarb\Results\bill\bills swipes\Report1.rtf  
Assay File Name: C:\Packard\TriCarb\Assays\bills swipes.lsa

Count Conditions-

Nuclide: TRIPLE  
Quench Indicator: tSIE/AEC  
External Std Terminator (sec): 0.5 2s%  
Pre-Count Delay (min): 0.00  
Quench Set: n/a  
Count Time (min): 1.00  
Count Mode: Normal  
Assay Count Cycles: 1 Repeat Sample Count: 1  
#Vials/Sample: 1 Calculate % Reference: Off

Background Subtract: Off  
Low CPM Threshold: Off  
2 Sigma % Terminator: Off

| Regions | LL   | UL     |
|---------|------|--------|
| A       | 0.0  | 18.6   |
| B       | 18.6 | 156.0  |
| C       | 0.0  | 2000.0 |

Count Corrections-

Static Controller: On Luminescence Correction: On  
Colored Samples: n/a Heterogeneity Monitor: n/a  
Coincidence Time (nsec): 18 Delay Before Burst (nsec): 75

Half Life-

Half Life Correction: Off

| Regions | Half Life | Units | Reference Date | Reference Time |
|---------|-----------|-------|----------------|----------------|
| A       |           |       |                |                |
| B       |           |       |                |                |
| C       |           |       |                |                |

Cycle 1 Results

| S# | CPMA | CPMB | CPMC | MESSAGES |
|----|------|------|------|----------|
| 1  | 17   | 5    | 28   |          |
| 2  | 15   | 10   | 29   |          |
| 3  | 13   | 6    | 20   |          |
| 4  | 12   | 2    | 25   |          |
| 5  | 20   | 7    | 37   |          |
| 6  | 18   | 8    | 33   |          |
| 7  | 7    | 5    | 15   |          |
| 8  | 15   | 6    | 27   |          |
| 9  | 13   | 7    | 22   |          |
| 10 | 7    | 7    | 19   |          |
| 11 | 17   | 4    | 25   |          |

|    |    |    |    |
|----|----|----|----|
| 12 | 19 | 4  | 32 |
| 13 | 15 | 10 | 36 |
| 14 | 10 | 7  | 25 |
| 15 | 12 | 10 | 37 |
| 16 | 20 | 3  | 26 |
| 17 | 14 | 5  | 21 |
| 18 | 14 | 5  | 24 |
| 19 | 19 | 7  | 33 |
| 20 | 25 | 10 | 40 |
| 21 | 18 | 8  | 30 |
| 22 | 10 | 5  | 18 |
| 23 | 16 | 4  | 24 |
| 24 | 18 | 9  | 32 |
| 25 | 9  | 6  | 23 |
| 26 | 14 | 1  | 29 |
| 27 | 17 | 7  | 32 |
| 28 | 19 | 7  | 29 |
| 29 | 13 | 8  | 23 |
| 30 | 18 | 7  | 29 |
| 31 | 8  | 5  | 19 |
| 32 | 7  | 9  | 20 |
| 33 | 4  | 3  | 13 |
| 34 | 13 | 7  | 27 |
| 35 | 19 | 6  | 29 |
| 36 | 18 | 5  | 30 |
| 37 | 16 | 8  | 34 |
| 38 | 20 | 5  | 31 |
| 39 | 13 | 8  | 29 |
| 40 | 11 | 10 | 25 |
| 41 | 10 | 6  | 21 |
| 42 | 17 | 6  | 27 |
| 43 | 24 | 6  | 35 |
| 44 | 23 | 6  | 36 |
| 45 | 15 | 12 | 32 |
| 46 | 11 | 4  | 21 |
| 47 | 14 | 5  | 23 |
| 48 | 11 | 4  | 21 |
| 49 | 19 | 5  | 28 |
| 50 | 12 | 7  | 19 |
| 51 | 13 | 6  | 22 |
| 52 | 14 | 4  | 21 |
| 53 | 14 | 8  | 27 |
| 54 | 8  | 5  | 15 |
| 55 | 13 | 8  | 24 |
| 56 | 13 | 6  | 21 |
| 57 | 12 | 10 | 26 |
| 58 | 20 | 3  | 31 |
| 59 | 23 | 8  | 36 |
| 60 | 10 | 8  | 22 |
| 61 | 16 | 10 | 31 |
| 62 | 9  | 7  | 18 |
| 63 | 10 | 1  | 13 |
| 64 | 9  | 6  | 18 |
| 65 | 4  | 6  | 12 |
| 66 | 23 | 7  | 36 |
| 67 | 10 | 6  | 22 |
| 68 | 13 | 9  | 25 |
| 69 | 10 | 7  | 21 |
| 70 | 14 | 10 | 28 |
| 71 | 13 | 2  | 17 |
| 72 | 11 | 10 | 26 |
| 73 | 13 | 7  | 26 |
| 74 | 17 | 9  | 32 |

|     |    |    |    |
|-----|----|----|----|
| 75  | 19 | 4  | 27 |
| 76  | 16 | 12 | 32 |
| 77  | 14 | 11 | 32 |
| 78  | 16 | 7  | 29 |
| 79  | 16 | 7  | 29 |
| 80  | 3  | 9  | 15 |
| 81  | 10 | 9  | 25 |
| 82  | 7  | 6  | 19 |
| 83  | 14 | 10 | 26 |
| 84  | 19 | 11 | 32 |
| 85  | 17 | 5  | 27 |
| 86  | 15 | 5  | 22 |
| 87  | 18 | 8  | 30 |
| 88  | 15 | 12 | 34 |
| 89  | 12 | 6  | 22 |
| 90  | 15 | 6  | 28 |
| 91  | 13 | 6  | 26 |
| 92  | 11 | 5  | 19 |
| 93  | 11 | 5  | 21 |
| 94  | 15 | 3  | 23 |
| 95  | 10 | 4  | 17 |
| 96  | 10 | 10 | 23 |
| 97  | 12 | 7  | 22 |
| 98  | 17 | 4  | 25 |
| 99  | 13 | 4  | 23 |
| 100 | 13 | 7  | 26 |
| 101 | 10 | 7  | 20 |
| 102 | 10 | 12 | 26 |
| 103 | 13 | 5  | 25 |
| 104 | 10 | 6  | 21 |
| 105 | 8  | 6  | 24 |
| 106 | 12 | 2  | 16 |
| 107 | 17 | 6  | 28 |
| 108 | 13 | 7  | 26 |
| 109 | 15 | 11 | 32 |
| 110 | 15 | 9  | 30 |
| 111 | 9  | 4  | 15 |
| 112 | 17 | 5  | 27 |
| 113 | 16 | 8  | 29 |
| 114 | 15 | 7  | 30 |
| 115 | 11 | 7  | 21 |
| 116 | 8  | 10 | 24 |
| 117 | 6  | 4  | 12 |
| 118 | 13 | 6  | 24 |
| 119 | 16 | 6  | 25 |
| 120 | 13 | 8  | 28 |
| 121 | 15 | 11 | 28 |
| 122 | 15 | 11 | 32 |
| 123 | 16 | 6  | 24 |
| 124 | 8  | 12 | 26 |
| 125 | 7  | 12 | 28 |
| 126 | 7  | 3  | 17 |
| 127 | 20 | 7  | 29 |
| 128 | 11 | 8  | 23 |
| 129 | 9  | 5  | 21 |
| 130 | 5  | 7  | 15 |
| 131 | 13 | 7  | 23 |
| 132 | 13 | 5  | 24 |
| 133 | 14 | 7  | 28 |
| 134 | 13 | 0  | 18 |
| 135 | 13 | 5  | 25 |
| 136 | 6  | 2  | 11 |
| 137 | 13 | 5  | 20 |

|     |    |    |    |
|-----|----|----|----|
| 138 | 12 | 5  | 25 |
| 139 | 16 | 6  | 26 |
| 140 | 16 | 6  | 27 |
| 141 | 22 | 10 | 37 |
| 142 | 13 | 3  | 18 |
| 143 | 12 | 5  | 23 |
| 144 | 16 | 6  | 25 |
| 145 | 6  | 8  | 22 |
| 146 | 10 | 3  | 18 |
| 147 | 15 | 7  | 25 |
| 148 | 10 | 5  | 18 |
| 149 | 14 | 3  | 25 |
| 150 | 14 | 6  | 25 |
| 151 | 12 | 6  | 21 |
| 152 | 12 | 6  | 24 |
| 153 | 13 | 9  | 27 |
| 154 | 12 | 8  | 33 |
| 155 | 15 | 6  | 24 |
| 156 | 16 | 6  | 27 |
| 157 | 16 | 4  | 25 |
| 158 | 13 | 7  | 32 |
| 159 | 17 | 4  | 28 |
| 160 | 9  | 3  | 14 |
| 161 | 21 | 4  | 28 |
| 162 | 10 | 8  | 26 |
| 163 | 10 | 11 | 23 |
| 164 | 10 | 4  | 19 |
| 165 | 22 | 4  | 33 |
| 166 | 13 | 9  | 25 |
| 167 | 9  | 6  | 19 |
| 168 | 10 | 5  | 23 |
| 169 | 15 | 7  | 25 |
| 170 | 21 | 8  | 37 |
| 171 | 8  | 9  | 26 |
| 172 | 11 | 5  | 22 |
| 173 | 18 | 7  | 33 |
| 174 | 14 | 2  | 25 |
| 175 | 7  | 11 | 23 |
| 176 | 13 | 11 | 27 |
| 177 | 19 | 9  | 31 |
| 178 | 11 | 1  | 17 |
| 179 | 15 | 4  | 22 |
| 180 | 8  | 5  | 18 |
| 181 | 5  | 4  | 13 |
| 182 | 16 | 10 | 28 |
| 183 | 9  | 6  | 23 |
| 184 | 5  | 10 | 21 |
| 185 | 12 | 9  | 28 |
| 186 | 11 | 9  | 24 |
| 187 | 7  | 7  | 20 |
| 188 | 8  | 6  | 21 |
| 189 | 11 | 2  | 18 |
| 190 | 9  | 10 | 21 |
| 191 | 15 | 8  | 25 |
| 192 | 12 | 3  | 21 |
| 193 | 14 | 5  | 26 |
| 194 | 17 | 6  | 27 |
| 195 | 18 | 10 | 30 |
| 196 | 9  | 9  | 21 |
| 197 | 8  | 7  | 22 |
| 198 | 15 | 6  | 26 |
| 199 | 17 | 2  | 25 |
| 200 | 15 | 7  | 28 |