

November 15, 2013

**FAL Project ID: 8158**

Mr. Mark Katchen  
Phylmar Group  
2342 Manning Avenue  
Los Angeles, CA 90064

Dear Mr. Katchen,

Attached are the results for Frontier Analytical Laboratory project **8158**. This corresponds to your project number **365-001A** and project name **MHS/Cabrillo Monitoring**. Twelve Polyurethane Foam/XAD-2 (PUF/XAD) cartridges were received on 11/5/2013 in good condition. The twelve samples were extracted and analyzed by EPA Method 1668C for all 209 polychlorinated biphenyls (PCBs). In addition, the total PCB concentration is listed in the upper right hand portion of page one of each sample data page. **Please note the results are reported in pg/sample.** The results have not been adjusted for the volume of air that was collected. The Phylmar Group requested a turnaround time of ten business days for project **8158**.

The following report consists of an Analytical Data section and a Sample Receipt section. The Analytical Data section contains our project-sample tracking log and the analytical results. The Sample Receipt section contains your chain of custody, our sample login form and the sample photos. The attached results are specifically for the samples referenced in this report only. These results shall not be reproduced except in full. Frontier Analytical Laboratory's NELAP Certificate number is 02113CA. This report has been emailed to you as a PDF file. A hardcopy will not be sent to you unless specifically requested.

If you have any questions regarding project **8158**, please contact me at (916) 934-0900. Thank you for choosing Frontier Analytical Laboratory for your analytical testing needs.

Sincerely,



Bradley B. Silverbush  
Director of Operations

## Frontier Analytical Laboratory

### Sample Tracking Log

FAL Project ID: **8158**

Received on: **11/05/2013**

Project Due: **11/20/2013**

Storage: **R2**

| FAL<br>Sample ID | Dup | Client<br>Project ID | Client<br>Sample ID | Requested<br>Method | Matrix  | Sampling<br>Date | Sampling<br>Time | Hold Time<br>Due Date |
|------------------|-----|----------------------|---------------------|---------------------|---------|------------------|------------------|-----------------------|
| 8158-001-SA      | 0   | 365-001A             | HC20131102-A-1      | EPA 1668 PCB        | PUF/XAD | 11/02/2013       | NP               | 11/09/2013            |
| 8158-002-SA      | 0   | 365-001A             | HC20131102-A-2      | EPA 1668 PCB        | PUF/XAD | 11/02/2013       | NP               | 11/09/2013            |
| 8158-003-SA      | 0   | 365-001A             | HC20131102-A-3      | EPA 1668 PCB        | PUF/XAD | 11/02/2013       | NP               | 11/09/2013            |
| 8158-004-SA      | 0   | 365-001A             | HC20131102-A-4      | EPA 1668 PCB        | PUF/XAD | 11/02/2013       | NP               | 11/09/2013            |
| 8158-005-SA      | 0   | 365-001A             | HC20131102-A-5      | EPA 1668 PCB        | PUF/XAD | 11/02/2013       | NP               | 11/09/2013            |
| 8158-006-SA      | 0   | 365-001A             | HC20131102-A-6      | EPA 1668 PCB        | PUF/XAD | 11/02/2013       | NP               | 11/09/2013            |
| 8158-007-SA      | 0   | 365-001A             | HC20131102-A-7      | EPA 1668 PCB        | PUF/XAD | 11/02/2013       | NP               | 11/09/2013            |
| 8158-008-SA      | 0   | 365-001A             | HC20131102-A-8      | EPA 1668 PCB        | PUF/XAD | 11/02/2013       | NP               | 11/09/2013            |
| 8158-009-SA      | 0   | 365-001A             | HC20131102-A-9      | EPA 1668 PCB        | PUF/XAD | 11/02/2013       | NP               | 11/09/2013            |
| 8158-010-SA      | 0   | 365-001A             | HC20131102-A-10     | EPA 1668 PCB        | PUF/XAD | 11/02/2013       | NP               | 11/09/2013            |
| 8158-011-SA      | 0   | 365-001A             | HC20131102-A-11     | EPA 1668 PCB        | PUF/XAD | 11/02/2013       | NP               | 11/09/2013            |
| 8158-012-SA      | 0   | 365-001A             | HC20131102-A-12     | EPA 1668 PCB        | PUF/XAD | 11/02/2013       | NP               | 11/09/2013            |

# EPA Modified Method 1668 PCBs



FAL ID: 8158-001-MB  
Client ID: Method Blank  
Matrix: PUF  
Batch No: X2965

Date Extracted: 11-06-2013  
Date Received: NA  
Amount: 1.00 pg/sample

ICal: DAILY209FAL4-11-7-13  
GC Column: DB1  
Units: sample

Acquired: 11-07-2013  
Total Conc: 27.5

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| Compound | Conc | DL   | Qual | Coeluters | Compound | Conc | DL   | Qual | Coeluters |
|----------|------|------|------|-----------|----------|------|------|------|-----------|
| PCB-1    | ND   | 1.88 |      |           | PCB-51   | ND   | 4.68 |      |           |
| PCB-2    | ND   | 2.53 |      |           | PCB-52   | ND   | 4.08 | C    | 69        |
| PCB-3    | ND   | 2.02 |      |           | PCB-53   | ND   | 4.80 |      |           |
| PCB-4    | ND   | 7.47 |      |           | PCB-54   | ND   | 2.62 |      |           |
| PCB-5    | ND   | 6.70 |      |           | PCB-55   | ND   | 3.53 |      |           |
| PCB-6    | ND   | 5.77 |      |           | PCB-56   | ND   | 4.61 | C    | 60        |
| PCB-7    | ND   | 7.23 |      |           | PCB-57   | ND   | 3.39 |      |           |
| PCB-8    | ND   | 7.16 |      |           | PCB-58   | ND   | 3.81 |      |           |
| PCB-9    | ND   | 6.10 |      |           | PCB-59   | -    | -    | C042 | 42        |
| PCB-10   | ND   | 6.47 |      |           | PCB-60   | -    | -    | C056 | 56        |
| PCB-11   | 27.5 | -    | J    |           | PCB-61   | ND   | 3.66 | C    | 70        |
| PCB-12   | ND   | 7.16 |      |           | PCB-62   | ND   | 3.43 |      |           |
| PCB-13   | ND   | 7.09 |      |           | PCB-63   | ND   | 3.38 |      |           |
| PCB-14   | ND   | 6.62 |      |           | PCB-64   | -    | -    | C041 | 41/71/72  |
| PCB-15   | ND   | 5.35 |      |           | PCB-65   | ND   | 3.89 |      |           |
| PCB-16   | ND   | 4.15 |      |           | PCB-66   | ND   | 3.23 | C    | 76        |
| PCB-17   | ND   | 4.90 |      |           | PCB-67   | ND   | 3.33 |      |           |
| PCB-18   | ND   | 5.77 |      |           | PCB-68   | ND   | 3.21 |      |           |
| PCB-19   | ND   | 4.11 |      |           | PCB-69   | -    | -    | C052 | 52        |
| PCB-20   | ND   | 3.55 | C    | 21/33     | PCB-70   | -    | -    | C061 | 61        |
| PCB-21   | -    | -    | C020 | 20/33     | PCB-71   | -    | -    | C041 | 41/64/72  |
| PCB-22   | ND   | 3.65 |      |           | PCB-72   | -    | -    | C041 | 41/64/71  |
| PCB-23   | ND   | 3.68 |      |           | PCB-73   | ND   | 3.32 |      |           |
| PCB-24   | ND   | 3.71 |      |           | PCB-74   | ND   | 2.55 |      |           |
| PCB-25   | ND   | 3.42 |      |           | PCB-75   | -    | -    | C048 | 48        |
| PCB-26   | ND   | 3.70 |      |           | PCB-76   | -    | -    | C066 | 66        |
| PCB-27   | ND   | 3.67 |      |           | PCB-77   | ND   | 4.12 |      |           |
| PCB-28   | ND   | 3.36 |      |           | PCB-78   | ND   | 4.78 |      |           |
| PCB-29   | ND   | 3.63 |      |           | PCB-79   | ND   | 4.80 |      |           |
| PCB-30   | ND   | 3.57 |      |           | PCB-80   | ND   | 2.88 |      |           |
| PCB-31   | ND   | 3.15 |      |           | PCB-81   | ND   | 4.33 |      |           |
| PCB-32   | ND   | 3.72 |      |           | PCB-82   | ND   | 9.90 |      |           |
| PCB-33   | -    | -    | C020 | 20/21     | PCB-83   | ND   | 7.10 | C    | 112       |
| PCB-34   | ND   | 4.43 |      |           | PCB-84   | ND   | 8.04 | C    | 92        |
| PCB-35   | ND   | 3.86 |      |           | PCB-85   | ND   | 6.63 | C    | 116       |
| PCB-36   | ND   | 3.64 |      |           | PCB-86   | ND   | 7.23 |      |           |
| PCB-37   | ND   | 2.83 |      |           | PCB-87   | ND   | 5.99 | C    | 117/125   |
| PCB-38   | ND   | 3.57 |      |           | PCB-88   | ND   | 6.55 | C    | 91        |
| PCB-39   | ND   | 3.84 |      |           | PCB-89   | ND   | 8.29 |      |           |
| PCB-40   | ND   | 6.02 |      |           | PCB-90   | ND   | 7.25 | C    | 101       |
| PCB-41   | ND   | 3.58 | C    | 64/71/72  | PCB-91   | -    | -    | C088 | 88        |
| PCB-42   | ND   | 3.88 | C    | 59        | PCB-92   | -    | -    | C084 | 84        |
| PCB-43   | ND   | 3.77 | C    | 49        | PCB-93   | ND   | 5.83 |      |           |
| PCB-44   | ND   | 4.10 |      |           | PCB-94   | ND   | 7.23 |      |           |
| PCB-45   | ND   | 5.14 |      |           | PCB-95   | ND   | 5.44 |      |           |
| PCB-46   | ND   | 5.39 |      |           | PCB-96   | ND   | 4.49 |      |           |
| PCB-47   | ND   | 4.03 |      |           | PCB-97   | ND   | 7.88 |      |           |
| PCB-48   | ND   | 3.71 | C    | 75        | PCB-98   | ND   | 5.71 | C    | 102       |
| PCB-49   | -    | -    | C043 | 43        | PCB-99   | ND   | 6.15 |      |           |
| PCB-50   | ND   | 4.38 |      |           | PCB-100  | ND   | 6.00 |      |           |

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# EPA Modified Method 1668 PCBs



FAL ID: 8158-001-MB  
Client ID: Method Blank  
Matrix: PUF  
Batch No: X2965

Date Extracted: 11-06-2013  
Date Received: NA  
Amount: 1.00 pg/sample

ICal: DAILY209FAL4-11-7-13  
GC Column: DB1  
Units: sample

Acquired: 11-07-2013

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| Compound | Conc | DL   | Qual | Coeluters | Compound | Conc | DL   | Qual | Coeluters |
|----------|------|------|------|-----------|----------|------|------|------|-----------|
| PCB-101  | -    | -    | C090 | 90        | PCB-151  | ND   | 9.67 |      |           |
| PCB-102  | -    | -    | C098 | 98        | PCB-152  | ND   | 4.19 |      |           |
| PCB-103  | ND   | 5.51 |      |           | PCB-153  | ND   | 5.34 |      |           |
| PCB-104  | ND   | 3.23 |      |           | PCB-154  | ND   | 4.94 |      |           |
| PCB-105  | ND   | 7.26 |      |           | PCB-155  | ND   | 2.96 |      |           |
| PCB-106  | ND   | 8.24 | C    | 118       | PCB-156  | ND   | 6.18 |      |           |
| PCB-107  | ND   | 7.28 | C    | 108       | PCB-157  | ND   | 6.45 |      |           |
| PCB-108  | -    | -    | C107 | 107       | PCB-158  | ND   | 5.28 | C    | 160       |
| PCB-109  | ND   | 6.26 |      |           | PCB-159  | ND   | 5.23 |      |           |
| PCB-110  | ND   | 4.20 |      |           | PCB-160  | -    | -    | C158 | 158       |
| PCB-111  | ND   | 5.41 | C    | 115       | PCB-161  | -    | -    | C132 | 132       |
| PCB-112  | -    | -    | C083 | 83        | PCB-162  | -    | -    | C128 | 128       |
| PCB-113  | ND   | 6.91 |      |           | PCB-163  | -    | -    | C138 | 138/164   |
| PCB-114  | ND   | 7.44 |      |           | PCB-164  | -    | -    | C138 | 138/163   |
| PCB-115  | -    | -    | C111 | 111       | PCB-165  | -    | -    | C146 | 146       |
| PCB-116  | -    | -    | C085 | 85        | PCB-166  | ND   | 5.39 |      |           |
| PCB-117  | -    | -    | C087 | 87/125    | PCB-167  | ND   | 5.50 |      |           |
| PCB-118  | -    | 8.24 | C106 | 106       | PCB-168  | ND   | 5.57 |      |           |
| PCB-119  | ND   | 5.62 |      |           | PCB-169  | ND   | 5.67 |      |           |
| PCB-120  | ND   | 5.26 |      |           | PCB-170  | ND   | 7.86 |      |           |
| PCB-121  | ND   | 4.80 |      |           | PCB-171  | ND   | 6.27 |      |           |
| PCB-122  | ND   | 7.13 |      |           | PCB-172  | ND   | 6.92 |      |           |
| PCB-123  | ND   | 7.45 |      |           | PCB-173  | ND   | 7.25 |      |           |
| PCB-124  | ND   | 8.60 |      |           | PCB-174  | ND   | 6.23 |      |           |
| PCB-125  | -    | -    | C087 | 87/117    | PCB-175  | ND   | 6.56 |      |           |
| PCB-126  | ND   | 6.38 |      |           | PCB-176  | ND   | 4.40 |      |           |
| PCB-127  | ND   | 7.82 |      |           | PCB-177  | ND   | 6.89 |      |           |
| PCB-128  | ND   | 6.95 | C    | 162       | PCB-178  | ND   | 6.36 |      |           |
| PCB-129  | ND   | 8.09 |      |           | PCB-179  | ND   | 4.26 |      |           |
| PCB-130  | ND   | 7.38 |      |           | PCB-180  | ND   | 6.09 |      |           |
| PCB-131  | ND   | 7.41 | C    | 133       | PCB-181  | ND   | 6.53 |      |           |
| PCB-132  | ND   | 6.33 | C    | 161       | PCB-182  | ND   | 5.63 | C    | 187       |
| PCB-133  | -    | -    | C131 | 131       | PCB-183  | ND   | 5.75 |      |           |
| PCB-134  | ND   | 7.44 | C    | 143       | PCB-184  | ND   | 4.31 |      |           |
| PCB-135  | ND   | 8.72 |      |           | PCB-185  | ND   | 6.57 |      |           |
| PCB-136  | ND   | 4.64 |      |           | PCB-186  | ND   | 4.73 |      |           |
| PCB-137  | ND   | 8.33 |      |           | PCB-187  | -    | -    | C182 | 182       |
| PCB-138  | ND   | 5.00 | C    | 163/164   | PCB-188  | ND   | 3.58 |      |           |
| PCB-139  | ND   | 6.68 | C    | 149       | PCB-189  | ND   | 3.88 |      |           |
| PCB-140  | ND   | 6.36 |      |           | PCB-190  | ND   | 5.47 |      |           |
| PCB-141  | ND   | 6.98 |      |           | PCB-191  | ND   | 5.07 |      |           |
| PCB-142  | ND   | 7.73 |      |           | PCB-192  | ND   | 5.52 |      |           |
| PCB-143  | -    | -    | C134 | 134       | PCB-193  | ND   | 4.88 |      |           |
| PCB-144  | ND   | 6.08 |      |           | PCB-194  | ND   | 5.53 |      |           |
| PCB-145  | ND   | 4.42 |      |           | PCB-195  | ND   | 6.08 |      |           |
| PCB-146  | ND   | 5.90 | C    | 165       | PCB-196  | ND   | 6.60 | C    | 203       |
| PCB-147  | ND   | 6.77 |      |           | PCB-197  | ND   | 4.91 |      |           |
| PCB-148  | ND   | 5.09 |      |           | PCB-198  | ND   | 7.23 |      |           |
| PCB-149  | -    | -    | C139 | 139       | PCB-199  | ND   | 7.73 |      |           |
| PCB-150  | ND   | 4.43 |      |           | PCB-200  | ND   | 4.73 |      |           |

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# EPA Modified Method 1668 PCBs



FAL ID: 8158-001-MB  
Client ID: Method Blank  
Matrix: PUF  
Batch No: X2965

Date Extracted: 11-06-2013  
Date Received: NA  
Amount: 1.00 pg/sample

ICal: DAILY209FAL4-11-7-13  
GC Column: DB1  
Units: sample

Acquired: 11-07-2013

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| Compound | Conc | DL   | Qual | Coeluters |
|----------|------|------|------|-----------|
| PCB-201  | ND   | 4.86 |      |           |
| PCB-202  | ND   | 3.75 |      |           |
| PCB-203  | -    | -    | C196 | 196       |
| PCB-204  | ND   | 4.59 |      |           |
| PCB-205  | ND   | 3.21 |      |           |
| PCB-206  | ND   | 4.63 |      |           |
| PCB-207  | ND   | 4.81 |      |           |
| PCB-208  | ND   | 3.57 |      |           |
| PCB-209  | ND   | 5.09 |      |           |

| Internal Standards | % Rec | QC Limits  | Qual |
|--------------------|-------|------------|------|
| 13C-PCB-1          | 77.5  | 5.00 - 145 |      |
| 13C-PCB-3          | 77.5  | 5.00 - 145 |      |
| 13C-PCB-4          | 88.0  | 5.00 - 145 |      |
| 13C-PCB-15         | 89.2  | 5.00 - 145 |      |
| 13C-PCB-19         | 82.7  | 5.00 - 145 |      |
| 13C-PCB-37         | 94.8  | 5.00 - 145 |      |
| 13C-PCB-54         | 95.5  | 5.00 - 145 |      |
| 13C-PCB-77         | 92.4  | 10.0 - 145 |      |
| 13C-PCB-81         | 93.9  | 10.0 - 145 |      |
| 13C-PCB-104        | 89.1  | 10.0 - 145 |      |
| 13C-PCB-105        | 94.3  | 10.0 - 145 |      |
| 13C-PCB-114        | 96.1  | 10.0 - 145 |      |
| 13C-PCB-118        | 89.1  | 10.0 - 145 |      |
| 13C-PCB-123        | 93.5  | 10.0 - 145 |      |
| 13C-PCB-126        | 95.8  | 10.0 - 145 |      |
| 13C-PCB-155        | 89.8  | 10.0 - 145 |      |
| 13C-PCB-156        | 92.7  | 10.0 - 145 |      |
| 13C-PCB-157        | 94.0  | 10.0 - 145 |      |
| 13C-PCB-167        | 97.4  | 10.0 - 145 |      |
| 13C-PCB-169        | 98.2  | 10.0 - 145 |      |
| 13C-PCB-188        | 93.0  | 10.0 - 145 |      |
| 13C-PCB-189        | 99.1  | 10.0 - 145 |      |
| 13C-PCB-202        | 88.9  | 10.0 - 145 |      |
| 13C-PCB-205        | 89.0  | 10.0 - 145 |      |
| 13C-PCB-206        | 93.4  | 10.0 - 145 |      |
| 13C-PCB-208        | 90.8  | 10.0 - 145 |      |
| 13C-PCB-209        | 90.3  | 10.0 - 145 |      |

| Pre-Spike Standards | % Rec | QC Limits  | Qual |
|---------------------|-------|------------|------|
| 13C-PCB-28          | 101   | 5.00 - 145 |      |
| 13C-PCB-111         | 88.8  | 10.0 - 145 |      |
| 13C-PCB-178         | 88.4  | 10.0 - 145 |      |

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Coelution
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- \* Result taken from dilution or reinjection

Analyst:   
Date: 11/13/2013

Reviewed By:   
Date: 11/13/2013

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# EPA Modified Method 1668 PCBs



FAL ID: 8158-001-OPR  
Client ID: OPR  
Matrix: PUF  
Batch No: X2965

Date Extracted: 11-06-2013  
Date Received: NA  
Amount: 1.00 sample

ICal: 1668FAL4-10-24-13  
GC Column: DB1  
Units: ng/ml

Acquired: 11-07-2013

| Compound | % Recovery | QC Limits  | Qual | Internal Standards  | % Recovery | QC Limits  | Qual |
|----------|------------|------------|------|---------------------|------------|------------|------|
| PCB-1    | 108        | 60.0 - 135 |      | 13C-PCB-1           | 81.0       | 15.0 - 145 |      |
| PCB-3    | 108        | 60.0 - 135 |      | 13C-PCB-3           | 80.6       | 15.0 - 145 |      |
| PCB-4    | 105        | 60.0 - 135 |      | 13C-PCB-4           | 80.9       | 15.0 - 145 |      |
| PCB-15   | 105        | 60.0 - 135 |      | 13C-PCB-15          | 80.3       | 15.0 - 145 |      |
| PCB-19   | 106        | 60.0 - 135 |      | 13C-PCB-19          | 87.1       | 15.0 - 145 |      |
| PCB-37   | 106        | 60.0 - 135 |      | 13C-PCB-37          | 78.5       | 15.0 - 145 |      |
| PCB-54   | 99.4       | 60.0 - 135 |      | 13C-PCB-54          | 106        | 15.0 - 145 |      |
| PCB-77   | 102        | 60.0 - 135 |      | 13C-PCB-77          | 81.4       | 40.0 - 145 |      |
| PCB-81   | 107        | 60.0 - 135 |      | 13C-PCB-81          | 77.3       | 40.0 - 145 |      |
| PCB-104  | 104        | 60.0 - 135 |      | 13C-PCB-104         | 84.1       | 40.0 - 145 |      |
| PCB-105  | 102        | 60.0 - 135 |      | 13C-PCB-105         | 90.7       | 40.0 - 145 |      |
| PCB-114  | 103        | 60.0 - 135 |      | 13C-PCB-114         | 86.5       | 40.0 - 145 |      |
| PCB-118  | 106        | 60.0 - 135 |      | 13C-PCB-118         | 90.7       | 40.0 - 145 |      |
| PCB-123  | 98.3       | 60.0 - 135 |      | 13C-PCB-123         | 90.9       | 40.0 - 145 |      |
| PCB-126  | 107        | 60.0 - 135 |      | 13C-PCB-126         | 87.2       | 40.0 - 145 |      |
| PCB-155  | 112        | 60.0 - 135 |      | 13C-PCB-155         | 82.2       | 40.0 - 145 |      |
| PCB-156  | 110        | 60.0 - 135 |      | 13C-PCB-156         | 88.2       | 40.0 - 145 |      |
| PCB-157  | 112        | 60.0 - 135 |      | 13C-PCB-157         | 85.8       | 40.0 - 145 |      |
| PCB-167  | 114        | 60.0 - 135 |      | 13C-PCB-167         | 87.4       | 40.0 - 145 |      |
| PCB-169  | 110        | 60.0 - 135 |      | 13C-PCB-169         | 89.5       | 40.0 - 145 |      |
| PCB-188  | 111        | 60.0 - 135 |      | 13C-PCB-188         | 98.4       | 40.0 - 145 |      |
| PCB-189  | 113        | 60.0 - 135 |      | 13C-PCB-189         | 88.6       | 40.0 - 145 |      |
| PCB-202  | 111        | 60.0 - 135 |      | 13C-PCB-202         | 93.0       | 40.0 - 145 |      |
| PCB-205  | 117        | 60.0 - 135 |      | 13C-PCB-205         | 78.4       | 40.0 - 145 |      |
| PCB-206  | 110        | 60.0 - 135 |      | 13C-PCB-206         | 93.5       | 40.0 - 145 |      |
| PCB-208  | 105        | 60.0 - 135 |      | 13C-PCB-208         | 92.4       | 40.0 - 145 |      |
| PCB-209  | 126        | 60.0 - 135 |      | 13C-PCB-209         | 80.4       | 40.0 - 145 |      |
|          |            |            |      | Pre-Spike Standards | % Recovery | QC limits  | Qual |
|          |            |            |      | 13C-PCB-28          | 89.9       | 15.0 - 145 |      |
|          |            |            |      | 13C-PCB-111         | 81.6       | 40.0 - 145 |      |
|          |            |            |      | 13C-PCB-178         | 94.3       | 40.0 - 145 |      |

Analyst: 

Date: 11/13/2013

Reviewed By: 

Date: 11/13/2013

# EPA Modified Method 1668 PCBs



FAL ID: 8158-001-SA  
Client ID: HC20131102-A-1  
Matrix: PUF  
Batch No: X2965

Date Extracted: 11-06-2013  
Date Received: 11-05-2013  
Amount: 1.00 sample

ICal: DAILY209FAL4-11-7-13  
GC Column: DB1  
Units: pg/sample

Acquired: 11-07-2013  
Total Conc: 504000

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| Compound | Conc  | DL   | Qual | Coeluters | Compound | Conc  | DL   | Qual | Coeluters |
|----------|-------|------|------|-----------|----------|-------|------|------|-----------|
| PCB-1    | 6170  | -    |      |           | PCB-51   | 636   | -    |      |           |
| PCB-2    | 1110  | -    |      |           | PCB-52   | 48100 | -    | C    | 69        |
| PCB-3    | 4730  | -    |      |           | PCB-53   | 2800  | -    | J    |           |
| PCB-4    | 4030  | -    |      |           | PCB-54   | 23.5  | -    |      |           |
| PCB-5    | 480   | -    |      |           | PCB-55   | 308   | -    |      |           |
| PCB-6    | 2570  | -    |      |           | PCB-56   | 5630  | -    | C    | 60        |
| PCB-7    | 984   | -    |      |           | PCB-57   | 60.6  | -    |      |           |
| PCB-8    | 15400 | -    |      |           | PCB-58   | 31.6  | -    | J    |           |
| PCB-9    | 939   | -    |      |           | PCB-59   | -     | -    | C042 | 42        |
| PCB-10   | 311   | -    |      |           | PCB-60   | -     | -    | C056 | 56        |
| PCB-11   | 8620  | -    | B    |           | PCB-61   | 27100 | -    | C    | 70        |
| PCB-12   | 427   | -    |      |           | PCB-62   | ND    | 8.63 |      |           |
| PCB-13   | 658   | -    |      |           | PCB-63   | 493   | -    |      |           |
| PCB-14   | ND    | 9.23 |      |           | PCB-64   | -     | -    | C041 | 41/71/72  |
| PCB-15   | 3080  | -    |      |           | PCB-65   | ND    | 9.78 |      |           |
| PCB-16   | 3950  | -    |      |           | PCB-66   | 10800 | -    | C    | 76        |
| PCB-17   | 6160  | -    |      |           | PCB-67   | 349   | -    |      |           |
| PCB-18   | 18700 | -    |      |           | PCB-68   | 84.7  | -    |      |           |
| PCB-19   | 987   | -    |      |           | PCB-69   | -     | -    | C052 | 52        |
| PCB-20   | 9150  | -    | C    | 21/33     | PCB-70   | -     | -    | C061 | 61        |
| PCB-21   | -     | -    | C020 | 20/33     | PCB-71   | -     | -    | C041 | 41/64/72  |
| PCB-22   | 4660  | -    |      |           | PCB-72   | -     | -    | C041 | 41/64/71  |
| PCB-23   | 25.0  | -    | J    |           | PCB-73   | 837   | -    |      |           |
| PCB-24   | 150   | -    |      |           | PCB-74   | 5800  | -    |      |           |
| PCB-25   | 980   | -    |      |           | PCB-75   | -     | -    | C048 | 48        |
| PCB-26   | 2470  | -    |      |           | PCB-76   | -     | -    | C066 | 66        |
| PCB-27   | 885   | -    |      |           | PCB-77   | 310   | -    |      |           |
| PCB-28   | 14100 | -    |      |           | PCB-78   | 71.8  | -    |      |           |
| PCB-29   | 102   | -    |      |           | PCB-79   | 300   | -    |      |           |
| PCB-30   | ND    | 6.76 |      |           | PCB-80   | 169   | -    |      |           |
| PCB-31   | 14500 | -    |      |           | PCB-81   | 445   | -    |      |           |
| PCB-32   | 4150  | -    |      |           | PCB-82   | 2390  | -    |      |           |
| PCB-33   | -     | -    | C020 | 20/21     | PCB-83   | 1300  | -    | C    | 112       |
| PCB-34   | 52.5  | -    |      |           | PCB-84   | 16300 | -    | C    | 92        |
| PCB-35   | 300   | -    |      |           | PCB-85   | 3530  | -    | C    | 116       |
| PCB-36   | 13.9  | -    | J    |           | PCB-86   | 133   | -    |      |           |
| PCB-37   | 1760  | -    |      |           | PCB-87   | 10000 | -    | C    | 117/125   |
| PCB-38   | 54.8  | -    |      |           | PCB-88   | 5960  | -    | C    | 91        |
| PCB-39   | 14.0  | -    | J    |           | PCB-89   | 422   | -    |      |           |
| PCB-40   | 1800  | -    |      |           | PCB-90   | 35700 | -    | C    | 101       |
| PCB-41   | 12000 | -    | C    | 64/71/72  | PCB-91   | -     | -    | C088 | 88        |
| PCB-42   | 3410  | -    | C    | 59        | PCB-92   | -     | -    | C084 | 84        |
| PCB-43   | 13200 | -    | C    | 49        | PCB-93   | ND    | 9.47 |      |           |
| PCB-44   | 18600 | -    |      |           | PCB-94   | 214   | -    |      |           |
| PCB-45   | 2000  | -    |      |           | PCB-95   | 36100 | -    |      |           |
| PCB-46   | 758   | -    |      |           | PCB-96   | 353   | -    |      |           |
| PCB-47   | 3100  | -    |      |           | PCB-97   | 8480  | -    |      |           |
| PCB-48   | 2650  | -    | C    | 75        | PCB-98   | ND    | 9.27 | C    | 102       |
| PCB-49   | -     | -    | C043 | 43        | PCB-99   | 11800 | -    |      |           |
| PCB-50   | 41.2  | -    |      |           | PCB-100  | 107   | -    |      |           |

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# EPA Modified Method 1668 PCBs



FAL ID: 8158-001-SA  
Client ID: HC20131102-A-1  
Matrix: PUF  
Batch No: X2965

Date Extracted: 11-06-2013  
Date Received: 11-05-2013  
Amount: 1.00 sample

ICal: DAILY209FAL4-11-7-13  
GC Column: DB1  
Units: pg/sample

Acquired: 11-07-2013

Page 2 of 3

| Compound | Conc  | DL   | Qual | Coeluters | Compound | Conc | DL   | Qual | Coeluters |
|----------|-------|------|------|-----------|----------|------|------|------|-----------|
| PCB-101  | -     | -    | C090 | 90        | PCB-151  | 2260 | -    |      |           |
| PCB-102  | -     | -    | C098 | 98        | PCB-152  | 42.9 | -    |      |           |
| PCB-103  | 263   | -    |      |           | PCB-153  | 5290 | -    |      |           |
| PCB-104  | ND    | 2.47 |      |           | PCB-154  | 150  | -    |      |           |
| PCB-105  | 3670  | -    |      |           | PCB-155  | ND   | 1.88 |      |           |
| PCB-106  | 12600 | -    | C    | 118       | PCB-156  | 285  | -    |      |           |
| PCB-107  | 886   | -    | C    | 108       | PCB-157  | 65.5 | -    |      |           |
| PCB-108  | -     | -    | C107 | 107       | PCB-158  | 786  | -    | C    | 160       |
| PCB-109  | ND    | 9.06 |      |           | PCB-159  | ND   | 6.38 |      |           |
| PCB-110  | 17500 | -    |      |           | PCB-160  | -    | -    | C158 | 158       |
| PCB-111  | 710   | -    | C    | 115       | PCB-161  | -    | -    | C132 | 132       |
| PCB-112  | -     | -    | C083 | 83        | PCB-162  | -    | -    | C128 | 128       |
| PCB-113  | ND    | 9.99 |      |           | PCB-163  | -    | -    | C138 | 138/164   |
| PCB-114  | 361   | -    |      |           | PCB-164  | -    | -    | C138 | 138/163   |
| PCB-115  | -     | -    | C111 | 111       | PCB-165  | -    | -    | C146 | 146       |
| PCB-116  | -     | -    | C085 | 85        | PCB-166  | 30.0 | -    | J    |           |
| PCB-117  | -     | -    | C087 | 87/125    | PCB-167  | 142  | -    |      |           |
| PCB-118  | -     | -    | C106 | 106       | PCB-168  | ND   | 6.80 |      |           |
| PCB-119  | 397   | -    |      |           | PCB-169  | ND   | 6.14 |      |           |
| PCB-120  | 33.9  | -    | J    |           | PCB-170  | 123  | -    |      |           |
| PCB-121  | ND    | 7.79 |      |           | PCB-171  | 96.2 | -    |      |           |
| PCB-122  | 124   | -    |      |           | PCB-172  | 35.2 | -    | J    |           |
| PCB-123  | 245   | -    |      |           | PCB-173  | 11.8 | -    | J    |           |
| PCB-124  | 751   | -    |      |           | PCB-174  | 266  | -    |      |           |
| PCB-125  | -     | -    | C087 | 87/117    | PCB-175  | 23.6 | -    | J    |           |
| PCB-126  | 20.4  | -    | J    |           | PCB-176  | 103  | -    |      |           |
| PCB-127  | ND    | 9.74 |      |           | PCB-177  | 155  | -    |      |           |
| PCB-128  | 801   | -    | C    | 162       | PCB-178  | 79.1 | -    |      |           |
| PCB-129  | 391   | -    |      |           | PCB-179  | 290  | -    |      |           |
| PCB-130  | 482   | -    |      |           | PCB-180  | 283  | -    |      |           |
| PCB-131  | 376   | -    | C    | 133       | PCB-181  | 14.9 | -    | J    |           |
| PCB-132  | 2850  | -    | C    | 161       | PCB-182  | 350  | -    | C    | 187       |
| PCB-133  | -     | -    | C131 | 131       | PCB-183  | 213  | -    |      |           |
| PCB-134  | 774   | -    | C    | 143       | PCB-184  | ND   | 3.58 |      |           |
| PCB-135  | 1810  | -    |      |           | PCB-185  | 34.8 | -    | J    |           |
| PCB-136  | 3230  | -    |      |           | PCB-186  | ND   | 3.93 |      |           |
| PCB-137  | 573   | -    |      |           | PCB-187  | -    | -    | C182 | 182       |
| PCB-138  | 4870  | -    | C    | 163/164   | PCB-188  | ND   | 3.02 |      |           |
| PCB-139  | 8450  | -    | C    | 149       | PCB-189  | ND   | 3.17 |      |           |
| PCB-140  | 161   | -    |      |           | PCB-190  | 20.3 | -    | J    |           |
| PCB-141  | 1160  | -    |      |           | PCB-191  | ND   | 4.22 |      |           |
| PCB-142  | ND    | 9.45 |      |           | PCB-192  | ND   | 4.59 |      |           |
| PCB-143  | -     | -    | C134 | 134       | PCB-193  | 14.5 | -    | J    |           |
| PCB-144  | 752   | -    |      |           | PCB-194  | 19.9 | -    | J    |           |
| PCB-145  | 17.7  | -    | J    |           | PCB-195  | ND   | 7.51 |      |           |
| PCB-146  | 951   | -    | C    | 165       | PCB-196  | 54.7 | -    | C    | 203       |
| PCB-147  | 379   | -    |      |           | PCB-197  | ND   | 4.18 |      |           |
| PCB-148  | 82.1  | -    |      |           | PCB-198  | ND   | 6.16 |      |           |
| PCB-149  | -     | -    | C139 | 139       | PCB-199  | 54.1 | -    |      |           |
| PCB-150  | 36.5  | -    | J    |           | PCB-200  | 11.7 | -    | J    |           |

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# EPA Modified Method 1668 PCBs



FAL ID: 8158-001-SA  
Client ID: HC20131102-A-1  
Matrix: PUF  
Batch No: X2965

Date Extracted: 11-06-2013  
Date Received: 11-05-2013  
Amount: 1.00 sample

ICal: DAILY209FAL4-11-7-13  
GC Column: DB1  
Units: pg/sample

Acquired: 11-07-2013

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| Compound | Conc | DL   | Qual | Coeluters |
|----------|------|------|------|-----------|
| PCB-201  | 17.8 | -    | J    |           |
| PCB-202  | 22.7 | -    | J    |           |
| PCB-203  | -    | -    | C196 | 196       |
| PCB-204  | ND   | 3.91 |      |           |
| PCB-205  | ND   | 3.97 |      |           |
| PCB-206  | ND   | 8.27 |      |           |
| PCB-207  | ND   | 8.88 |      |           |
| PCB-208  | ND   | 6.78 |      |           |
| PCB-209  | ND   | 3.30 |      |           |

| Internal Standards | % Rec | QC Limits  | Qual |
|--------------------|-------|------------|------|
| 13C-PCB-1          | 81.6  | 5.00 - 145 |      |
| 13C-PCB-3          | 82.2  | 5.00 - 145 |      |
| 13C-PCB-4          | 92.3  | 5.00 - 145 |      |
| 13C-PCB-15         | 96.6  | 5.00 - 145 |      |
| 13C-PCB-19         | 84.2  | 5.00 - 145 |      |
| 13C-PCB-37         | 107   | 5.00 - 145 |      |
| 13C-PCB-54         | 92.3  | 5.00 - 145 |      |
| 13C-PCB-77         | 104   | 10.0 - 145 |      |
| 13C-PCB-81         | 104   | 10.0 - 145 |      |
| 13C-PCB-104        | 89.0  | 10.0 - 145 |      |
| 13C-PCB-105        | 102   | 10.0 - 145 |      |
| 13C-PCB-114        | 103   | 10.0 - 145 |      |
| 13C-PCB-118        | 102   | 10.0 - 145 |      |
| 13C-PCB-123        | 105   | 10.0 - 145 |      |
| 13C-PCB-126        | 106   | 10.0 - 145 |      |
| 13C-PCB-155        | 84.7  | 10.0 - 145 |      |
| 13C-PCB-156        | 98.1  | 10.0 - 145 |      |
| 13C-PCB-157        | 99.5  | 10.0 - 145 |      |
| 13C-PCB-167        | 101   | 10.0 - 145 |      |
| 13C-PCB-169        | 103   | 10.0 - 145 |      |
| 13C-PCB-188        | 93.1  | 10.0 - 145 |      |
| 13C-PCB-189        | 103   | 10.0 - 145 |      |
| 13C-PCB-202        | 89.5  | 10.0 - 145 |      |
| 13C-PCB-205        | 92.6  | 10.0 - 145 |      |
| 13C-PCB-206        | 92.6  | 10.0 - 145 |      |
| 13C-PCB-208        | 88.9  | 10.0 - 145 |      |
| 13C-PCB-209        | 87.6  | 10.0 - 145 |      |

| Pre-Spike Standards | % Rec | QC Limits  | Qual |
|---------------------|-------|------------|------|
| 13C-PCB-28          | 108   | 5.00 - 145 |      |
| 13C-PCB-111         | 94.4  | 10.0 - 145 |      |
| 13C-PCB-178         | 90.6  | 10.0 - 145 |      |

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Coelution
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- \* Result taken from dilution or reinjection

Analyst:   
Date: 11/13/2013

Reviewed By:   
Date: 11/13/2013

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# EPA Modified Method 1668 PCBs



FAL ID: 8158-002-SA  
Client ID: HC20131102-A-2  
Matrix: PUF  
Batch No: X2965

Date Extracted: 11-06-2013  
Date Received: 11-05-2013  
Amount: 1.00 sample

ICal: DAILY209FAL4-11-7-13  
GC Column: DB1  
Units: pg/sample

Acquired: 11-07-2013  
Total Conc: 589000

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| Compound | Conc  | DL   | Qual | Coeluters | Compound | Conc  | DL   | Qual | Coeluters |
|----------|-------|------|------|-----------|----------|-------|------|------|-----------|
| PCB-1    | 6430  | -    |      |           | PCB-51   | 541   | -    |      |           |
| PCB-2    | 886   | -    |      |           | PCB-52   | 45000 | -    | C    | 69        |
| PCB-3    | 3590  | -    |      |           | PCB-53   | 2130  | -    | J    |           |
| PCB-4    | 2750  | -    |      |           | PCB-54   | 19.6  | -    |      |           |
| PCB-5    | 170   | -    |      |           | PCB-55   | 318   | -    |      |           |
| PCB-6    | 1470  | -    |      |           | PCB-56   | 4800  | -    | C    | 60        |
| PCB-7    | 669   | -    |      |           | PCB-57   | 41.7  | -    |      |           |
| PCB-8    | 8360  | -    |      |           | PCB-58   | 17.2  | -    | J    |           |
| PCB-9    | 562   | -    |      |           | PCB-59   | -     | -    | C042 | 42        |
| PCB-10   | 185   | -    |      |           | PCB-60   | -     | -    | C056 | 56        |
| PCB-11   | 7320  | -    | B    |           | PCB-61   | 31000 | -    | C    | 70        |
| PCB-12   | 192   | -    |      |           | PCB-62   | ND    | 7.18 |      |           |
| PCB-13   | 334   | -    |      |           | PCB-63   | 438   | -    |      |           |
| PCB-14   | ND    | 6.17 |      |           | PCB-64   | -     | -    | C041 | 41/71/72  |
| PCB-15   | 1300  | -    |      |           | PCB-65   | ND    | 8.14 |      |           |
| PCB-16   | 2700  | -    |      |           | PCB-66   | 11500 | -    | C    | 76        |
| PCB-17   | 4010  | -    |      |           | PCB-67   | 197   | -    |      |           |
| PCB-18   | 14800 | -    |      |           | PCB-68   | 51.8  | -    |      |           |
| PCB-19   | 635   | -    |      |           | PCB-69   | -     | -    | C052 | 52        |
| PCB-20   | 5530  | -    | C    | 21/33     | PCB-70   | -     | -    | C061 | 61        |
| PCB-21   | -     | -    | C020 | 20/33     | PCB-71   | -     | -    | C041 | 41/64/72  |
| PCB-22   | 2860  | -    |      |           | PCB-72   | -     | -    | C041 | 41/64/71  |
| PCB-23   | 13.2  | -    | J    |           | PCB-73   | 223   | -    |      |           |
| PCB-24   | 87.4  | -    |      |           | PCB-74   | 5660  | -    |      |           |
| PCB-25   | 413   | -    |      |           | PCB-75   | -     | -    | C048 | 48        |
| PCB-26   | 1290  | -    |      |           | PCB-76   | -     | -    | C066 | 66        |
| PCB-27   | 499   | -    |      |           | PCB-77   | 350   | -    |      |           |
| PCB-28   | 8780  | -    |      |           | PCB-78   | 107   | -    |      |           |
| PCB-29   | 46.0  | -    |      |           | PCB-79   | 376   | -    |      |           |
| PCB-30   | ND    | 3.70 |      |           | PCB-80   | ND    | 6.01 |      |           |
| PCB-31   | 10800 | -    |      |           | PCB-81   | 632   | -    |      |           |
| PCB-32   | 2830  | -    |      |           | PCB-82   | 3330  | -    |      |           |
| PCB-33   | -     | -    | C020 | 20/21     | PCB-83   | 1750  | -    | C    | 112       |
| PCB-34   | 33.9  | -    | J    |           | PCB-84   | 23400 | -    | C    | 92        |
| PCB-35   | 91.8  | -    |      |           | PCB-85   | 4630  | -    | C    | 116       |
| PCB-36   | 15.1  | -    | J    |           | PCB-86   | 154   | -    |      |           |
| PCB-37   | 915   | -    |      |           | PCB-87   | 15800 | -    | C    | 117/125   |
| PCB-38   | 45.4  | -    |      |           | PCB-88   | 7820  | -    | C    | 91        |
| PCB-39   | ND    | 6.33 |      |           | PCB-89   | 475   | -    |      |           |
| PCB-40   | 1720  | -    |      |           | PCB-90   | 55400 | -    | C    | 101       |
| PCB-41   | 10800 | -    | C    | 64/71/72  | PCB-91   | -     | -    | C088 | 88        |
| PCB-42   | 2750  | -    | C    | 59        | PCB-92   | -     | -    | C084 | 84        |
| PCB-43   | 11100 | -    | C    | 49        | PCB-93   | ND    | 5.94 |      |           |
| PCB-44   | 17900 | -    |      |           | PCB-94   | 246   | -    |      |           |
| PCB-45   | 1680  | -    |      |           | PCB-95   | 51100 | -    |      |           |
| PCB-46   | 629   | -    |      |           | PCB-96   | 338   | -    |      |           |
| PCB-47   | 2560  | -    |      |           | PCB-97   | 12300 | -    |      |           |
| PCB-48   | 2350  | -    | C    | 75        | PCB-98   | ND    | 5.82 | C    | 102       |
| PCB-49   | -     | -    | C043 | 43        | PCB-99   | 16300 | -    |      |           |
| PCB-50   | 34.2  | -    | J    |           | PCB-100  | 105   | -    |      |           |

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# EPA Modified Method 1668 PCBs



FAL ID: 8158-002-SA  
Client ID: HC20131102-A-2  
Matrix: PUF  
Batch No: X2965

Date Extracted: 11-06-2013  
Date Received: 11-05-2013  
Amount: 1.00 sample

ICal: DAILY209FAL4-11-7-13  
GC Column: DB1  
Units: pg/sample

Acquired: 11-07-2013

Page 2 of 3

| Compound | Conc  | DL   | Qual | Coeluters | Compound | Conc  | DL   | Qual | Coeluters |
|----------|-------|------|------|-----------|----------|-------|------|------|-----------|
| PCB-101  | -     | -    | C090 | 90        | PCB-151  | 6070  | -    |      |           |
| PCB-102  | -     | -    | C098 | 98        | PCB-152  | 63.7  | -    |      |           |
| PCB-103  | 274   | -    |      |           | PCB-153  | 12100 | -    |      |           |
| PCB-104  | ND    | 3.30 |      |           | PCB-154  | 245   | -    |      |           |
| PCB-105  | 5290  | -    |      |           | PCB-155  | ND    | 5.56 |      |           |
| PCB-106  | 19200 | -    | C    | 118       | PCB-156  | 427   | -    |      |           |
| PCB-107  | 1320  | -    | C    | 108       | PCB-157  | 86.8  | -    |      |           |
| PCB-108  | -     | -    | C107 | 107       | PCB-158  | 1480  | -    | C    | 160       |
| PCB-109  | ND    | 8.97 |      |           | PCB-159  | 65.3  | -    |      |           |
| PCB-110  | 27500 | -    |      |           | PCB-160  | -     | -    | C158 | 158       |
| PCB-111  | 922   | -    | C    | 115       | PCB-161  | -     | -    | C132 | 132       |
| PCB-112  | -     | -    | C083 | 83        | PCB-162  | -     | -    | C128 | 128       |
| PCB-113  | ND    | 9.89 |      |           | PCB-163  | -     | -    | C138 | 138/164   |
| PCB-114  | 529   | -    |      |           | PCB-164  | -     | -    | C138 | 138/163   |
| PCB-115  | -     | -    | C111 | 111       | PCB-165  | -     | -    | C146 | 146       |
| PCB-116  | -     | -    | C085 | 85        | PCB-166  | 53.9  | -    |      |           |
| PCB-117  | -     | -    | C087 | 87/125    | PCB-167  | 222   | -    |      |           |
| PCB-118  | -     | -    | C106 | 106       | PCB-168  | ND    | 6.05 |      |           |
| PCB-119  | 493   | -    |      |           | PCB-169  | ND    | 4.40 |      |           |
| PCB-120  | 63.4  | -    |      |           | PCB-170  | 663   | -    |      |           |
| PCB-121  | ND    | 4.89 |      |           | PCB-171  | 437   | -    |      |           |
| PCB-122  | 196   | -    |      |           | PCB-172  | 160   | -    |      |           |
| PCB-123  | 343   | -    |      |           | PCB-173  | 51.6  | -    |      |           |
| PCB-124  | 1220  | -    |      |           | PCB-174  | 1650  | -    |      |           |
| PCB-125  | -     | -    | C087 | 87/117    | PCB-175  | 111   | -    |      |           |
| PCB-126  | 50.9  | -    |      |           | PCB-176  | 487   | -    |      |           |
| PCB-127  | ND    | 9.16 |      |           | PCB-177  | 987   | -    |      |           |
| PCB-128  | 1220  | -    | C    | 162       | PCB-178  | 423   | -    |      |           |
| PCB-129  | 597   | -    |      |           | PCB-179  | 1510  | -    |      |           |
| PCB-130  | 748   | -    |      |           | PCB-180  | 1730  | -    |      |           |
| PCB-131  | 669   | -    | C    | 133       | PCB-181  | 62.6  | -    |      |           |
| PCB-132  | 6310  | -    | C    | 161       | PCB-182  | 2060  | -    | C    | 187       |
| PCB-133  | -     | -    | C131 | 131       | PCB-183  | 1060  | -    |      |           |
| PCB-134  | 1550  | -    | C    | 143       | PCB-184  | ND    | 4.07 |      |           |
| PCB-135  | 3930  | -    |      |           | PCB-185  | 265   | -    |      |           |
| PCB-136  | 6430  | -    |      |           | PCB-186  | ND    | 4.47 |      |           |
| PCB-137  | 971   | -    |      |           | PCB-187  | -     | -    | C182 | 182       |
| PCB-138  | 10000 | -    | C    | 163/164   | PCB-188  | ND    | 3.67 |      |           |
| PCB-139  | 18900 | -    | C    | 149       | PCB-189  | 11.3  | -    | J    |           |
| PCB-140  | 301   | -    |      |           | PCB-190  | 145   | -    |      |           |
| PCB-141  | 3140  | -    |      |           | PCB-191  | 34.8  | -    | J    |           |
| PCB-142  | ND    | 8.40 |      |           | PCB-192  | ND    | 5.22 |      |           |
| PCB-143  | -     | -    | C134 | 134       | PCB-193  | 90.1  | -    |      |           |
| PCB-144  | 1390  | -    |      |           | PCB-194  | 79.4  | -    |      |           |
| PCB-145  | 27.4  | -    | J    |           | PCB-195  | 80.3  | -    |      |           |
| PCB-146  | 2010  | -    | C    | 165       | PCB-196  | 270   | -    | C    | 203       |
| PCB-147  | 713   | -    |      |           | PCB-197  | 27.1  | -    | J    |           |
| PCB-148  | 129   | -    |      |           | PCB-198  | 26.3  | -    | J    |           |
| PCB-149  | -     | -    | C139 | 139       | PCB-199  | 278   | -    |      |           |
| PCB-150  | 55.9  | -    |      |           | PCB-200  | 81.5  | -    |      |           |

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# EPA Modified Method 1668 PCBs



FAL ID: 8158-002-SA  
Client ID: HC20131102-A-2  
Matrix: PUF  
Batch No: X2965

Date Extracted: 11-06-2013  
Date Received: 11-05-2013  
Amount: 1.00 sample

ICal: DAILY209FAL4-11-7-13  
GC Column: DB1  
Units: pg/sample

Acquired: 11-07-2013

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| Compound | Conc | DL   | Qual | Coeluters |
|----------|------|------|------|-----------|
| PCB-201  | 102  | -    |      |           |
| PCB-202  | 115  | -    |      |           |
| PCB-203  | -    | -    | C196 | 196       |
| PCB-204  | ND   | 2.76 |      |           |
| PCB-205  | ND   | 5.47 |      |           |
| PCB-206  | 10.3 | -    | J    |           |
| PCB-207  | ND   | 6.89 |      |           |
| PCB-208  | 11.3 | -    | J    |           |
| PCB-209  | ND   | 4.02 |      |           |

| Internal Standards | % Rec | QC Limits  | Qual |
|--------------------|-------|------------|------|
| 13C-PCB-1          | 105   | 5.00 - 145 |      |
| 13C-PCB-3          | 104   | 5.00 - 145 |      |
| 13C-PCB-4          | 109   | 5.00 - 145 |      |
| 13C-PCB-15         | 119   | 5.00 - 145 |      |
| 13C-PCB-19         | 105   | 5.00 - 145 |      |
| 13C-PCB-37         | 136   | 5.00 - 145 |      |
| 13C-PCB-54         | 110   | 5.00 - 145 |      |
| 13C-PCB-77         | 126   | 10.0 - 145 |      |
| 13C-PCB-81         | 131   | 10.0 - 145 |      |
| 13C-PCB-104        | 113   | 10.0 - 145 |      |
| 13C-PCB-105        | 130   | 10.0 - 145 |      |
| 13C-PCB-114        | 132   | 10.0 - 145 |      |
| 13C-PCB-118        | 132   | 10.0 - 145 |      |
| 13C-PCB-123        | 130   | 10.0 - 145 |      |
| 13C-PCB-126        | 132   | 10.0 - 145 |      |
| 13C-PCB-155        | 106   | 10.0 - 145 |      |
| 13C-PCB-156        | 125   | 10.0 - 145 |      |
| 13C-PCB-157        | 125   | 10.0 - 145 |      |
| 13C-PCB-167        | 127   | 10.0 - 145 |      |
| 13C-PCB-169        | 134   | 10.0 - 145 |      |
| 13C-PCB-188        | 118   | 10.0 - 145 |      |
| 13C-PCB-189        | 129   | 10.0 - 145 |      |
| 13C-PCB-202        | 111   | 10.0 - 145 |      |
| 13C-PCB-205        | 114   | 10.0 - 145 |      |
| 13C-PCB-206        | 110   | 10.0 - 145 |      |
| 13C-PCB-208        | 110   | 10.0 - 145 |      |
| 13C-PCB-209        | 104   | 10.0 - 145 |      |

| Pre-Spike Standards | % Rec | QC Limits  | Qual |
|---------------------|-------|------------|------|
| 13C-PCB-28          | 131   | 5.00 - 145 |      |
| 13C-PCB-111         | 119   | 10.0 - 145 |      |
| 13C-PCB-178         | 111   | 10.0 - 145 |      |

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Coelution
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- \* Result taken from dilution or reinjection

Analyst:   
Date: 11/13/2013

Reviewed By:   
Date: 11/13/2013

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# EPA Modified Method 1668 PCBs



FAL ID: 8158-003-SA  
Client ID: HC20131102-A-3  
Matrix: PUF  
Batch No: X2965

Date Extracted: 11-06-2013  
Date Received: 11-05-2013  
Amount: 1.00 sample

ICal: DAILY209FAL4-11-7-13  
GC Column: DB1  
Units: pg/sample

Acquired: 11-07-2013  
Total Conc: 163000

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| Compound | Conc  | DL   | Qual | Coeluters | Compound | Conc | DL   | Qual | Coeluters |
|----------|-------|------|------|-----------|----------|------|------|------|-----------|
| PCB-1    | 6650  | -    |      |           | PCB-51   | 350  | -    |      |           |
| PCB-2    | 1060  | -    |      |           | PCB-52   | 9610 | -    | C    | 69        |
| PCB-3    | 4150  | -    |      |           | PCB-53   | 1140 | -    | J    |           |
| PCB-4    | 2810  | -    |      |           | PCB-54   | 14.1 | -    |      |           |
| PCB-5    | 286   | -    |      |           | PCB-55   | 68.3 | -    |      |           |
| PCB-6    | 1650  | -    |      |           | PCB-56   | 1590 | -    | C    | 60        |
| PCB-7    | 738   | -    |      |           | PCB-57   | 17.3 | -    | J    |           |
| PCB-8    | 8750  | -    |      |           | PCB-58   | ND   | 6.84 |      |           |
| PCB-9    | 670   | -    |      |           | PCB-59   | -    | -    | C042 | 42        |
| PCB-10   | 269   | -    |      |           | PCB-60   | -    | -    | C056 | 56        |
| PCB-11   | 6170  | -    | B    |           | PCB-61   | 5160 | -    | C    | 70        |
| PCB-12   | 173   | -    |      |           | PCB-62   | ND   | 6.16 |      |           |
| PCB-13   | 322   | -    |      |           | PCB-63   | 129  | -    |      |           |
| PCB-14   | ND    | 9.03 |      |           | PCB-64   | -    | -    | C041 | 41/71/72  |
| PCB-15   | 1310  | -    |      |           | PCB-65   | ND   | 6.99 |      |           |
| PCB-16   | 2070  | -    |      |           | PCB-66   | 2940 | -    | C    | 76        |
| PCB-17   | 3540  | -    |      |           | PCB-67   | 96.6 | -    |      |           |
| PCB-18   | 11700 | -    |      |           | PCB-68   | 36.8 | -    | J    |           |
| PCB-19   | 677   | -    |      |           | PCB-69   | -    | -    | C052 | 52        |
| PCB-20   | 4290  | -    | C    | 21/33     | PCB-70   | -    | -    | C061 | 61        |
| PCB-21   | -     | -    | C020 | 20/33     | PCB-71   | -    | -    | C041 | 41/64/72  |
| PCB-22   | 2160  | -    |      |           | PCB-72   | -    | -    | C041 | 41/64/71  |
| PCB-23   | 12.4  | -    | J    |           | PCB-73   | 193  | -    |      |           |
| PCB-24   | 108   | -    |      |           | PCB-74   | 1480 | -    |      |           |
| PCB-25   | 427   | -    |      |           | PCB-75   | -    | -    | C048 | 48        |
| PCB-26   | 1090  | -    |      |           | PCB-76   | -    | -    | C066 | 66        |
| PCB-27   | 491   | -    |      |           | PCB-77   | 114  | -    |      |           |
| PCB-28   | 6710  | -    |      |           | PCB-78   | 11.8 | -    | J    |           |
| PCB-29   | 58.1  | -    |      |           | PCB-79   | 42.7 | -    |      |           |
| PCB-30   | ND    | 4.25 |      |           | PCB-80   | ND   | 5.16 |      |           |
| PCB-31   | 7030  | -    |      |           | PCB-81   | 65.8 | -    |      |           |
| PCB-32   | 2620  | -    |      |           | PCB-82   | 308  | -    |      |           |
| PCB-33   | -     | -    | C020 | 20/21     | PCB-83   | 156  | -    | C    | 112       |
| PCB-34   | 30.9  | -    | J    |           | PCB-84   | 2060 | -    | C    | 92        |
| PCB-35   | 75.2  | -    |      |           | PCB-85   | 443  | -    | C    | 116       |
| PCB-36   | 16.1  | -    | J    |           | PCB-86   | 22.8 | -    | J    |           |
| PCB-37   | 594   | -    |      |           | PCB-87   | 1280 | -    | C    | 117/125   |
| PCB-38   | 24.4  | -    | J    |           | PCB-88   | 806  | -    | C    | 91        |
| PCB-39   | ND    | 5.53 |      |           | PCB-89   | 62.3 | -    |      |           |
| PCB-40   | 656   | -    |      |           | PCB-90   | 5450 | -    | C    | 101       |
| PCB-41   | 3790  | -    | C    | 64/71/72  | PCB-91   | -    | -    | C088 | 88        |
| PCB-42   | 1300  | -    | C    | 59        | PCB-92   | -    | -    | C084 | 84        |
| PCB-43   | 3780  | -    | C    | 49        | PCB-93   | ND   | 4.74 |      |           |
| PCB-44   | 4320  | -    |      |           | PCB-94   | 34.8 | -    | J    |           |
| PCB-45   | 1030  | -    |      |           | PCB-95   | 5350 | -    |      |           |
| PCB-46   | 389   | -    |      |           | PCB-96   | 58.2 | -    |      |           |
| PCB-47   | 1370  | -    |      |           | PCB-97   | 1040 | -    |      |           |
| PCB-48   | 1160  | -    | C    | 75        | PCB-98   | ND   | 4.64 | C    | 102       |
| PCB-49   | -     | -    | C043 | 43        | PCB-99   | 1440 | -    |      |           |
| PCB-50   | 23.3  | -    | J    |           | PCB-100  | 18.8 | -    | J    |           |

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# EPA Modified Method 1668 PCBs



FAL ID: 8158-003-SA  
Client ID: HC20131102-A-3  
Matrix: PUF  
Batch No: X2965

Date Extracted: 11-06-2013  
Date Received: 11-05-2013  
Amount: 1.00 sample

ICal: DAILY209FAL4-11-7-13  
GC Column: DB1  
Units: pg/sample

Acquired: 11-07-2013

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| Compound | Conc | DL   | Qual | Coeluters | Compound | Conc | DL   | Qual | Coeluters |
|----------|------|------|------|-----------|----------|------|------|------|-----------|
| PCB-101  | -    | -    | C090 | 90        | PCB-151  | 1600 | -    |      |           |
| PCB-102  | -    | -    | C098 | 98        | PCB-152  | ND   | 6.32 |      |           |
| PCB-103  | 43.2 | -    |      |           | PCB-153  | 2540 | -    |      |           |
| PCB-104  | ND   | 2.63 |      |           | PCB-154  | 22.5 | -    | J    |           |
| PCB-105  | 448  | -    |      |           | PCB-155  | 10.7 | -    | J    |           |
| PCB-106  | 1760 | -    | C    | 118       | PCB-156  | 75.4 | -    |      |           |
| PCB-107  | 113  | -    | C    | 108       | PCB-157  | ND   | 7.74 |      |           |
| PCB-108  | -    | -    | C107 | 107       | PCB-158  | 243  | -    | C    | 160       |
| PCB-109  | ND   | 8.73 |      |           | PCB-159  | 26.8 | -    | J    |           |
| PCB-110  | 2290 | -    |      |           | PCB-160  | -    | -    | C158 | 158       |
| PCB-111  | 93.2 | -    | C    | 115       | PCB-161  | -    | -    | C132 | 132       |
| PCB-112  | -    | -    | C083 | 83        | PCB-162  | -    | -    | C128 | 128       |
| PCB-113  | ND   | 9.63 |      |           | PCB-163  | -    | -    | C138 | 138/164   |
| PCB-114  | 59.8 | -    |      |           | PCB-164  | -    | -    | C138 | 138/163   |
| PCB-115  | -    | -    | C111 | 111       | PCB-165  | -    | -    | C146 | 146       |
| PCB-116  | -    | -    | C085 | 85        | PCB-166  | ND   | 6.60 |      |           |
| PCB-117  | -    | -    | C087 | 87/125    | PCB-167  | 30.7 | -    | J    |           |
| PCB-118  | -    | -    | C106 | 106       | PCB-168  | ND   | 6.81 |      |           |
| PCB-119  | 52.6 | -    |      |           | PCB-169  | ND   | 5.58 |      |           |
| PCB-120  | 12.0 | -    | J    |           | PCB-170  | 189  | -    |      |           |
| PCB-121  | ND   | 3.90 |      |           | PCB-171  | 133  | -    |      |           |
| PCB-122  | 18.7 | -    | J    |           | PCB-172  | 47.6 | -    |      |           |
| PCB-123  | 35.4 | -    | J    |           | PCB-173  | ND   | 9.25 |      |           |
| PCB-124  | 122  | -    |      |           | PCB-174  | 583  | -    |      |           |
| PCB-125  | -    | -    | C087 | 87/117    | PCB-175  | 35.9 | -    | J    |           |
| PCB-126  | ND   | 5.62 |      |           | PCB-176  | 193  | -    |      |           |
| PCB-127  | ND   | 6.79 |      |           | PCB-177  | 329  | -    |      |           |
| PCB-128  | 153  | -    | C    | 162       | PCB-178  | 173  | -    |      |           |
| PCB-129  | 69.5 | -    |      |           | PCB-179  | 638  | -    |      |           |
| PCB-130  | 102  | -    |      |           | PCB-180  | 523  | -    |      |           |
| PCB-131  | 85.3 | -    | C    | 133       | PCB-181  | ND   | 8.33 |      |           |
| PCB-132  | 931  | -    | C    | 161       | PCB-182  | 803  | -    | C    | 187       |
| PCB-133  | -    | -    | C131 | 131       | PCB-183  | 393  | -    |      |           |
| PCB-134  | 217  | -    | C    | 143       | PCB-184  | ND   | 5.49 |      |           |
| PCB-135  | 741  | -    |      |           | PCB-185  | 95.8 | -    |      |           |
| PCB-136  | 1070 | -    |      |           | PCB-186  | ND   | 6.03 |      |           |
| PCB-137  | 71.7 | -    |      |           | PCB-187  | -    | -    | C182 | 182       |
| PCB-138  | 1880 | -    | C    | 163/164   | PCB-188  | ND   | 4.60 |      |           |
| PCB-139  | 4110 | -    | C    | 149       | PCB-189  | ND   | 4.89 |      |           |
| PCB-140  | 29.9 | -    | J    |           | PCB-190  | 42.6 | -    |      |           |
| PCB-141  | 731  | -    |      |           | PCB-191  | ND   | 6.47 |      |           |
| PCB-142  | ND   | 9.46 |      |           | PCB-192  | ND   | 7.04 |      |           |
| PCB-143  | -    | -    | C134 | 134       | PCB-193  | 26.1 | -    | J    |           |
| PCB-144  | 345  | -    |      |           | PCB-194  | 23.7 | -    | J    |           |
| PCB-145  | ND   | 6.66 |      |           | PCB-195  | 23.9 | -    | J    |           |
| PCB-146  | 373  | -    | C    | 165       | PCB-196  | 96.1 | -    | C    | 203       |
| PCB-147  | 55.6 | -    |      |           | PCB-197  | 14.0 | -    | J    |           |
| PCB-148  | 28.7 | -    | J    |           | PCB-198  | ND   | 9.66 |      |           |
| PCB-149  | -    | -    | C139 | 139       | PCB-199  | 95.3 | -    |      |           |
| PCB-150  | ND   | 6.68 |      |           | PCB-200  | 32.3 | -    | J    |           |

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# EPA Modified Method 1668 PCBs



FAL ID: 8158-003-SA  
Client ID: HC20131102-A-3  
Matrix: PUF  
Batch No: X2965

Date Extracted: 11-06-2013  
Date Received: 11-05-2013  
Amount: 1.00 sample

ICal: DAILY209FAL4-11-7-13  
GC Column: DB1  
Units: pg/sample

Acquired: 11-07-2013

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| Compound | Conc | DL   | Qual | Coeluters |
|----------|------|------|------|-----------|
| PCB-201  | 41.8 | -    |      |           |
| PCB-202  | 54.0 | -    |      |           |
| PCB-203  | -    | -    | C196 | 196       |
| PCB-204  | ND   | 6.12 |      |           |
| PCB-205  | ND   | 2.74 |      |           |
| PCB-206  | ND   | 8.99 |      |           |
| PCB-207  | ND   | 9.17 |      |           |
| PCB-208  | ND   | 6.69 |      |           |
| PCB-209  | ND   | 4.12 |      |           |

| Internal Standards | % Rec | QC Limits  | Qual |
|--------------------|-------|------------|------|
| 13C-PCB-1          | 81.8  | 5.00 - 145 |      |
| 13C-PCB-3          | 85.7  | 5.00 - 145 |      |
| 13C-PCB-4          | 88.5  | 5.00 - 145 |      |
| 13C-PCB-15         | 95.5  | 5.00 - 145 |      |
| 13C-PCB-19         | 83.0  | 5.00 - 145 |      |
| 13C-PCB-37         | 108   | 5.00 - 145 |      |
| 13C-PCB-54         | 87.2  | 5.00 - 145 |      |
| 13C-PCB-77         | 100   | 10.0 - 145 |      |
| 13C-PCB-81         | 101   | 10.0 - 145 |      |
| 13C-PCB-104        | 91.7  | 10.0 - 145 |      |
| 13C-PCB-105        | 101   | 10.0 - 145 |      |
| 13C-PCB-114        | 105   | 10.0 - 145 |      |
| 13C-PCB-118        | 103   | 10.0 - 145 |      |
| 13C-PCB-123        | 105   | 10.0 - 145 |      |
| 13C-PCB-126        | 102   | 10.0 - 145 |      |
| 13C-PCB-155        | 83.9  | 10.0 - 145 |      |
| 13C-PCB-156        | 94.2  | 10.0 - 145 |      |
| 13C-PCB-157        | 93.4  | 10.0 - 145 |      |
| 13C-PCB-167        | 97.4  | 10.0 - 145 |      |
| 13C-PCB-169        | 101   | 10.0 - 145 |      |
| 13C-PCB-188        | 88.8  | 10.0 - 145 |      |
| 13C-PCB-189        | 101   | 10.0 - 145 |      |
| 13C-PCB-202        | 83.9  | 10.0 - 145 |      |
| 13C-PCB-205        | 91.1  | 10.0 - 145 |      |
| 13C-PCB-206        | 86.8  | 10.0 - 145 |      |
| 13C-PCB-208        | 87.0  | 10.0 - 145 |      |
| 13C-PCB-209        | 83.9  | 10.0 - 145 |      |

| Pre-Spike Standards | % Rec | QC Limits  | Qual |
|---------------------|-------|------------|------|
| 13C-PCB-28          | 106   | 5.00 - 145 |      |
| 13C-PCB-111         | 92.8  | 10.0 - 145 |      |
| 13C-PCB-178         | 89.0  | 10.0 - 145 |      |

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Coelution
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- \* Result taken from dilution or reinjection

Analyst:   
Date: 11/13/2013

Reviewed By:   
Date: 11/13/2013

000015 of 000046

# EPA Modified Method 1668 PCBs



FAL ID: 8158-004-SA  
Client ID: HC20131102-A-4  
Matrix: PUF  
Batch No: X2965

Date Extracted: 11-06-2013  
Date Received: 11-05-2013  
Amount: 1.00 sample

ICal: DAILY209FAL4-11-7-13  
GC Column: DB1  
Units: pg/sample

Acquired: 11-07-2013  
Total Conc: 158000

Page 1 of 3

| Compound | Conc | DL   | Qual | Coeluters | Compound | Conc  | DL   | Qual | Coeluters |
|----------|------|------|------|-----------|----------|-------|------|------|-----------|
| PCB-1    | 779  | -    |      |           | PCB-51   | 130   | -    |      |           |
| PCB-2    | 143  | -    |      |           | PCB-52   | 9760  | -    | C    | 69        |
| PCB-3    | 410  | -    |      |           | PCB-53   | 482   | -    |      |           |
| PCB-4    | 771  | -    |      |           | PCB-54   | ND    | 4.69 |      |           |
| PCB-5    | 107  | -    |      |           | PCB-55   | 87.0  | -    |      |           |
| PCB-6    | 397  | -    |      |           | PCB-56   | 1470  | -    | C    | 60        |
| PCB-7    | 140  | -    |      |           | PCB-57   | 11.1  | -    | J    |           |
| PCB-8    | 2210 | -    |      |           | PCB-58   | ND    | 6.80 |      |           |
| PCB-9    | 143  | -    |      |           | PCB-59   | -     | -    | C042 | 42        |
| PCB-10   | 46.9 | -    |      |           | PCB-60   | -     | -    | C056 | 56        |
| PCB-11   | 4650 | -    | B    |           | PCB-61   | 6570  | -    | C    | 70        |
| PCB-12   | 41.5 | -    |      |           | PCB-62   | ND    | 6.13 |      |           |
| PCB-13   | 94.3 | -    |      |           | PCB-63   | 105   | -    |      |           |
| PCB-14   | ND   | 8.19 |      |           | PCB-64   | -     | -    | C041 | 41/71/72  |
| PCB-15   | 429  | -    |      |           | PCB-65   | ND    | 6.95 |      |           |
| PCB-16   | 638  | -    |      |           | PCB-66   | 2730  | -    | C    | 76        |
| PCB-17   | 1060 | -    |      |           | PCB-67   | 61.1  | -    |      |           |
| PCB-18   | 3280 | -    |      |           | PCB-68   | 31.2  | -    | J    |           |
| PCB-19   | 199  | -    |      |           | PCB-69   | -     | -    | C052 | 52        |
| PCB-20   | 1610 | -    | C    | 21/33     | PCB-70   | -     | -    | C061 | 61        |
| PCB-21   | -    | -    | C020 | 20/33     | PCB-71   | -     | -    | C041 | 41/64/72  |
| PCB-22   | 853  | -    |      |           | PCB-72   | -     | -    | C041 | 41/64/71  |
| PCB-23   | ND   | 5.30 |      |           | PCB-73   | 144   | -    |      |           |
| PCB-24   | 39.9 | -    | J    |           | PCB-74   | 1320  | -    |      |           |
| PCB-25   | 164  | -    |      |           | PCB-75   | -     | -    | C048 | 48        |
| PCB-26   | 404  | -    |      |           | PCB-76   | -     | -    | C066 | 66        |
| PCB-27   | 154  | -    |      |           | PCB-77   | 155   | -    |      |           |
| PCB-28   | 2140 | -    |      |           | PCB-78   | 25.7  | -    | J    |           |
| PCB-29   | 23.0 | -    | J    |           | PCB-79   | 107   | -    |      |           |
| PCB-30   | ND   | 2.98 |      |           | PCB-80   | ND    | 5.14 |      |           |
| PCB-31   | 2590 | -    |      |           | PCB-81   | 172   | -    |      |           |
| PCB-32   | 840  | -    |      |           | PCB-82   | 781   | -    |      |           |
| PCB-33   | -    | -    | C020 | 20/21     | PCB-83   | 381   | -    | C    | 112       |
| PCB-34   | 11.3 | -    | J    |           | PCB-84   | 4920  | -    | C    | 92        |
| PCB-35   | 53.8 | -    |      |           | PCB-85   | 1040  | -    | C    | 116       |
| PCB-36   | ND   | 5.25 |      |           | PCB-86   | 53.1  | -    |      |           |
| PCB-37   | 354  | -    |      |           | PCB-87   | 3470  | -    | C    | 117/125   |
| PCB-38   | 17.8 | -    | J    |           | PCB-88   | 1640  | -    | C    | 91        |
| PCB-39   | ND   | 5.53 |      |           | PCB-89   | 111   | -    |      |           |
| PCB-40   | 442  | -    |      |           | PCB-90   | 12800 | -    | C    | 101       |
| PCB-41   | 2520 | -    | C    | 64/71/72  | PCB-91   | -     | -    | C088 | 88        |
| PCB-42   | 715  | -    | C    | 59        | PCB-92   | -     | -    | C084 | 84        |
| PCB-43   | 2490 | -    | C    | 49        | PCB-93   | ND    | 5.69 |      |           |
| PCB-44   | 3910 | -    |      |           | PCB-94   | 51.9  | -    |      |           |
| PCB-45   | 385  | -    |      |           | PCB-95   | 11200 | -    |      |           |
| PCB-46   | 146  | -    |      |           | PCB-96   | 76.9  | -    |      |           |
| PCB-47   | 635  | -    |      |           | PCB-97   | 2680  | -    |      |           |
| PCB-48   | 532  | -    | C    | 75        | PCB-98   | ND    | 5.57 | C    | 102       |
| PCB-49   | -    | -    | C043 | 43        | PCB-99   | 3390  | -    |      |           |
| PCB-50   | ND   | 7.83 |      |           | PCB-100  | 24.0  | -    | J    |           |

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# EPA Modified Method 1668 PCBs



FAL ID: 8158-004-SA  
Client ID: HC20131102-A-4  
Matrix: PUF  
Batch No: X2965

Date Extracted: 11-06-2013  
Date Received: 11-05-2013  
Amount: 1.00 sample

ICal: DAILY209FAL4-11-7-13  
GC Column: DB1  
Units: pg/sample

Acquired: 11-07-2013

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| Compound | Conc | DL   | Qual | Coeluters | Compound | Conc | DL   | Qual | Coeluters |
|----------|------|------|------|-----------|----------|------|------|------|-----------|
| PCB-101  | -    | -    | C090 | 90        | PCB-151  | 2870 | -    |      |           |
| PCB-102  | -    | -    | C098 | 98        | PCB-152  | 12.6 | -    | J    |           |
| PCB-103  | 63.2 | -    |      |           | PCB-153  | 5440 | -    |      |           |
| PCB-104  | ND   | 2.28 |      |           | PCB-154  | 55.5 | -    |      |           |
| PCB-105  | 1250 | -    |      |           | PCB-155  | ND   | 5.77 |      |           |
| PCB-106  | 4740 | -    | C    | 118       | PCB-156  | 181  | -    |      |           |
| PCB-107  | 323  | -    | C    | 108       | PCB-157  | 29.1 | -    | J    |           |
| PCB-108  | -    | -    | C107 | 107       | PCB-158  | 583  | -    | C    | 160       |
| PCB-109  | ND   | 8.76 |      |           | PCB-159  | 55.0 | -    |      |           |
| PCB-110  | 6340 | -    |      |           | PCB-160  | -    | -    | C158 | 158       |
| PCB-111  | 212  | -    | C    | 115       | PCB-161  | -    | -    | C132 | 132       |
| PCB-112  | -    | -    | C083 | 83        | PCB-162  | -    | -    | C128 | 128       |
| PCB-113  | ND   | 9.65 |      |           | PCB-163  | -    | -    | C138 | 138/164   |
| PCB-114  | 128  | -    |      |           | PCB-164  | -    | -    | C138 | 138/163   |
| PCB-115  | -    | -    | C111 | 111       | PCB-165  | -    | -    | C146 | 146       |
| PCB-116  | -    | -    | C085 | 85        | PCB-166  | 13.6 | -    | J    |           |
| PCB-117  | -    | -    | C087 | 87/125    | PCB-167  | 87.1 | -    |      |           |
| PCB-118  | -    | -    | C106 | 106       | PCB-168  | ND   | 6.21 |      |           |
| PCB-119  | 111  | -    |      |           | PCB-169  | ND   | 4.72 |      |           |
| PCB-120  | 30.2 | -    | J    |           | PCB-170  | 441  | -    |      |           |
| PCB-121  | ND   | 4.68 |      |           | PCB-171  | 263  | -    |      |           |
| PCB-122  | 50.5 | -    |      |           | PCB-172  | 108  | -    |      |           |
| PCB-123  | 93.2 | -    |      |           | PCB-173  | 23.5 | -    | J    |           |
| PCB-124  | 351  | -    |      |           | PCB-174  | 1140 | -    |      |           |
| PCB-125  | -    | -    | C087 | 87/117    | PCB-175  | 72.0 | -    |      |           |
| PCB-126  | 18.4 | -    | J    |           | PCB-176  | 325  | -    |      |           |
| PCB-127  | ND   | 5.84 |      |           | PCB-177  | 653  | -    |      |           |
| PCB-128  | 424  | -    | C    | 162       | PCB-178  | 312  | -    |      |           |
| PCB-129  | 182  | -    |      |           | PCB-179  | 1070 | -    |      |           |
| PCB-130  | 251  | -    |      |           | PCB-180  | 1130 | -    |      |           |
| PCB-131  | 202  | -    | C    | 133       | PCB-181  | 24.0 | -    | J    |           |
| PCB-132  | 1850 | -    | C    | 161       | PCB-182  | 1470 | -    | C    | 187       |
| PCB-133  | -    | -    | C131 | 131       | PCB-183  | 748  | -    |      |           |
| PCB-134  | 506  | -    | C    | 143       | PCB-184  | ND   | 5.48 |      |           |
| PCB-135  | 1570 | -    |      |           | PCB-185  | 188  | -    |      |           |
| PCB-136  | 2260 | -    |      |           | PCB-186  | ND   | 6.01 |      |           |
| PCB-137  | 248  | -    |      |           | PCB-187  | -    | -    | C182 | 182       |
| PCB-138  | 4140 | -    | C    | 163/164   | PCB-188  | ND   | 4.89 |      |           |
| PCB-139  | 8090 | -    | C    | 149       | PCB-189  | ND   | 4.52 |      |           |
| PCB-140  | 215  | -    |      |           | PCB-190  | 93.2 | -    |      |           |
| PCB-141  | 1410 | -    |      |           | PCB-191  | 21.2 | -    | J    |           |
| PCB-142  | ND   | 8.62 |      |           | PCB-192  | ND   | 7.02 |      |           |
| PCB-143  | -    | -    | C134 | 134       | PCB-193  | 64.3 | -    |      |           |
| PCB-144  | 628  | -    |      |           | PCB-194  | 56.5 | -    |      |           |
| PCB-145  | ND   | 8.62 |      |           | PCB-195  | 55.3 | -    |      |           |
| PCB-146  | 801  | -    | C    | 165       | PCB-196  | 185  | -    | C    | 203       |
| PCB-147  | 182  | -    |      |           | PCB-197  | 22.4 | -    | J    |           |
| PCB-148  | 75.5 | -    |      |           | PCB-198  | 14.1 | -    | J    |           |
| PCB-149  | -    | -    | C139 | 139       | PCB-199  | 199  | -    |      |           |
| PCB-150  | 14.3 | -    | J    |           | PCB-200  | 59.4 | -    |      |           |

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# EPA Modified Method 1668 PCBs



FAL ID: 8158-004-SA  
Client ID: HC20131102-A-4  
Matrix: PUF  
Batch No: X2965

Date Extracted: 11-06-2013  
Date Received: 11-05-2013  
Amount: 1.00 sample

ICal: DAILY209FAL4-11-7-13  
GC Column: DB1  
Units: pg/sample

Acquired: 11-07-2013

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| Compound | Conc | DL   | Qual | Coeluters |
|----------|------|------|------|-----------|
| PCB-201  | 72.7 | -    |      |           |
| PCB-202  | 79.8 | -    |      |           |
| PCB-203  | -    | -    | C196 | 196       |
| PCB-204  | ND   | 2.39 |      |           |
| PCB-205  | ND   | 3.39 |      |           |
| PCB-206  | ND   | 9.50 |      |           |
| PCB-207  | ND   | 9.77 |      |           |
| PCB-208  | ND   | 7.21 |      |           |
| PCB-209  | ND   | 3.39 |      |           |

| Internal Standards | % Rec | QC Limits  | Qual |
|--------------------|-------|------------|------|
| 13C-PCB-1          | 86.3  | 5.00 - 145 |      |
| 13C-PCB-3          | 88.7  | 5.00 - 145 |      |
| 13C-PCB-4          | 96.0  | 5.00 - 145 |      |
| 13C-PCB-15         | 99.5  | 5.00 - 145 |      |
| 13C-PCB-19         | 87.8  | 5.00 - 145 |      |
| 13C-PCB-37         | 107   | 5.00 - 145 |      |
| 13C-PCB-54         | 94.1  | 5.00 - 145 |      |
| 13C-PCB-77         | 101   | 10.0 - 145 |      |
| 13C-PCB-81         | 103   | 10.0 - 145 |      |
| 13C-PCB-104        | 93.9  | 10.0 - 145 |      |
| 13C-PCB-105        | 103   | 10.0 - 145 |      |
| 13C-PCB-114        | 107   | 10.0 - 145 |      |
| 13C-PCB-118        | 109   | 10.0 - 145 |      |
| 13C-PCB-123        | 108   | 10.0 - 145 |      |
| 13C-PCB-126        | 103   | 10.0 - 145 |      |
| 13C-PCB-155        | 85.3  | 10.0 - 145 |      |
| 13C-PCB-156        | 97.0  | 10.0 - 145 |      |
| 13C-PCB-157        | 95.4  | 10.0 - 145 |      |
| 13C-PCB-167        | 101   | 10.0 - 145 |      |
| 13C-PCB-169        | 101   | 10.0 - 145 |      |
| 13C-PCB-188        | 94.5  | 10.0 - 145 |      |
| 13C-PCB-189        | 103   | 10.0 - 145 |      |
| 13C-PCB-202        | 88.0  | 10.0 - 145 |      |
| 13C-PCB-205        | 93.6  | 10.0 - 145 |      |
| 13C-PCB-206        | 92.1  | 10.0 - 145 |      |
| 13C-PCB-208        | 92.4  | 10.0 - 145 |      |
| 13C-PCB-209        | 91.3  | 10.0 - 145 |      |

| Pre-Spike Standards | % Rec | QC Limits  | Qual |
|---------------------|-------|------------|------|
| 13C-PCB-28          | 105   | 5.00 - 145 |      |
| 13C-PCB-111         | 95.4  | 10.0 - 145 |      |
| 13C-PCB-178         | 91.2  | 10.0 - 145 |      |

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Coelution
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- \* Result taken from dilution or reinjection

Analyst:   
Date: 11/13/2013

Reviewed By:   
Date: 11/13/2013

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# EPA Modified Method 1668 PCBs



FAL ID: 8158-005-SA  
Client ID: HC20131102-A-5  
Matrix: PUF  
Batch No: X2965

Date Extracted: 11-06-2013  
Date Received: 11-05-2013  
Amount: 1.00 sample

ICal: DAILY209FAL4-11-7-13  
GC Column: DB1  
Units: pg/sample

Acquired: 11-07-2013  
Total Conc: 269000

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| Compound | Conc | DL   | Qual | Coeluters | Compound | Conc  | DL   | Qual | Coeluters |
|----------|------|------|------|-----------|----------|-------|------|------|-----------|
| PCB-1    | 185  | -    |      |           | PCB-51   | 104   | -    |      |           |
| PCB-2    | 77.5 | -    |      |           | PCB-52   | 10900 | -    | C    | 69        |
| PCB-3    | 171  | -    |      |           | PCB-53   | 310   | -    |      |           |
| PCB-4    | 388  | -    |      |           | PCB-54   | ND    | 3.07 |      |           |
| PCB-5    | 98.5 | -    |      |           | PCB-55   | 155   | -    |      |           |
| PCB-6    | 217  | -    |      |           | PCB-56   | 1910  | -    | C    | 60        |
| PCB-7    | 88.6 | -    |      |           | PCB-57   | 13.6  | -    | J    |           |
| PCB-8    | 1150 | -    |      |           | PCB-58   | ND    | 4.46 |      |           |
| PCB-9    | 63.4 | -    |      |           | PCB-59   | -     | -    | C042 | 42        |
| PCB-10   | 29.3 | -    | J    |           | PCB-60   | -     | -    | C056 | 56        |
| PCB-11   | 6530 | -    | B    |           | PCB-61   | 13000 | -    | C    | 70        |
| PCB-12   | 19.8 | -    | J    |           | PCB-62   | ND    | 4.02 |      |           |
| PCB-13   | 56.0 | -    |      |           | PCB-63   | 148   | -    |      |           |
| PCB-14   | ND   | 8.53 |      |           | PCB-64   | -     | -    | C041 | 41/71/72  |
| PCB-15   | 239  | -    |      |           | PCB-65   | ND    | 4.56 |      |           |
| PCB-16   | 376  | -    |      |           | PCB-66   | 4010  | -    | C    | 76        |
| PCB-17   | 564  | -    |      |           | PCB-67   | 74.7  | -    |      |           |
| PCB-18   | 1750 | -    |      |           | PCB-68   | 36.8  | -    | J    |           |
| PCB-19   | 107  | -    |      |           | PCB-69   | -     | -    | C052 | 52        |
| PCB-20   | 915  | -    | C    | 21/33     | PCB-70   | -     | -    | C061 | 61        |
| PCB-21   | -    | -    | C020 | 20/33     | PCB-71   | -     | -    | C041 | 41/64/72  |
| PCB-22   | 496  | -    |      |           | PCB-72   | -     | -    | C041 | 41/64/71  |
| PCB-23   | ND   | 5.42 |      |           | PCB-73   | 204   | -    |      |           |
| PCB-24   | 34.5 | -    | J    |           | PCB-74   | 1980  | -    |      |           |
| PCB-25   | 93.4 | -    |      |           | PCB-75   | -     | -    | C048 | 48        |
| PCB-26   | 240  | -    |      |           | PCB-76   | -     | -    | C066 | 66        |
| PCB-27   | 71.4 | -    |      |           | PCB-77   | 262   | -    |      |           |
| PCB-28   | 1300 | -    |      |           | PCB-78   | 66.2  | -    |      |           |
| PCB-29   | 13.4 | -    | J    |           | PCB-79   | 241   | -    |      |           |
| PCB-30   | ND   | 1.63 |      |           | PCB-80   | ND    | 3.37 |      |           |
| PCB-31   | 1370 | -    |      |           | PCB-81   | 413   | -    |      |           |
| PCB-32   | 410  | -    |      |           | PCB-82   | 2070  | -    |      |           |
| PCB-33   | -    | -    | C020 | 20/21     | PCB-83   | 957   | -    | C    | 112       |
| PCB-34   | ND   | 6.51 |      |           | PCB-84   | 10900 | -    | C    | 92        |
| PCB-35   | 66.6 | -    |      |           | PCB-85   | 2650  | -    | C    | 116       |
| PCB-36   | 12.6 | -    | J    |           | PCB-86   | 130   | -    |      |           |
| PCB-37   | 276  | -    |      |           | PCB-87   | 8780  | -    | C    | 117/125   |
| PCB-38   | 12.6 | -    | J    |           | PCB-88   | 3330  | -    | C    | 91        |
| PCB-39   | ND   | 5.64 |      |           | PCB-89   | 189   | -    |      |           |
| PCB-40   | 468  | -    |      |           | PCB-90   | 28900 | -    | C    | 101       |
| PCB-41   | 2720 | -    | C    | 64/71/72  | PCB-91   | -     | -    | C088 | 88        |
| PCB-42   | 624  | -    | C    | 59        | PCB-92   | -     | -    | C084 | 84        |
| PCB-43   | 2350 | -    | C    | 49        | PCB-93   | ND    | 3.58 |      |           |
| PCB-44   | 4640 | -    |      |           | PCB-94   | 85.5  | -    |      |           |
| PCB-45   | 231  | -    |      |           | PCB-95   | 21800 | -    |      |           |
| PCB-46   | 87.5 | -    |      |           | PCB-96   | 107   | -    |      |           |
| PCB-47   | 579  | -    |      |           | PCB-97   | 6810  | -    |      |           |
| PCB-48   | 378  | -    | C    | 75        | PCB-98   | ND    | 3.51 | C    | 102       |
| PCB-49   | -    | -    | C043 | 43        | PCB-99   | 8130  | -    |      |           |
| PCB-50   | ND   | 5.12 |      |           | PCB-100  | 43.9  | -    |      |           |

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# EPA Modified Method 1668 PCBs



FAL ID: 8158-005-SA  
Client ID: HC20131102-A-5  
Matrix: PUF  
Batch No: X2965

Date Extracted: 11-06-2013  
Date Received: 11-05-2013  
Amount: 1.00 sample

ICal: DAILY209FAL4-11-7-13  
GC Column: DB1  
Units: pg/sample

Acquired: 11-07-2013

Page 2 of 3

| Compound | Conc  | DL   | Qual | Coeluters | Compound | Conc | DL   | Qual | Coeluters |
|----------|-------|------|------|-----------|----------|------|------|------|-----------|
| PCB-101  | -     | -    | C090 | 90        | PCB-151  | 4300 | -    |      |           |
| PCB-102  | -     | -    | C098 | 98        | PCB-152  | 28.8 | -    | J    |           |
| PCB-103  | 104   | -    |      |           | PCB-153  | 9650 | -    |      |           |
| PCB-104  | ND    | 1.99 |      |           | PCB-154  | 148  | -    |      |           |
| PCB-105  | 3670  | -    |      |           | PCB-155  | ND   | 6.60 |      |           |
| PCB-106  | 14300 | -    | C    | 118       | PCB-156  | 398  | -    |      |           |
| PCB-107  | 920   | -    | C    | 108       | PCB-157  | 74.8 | -    |      |           |
| PCB-108  | -     | -    | C107 | 107       | PCB-158  | 1160 | -    | C    | 160       |
| PCB-109  | ND    | 8.00 |      |           | PCB-159  | 59.8 | -    |      |           |
| PCB-110  | 16800 | -    |      |           | PCB-160  | -    | -    | C158 | 158       |
| PCB-111  | 515   | -    | C    | 115       | PCB-161  | -    | -    | C132 | 132       |
| PCB-112  | -     | -    | C083 | 83        | PCB-162  | -    | -    | C128 | 128       |
| PCB-113  | ND    | 8.82 |      |           | PCB-163  | -    | -    | C138 | 138/164   |
| PCB-114  | 391   | -    |      |           | PCB-164  | -    | -    | C138 | 138/163   |
| PCB-115  | -     | -    | C111 | 111       | PCB-165  | -    | -    | C146 | 146       |
| PCB-116  | -     | -    | C085 | 85        | PCB-166  | 37.2 | -    | J    |           |
| PCB-117  | -     | -    | C087 | 87/125    | PCB-167  | 215  | -    |      |           |
| PCB-118  | -     | -    | C106 | 106       | PCB-168  | ND   | 3.40 |      |           |
| PCB-119  | 264   | -    |      |           | PCB-169  | ND   | 2.91 |      |           |
| PCB-120  | 44.1  | -    |      |           | PCB-170  | 658  | -    |      |           |
| PCB-121  | ND    | 2.95 |      |           | PCB-171  | 387  | -    |      |           |
| PCB-122  | 122   | -    |      |           | PCB-172  | 153  | -    |      |           |
| PCB-123  | 239   | -    |      |           | PCB-173  | 40.5 | -    |      |           |
| PCB-124  | 876   | -    |      |           | PCB-174  | 1540 | -    |      |           |
| PCB-125  | -     | -    | C087 | 87/117    | PCB-175  | 93.5 | -    |      |           |
| PCB-126  | 41.2  | -    |      |           | PCB-176  | 448  | -    |      |           |
| PCB-127  | ND    | 8.23 |      |           | PCB-177  | 942  | -    |      |           |
| PCB-128  | 1030  | -    | C    | 162       | PCB-178  | 416  | -    |      |           |
| PCB-129  | 486   | -    |      |           | PCB-179  | 1410 | -    |      |           |
| PCB-130  | 636   | -    |      |           | PCB-180  | 1630 | -    |      |           |
| PCB-131  | 496   | -    | C    | 133       | PCB-181  | 33.4 | -    | J    |           |
| PCB-132  | 4390  | -    | C    | 161       | PCB-182  | 1910 | -    | C    | 187       |
| PCB-133  | -     | -    | C131 | 131       | PCB-183  | 982  | -    |      |           |
| PCB-134  | 1120  | -    | C    | 143       | PCB-184  | ND   | 7.38 |      |           |
| PCB-135  | 2620  | -    |      |           | PCB-185  | 232  | -    |      |           |
| PCB-136  | 4150  | -    |      |           | PCB-186  | ND   | 8.10 |      |           |
| PCB-137  | 682   | -    |      |           | PCB-187  | -    | -    | C182 | 182       |
| PCB-138  | 8310  | -    | C    | 163/164   | PCB-188  | ND   | 6.55 |      |           |
| PCB-139  | 14300 | -    | C    | 149       | PCB-189  | 10.5 | -    | J    |           |
| PCB-140  | 155   | -    |      |           | PCB-190  | 144  | -    |      |           |
| PCB-141  | 2510  | -    |      |           | PCB-191  | 32.9 | -    | J    |           |
| PCB-142  | ND    | 4.73 |      |           | PCB-192  | ND   | 9.46 |      |           |
| PCB-143  | -     | -    | C134 | 134       | PCB-193  | 83.3 | -    |      |           |
| PCB-144  | 1150  | -    |      |           | PCB-194  | 77.5 | -    |      |           |
| PCB-145  | ND    | 9.84 |      |           | PCB-195  | 73.0 | -    |      |           |
| PCB-146  | 1580  | -    | C    | 165       | PCB-196  | 253  | -    | C    | 203       |
| PCB-147  | 396   | -    |      |           | PCB-197  | 28.4 | -    | J    |           |
| PCB-148  | 47.6  | -    |      |           | PCB-198  | 18.7 | -    | J    |           |
| PCB-149  | -     | -    | C139 | 139       | PCB-199  | 262  | -    |      |           |
| PCB-150  | 29.2  | -    | J    |           | PCB-200  | 81.4 | -    |      |           |

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# EPA Modified Method 1668 PCBs



FAL ID: 8158-005-SA  
Client ID: HC20131102-A-5  
Matrix: PUF  
Batch No: X2965

Date Extracted: 11-06-2013  
Date Received: 11-05-2013  
Amount: 1.00 sample

ICal: DAILY209FAL4-11-7-13  
GC Column: DB1  
Units: pg/sample

Acquired: 11-07-2013

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| Compound | Conc | DL   | Qual | Coeluters |
|----------|------|------|------|-----------|
| PCB-201  | 92.9 | -    |      |           |
| PCB-202  | 102  | -    |      |           |
| PCB-203  | -    | -    | C196 | 196       |
| PCB-204  | ND   | 2.13 |      |           |
| PCB-205  | ND   | 5.15 |      |           |
| PCB-206  | 11.2 | -    | J    |           |
| PCB-207  | ND   | 5.19 |      |           |
| PCB-208  | 11.6 | -    | J    |           |
| PCB-209  | ND   | 3.48 |      |           |

| Internal Standards | % Rec | QC Limits  | Qual |
|--------------------|-------|------------|------|
| 13C-PCB-1          | 83.3  | 5.00 - 145 |      |
| 13C-PCB-3          | 84.5  | 5.00 - 145 |      |
| 13C-PCB-4          | 93.0  | 5.00 - 145 |      |
| 13C-PCB-15         | 99.1  | 5.00 - 145 |      |
| 13C-PCB-19         | 88.0  | 5.00 - 145 |      |
| 13C-PCB-37         | 114   | 5.00 - 145 |      |
| 13C-PCB-54         | 91.7  | 5.00 - 145 |      |
| 13C-PCB-77         | 104   | 10.0 - 145 |      |
| 13C-PCB-81         | 106   | 10.0 - 145 |      |
| 13C-PCB-104        | 97.0  | 10.0 - 145 |      |
| 13C-PCB-105        | 107   | 10.0 - 145 |      |
| 13C-PCB-114        | 111   | 10.0 - 145 |      |
| 13C-PCB-118        | 111   | 10.0 - 145 |      |
| 13C-PCB-123        | 109   | 10.0 - 145 |      |
| 13C-PCB-126        | 110   | 10.0 - 145 |      |
| 13C-PCB-155        | 88.7  | 10.0 - 145 |      |
| 13C-PCB-156        | 105   | 10.0 - 145 |      |
| 13C-PCB-157        | 107   | 10.0 - 145 |      |
| 13C-PCB-167        | 107   | 10.0 - 145 |      |
| 13C-PCB-169        | 115   | 10.0 - 145 |      |
| 13C-PCB-188        | 93.4  | 10.0 - 145 |      |
| 13C-PCB-189        | 107   | 10.0 - 145 |      |
| 13C-PCB-202        | 88.4  | 10.0 - 145 |      |
| 13C-PCB-205        | 94.3  | 10.0 - 145 |      |
| 13C-PCB-206        | 88.0  | 10.0 - 145 |      |
| 13C-PCB-208        | 88.3  | 10.0 - 145 |      |
| 13C-PCB-209        | 83.0  | 10.0 - 145 |      |

| Pre-Spike Standards | % Rec | QC Limits  | Qual |
|---------------------|-------|------------|------|
| 13C-PCB-28          | 107   | 5.00 - 145 |      |
| 13C-PCB-111         | 96.8  | 10.0 - 145 |      |
| 13C-PCB-178         | 93.4  | 10.0 - 145 |      |

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Coelution
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- \* Result taken from dilution or reinjection

Analyst:   
Date: 11/13/2013

Reviewed By:   
Date: 11/13/2013

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# EPA Modified Method 1668 PCBs



FAL ID: 8158-006-SA  
Client ID: HC20131102-A-6  
Matrix: PUF  
Batch No: X2965

Date Extracted: 11-06-2013  
Date Received: 11-05-2013  
Amount: 1.00 sample

ICal: DAILY209FAL4-11-7-13  
GC Column: DB1  
Units: pg/sample

Acquired: 11-08-2013  
Total Conc: 239000

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| Compound | Conc | DL   | Qual | Coeluters | Compound | Conc  | DL   | Qual | Coeluters |
|----------|------|------|------|-----------|----------|-------|------|------|-----------|
| PCB-1    | 672  | -    |      |           | PCB-51   | 125   | -    |      |           |
| PCB-2    | 171  | -    |      |           | PCB-52   | 8590  | -    | C    | 69        |
| PCB-3    | 447  | -    |      |           | PCB-53   | 426   | -    |      |           |
| PCB-4    | 635  | -    |      |           | PCB-54   | ND    | 4.66 |      |           |
| PCB-5    | 122  | -    |      |           | PCB-55   | 111   | -    |      |           |
| PCB-6    | 411  | -    |      |           | PCB-56   | 1760  | -    | C    | 60        |
| PCB-7    | 135  | -    |      |           | PCB-57   | 12.7  | -    | J    |           |
| PCB-8    | 2080 | -    |      |           | PCB-58   | ND    | 6.75 |      |           |
| PCB-9    | 136  | -    |      |           | PCB-59   | -     | -    | C042 | 42        |
| PCB-10   | 45.7 | -    |      |           | PCB-60   | -     | -    | C056 | 56        |
| PCB-11   | 4620 | -    | B    |           | PCB-61   | 9820  | -    | C    | 70        |
| PCB-12   | 36.2 | -    | J    |           | PCB-62   | ND    | 6.09 |      |           |
| PCB-13   | 102  | -    |      |           | PCB-63   | 119   | -    |      |           |
| PCB-14   | ND   | 7.10 |      |           | PCB-64   | -     | -    | C041 | 41/71/72  |
| PCB-15   | 370  | -    |      |           | PCB-65   | ND    | 6.90 |      |           |
| PCB-16   | 547  | -    |      |           | PCB-66   | 3540  | -    | C    | 76        |
| PCB-17   | 955  | -    |      |           | PCB-67   | 85.2  | -    |      |           |
| PCB-18   | 2990 | -    |      |           | PCB-68   | 34.3  | -    | J    |           |
| PCB-19   | 174  | -    |      |           | PCB-69   | -     | -    | C052 | 52        |
| PCB-20   | 1310 | -    | C    | 21/33     | PCB-70   | -     | -    | C061 | 61        |
| PCB-21   | -    | -    | C020 | 20/33     | PCB-71   | -     | -    | C041 | 41/64/72  |
| PCB-22   | 691  | -    |      |           | PCB-72   | -     | -    | C041 | 41/64/71  |
| PCB-23   | ND   | 8.22 |      |           | PCB-73   | 78.7  | -    |      |           |
| PCB-24   | 48.6 | -    |      |           | PCB-74   | 1540  | -    |      |           |
| PCB-25   | 139  | -    |      |           | PCB-75   | -     | -    | C048 | 48        |
| PCB-26   | 363  | -    |      |           | PCB-76   | -     | -    | C066 | 66        |
| PCB-27   | 122  | -    |      |           | PCB-77   | 308   | -    |      |           |
| PCB-28   | 1890 | -    |      |           | PCB-78   | 61.6  | -    |      |           |
| PCB-29   | 18.5 | -    | J    |           | PCB-79   | 216   | -    |      |           |
| PCB-30   | ND   | 1.98 |      |           | PCB-80   | ND    | 5.10 |      |           |
| PCB-31   | 2160 | -    |      |           | PCB-81   | 364   | -    |      |           |
| PCB-32   | 739  | -    |      |           | PCB-82   | 1850  | -    |      |           |
| PCB-33   | -    | -    | C020 | 20/21     | PCB-83   | 806   | -    | C    | 112       |
| PCB-34   | ND   | 9.88 |      |           | PCB-84   | 8800  | -    | C    | 92        |
| PCB-35   | 69.9 | -    |      |           | PCB-85   | 2260  | -    | C    | 116       |
| PCB-36   | ND   | 8.11 |      |           | PCB-86   | 77.5  | -    |      |           |
| PCB-37   | 295  | -    |      |           | PCB-87   | 7790  | -    | C    | 117/125   |
| PCB-38   | 14.4 | -    | J    |           | PCB-88   | 2580  | -    | C    | 91        |
| PCB-39   | ND   | 8.56 |      |           | PCB-89   | 173   | -    |      |           |
| PCB-40   | 431  | -    |      |           | PCB-90   | 24100 | -    | C    | 101       |
| PCB-41   | 2470 | -    | C    | 64/71/72  | PCB-91   | -     | -    | C088 | 88        |
| PCB-42   | 650  | -    | C    | 59        | PCB-92   | -     | -    | C084 | 84        |
| PCB-43   | 2200 | -    | C    | 49        | PCB-93   | ND    | 5.51 |      |           |
| PCB-44   | 3730 | -    |      |           | PCB-94   | 74.9  | -    |      |           |
| PCB-45   | 335  | -    |      |           | PCB-95   | 16800 | -    |      |           |
| PCB-46   | 137  | -    |      |           | PCB-96   | 83.5  | -    |      |           |
| PCB-47   | 586  | -    |      |           | PCB-97   | 5990  | -    |      |           |
| PCB-48   | 496  | -    | C    | 75        | PCB-98   | ND    | 5.40 | C    | 102       |
| PCB-49   | -    | -    | C043 | 43        | PCB-99   | 6780  | -    |      |           |
| PCB-50   | ND   | 7.76 |      |           | PCB-100  | 32.1  | -    | J    |           |

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# EPA Modified Method 1668 PCBs



FAL ID: 8158-006-SA  
Client ID: HC20131102-A-6  
Matrix: PUF  
Batch No: X2965

Date Extracted: 11-06-2013  
Date Received: 11-05-2013  
Amount: 1.00 sample

ICal: DAILY209FAL4-11-7-13  
GC Column: DB1  
Units: pg/sample

Acquired: 11-08-2013

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| Compound | Conc  | DL   | Qual | Coeluters | Compound | Conc | DL   | Qual | Coeluters |
|----------|-------|------|------|-----------|----------|------|------|------|-----------|
| PCB-101  | -     | -    | C090 | 90        | PCB-151  | 3910 | -    |      |           |
| PCB-102  | -     | -    | C098 | 98        | PCB-152  | 27.6 | -    | J    |           |
| PCB-103  | 77.3  | -    |      |           | PCB-153  | 8630 | -    |      |           |
| PCB-104  | ND    | 3.06 |      |           | PCB-154  | 143  | -    |      |           |
| PCB-105  | 3450  | -    |      |           | PCB-155  | ND   | 2.05 |      |           |
| PCB-106  | 13000 | -    | C    | 118       | PCB-156  | 320  | -    |      |           |
| PCB-107  | 880   | -    | C    | 108       | PCB-157  | 69.4 | -    |      |           |
| PCB-108  | -     | -    | C107 | 107       | PCB-158  | 1110 | -    | C    | 160       |
| PCB-109  | ND    | 6.86 |      |           | PCB-159  | 33.4 | -    | J    |           |
| PCB-110  | 15000 | -    |      |           | PCB-160  | -    | -    | C158 | 158       |
| PCB-111  | 449   | -    | C    | 115       | PCB-161  | -    | -    | C132 | 132       |
| PCB-112  | -     | -    | C083 | 83        | PCB-162  | -    | -    | C128 | 128       |
| PCB-113  | ND    | 7.57 |      |           | PCB-163  | -    | -    | C138 | 138/164   |
| PCB-114  | 310   | -    |      |           | PCB-164  | -    | -    | C138 | 138/163   |
| PCB-115  | -     | -    | C111 | 111       | PCB-165  | -    | -    | C146 | 146       |
| PCB-116  | -     | -    | C085 | 85        | PCB-166  | 37.6 | -    | J    |           |
| PCB-117  | -     | -    | C087 | 87/125    | PCB-167  | 200  | -    |      |           |
| PCB-118  | -     | -    | C106 | 106       | PCB-168  | ND   | 4.24 |      |           |
| PCB-119  | 222   | -    |      |           | PCB-169  | ND   | 3.15 |      |           |
| PCB-120  | 31.7  | -    | J    |           | PCB-170  | 392  | -    |      |           |
| PCB-121  | 1890  | 4.53 |      |           | PCB-171  | 268  | -    |      |           |
| PCB-122  | 127   | -    |      |           | PCB-172  | 106  | -    |      |           |
| PCB-123  | 222   | -    |      |           | PCB-173  | 30.9 | -    | J    |           |
| PCB-124  | 868   | -    |      |           | PCB-174  | 1040 | -    |      |           |
| PCB-125  | -     | -    | C087 | 87/117    | PCB-175  | 71.6 | -    |      |           |
| PCB-126  | 38.6  | -    | J    |           | PCB-176  | 330  | -    |      |           |
| PCB-127  | ND    | 5.60 |      |           | PCB-177  | 615  | -    |      |           |
| PCB-128  | 953   | -    | C    | 162       | PCB-178  | 286  | -    |      |           |
| PCB-129  | 458   | -    |      |           | PCB-179  | 1040 | -    |      |           |
| PCB-130  | 567   | -    |      |           | PCB-180  | 1080 | -    |      |           |
| PCB-131  | 469   | -    | C    | 133       | PCB-181  | 57.9 | -    |      |           |
| PCB-132  | 4320  | -    | C    | 161       | PCB-182  | 1330 | -    | C    | 187       |
| PCB-133  | -     | -    | C131 | 131       | PCB-183  | 684  | -    |      |           |
| PCB-134  | 1010  | -    | C    | 143       | PCB-184  | ND   | 7.26 |      |           |
| PCB-135  | 2520  | -    |      |           | PCB-185  | 174  | -    |      |           |
| PCB-136  | 3810  | -    |      |           | PCB-186  | ND   | 7.97 |      |           |
| PCB-137  | 692   | -    |      |           | PCB-187  | -    | -    | C182 | 182       |
| PCB-138  | 7290  | -    | C    | 163/164   | PCB-188  | ND   | 6.62 |      |           |
| PCB-139  | 13400 | -    | C    | 149       | PCB-189  | ND   | 5.84 |      |           |
| PCB-140  | 155   | -    |      |           | PCB-190  | 87.6 | -    |      |           |
| PCB-141  | 2210  | -    |      |           | PCB-191  | 21.1 | -    | J    |           |
| PCB-142  | ND    | 5.90 |      |           | PCB-192  | ND   | 9.31 |      |           |
| PCB-143  | -     | -    | C134 | 134       | PCB-193  | 59.2 | -    |      |           |
| PCB-144  | 1010  | -    |      |           | PCB-194  | 41.6 | -    |      |           |
| PCB-145  | ND    | 3.06 |      |           | PCB-195  | 46.6 | -    |      |           |
| PCB-146  | 1420  | -    | C    | 165       | PCB-196  | 178  | -    | C    | 203       |
| PCB-147  | 443   | -    |      |           | PCB-197  | 20.5 | -    | J    |           |
| PCB-148  | 52.8  | -    |      |           | PCB-198  | 17.3 | -    | J    |           |
| PCB-149  | -     | -    | C139 | 139       | PCB-199  | 175  | -    |      |           |
| PCB-150  | 28.9  | -    | J    |           | PCB-200  | 53.2 | -    |      |           |

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# EPA Modified Method 1668 PCBs



FAL ID: 8158-006-SA  
Client ID: HC20131102-A-6  
Matrix: PUF  
Batch No: X2965

Date Extracted: 11-06-2013  
Date Received: 11-05-2013  
Amount: 1.00 sample

ICal: DAILY209FAL4-11-7-13  
GC Column: DB1  
Units: pg/sample

Acquired: 11-08-2013

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| Compound | Conc | DL   | Qual | Coeluters |
|----------|------|------|------|-----------|
| PCB-201  | 66.0 | -    |      |           |
| PCB-202  | 76.4 | -    |      |           |
| PCB-203  | -    | -    | C196 | 196       |
| PCB-204  | ND   | 2.13 |      |           |
| PCB-205  | ND   | 2.50 |      |           |
| PCB-206  | ND   | 8.57 |      |           |
| PCB-207  | ND   | 8.72 |      |           |
| PCB-208  | ND   | 6.34 |      |           |
| PCB-209  | ND   | 3.52 |      |           |

| Internal Standards | % Rec | QC Limits  | Qual |
|--------------------|-------|------------|------|
| 13C-PCB-1          | 72.1  | 5.00 - 145 |      |
| 13C-PCB-3          | 83.7  | 5.00 - 145 |      |
| 13C-PCB-4          | 89.4  | 5.00 - 145 |      |
| 13C-PCB-15         | 95.6  | 5.00 - 145 |      |
| 13C-PCB-19         | 82.7  | 5.00 - 145 |      |
| 13C-PCB-37         | 110   | 5.00 - 145 |      |
| 13C-PCB-54         | 92.0  | 5.00 - 145 |      |
| 13C-PCB-77         | 103   | 10.0 - 145 |      |
| 13C-PCB-81         | 108   | 10.0 - 145 |      |
| 13C-PCB-104        | 94.0  | 10.0 - 145 |      |
| 13C-PCB-105        | 104   | 10.0 - 145 |      |
| 13C-PCB-114        | 109   | 10.0 - 145 |      |
| 13C-PCB-118        | 111   | 10.0 - 145 |      |
| 13C-PCB-123        | 108   | 10.0 - 145 |      |
| 13C-PCB-126        | 106   | 10.0 - 145 |      |
| 13C-PCB-155        | 80.8  | 10.0 - 145 |      |
| 13C-PCB-156        | 98.9  | 10.0 - 145 |      |
| 13C-PCB-157        | 97.4  | 10.0 - 145 |      |
| 13C-PCB-167        | 101   | 10.0 - 145 |      |
| 13C-PCB-169        | 105   | 10.0 - 145 |      |
| 13C-PCB-188        | 92.5  | 10.0 - 145 |      |
| 13C-PCB-189        | 103   | 10.0 - 145 |      |
| 13C-PCB-202        | 82.8  | 10.0 - 145 |      |
| 13C-PCB-205        | 93.1  | 10.0 - 145 |      |
| 13C-PCB-206        | 89.4  | 10.0 - 145 |      |
| 13C-PCB-208        | 86.6  | 10.0 - 145 |      |
| 13C-PCB-209        | 82.2  | 10.0 - 145 |      |

| Pre-Spike Standards | % Rec | QC Limits  | Qual |
|---------------------|-------|------------|------|
| 13C-PCB-28          | 107   | 5.00 - 145 |      |
| 13C-PCB-111         | 97.7  | 10.0 - 145 |      |
| 13C-PCB-178         | 85.7  | 10.0 - 145 |      |

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Coelution
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- \* Result taken from dilution or reinjection

Analyst:   
Date: 11/13/2013

Reviewed By:   
Date: 11/13/2013

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# EPA Modified Method 1668 PCBs



FAL ID: 8158-007-SA  
Client ID: HC20131102-A-7  
Matrix: PUF  
Batch No: X2965

Date Extracted: 11-06-2013  
Date Received: 11-05-2013  
Amount: 1.00 sample

ICal: DAILY209FAL4-11-8-13  
GC Column: DB1  
Units: pg/sample

Acquired: 11-08-2013  
Total Conc: 375000

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| Compound | Conc | DL   | Qual | Coeluters | Compound | Conc  | DL   | Qual | Coeluters |
|----------|------|------|------|-----------|----------|-------|------|------|-----------|
| PCB-1    | 2410 | -    |      |           | PCB-51   | 211   | -    |      |           |
| PCB-2    | 371  | -    |      |           | PCB-52   | 8760  | -    | C    | 69        |
| PCB-3    | 1410 | -    |      |           | PCB-53   | 717   | -    |      |           |
| PCB-4    | 1980 | -    |      |           | PCB-54   | ND    | 5.97 |      |           |
| PCB-5    | 88.0 | -    |      |           | PCB-55   | 53.1  | -    |      |           |
| PCB-6    | 1070 | -    |      |           | PCB-56   | 1170  | -    | C    | 60        |
| PCB-7    | 348  | -    |      |           | PCB-57   | 17.6  | -    | J    |           |
| PCB-8    | 5010 | -    |      |           | PCB-58   | ND    | 8.01 |      |           |
| PCB-9    | 400  | -    |      |           | PCB-59   | -     | -    | C042 | 42        |
| PCB-10   | 113  | -    |      |           | PCB-60   | -     | -    | C056 | 56        |
| PCB-11   | 6190 | -    | B    |           | PCB-61   | 4010  | -    | C    | 70        |
| PCB-12   | 114  | -    |      |           | PCB-62   | ND    | 8.77 |      |           |
| PCB-13   | 266  | -    |      |           | PCB-63   | 97.7  | -    |      |           |
| PCB-14   | ND   | 7.08 |      |           | PCB-64   | -     | -    | C041 | 41/71/72  |
| PCB-15   | 1020 | -    |      |           | PCB-65   | ND    | 7.74 |      |           |
| PCB-16   | 1450 | -    |      |           | PCB-66   | 1860  | -    | C    | 76        |
| PCB-17   | 1900 | -    |      |           | PCB-67   | 97.5  | -    |      |           |
| PCB-18   | 5500 | -    |      |           | PCB-68   | 42.3  | -    |      |           |
| PCB-19   | 358  | -    |      |           | PCB-69   | -     | -    | C052 | 52        |
| PCB-20   | 2710 | -    | C    | 21/33     | PCB-70   | -     | -    | C061 | 61        |
| PCB-21   | -    | -    | C020 | 20/33     | PCB-71   | -     | -    | C041 | 41/64/72  |
| PCB-22   | 1370 | -    |      |           | PCB-72   | -     | -    | C041 | 41/64/71  |
| PCB-23   | ND   | 8.03 |      |           | PCB-73   | 52.7  | -    |      |           |
| PCB-24   | 53.8 | -    |      |           | PCB-74   | 1000  | -    |      |           |
| PCB-25   | 310  | -    |      |           | PCB-75   | -     | -    | C048 | 48        |
| PCB-26   | 701  | -    |      |           | PCB-76   | -     | -    | C066 | 66        |
| PCB-27   | 304  | -    |      |           | PCB-77   | 177   | -    |      |           |
| PCB-28   | 3840 | -    |      |           | PCB-78   | 12.8  | -    | J    |           |
| PCB-29   | 41.6 | -    |      |           | PCB-79   | 42.4  | -    |      |           |
| PCB-30   | ND   | 3.54 |      |           | PCB-80   | 835   | -    |      |           |
| PCB-31   | 3840 | -    |      |           | PCB-81   | 142   | -    |      |           |
| PCB-32   | 1180 | -    |      |           | PCB-82   | 265   | -    |      |           |
| PCB-33   | -    | -    | C020 | 20/21     | PCB-83   | 154   | -    | C    | 112       |
| PCB-34   | 17.2 | -    | J    |           | PCB-84   | 4260  | -    | C    | 92        |
| PCB-35   | 81.1 | -    |      |           | PCB-85   | 380   | -    | C    | 116       |
| PCB-36   | ND   | 6.96 |      |           | PCB-86   | 15.7  | -    | J    |           |
| PCB-37   | 570  | -    |      |           | PCB-87   | 2940  | -    | C    | 117/125   |
| PCB-38   | 18.7 | -    | J    |           | PCB-88   | 747   | -    | C    | 91        |
| PCB-39   | ND   | 7.42 |      |           | PCB-89   | 35.4  | -    | J    |           |
| PCB-40   | 466  | -    |      |           | PCB-90   | 30400 | -    | C    | 101       |
| PCB-41   | 2570 | -    | C    | 64/71/72  | PCB-91   | -     | -    | C088 | 88        |
| PCB-42   | 876  | -    | C    | 59        | PCB-92   | -     | -    | C084 | 84        |
| PCB-43   | 2740 | -    | C    | 49        | PCB-93   | ND    | 5.86 |      |           |
| PCB-44   | 3130 | -    |      |           | PCB-94   | 39.7  | -    | J    |           |
| PCB-45   | 607  | -    |      |           | PCB-95   | 24600 | -    |      |           |
| PCB-46   | 237  | -    |      |           | PCB-96   | 67.3  | -    |      |           |
| PCB-47   | 867  | -    |      |           | PCB-97   | 1240  | -    |      |           |
| PCB-48   | 706  | -    | C    | 75        | PCB-98   | ND    | 5.55 | C    | 102       |
| PCB-49   | -    | -    | C043 | 43        | PCB-99   | 1390  | -    |      |           |
| PCB-50   | ND   | 10.0 |      |           | PCB-100  | 16.9  | -    | J    |           |

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# EPA Modified Method 1668 PCBs



FAL ID: 8158-007-SA  
Client ID: HC20131102-A-7  
Matrix: PUF  
Batch No: X2965

Date Extracted: 11-06-2013  
Date Received: 11-05-2013  
Amount: 1.00 sample

ICal: DAILY209FAL4-11-8-13  
GC Column: DB1  
Units: pg/sample

Acquired: 11-08-2013

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| Compound | Conc  | DL   | Qual | Coeluters | Compound | Conc  | DL   | Qual | Coeluters |
|----------|-------|------|------|-----------|----------|-------|------|------|-----------|
| PCB-101  | -     | -    | C090 | 90        | PCB-151  | 16200 | -    |      |           |
| PCB-102  | -     | -    | C098 | 98        | PCB-152  | ND    | 7.42 |      |           |
| PCB-103  | 50.9  | -    |      |           | PCB-153  | 34300 | -    |      |           |
| PCB-104  | ND    | 3.29 |      |           | PCB-154  | 49.4  | -    |      |           |
| PCB-105  | 844   | -    |      |           | PCB-155  | ND    | 5.40 |      |           |
| PCB-106  | 4810  | -    | C    | 118       | PCB-156  | 732   | -    |      |           |
| PCB-107  | 159   | -    | C    | 108       | PCB-157  | 49.9  | -    |      |           |
| PCB-108  | -     | -    | C107 | 107       | PCB-158  | 2150  | -    | C    | 160       |
| PCB-109  | ND    | 5.09 |      |           | PCB-159  | 344   | -    |      |           |
| PCB-110  | 7610  | -    |      |           | PCB-160  | -     | -    | C158 | 158       |
| PCB-111  | 76.4  | -    | C    | 115       | PCB-161  | -     | -    | C132 | 132       |
| PCB-112  | -     | -    | C083 | 83        | PCB-162  | -     | -    | C128 | 128       |
| PCB-113  | ND    | 4.92 |      |           | PCB-163  | -     | -    | C138 | 138/164   |
| PCB-114  | 111   | -    |      |           | PCB-164  | -     | -    | C138 | 138/163   |
| PCB-115  | -     | -    | C111 | 111       | PCB-165  | -     | -    | C146 | 146       |
| PCB-116  | -     | -    | C085 | 85        | PCB-166  | 87.8  | -    |      |           |
| PCB-117  | -     | -    | C087 | 87/125    | PCB-167  | 339   | -    |      |           |
| PCB-118  | -     | -    | C106 | 106       | PCB-168  | ND    | 9.25 |      |           |
| PCB-119  | 35.8  | -    | J    |           | PCB-169  | ND    | 6.63 |      |           |
| PCB-120  | 117   | -    |      |           | PCB-170  | 3280  | -    |      |           |
| PCB-121  | ND    | 4.63 |      |           | PCB-171  | 1770  | -    |      |           |
| PCB-122  | 14.2  | -    | J    |           | PCB-172  | 773   | -    |      |           |
| PCB-123  | 25.9  | -    | J    |           | PCB-173  | 161   | -    |      |           |
| PCB-124  | 364   | -    |      |           | PCB-174  | 8370  | -    |      |           |
| PCB-125  | -     | -    | C087 | 87/117    | PCB-175  | 419   | -    |      |           |
| PCB-126  | 19.4  | -    | J    |           | PCB-176  | 1760  | -    |      |           |
| PCB-127  | ND    | 8.98 |      |           | PCB-177  | 4300  | -    |      |           |
| PCB-128  | 942   | -    | C    | 162       | PCB-178  | 1840  | -    |      |           |
| PCB-129  | 281   | -    |      |           | PCB-179  | 5730  | -    |      |           |
| PCB-130  | 738   | -    |      |           | PCB-180  | 9610  | -    |      |           |
| PCB-131  | 481   | -    | C    | 133       | PCB-181  | 43.0  | -    |      |           |
| PCB-132  | 7480  | -    | C    | 161       | PCB-182  | 10600 | -    | C    | 187       |
| PCB-133  | -     | -    | C131 | 131       | PCB-183  | 4940  | -    |      |           |
| PCB-134  | 1400  | -    | C    | 143       | PCB-184  | ND    | 4.27 |      |           |
| PCB-135  | 5800  | -    |      |           | PCB-185  | 1290  | -    |      |           |
| PCB-136  | 8110  | -    |      |           | PCB-186  | ND    | 4.73 |      |           |
| PCB-137  | 77.5  | -    |      |           | PCB-187  | -     | -    | C182 | 182       |
| PCB-138  | 20200 | -    | C    | 163/164   | PCB-188  | ND    | 3.88 |      |           |
| PCB-139  | 41100 | -    | C    | 149       | PCB-189  | 46.6  | -    |      |           |
| PCB-140  | 23.7  | -    | J    |           | PCB-190  | 755   | -    |      |           |
| PCB-141  | 8390  | -    |      |           | PCB-191  | 167   | -    |      |           |
| PCB-142  | ND    | 9.81 |      |           | PCB-192  | ND    | 5.41 |      |           |
| PCB-143  | -     | -    | C134 | 134       | PCB-193  | 456   | -    |      |           |
| PCB-144  | 3160  | -    |      |           | PCB-194  | 530   | -    |      |           |
| PCB-145  | ND    | 7.96 |      |           | PCB-195  | 451   | -    |      |           |
| PCB-146  | 3650  | -    | C    | 165       | PCB-196  | 1390  | -    | C    | 203       |
| PCB-147  | 77.2  | -    |      |           | PCB-197  | 121   | -    |      |           |
| PCB-148  | 35.3  | -    | J    |           | PCB-198  | 93.3  | -    |      |           |
| PCB-149  | -     | -    | C139 | 139       | PCB-199  | 1340  | -    |      |           |
| PCB-150  | 17.4  | -    | J    |           | PCB-200  | 346   | -    |      |           |

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# EPA Modified Method 1668 PCBs



FAL ID: 8158-007-SA  
Client ID: HC20131102-A-7  
Matrix: PUF  
Batch No: X2965

Date Extracted: 11-06-2013  
Date Received: 11-05-2013  
Amount: 1.00 sample

ICal: DAILY209FAL4-11-8-13  
GC Column: DB1  
Units: pg/sample

Acquired: 11-08-2013

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| Compound | Conc | DL   | Qual | Coeluters |
|----------|------|------|------|-----------|
| PCB-201  | 378  | -    |      |           |
| PCB-202  | 374  | -    |      |           |
| PCB-203  | -    | -    | C196 | 196       |
| PCB-204  | ND   | 3.36 |      |           |
| PCB-205  | 29.6 | -    | J    |           |
| PCB-206  | 53.8 | -    |      |           |
| PCB-207  | 25.8 | -    | J    |           |
| PCB-208  | 26.7 | -    | J    |           |
| PCB-209  | ND   | 4.29 |      |           |

| Internal Standards | % Rec | QC Limits  | Qual |
|--------------------|-------|------------|------|
| 13C-PCB-1          | 85.6  | 5.00 - 145 |      |
| 13C-PCB-3          | 89.9  | 5.00 - 145 |      |
| 13C-PCB-4          | 88.3  | 5.00 - 145 |      |
| 13C-PCB-15         | 94.5  | 5.00 - 145 |      |
| 13C-PCB-19         | 90.5  | 5.00 - 145 |      |
| 13C-PCB-37         | 103   | 5.00 - 145 |      |
| 13C-PCB-54         | 88.6  | 5.00 - 145 |      |
| 13C-PCB-77         | 102   | 10.0 - 145 |      |
| 13C-PCB-81         | 99.7  | 10.0 - 145 |      |
| 13C-PCB-104        | 93.0  | 10.0 - 145 |      |
| 13C-PCB-105        | 102   | 10.0 - 145 |      |
| 13C-PCB-114        | 98.7  | 10.0 - 145 |      |
| 13C-PCB-118        | 97.4  | 10.0 - 145 |      |
| 13C-PCB-123        | 108   | 10.0 - 145 |      |
| 13C-PCB-126        | 100   | 10.0 - 145 |      |
| 13C-PCB-155        | 93.6  | 10.0 - 145 |      |
| 13C-PCB-156        | 96.7  | 10.0 - 145 |      |
| 13C-PCB-157        | 97.9  | 10.0 - 145 |      |
| 13C-PCB-167        | 99.3  | 10.0 - 145 |      |
| 13C-PCB-169        | 102   | 10.0 - 145 |      |
| 13C-PCB-188        | 90.2  | 10.0 - 145 |      |
| 13C-PCB-189        | 98.7  | 10.0 - 145 |      |
| 13C-PCB-202        | 89.0  | 10.0 - 145 |      |
| 13C-PCB-205        | 95.7  | 10.0 - 145 |      |
| 13C-PCB-206        | 101   | 10.0 - 145 |      |
| 13C-PCB-208        | 102   | 10.0 - 145 |      |
| 13C-PCB-209        | 98.9  | 10.0 - 145 |      |

| Pre-Spike Standards | % Rec | QC Limits  | Qual |
|---------------------|-------|------------|------|
| 13C-PCB-28          | 101   | 5.00 - 145 |      |
| 13C-PCB-111         | 95.5  | 10.0 - 145 |      |
| 13C-PCB-178         | 89.9  | 10.0 - 145 |      |

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Coelution
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- \* Result taken from dilution or reinjection

Analyst:   
Date: 11/13/2013

Reviewed By:   
Date: 11/13/2013

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# EPA Modified Method 1668 PCBs



FAL ID: 8158-008-SA  
Client ID: HC20131102-A-8  
Matrix: PUF  
Batch No: X2965

Date Extracted: 11-06-2013  
Date Received: 11-05-2013  
Amount: 1.00 sample

ICal: DAILY209FAL4-11-8-13  
GC Column: DB1  
Units: pg/sample

Acquired: 11-08-2013  
Total Conc: 203000

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| Compound | Conc  | DL   | Qual | Coeluters | Compound | Conc  | DL   | Qual | Coeluters |
|----------|-------|------|------|-----------|----------|-------|------|------|-----------|
| PCB-1    | 1420  | -    |      |           | PCB-51   | 215   | -    |      |           |
| PCB-2    | 346   | -    |      |           | PCB-52   | 30000 | -    | C    | 69        |
| PCB-3    | 880   | -    |      |           | PCB-53   | 1290  | -    | J    |           |
| PCB-4    | 1620  | -    |      |           | PCB-54   | 10.6  | -    |      |           |
| PCB-5    | 81.3  | -    |      |           | PCB-55   | 99.4  | -    |      |           |
| PCB-6    | 917   | -    |      |           | PCB-56   | 1160  | -    | C    | 60        |
| PCB-7    | 326   | -    |      |           | PCB-57   | 18.5  | -    | J    |           |
| PCB-8    | 4270  | -    |      |           | PCB-58   | ND    | 3.16 |      |           |
| PCB-9    | 314   | -    |      |           | PCB-59   | -     | -    | C042 | 42        |
| PCB-10   | 74.8  | -    |      |           | PCB-60   | -     | -    | C056 | 56        |
| PCB-11   | 20300 | -    | B    |           | PCB-61   | 10300 | -    | C    | 70        |
| PCB-12   | 74.5  | -    |      |           | PCB-62   | ND    | 3.46 |      |           |
| PCB-13   | 165   | -    |      |           | PCB-63   | 137   | -    |      |           |
| PCB-14   | ND    | 10.0 |      |           | PCB-64   | -     | -    | C041 | 41/71/72  |
| PCB-15   | 736   | -    |      |           | PCB-65   | ND    | 3.05 |      |           |
| PCB-16   | 1120  | -    |      |           | PCB-66   | 3230  | -    | C    | 76        |
| PCB-17   | 1790  | -    |      |           | PCB-67   | 57.7  | -    |      |           |
| PCB-18   | 5140  | -    |      |           | PCB-68   | 22.4  | -    | J    |           |
| PCB-19   | 328   | -    |      |           | PCB-69   | -     | -    | C052 | 52        |
| PCB-20   | 2190  | -    | C    | 21/33     | PCB-70   | -     | -    | C061 | 61        |
| PCB-21   | -     | -    | C020 | 20/33     | PCB-71   | -     | -    | C041 | 41/64/72  |
| PCB-22   | 1050  | -    |      |           | PCB-72   | -     | -    | C041 | 41/64/71  |
| PCB-23   | ND    | 8.09 |      |           | PCB-73   | 116   | -    |      |           |
| PCB-24   | 38.6  | -    | J    |           | PCB-74   | 2070  | -    |      |           |
| PCB-25   | 244   | -    |      |           | PCB-75   | -     | -    | C048 | 48        |
| PCB-26   | 562   | -    |      |           | PCB-76   | -     | -    | C066 | 66        |
| PCB-27   | 281   | -    |      |           | PCB-77   | 62.2  | -    |      |           |
| PCB-28   | 3150  | -    |      |           | PCB-78   | 30.8  | -    | J    |           |
| PCB-29   | 38.0  | -    | J    |           | PCB-79   | 115   | -    |      |           |
| PCB-30   | ND    | 3.71 |      |           | PCB-80   | ND    | 2.56 |      |           |
| PCB-31   | 3940  | -    |      |           | PCB-81   | 158   | -    |      |           |
| PCB-32   | 1190  | -    |      |           | PCB-82   | 683   | -    |      |           |
| PCB-33   | -     | -    | C020 | 20/21     | PCB-83   | 427   | -    | C    | 112       |
| PCB-34   | 14.0  | -    | J    |           | PCB-84   | 6050  | -    | C    | 92        |
| PCB-35   | 68.2  | -    |      |           | PCB-85   | 1060  | -    | C    | 116       |
| PCB-36   | ND    | 7.01 |      |           | PCB-86   | 31.1  | -    | J    |           |
| PCB-37   | 306   | -    |      |           | PCB-87   | 3530  | -    | C    | 117/125   |
| PCB-38   | 23.2  | -    | J    |           | PCB-88   | 2580  | -    | C    | 91        |
| PCB-39   | ND    | 7.47 |      |           | PCB-89   | 107   | -    |      |           |
| PCB-40   | 582   | -    |      |           | PCB-90   | 13700 | -    | C    | 101       |
| PCB-41   | 4480  | -    | C    | 64/71/72  | PCB-91   | -     | -    | C088 | 88        |
| PCB-42   | 991   | -    | C    | 59        | PCB-92   | -     | -    | C084 | 84        |
| PCB-43   | 7450  | -    | C    | 49        | PCB-93   | ND    | 5.56 |      |           |
| PCB-44   | 9660  | -    |      |           | PCB-94   | 104   | -    |      |           |
| PCB-45   | 602   | -    |      |           | PCB-95   | 16900 | -    |      |           |
| PCB-46   | 257   | -    |      |           | PCB-96   | 194   | -    |      |           |
| PCB-47   | 1280  | -    |      |           | PCB-97   | 2760  | -    |      |           |
| PCB-48   | 758   | -    | C    | 75        | PCB-98   | ND    | 5.26 | C    | 102       |
| PCB-49   | -     | -    | C043 | 43        | PCB-99   | 4820  | -    |      |           |
| PCB-50   | 15.7  | -    | J    |           | PCB-100  | 62.0  | -    |      |           |

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# EPA Modified Method 1668 PCBs



FAL ID: 8158-008-SA  
Client ID: HC20131102-A-8  
Matrix: PUF  
Batch No: X2965

Date Extracted: 11-06-2013  
Date Received: 11-05-2013  
Amount: 1.00 sample

ICal: DAILY209FAL4-11-8-13  
GC Column: DB1  
Units: pg/sample

Acquired: 11-08-2013

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| Compound | Conc | DL   | Qual | Coeluters | Compound | Conc | DL   | Qual | Coeluters |
|----------|------|------|------|-----------|----------|------|------|------|-----------|
| PCB-101  | -    | -    | C090 | 90        | PCB-151  | 763  | -    |      |           |
| PCB-102  | -    | -    | C098 | 98        | PCB-152  | 16.9 | -    | J    |           |
| PCB-103  | 151  | -    |      |           | PCB-153  | 1430 | -    |      |           |
| PCB-104  | ND   | 3.12 |      |           | PCB-154  | 50.0 | -    |      |           |
| PCB-105  | 825  | -    |      |           | PCB-155  | ND   | 3.43 |      |           |
| PCB-106  | 3450 | -    | C    | 118       | PCB-156  | 69.3 | -    |      |           |
| PCB-107  | 255  | -    | C    | 108       | PCB-157  | 18.1 | -    | J    |           |
| PCB-108  | -    | -    | C107 | 107       | PCB-158  | 205  | -    | C    | 160       |
| PCB-109  | ND   | 5.34 |      |           | PCB-159  | ND   | 4.87 |      |           |
| PCB-110  | 5380 | -    |      |           | PCB-160  | -    | -    | C158 | 158       |
| PCB-111  | 208  | -    | C    | 115       | PCB-161  | -    | -    | C132 | 132       |
| PCB-112  | -    | -    | C083 | 83        | PCB-162  | -    | -    | C128 | 128       |
| PCB-113  | ND   | 5.16 |      |           | PCB-163  | -    | -    | C138 | 138/164   |
| PCB-114  | 91.3 | -    |      |           | PCB-164  | -    | -    | C138 | 138/163   |
| PCB-115  | -    | -    | C111 | 111       | PCB-165  | -    | -    | C146 | 146       |
| PCB-116  | -    | -    | C085 | 85        | PCB-166  | 11.9 | -    | J    |           |
| PCB-117  | -    | -    | C087 | 87/125    | PCB-167  | 32.9 | -    | J    |           |
| PCB-118  | -    | -    | C106 | 106       | PCB-168  | ND   | 5.30 |      |           |
| PCB-119  | 147  | -    |      |           | PCB-169  | ND   | 3.78 |      |           |
| PCB-120  | 14.7 | -    | J    |           | PCB-170  | 43.2 | -    |      |           |
| PCB-121  | ND   | 4.40 |      |           | PCB-171  | 31.2 | -    | J    |           |
| PCB-122  | 36.6 | -    | J    |           | PCB-172  | ND   | 10.3 |      |           |
| PCB-123  | 62.0 | -    |      |           | PCB-173  | ND   | 11.0 |      |           |
| PCB-124  | 187  | -    |      |           | PCB-174  | 91.5 | -    |      |           |
| PCB-125  | -    | -    | C087 | 87/117    | PCB-175  | ND   | 9.25 |      |           |
| PCB-126  | ND   | 6.51 |      |           | PCB-176  | 36.4 | -    | J    |           |
| PCB-127  | ND   | 8.06 |      |           | PCB-177  | 45.2 | -    |      |           |
| PCB-128  | 182  | -    | C    | 162       | PCB-178  | 29.5 | -    | J    |           |
| PCB-129  | 105  | -    |      |           | PCB-179  | 104  | -    |      |           |
| PCB-130  | 122  | -    |      |           | PCB-180  | 90.0 | -    |      |           |
| PCB-131  | 111  | -    | C    | 133       | PCB-181  | ND   | 9.55 |      |           |
| PCB-132  | 807  | -    | C    | 161       | PCB-182  | 129  | -    | C    | 187       |
| PCB-133  | -    | -    | C131 | 131       | PCB-183  | 66.7 | -    |      |           |
| PCB-134  | 246  | -    | C    | 143       | PCB-184  | ND   | 6.63 |      |           |
| PCB-135  | 524  | -    |      |           | PCB-185  | 15.1 | -    | J    |           |
| PCB-136  | 956  | -    |      |           | PCB-186  | ND   | 7.36 |      |           |
| PCB-137  | 141  | -    |      |           | PCB-187  | -    | -    | C182 | 182       |
| PCB-138  | 1130 | -    | C    | 163/164   | PCB-188  | ND   | 5.89 |      |           |
| PCB-139  | 2540 | -    | C    | 149       | PCB-189  | ND   | 5.16 |      |           |
| PCB-140  | 20.3 | -    | J    |           | PCB-190  | ND   | 8.19 |      |           |
| PCB-141  | 300  | -    |      |           | PCB-191  | ND   | 7.33 |      |           |
| PCB-142  | ND   | 7.49 |      |           | PCB-192  | ND   | 8.40 |      |           |
| PCB-143  | -    | -    | C134 | 134       | PCB-193  | ND   | 7.25 |      |           |
| PCB-144  | 237  | -    |      |           | PCB-194  | ND   | 5.21 |      |           |
| PCB-145  | ND   | 5.06 |      |           | PCB-195  | ND   | 5.96 |      |           |
| PCB-146  | 263  | -    | C    | 165       | PCB-196  | 18.6 | -    | C,J  | 203       |
| PCB-147  | 110  | -    |      |           | PCB-197  | ND   | 6.57 |      |           |
| PCB-148  | ND   | 6.50 |      |           | PCB-198  | ND   | 9.87 |      |           |
| PCB-149  | -    | -    | C139 | 139       | PCB-199  | ND   | 9.50 |      |           |
| PCB-150  | 15.9 | -    | J    |           | PCB-200  | ND   | 6.32 |      |           |

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# EPA Modified Method 1668 PCBs



FAL ID: 8158-008-SA  
Client ID: HC20131102-A-8  
Matrix: PUF  
Batch No: X2965

Date Extracted: 11-06-2013  
Date Received: 11-05-2013  
Amount: 1.00 sample

ICal: DAILY209FAL4-11-8-13  
GC Column: DB1  
Units: pg/sample

Acquired: 11-08-2013

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| Compound | Conc | DL   | Qual   | Coeluters |
|----------|------|------|--------|-----------|
| PCB-201  | ND   | 6.20 |        |           |
| PCB-202  | 11.7 | -    | J      |           |
| PCB-203  | -    | -    | C196,J | 196       |
| PCB-204  | ND   | 6.37 |        |           |
| PCB-205  | ND   | 3.13 |        |           |
| PCB-206  | ND   | 6.25 |        |           |
| PCB-207  | ND   | 6.10 |        |           |
| PCB-208  | ND   | 4.44 |        |           |
| PCB-209  | ND   | 4.06 |        |           |

| Internal Standards | % Rec | QC Limits  | Qual |
|--------------------|-------|------------|------|
| 13C-PCB-1          | 91.4  | 5.00 - 145 |      |
| 13C-PCB-3          | 91.1  | 5.00 - 145 |      |
| 13C-PCB-4          | 88.2  | 5.00 - 145 |      |
| 13C-PCB-15         | 93.6  | 5.00 - 145 |      |
| 13C-PCB-19         | 89.2  | 5.00 - 145 |      |
| 13C-PCB-37         | 103   | 5.00 - 145 |      |
| 13C-PCB-54         | 88.9  | 5.00 - 145 |      |
| 13C-PCB-77         | 98.9  | 10.0 - 145 |      |
| 13C-PCB-81         | 96.7  | 10.0 - 145 |      |
| 13C-PCB-104        | 91.1  | 10.0 - 145 |      |
| 13C-PCB-105        | 102   | 10.0 - 145 |      |
| 13C-PCB-114        | 99.7  | 10.0 - 145 |      |
| 13C-PCB-118        | 92.8  | 10.0 - 145 |      |
| 13C-PCB-123        | 103   | 10.0 - 145 |      |
| 13C-PCB-126        | 99.3  | 10.0 - 145 |      |
| 13C-PCB-155        | 88.5  | 10.0 - 145 |      |
| 13C-PCB-156        | 94.8  | 10.0 - 145 |      |
| 13C-PCB-157        | 94.0  | 10.0 - 145 |      |
| 13C-PCB-167        | 97.1  | 10.0 - 145 |      |
| 13C-PCB-169        | 98.7  | 10.0 - 145 |      |
| 13C-PCB-188        | 90.0  | 10.0 - 145 |      |
| 13C-PCB-189        | 95.4  | 10.0 - 145 |      |
| 13C-PCB-202        | 87.5  | 10.0 - 145 |      |
| 13C-PCB-205        | 96.1  | 10.0 - 145 |      |
| 13C-PCB-206        | 96.2  | 10.0 - 145 |      |
| 13C-PCB-208        | 95.2  | 10.0 - 145 |      |
| 13C-PCB-209        | 92.7  | 10.0 - 145 |      |

| Pre-Spike Standards | % Rec | QC Limits  | Qual |
|---------------------|-------|------------|------|
| 13C-PCB-28          | 99.9  | 5.00 - 145 |      |
| 13C-PCB-111         | 90.8  | 10.0 - 145 |      |
| 13C-PCB-178         | 88.4  | 10.0 - 145 |      |

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Coelution
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- \* Result taken from dilution or reinjection

Analyst:   
Date: 11/13/2013

Reviewed By:   
Date: 11/13/2013

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# EPA Modified Method 1668 PCBs



FAL ID: 8158-009-SA  
Client ID: HC20131102-A-9  
Matrix: PUF  
Batch No: X2965

Date Extracted: 11-06-2013  
Date Received: 11-05-2013  
Amount: 1.00 sample

ICal: DAILY209FAL4-11-8-13  
GC Column: DB1  
Units: pg/sample

Acquired: 11-08-2013  
Total Conc: 199000

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| Compound | Conc  | DL   | Qual | Coeluters | Compound | Conc  | DL   | Qual | Coeluters |
|----------|-------|------|------|-----------|----------|-------|------|------|-----------|
| PCB-1    | 728   | -    |      |           | PCB-51   | 163   | -    |      |           |
| PCB-2    | 255   | -    |      |           | PCB-52   | 24500 | -    | C    | 69        |
| PCB-3    | 470   | -    |      |           | PCB-53   | 985   | -    |      |           |
| PCB-4    | 1280  | -    |      |           | PCB-54   | ND    | 4.06 |      |           |
| PCB-5    | 92.6  | -    |      |           | PCB-55   | 92.0  | -    |      |           |
| PCB-6    | 665   | -    |      |           | PCB-56   | 1040  | -    | C    | 60        |
| PCB-7    | 212   | -    |      |           | PCB-57   | 14.2  | -    | J    |           |
| PCB-8    | 2970  | -    |      |           | PCB-58   | ND    | 5.46 |      |           |
| PCB-9    | 228   | -    |      |           | PCB-59   | -     | -    | C042 | 42        |
| PCB-10   | 64.5  | -    |      |           | PCB-60   | -     | -    | C056 | 56        |
| PCB-11   | 32100 | -    | B    |           | PCB-61   | 10100 | -    | C    | 70        |
| PCB-12   | 26.9  | -    | J    |           | PCB-62   | ND    | 5.98 |      |           |
| PCB-13   | 124   | -    |      |           | PCB-63   | 148   | -    |      |           |
| PCB-14   | ND    | 7.50 |      |           | PCB-64   | -     | -    | C041 | 41/71/72  |
| PCB-15   | 507   | -    |      |           | PCB-65   | ND    | 5.28 |      |           |
| PCB-16   | 804   | -    |      |           | PCB-66   | 3140  | -    | C    | 76        |
| PCB-17   | 1190  | -    |      |           | PCB-67   | 55.5  | -    |      |           |
| PCB-18   | 3460  | -    |      |           | PCB-68   | 41.3  | -    |      |           |
| PCB-19   | 230   | -    |      |           | PCB-69   | -     | -    | C052 | 52        |
| PCB-20   | 1520  | -    | C    | 21/33     | PCB-70   | -     | -    | C061 | 61        |
| PCB-21   | -     | -    | C020 | 20/33     | PCB-71   | -     | -    | C041 | 41/64/72  |
| PCB-22   | 736   | -    |      |           | PCB-72   | -     | -    | C041 | 41/64/71  |
| PCB-23   | ND    | 7.96 |      |           | PCB-73   | 80.4  | -    |      |           |
| PCB-24   | 25.7  | -    | J    |           | PCB-74   | 1970  | -    |      |           |
| PCB-25   | 174   | -    |      |           | PCB-75   | -     | -    | C048 | 48        |
| PCB-26   | 394   | -    |      |           | PCB-76   | -     | -    | C066 | 66        |
| PCB-27   | 196   | -    |      |           | PCB-77   | 66.6  | -    |      |           |
| PCB-28   | 2100  | -    |      |           | PCB-78   | 32.8  | -    | J    |           |
| PCB-29   | 25.4  | -    | J    |           | PCB-79   | 118   | -    |      |           |
| PCB-30   | ND    | 2.87 |      |           | PCB-80   | ND    | 4.42 |      |           |
| PCB-31   | 2760  | -    |      |           | PCB-81   | 176   | -    |      |           |
| PCB-32   | 737   | -    |      |           | PCB-82   | 734   | -    |      |           |
| PCB-33   | -     | -    | C020 | 20/21     | PCB-83   | 462   | -    | C    | 112       |
| PCB-34   | ND    | 7.44 |      |           | PCB-84   | 6190  | -    | C    | 92        |
| PCB-35   | 81.6  | -    |      |           | PCB-85   | 1170  | -    | C    | 116       |
| PCB-36   | 10.7  | -    | J    |           | PCB-86   | 25.6  | -    | J    |           |
| PCB-37   | 243   | -    |      |           | PCB-87   | 3850  | -    | C    | 117/125   |
| PCB-38   | 18.1  | -    | J    |           | PCB-88   | 2620  | -    | C    | 91        |
| PCB-39   | ND    | 7.35 |      |           | PCB-89   | 98.8  | -    |      |           |
| PCB-40   | 549   | -    |      |           | PCB-90   | 14400 | -    | C    | 101       |
| PCB-41   | 3930  | -    | C    | 64/71/72  | PCB-91   | -     | -    | C088 | 88        |
| PCB-42   | 797   | -    | C    | 59        | PCB-92   | -     | -    | C084 | 84        |
| PCB-43   | 6040  | -    | C    | 49        | PCB-93   | ND    | 5.07 |      |           |
| PCB-44   | 8290  | -    |      |           | PCB-94   | 103   | -    |      |           |
| PCB-45   | 436   | -    |      |           | PCB-95   | 16400 | -    |      |           |
| PCB-46   | 163   | -    |      |           | PCB-96   | 169   | -    |      |           |
| PCB-47   | 977   | -    |      |           | PCB-97   | 2910  | -    |      |           |
| PCB-48   | 628   | -    | C    | 75        | PCB-98   | ND    | 4.80 | C    | 102       |
| PCB-49   | -     | -    | C043 | 43        | PCB-99   | 5140  | -    |      |           |
| PCB-50   | ND    | 6.83 |      |           | PCB-100  | 53.8  | -    |      |           |

# EPA Modified Method 1668 PCBs



FAL ID: 8158-009-SA  
Client ID: HC20131102-A-9  
Matrix: PUF  
Batch No: X2965

Date Extracted: 11-06-2013  
Date Received: 11-05-2013  
Amount: 1.00 sample

ICal: DAILY209FAL4-11-8-13  
GC Column: DB1  
Units: pg/sample

Acquired: 11-08-2013

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| Compound | Conc | DL   | Qual | Coeluters | Compound | Conc | DL   | Qual | Coeluters |
|----------|------|------|------|-----------|----------|------|------|------|-----------|
| PCB-101  | -    | -    | C090 | 90        | PCB-151  | 781  | -    |      |           |
| PCB-102  | -    | -    | C098 | 98        | PCB-152  | 16.4 | -    | J    |           |
| PCB-103  | 131  | -    |      |           | PCB-153  | 1750 | -    |      |           |
| PCB-104  | ND   | 2.85 |      |           | PCB-154  | 55.3 | -    |      |           |
| PCB-105  | 960  | -    |      |           | PCB-155  | 10.9 | -    | J    |           |
| PCB-106  | 4240 | -    | C    | 118       | PCB-156  | 83.1 | -    |      |           |
| PCB-107  | 312  | -    | C    | 108       | PCB-157  | 18.2 | -    | J    |           |
| PCB-108  | -    | -    | C107 | 107       | PCB-158  | 245  | -    | C    | 160       |
| PCB-109  | ND   | 5.82 |      |           | PCB-159  | ND   | 3.68 |      |           |
| PCB-110  | 5950 | -    |      |           | PCB-160  | -    | -    | C158 | 158       |
| PCB-111  | 243  | -    | C    | 115       | PCB-161  | -    | -    | C132 | 132       |
| PCB-112  | -    | -    | C083 | 83        | PCB-162  | -    | -    | C128 | 128       |
| PCB-113  | ND   | 5.62 |      |           | PCB-163  | -    | -    | C138 | 138/164   |
| PCB-114  | 108  | -    |      |           | PCB-164  | -    | -    | C138 | 138/163   |
| PCB-115  | -    | -    | C111 | 111       | PCB-165  | -    | -    | C146 | 146       |
| PCB-116  | -    | -    | C085 | 85        | PCB-166  | 12.5 | -    | J    |           |
| PCB-117  | -    | -    | C087 | 87/125    | PCB-167  | 43.4 | -    |      |           |
| PCB-118  | -    | -    | C106 | 106       | PCB-168  | ND   | 4.01 |      |           |
| PCB-119  | 154  | -    |      |           | PCB-169  | ND   | 2.77 |      |           |
| PCB-120  | 15.7 | -    | J    |           | PCB-170  | 42.8 | -    |      |           |
| PCB-121  | ND   | 4.01 |      |           | PCB-171  | 29.7 | -    | J    |           |
| PCB-122  | 39.2 | -    | J    |           | PCB-172  | 16.1 | -    | J    |           |
| PCB-123  | 73.5 | -    |      |           | PCB-173  | ND   | 8.62 |      |           |
| PCB-124  | 226  | -    |      |           | PCB-174  | 98.0 | -    |      |           |
| PCB-125  | -    | -    | C087 | 87/117    | PCB-175  | ND   | 7.23 |      |           |
| PCB-126  | ND   | 6.54 |      |           | PCB-176  | 36.8 | -    | J    |           |
| PCB-127  | ND   | 8.67 |      |           | PCB-177  | 55.0 | -    |      |           |
| PCB-128  | 211  | -    | C    | 162       | PCB-178  | 32.5 | -    | J    |           |
| PCB-129  | 127  | -    |      |           | PCB-179  | 97.2 | -    |      |           |
| PCB-130  | 153  | -    |      |           | PCB-180  | 101  | -    |      |           |
| PCB-131  | 126  | -    | C    | 133       | PCB-181  | ND   | 7.46 |      |           |
| PCB-132  | 941  | -    | C    | 161       | PCB-182  | 138  | -    | C    | 187       |
| PCB-133  | -    | -    | C131 | 131       | PCB-183  | 73.9 | -    |      |           |
| PCB-134  | 261  | -    | C    | 143       | PCB-184  | ND   | 5.18 |      |           |
| PCB-135  | 576  | -    |      |           | PCB-185  | 15.7 | -    | J    |           |
| PCB-136  | 1050 | -    |      |           | PCB-186  | ND   | 5.75 |      |           |
| PCB-137  | 177  | -    |      |           | PCB-187  | -    | -    | C182 | 182       |
| PCB-138  | 1440 | -    | C    | 163/164   | PCB-188  | ND   | 4.91 |      |           |
| PCB-139  | 2890 | -    | C    | 149       | PCB-189  | ND   | 3.69 |      |           |
| PCB-140  | 24.8 | -    | J    |           | PCB-190  | 11.5 | -    | J    |           |
| PCB-141  | 381  | -    |      |           | PCB-191  | ND   | 5.73 |      |           |
| PCB-142  | ND   | 5.67 |      |           | PCB-192  | ND   | 6.57 |      |           |
| PCB-143  | -    | -    | C134 | 134       | PCB-193  | ND   | 5.67 |      |           |
| PCB-144  | 256  | -    |      |           | PCB-194  | ND   | 4.48 |      |           |
| PCB-145  | ND   | 7.73 |      |           | PCB-195  | ND   | 5.13 |      |           |
| PCB-146  | 313  | -    | C    | 165       | PCB-196  | 16.6 | -    | C,J  | 203       |
| PCB-147  | 125  | -    |      |           | PCB-197  | ND   | 4.86 |      |           |
| PCB-148  | ND   | 9.95 |      |           | PCB-198  | ND   | 7.31 |      |           |
| PCB-149  | -    | -    | C139 | 139       | PCB-199  | 18.8 | -    | J    |           |
| PCB-150  | 16.0 | -    | J    |           | PCB-200  | ND   | 4.68 |      |           |

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# EPA Modified Method 1668 PCBs



FAL ID: 8158-009-SA  
Client ID: HC20131102-A-9  
Matrix: PUF  
Batch No: X2965

Date Extracted: 11-06-2013  
Date Received: 11-05-2013  
Amount: 1.00 sample

ICal: DAILY209FAL4-11-8-13  
GC Column: DB1  
Units: pg/sample

Acquired: 11-08-2013

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| Compound | Conc | DL   | Qual   | Coeluters |
|----------|------|------|--------|-----------|
| PCB-201  | ND   | 4.59 |        |           |
| PCB-202  | 10.5 | -    | J      |           |
| PCB-203  | -    | -    | C196,J | 196       |
| PCB-204  | ND   | 4.72 |        |           |
| PCB-205  | ND   | 2.69 |        |           |
| PCB-206  | ND   | 7.45 |        |           |
| PCB-207  | ND   | 7.19 |        |           |
| PCB-208  | ND   | 5.19 |        |           |
| PCB-209  | ND   | 3.70 |        |           |

| Internal Standards | % Rec | QC Limits  | Qual |
|--------------------|-------|------------|------|
| 13C-PCB-1          | 97.2  | 5.00 - 145 |      |
| 13C-PCB-3          | 96.0  | 5.00 - 145 |      |
| 13C-PCB-4          | 93.3  | 5.00 - 145 |      |
| 13C-PCB-15         | 97.2  | 5.00 - 145 |      |
| 13C-PCB-19         | 92.0  | 5.00 - 145 |      |
| 13C-PCB-37         | 109   | 5.00 - 145 |      |
| 13C-PCB-54         | 89.4  | 5.00 - 145 |      |
| 13C-PCB-77         | 106   | 10.0 - 145 |      |
| 13C-PCB-81         | 104   | 10.0 - 145 |      |
| 13C-PCB-104        | 93.1  | 10.0 - 145 |      |
| 13C-PCB-105        | 107   | 10.0 - 145 |      |
| 13C-PCB-114        | 97.8  | 10.0 - 145 |      |
| 13C-PCB-118        | 99.1  | 10.0 - 145 |      |
| 13C-PCB-123        | 108   | 10.0 - 145 |      |
| 13C-PCB-126        | 109   | 10.0 - 145 |      |
| 13C-PCB-155        | 93.7  | 10.0 - 145 |      |
| 13C-PCB-156        | 103   | 10.0 - 145 |      |
| 13C-PCB-157        | 103   | 10.0 - 145 |      |
| 13C-PCB-167        | 102   | 10.0 - 145 |      |
| 13C-PCB-169        | 109   | 10.0 - 145 |      |
| 13C-PCB-188        | 90.4  | 10.0 - 145 |      |
| 13C-PCB-189        | 103   | 10.0 - 145 |      |
| 13C-PCB-202        | 90.5  | 10.0 - 145 |      |
| 13C-PCB-205        | 98.2  | 10.0 - 145 |      |
| 13C-PCB-206        | 95.4  | 10.0 - 145 |      |
| 13C-PCB-208        | 95.2  | 10.0 - 145 |      |
| 13C-PCB-209        | 90.6  | 10.0 - 145 |      |

| Pre-Spike Standards | % Rec | QC Limits  | Qual |
|---------------------|-------|------------|------|
| 13C-PCB-28          | 103   | 5.00 - 145 |      |
| 13C-PCB-111         | 97.3  | 10.0 - 145 |      |
| 13C-PCB-178         | 91.6  | 10.0 - 145 |      |

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Coelution
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- \* Result taken from dilution or reinjection

Analyst:   
Date: 11/13/2013

Reviewed By:   
Date: 11/13/2013

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# EPA Modified Method 1668 PCBs



FAL ID: 8158-010-SA  
Client ID: HC20131102-A-10  
Matrix: PUF  
Batch No: X2965

Date Extracted: 11-06-2013  
Date Received: 11-05-2013  
Amount: 1.00 sample

ICal: DAILY209FAL4-11-8-13  
GC Column: DB1  
Units: pg/sample

Acquired: 11-08-2013  
Total Conc: 128000

Page 1 of 3

| Compound | Conc  | DL   | Qual | Coeluters | Compound | Conc  | DL   | Qual | Coeluters |
|----------|-------|------|------|-----------|----------|-------|------|------|-----------|
| PCB-1    | 387   | -    |      |           | PCB-51   | 112   | -    |      |           |
| PCB-2    | 150   | -    |      |           | PCB-52   | 13400 | -    | C    | 69        |
| PCB-3    | 248   | -    |      |           | PCB-53   | 544   | -    |      |           |
| PCB-4    | 994   | -    |      |           | PCB-54   | ND    | 3.34 |      |           |
| PCB-5    | 67.2  | -    |      |           | PCB-55   | 48.3  | -    |      |           |
| PCB-6    | 451   | -    |      |           | PCB-56   | 676   | -    | C    | 60        |
| PCB-7    | 149   | -    |      |           | PCB-57   | ND    | 4.30 |      |           |
| PCB-8    | 2170  | -    |      |           | PCB-58   | ND    | 4.48 |      |           |
| PCB-9    | 174   | -    |      |           | PCB-59   | -     | -    | C042 | 42        |
| PCB-10   | 64.7  | -    |      |           | PCB-60   | -     | -    | C056 | 56        |
| PCB-11   | 26000 | -    | B    |           | PCB-61   | 5840  | -    | C    | 70        |
| PCB-12   | 24.6  | -    | J    |           | PCB-62   | ND    | 4.90 |      |           |
| PCB-13   | 89.0  | -    |      |           | PCB-63   | 80.9  | -    |      |           |
| PCB-14   | ND    | 8.58 |      |           | PCB-64   | -     | -    | C041 | 41/71/72  |
| PCB-15   | 443   | -    |      |           | PCB-65   | ND    | 4.33 |      |           |
| PCB-16   | 468   | -    |      |           | PCB-66   | 1800  | -    | C    | 76        |
| PCB-17   | 814   | -    |      |           | PCB-67   | 33.0  | -    | J    |           |
| PCB-18   | 2250  | -    |      |           | PCB-68   | 37.4  | -    | J    |           |
| PCB-19   | 161   | -    |      |           | PCB-69   | -     | -    | C052 | 52        |
| PCB-20   | 1030  | -    | C    | 21/33     | PCB-70   | -     | -    | C061 | 61        |
| PCB-21   | -     | -    | C020 | 20/33     | PCB-71   | -     | -    | C041 | 41/64/72  |
| PCB-22   | 502   | -    |      |           | PCB-72   | -     | -    | C041 | 41/64/71  |
| PCB-23   | ND    | 6.36 |      |           | PCB-73   | 15.3  | -    | J    |           |
| PCB-24   | 30.2  | -    | J    |           | PCB-74   | 1090  | -    |      |           |
| PCB-25   | 127   | -    |      |           | PCB-75   | -     | -    | C048 | 48        |
| PCB-26   | 270   | -    |      |           | PCB-76   | -     | -    | C066 | 66        |
| PCB-27   | 128   | -    |      |           | PCB-77   | 73.6  | -    |      |           |
| PCB-28   | 1400  | -    |      |           | PCB-78   | 23.1  | -    | J    |           |
| PCB-29   | 22.4  | -    | J    |           | PCB-79   | 79.3  | -    |      |           |
| PCB-30   | ND    | 3.17 |      |           | PCB-80   | ND    | 3.63 |      |           |
| PCB-31   | 1470  | -    |      |           | PCB-81   | 114   | -    |      |           |
| PCB-32   | 591   | -    |      |           | PCB-82   | 537   | -    |      |           |
| PCB-33   | -     | -    | C020 | 20/21     | PCB-83   | 285   | -    | C    | 112       |
| PCB-34   | ND    | 5.94 |      |           | PCB-84   | 3830  | -    | C    | 92        |
| PCB-35   | 111   | -    |      |           | PCB-85   | 757   | -    | C    | 116       |
| PCB-36   | 15.6  | -    | J    |           | PCB-86   | 14.3  | -    | J    |           |
| PCB-37   | 184   | -    |      |           | PCB-87   | 2500  | -    | C    | 117/125   |
| PCB-38   | 13.7  | -    | J    |           | PCB-88   | 1600  | -    | C    | 91        |
| PCB-39   | ND    | 5.88 |      |           | PCB-89   | 63.6  | -    |      |           |
| PCB-40   | 305   | -    |      |           | PCB-90   | 9040  | -    | C    | 101       |
| PCB-41   | 2170  | -    | C    | 64/71/72  | PCB-91   | -     | -    | C088 | 88        |
| PCB-42   | 459   | -    | C    | 59        | PCB-92   | -     | -    | C084 | 84        |
| PCB-43   | 3240  | -    | C    | 49        | PCB-93   | ND    | 4.52 |      |           |
| PCB-44   | 4500  | -    |      |           | PCB-94   | 61.0  | -    |      |           |
| PCB-45   | 258   | -    |      |           | PCB-95   | 9800  | -    |      |           |
| PCB-46   | 109   | -    |      |           | PCB-96   | 97.9  | -    |      |           |
| PCB-47   | 610   | -    |      |           | PCB-97   | 1930  | -    |      |           |
| PCB-48   | 352   | -    | C    | 75        | PCB-98   | ND    | 4.28 | C    | 102       |
| PCB-49   | -     | -    | C043 | 43        | PCB-99   | 3240  | -    |      |           |
| PCB-50   | ND    | 5.60 |      |           | PCB-100  | 32.6  | -    | J    |           |

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# EPA Modified Method 1668 PCBs



FAL ID: 8158-010-SA  
Client ID: HC20131102-A-10  
Matrix: PUF  
Batch No: X2965

Date Extracted: 11-06-2013  
Date Received: 11-05-2013  
Amount: 1.00 sample

ICal: DAILY209FAL4-11-8-13  
GC Column: DB1  
Units: pg/sample

Acquired: 11-08-2013

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| Compound | Conc | DL   | Qual | Coeluters | Compound | Conc | DL   | Qual | Coeluters |
|----------|------|------|------|-----------|----------|------|------|------|-----------|
| PCB-101  | -    | -    | C090 | 90        | PCB-151  | 511  | -    |      |           |
| PCB-102  | -    | -    | C098 | 98        | PCB-152  | 12.6 | -    | J    |           |
| PCB-103  | 83.0 | -    |      |           | PCB-153  | 1250 | -    | J    |           |
| PCB-104  | ND   | 2.54 |      |           | PCB-154  | 36.0 | -    | J    |           |
| PCB-105  | 751  | -    |      |           | PCB-155  | 10.0 | -    | J    |           |
| PCB-106  | 2980 | -    | C    | 118       | PCB-156  | 76.0 | -    |      |           |
| PCB-107  | 220  | -    | C    | 108       | PCB-157  | 19.8 | -    | J    |           |
| PCB-108  | -    | -    | C107 | 107       | PCB-158  | 183  | -    | C    | 160       |
| PCB-109  | ND   | 8.48 |      |           | PCB-159  | ND   | 3.49 |      |           |
| PCB-110  | 4070 | -    |      |           | PCB-160  | -    | -    | C158 | 158       |
| PCB-111  | 160  | -    | C    | 115       | PCB-161  | -    | -    | C132 | 132       |
| PCB-112  | -    | -    | C083 | 83        | PCB-162  | -    | -    | C128 | 128       |
| PCB-113  | ND   | 8.18 |      |           | PCB-163  | -    | -    | C138 | 138/164   |
| PCB-114  | 83.3 | -    |      |           | PCB-164  | -    | -    | C138 | 138/163   |
| PCB-115  | -    | -    | C111 | 111       | PCB-165  | -    | -    | C146 | 146       |
| PCB-116  | -    | -    | C085 | 85        | PCB-166  | 11.3 | -    | J    |           |
| PCB-117  | -    | -    | C087 | 87/125    | PCB-167  | 37.1 | -    | J    |           |
| PCB-118  | -    | -    | C106 | 106       | PCB-168  | ND   | 3.80 |      |           |
| PCB-119  | 90.8 | -    |      |           | PCB-169  | ND   | 3.20 |      |           |
| PCB-120  | 10.6 | -    | J    |           | PCB-170  | 38.1 | -    | J    |           |
| PCB-121  | ND   | 3.57 |      |           | PCB-171  | 24.9 | -    | J    |           |
| PCB-122  | 30.0 | -    | J    |           | PCB-172  | 14.4 | -    | J    |           |
| PCB-123  | 49.5 | -    |      |           | PCB-173  | ND   | 6.43 |      |           |
| PCB-124  | 162  | -    |      |           | PCB-174  | 70.7 | -    |      |           |
| PCB-125  | -    | -    | C087 | 87/117    | PCB-175  | ND   | 5.39 |      |           |
| PCB-126  | ND   | 6.18 |      |           | PCB-176  | 24.3 | -    | J    |           |
| PCB-127  | ND   | 8.18 |      |           | PCB-177  | 40.7 | -    |      |           |
| PCB-128  | 177  | -    | C    | 162       | PCB-178  | 24.8 | -    | J    |           |
| PCB-129  | 97.2 | -    |      |           | PCB-179  | 62.9 | -    |      |           |
| PCB-130  | 125  | -    |      |           | PCB-180  | 72.5 | -    |      |           |
| PCB-131  | 90.1 | -    | C    | 133       | PCB-181  | ND   | 5.57 |      |           |
| PCB-132  | 648  | -    | C    | 161       | PCB-182  | 93.0 | -    | C    | 187       |
| PCB-133  | -    | -    | C131 | 131       | PCB-183  | 50.8 | -    |      |           |
| PCB-134  | 185  | -    | C    | 143       | PCB-184  | ND   | 3.87 |      |           |
| PCB-135  | 401  | -    |      |           | PCB-185  | 14.3 | -    | J    |           |
| PCB-136  | 664  | -    |      |           | PCB-186  | ND   | 4.29 |      |           |
| PCB-137  | 119  | -    |      |           | PCB-187  | -    | -    | C182 | 182       |
| PCB-138  | 1070 | -    | C    | 163/164   | PCB-188  | ND   | 3.09 |      |           |
| PCB-139  | 1970 | -    | C    | 149       | PCB-189  | ND   | 3.42 |      |           |
| PCB-140  | 18.0 | -    | J    |           | PCB-190  | ND   | 4.78 |      |           |
| PCB-141  | 277  | -    |      |           | PCB-191  | ND   | 4.27 |      |           |
| PCB-142  | ND   | 5.37 |      |           | PCB-192  | ND   | 4.90 |      |           |
| PCB-143  | -    | -    | C134 | 134       | PCB-193  | ND   | 4.23 |      |           |
| PCB-144  | 176  | -    |      |           | PCB-194  | ND   | 3.82 |      |           |
| PCB-145  | ND   | 4.05 |      |           | PCB-195  | ND   | 4.37 |      |           |
| PCB-146  | 224  | -    | C    | 165       | PCB-196  | ND   | 8.42 | C    | 203       |
| PCB-147  | 84.5 | -    |      |           | PCB-197  | ND   | 6.42 |      |           |
| PCB-148  | ND   | 5.20 |      |           | PCB-198  | ND   | 9.66 |      |           |
| PCB-149  | -    | -    | C139 | 139       | PCB-199  | ND   | 9.29 |      |           |
| PCB-150  | 12.2 | -    | J    |           | PCB-200  | ND   | 6.18 |      |           |

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# EPA Modified Method 1668 PCBs



FAL ID: 8158-010-SA  
Client ID: HC20131102-A-10  
Matrix: PUF  
Batch No: X2965

Date Extracted: 11-06-2013  
Date Received: 11-05-2013  
Amount: 1.00 sample

ICal: DAILY209FAL4-11-8-13  
GC Column: DB1  
Units: pg/sample

Acquired: 11-08-2013

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| Compound | Conc | DL   | Qual | Coeluters |
|----------|------|------|------|-----------|
| PCB-201  | ND   | 6.06 |      |           |
| PCB-202  | ND   | 4.84 |      |           |
| PCB-203  | -    | -    | C196 | 196       |
| PCB-204  | ND   | 6.24 |      |           |
| PCB-205  | ND   | 2.29 |      |           |
| PCB-206  | ND   | 4.75 |      |           |
| PCB-207  | ND   | 4.61 |      |           |
| PCB-208  | ND   | 3.35 |      |           |
| PCB-209  | ND   | 4.57 |      |           |

| Internal Standards | % Rec | QC Limits  | Qual |
|--------------------|-------|------------|------|
| 13C-PCB-1          | 87.5  | 5.00 - 145 |      |
| 13C-PCB-3          | 87.4  | 5.00 - 145 |      |
| 13C-PCB-4          | 84.8  | 5.00 - 145 |      |
| 13C-PCB-15         | 93.7  | 5.00 - 145 |      |
| 13C-PCB-19         | 87.0  | 5.00 - 145 |      |
| 13C-PCB-37         | 102   | 5.00 - 145 |      |
| 13C-PCB-54         | 87.9  | 5.00 - 145 |      |
| 13C-PCB-77         | 99.4  | 10.0 - 145 |      |
| 13C-PCB-81         | 99.4  | 10.0 - 145 |      |
| 13C-PCB-104        | 87.8  | 10.0 - 145 |      |
| 13C-PCB-105        | 104   | 10.0 - 145 |      |
| 13C-PCB-114        | 103   | 10.0 - 145 |      |
| 13C-PCB-118        | 98.6  | 10.0 - 145 |      |
| 13C-PCB-123        | 108   | 10.0 - 145 |      |
| 13C-PCB-126        | 106   | 10.0 - 145 |      |
| 13C-PCB-155        | 90.2  | 10.0 - 145 |      |
| 13C-PCB-156        | 102   | 10.0 - 145 |      |
| 13C-PCB-157        | 100   | 10.0 - 145 |      |
| 13C-PCB-167        | 103   | 10.0 - 145 |      |
| 13C-PCB-169        | 107   | 10.0 - 145 |      |
| 13C-PCB-188        | 92.2  | 10.0 - 145 |      |
| 13C-PCB-189        | 103   | 10.0 - 145 |      |
| 13C-PCB-202        | 91.6  | 10.0 - 145 |      |
| 13C-PCB-205        | 94.9  | 10.0 - 145 |      |
| 13C-PCB-206        | 90.7  | 10.0 - 145 |      |
| 13C-PCB-208        | 91.1  | 10.0 - 145 |      |
| 13C-PCB-209        | 85.6  | 10.0 - 145 |      |

| Pre-Spike Standards | % Rec | QC Limits  | Qual |
|---------------------|-------|------------|------|
| 13C-PCB-28          | 89.2  | 5.00 - 145 |      |
| 13C-PCB-111         | 93.9  | 10.0 - 145 |      |
| 13C-PCB-178         | 94.4  | 10.0 - 145 |      |

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Coelution
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- \* Result taken from dilution or reinjection

Analyst:   
Date: 11/13/2013

Reviewed By:   
Date: 11/13/2013

# EPA Modified Method 1668 PCBs



FAL ID: 8158-011-SA  
Client ID: HC20131102-A-11  
Matrix: PUF  
Batch No: X2965

Date Extracted: 11-06-2013  
Date Received: 11-05-2013  
Amount: 1.00 sample

ICal: DAILY209FAL4-11-7-13  
GC Column: DB1  
Units: pg/sample

Acquired: 11-07-2013  
Total Conc: 30.4

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| Compound | Conc | DL   | Qual | Coeluters | Compound | Conc | DL   | Qual | Coeluters |
|----------|------|------|------|-----------|----------|------|------|------|-----------|
| PCB-1    | ND   | 2.04 |      |           | PCB-51   | ND   | 6.82 |      |           |
| PCB-2    | ND   | 2.77 |      |           | PCB-52   | ND   | 5.94 | C    | 69        |
| PCB-3    | ND   | 2.24 |      |           | PCB-53   | ND   | 6.99 |      |           |
| PCB-4    | ND   | 7.89 |      |           | PCB-54   | ND   | 3.82 |      |           |
| PCB-5    | ND   | 7.31 |      |           | PCB-55   | ND   | 5.14 |      |           |
| PCB-6    | ND   | 6.29 |      |           | PCB-56   | ND   | 3.41 | C    | 60        |
| PCB-7    | ND   | 7.88 |      |           | PCB-57   | ND   | 4.94 |      |           |
| PCB-8    | ND   | 7.80 |      |           | PCB-58   | ND   | 5.55 |      |           |
| PCB-9    | ND   | 6.65 |      |           | PCB-59   | -    | -    | C042 | 42        |
| PCB-10   | ND   | 7.06 |      |           | PCB-60   | -    | -    | C056 | 56        |
| PCB-11   | 30.4 | -    | B,J  |           | PCB-61   | ND   | 5.34 | C    | 70        |
| PCB-12   | ND   | 7.80 |      |           | PCB-62   | ND   | 5.01 |      |           |
| PCB-13   | ND   | 7.73 |      |           | PCB-63   | ND   | 4.92 |      |           |
| PCB-14   | ND   | 7.22 |      |           | PCB-64   | -    | -    | C041 | 41/71/72  |
| PCB-15   | ND   | 5.99 |      |           | PCB-65   | ND   | 5.67 |      |           |
| PCB-16   | ND   | 4.84 |      |           | PCB-66   | ND   | 4.71 | C    | 76        |
| PCB-17   | ND   | 5.73 |      |           | PCB-67   | ND   | 4.85 |      |           |
| PCB-18   | ND   | 6.74 |      |           | PCB-68   | ND   | 4.68 |      |           |
| PCB-19   | ND   | 4.79 |      |           | PCB-69   | -    | -    | C052 | 52        |
| PCB-20   | ND   | 6.38 | C    | 21/33     | PCB-70   | -    | -    | C061 | 61        |
| PCB-21   | -    | -    | C020 | 20/33     | PCB-71   | -    | -    | C041 | 41/64/72  |
| PCB-22   | ND   | 6.57 |      |           | PCB-72   | -    | -    | C041 | 41/64/71  |
| PCB-23   | ND   | 6.62 |      |           | PCB-73   | ND   | 4.84 |      |           |
| PCB-24   | ND   | 4.33 |      |           | PCB-74   | ND   | 3.72 |      |           |
| PCB-25   | ND   | 6.15 |      |           | PCB-75   | -    | -    | C048 | 48        |
| PCB-26   | ND   | 6.66 |      |           | PCB-76   | -    | -    | C066 | 66        |
| PCB-27   | ND   | 4.28 |      |           | PCB-77   | ND   | 3.04 |      |           |
| PCB-28   | ND   | 6.04 |      |           | PCB-78   | ND   | 3.54 |      |           |
| PCB-29   | ND   | 6.52 |      |           | PCB-79   | ND   | 3.55 |      |           |
| PCB-30   | ND   | 4.17 |      |           | PCB-80   | ND   | 4.19 |      |           |
| PCB-31   | ND   | 6.57 |      |           | PCB-81   | ND   | 3.22 |      |           |
| PCB-32   | ND   | 4.35 |      |           | PCB-82   | ND   | 9.68 |      |           |
| PCB-33   | -    | -    | C020 | 20/21     | PCB-83   | ND   | 6.95 | C    | 112       |
| PCB-34   | ND   | 7.98 |      |           | PCB-84   | ND   | 7.86 | C    | 92        |
| PCB-35   | ND   | 6.93 |      |           | PCB-85   | ND   | 6.48 | C    | 116       |
| PCB-36   | ND   | 6.54 |      |           | PCB-86   | ND   | 7.07 |      |           |
| PCB-37   | ND   | 5.09 |      |           | PCB-87   | ND   | 5.85 | C    | 117/125   |
| PCB-38   | ND   | 6.41 |      |           | PCB-88   | ND   | 6.70 | C    | 91        |
| PCB-39   | ND   | 6.90 |      |           | PCB-89   | ND   | 8.11 |      |           |
| PCB-40   | ND   | 8.77 |      |           | PCB-90   | ND   | 7.09 | C    | 101       |
| PCB-41   | ND   | 5.21 | C    | 64/71/72  | PCB-91   | -    | -    | C088 | 88        |
| PCB-42   | ND   | 5.66 | C    | 59        | PCB-92   | -    | -    | C084 | 84        |
| PCB-43   | ND   | 5.49 | C    | 49        | PCB-93   | ND   | 5.97 |      |           |
| PCB-44   | ND   | 5.98 |      |           | PCB-94   | ND   | 7.40 |      |           |
| PCB-45   | ND   | 7.49 |      |           | PCB-95   | ND   | 5.56 |      |           |
| PCB-46   | ND   | 7.85 |      |           | PCB-96   | ND   | 4.59 |      |           |
| PCB-47   | ND   | 5.87 |      |           | PCB-97   | ND   | 7.71 |      |           |
| PCB-48   | ND   | 5.40 | C    | 75        | PCB-98   | ND   | 5.84 | C    | 102       |
| PCB-49   | -    | -    | C043 | 43        | PCB-99   | ND   | 6.01 |      |           |
| PCB-50   | ND   | 6.38 |      |           | PCB-100  | ND   | 6.14 |      |           |

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# EPA Modified Method 1668 PCBs



FAL ID: 8158-011-SA  
Client ID: HC20131102-A-11  
Matrix: PUF  
Batch No: X2965

Date Extracted: 11-06-2013  
Date Received: 11-05-2013  
Amount: 1.00 sample

ICal: DAILY209FAL4-11-7-13  
GC Column: DB1  
Units: pg/sample

Acquired: 11-07-2013

Page 2 of 3

| Compound | Conc | DL   | Qual | Coeluters | Compound | Conc | DL   | Qual | Coeluters |
|----------|------|------|------|-----------|----------|------|------|------|-----------|
| PCB-101  | -    | -    | C090 | 90        | PCB-151  | ND   | 7.20 |      |           |
| PCB-102  | -    | -    | C098 | 98        | PCB-152  | ND   | 3.48 |      |           |
| PCB-103  | ND   | 5.64 |      |           | PCB-153  | ND   | 5.16 |      |           |
| PCB-104  | ND   | 3.31 |      |           | PCB-154  | ND   | 4.10 |      |           |
| PCB-105  | ND   | 6.23 |      |           | PCB-155  | ND   | 2.46 |      |           |
| PCB-106  | ND   | 6.78 | C    | 118       | PCB-156  | ND   | 5.78 |      |           |
| PCB-107  | ND   | 6.72 | C    | 108       | PCB-157  | ND   | 6.01 |      |           |
| PCB-108  | -    | -    | C107 | 107       | PCB-158  | ND   | 5.11 | C    | 160       |
| PCB-109  | ND   | 6.12 |      |           | PCB-159  | ND   | 5.05 |      |           |
| PCB-110  | ND   | 4.11 |      |           | PCB-160  | -    | -    | C158 | 158       |
| PCB-111  | ND   | 5.29 | C    | 115       | PCB-161  | -    | -    | C132 | 132       |
| PCB-112  | -    | -    | C083 | 83        | PCB-162  | -    | -    | C128 | 128       |
| PCB-113  | ND   | 6.75 |      |           | PCB-163  | -    | -    | C138 | 138/164   |
| PCB-114  | ND   | 7.40 |      |           | PCB-164  | -    | -    | C138 | 138/163   |
| PCB-115  | -    | -    | C111 | 111       | PCB-165  | -    | -    | C146 | 146       |
| PCB-116  | -    | -    | C085 | 85        | PCB-166  | ND   | 5.21 |      |           |
| PCB-117  | -    | -    | C087 | 87/125    | PCB-167  | ND   | 5.30 |      |           |
| PCB-118  | -    | -    | C106 | 106       | PCB-168  | ND   | 5.38 |      |           |
| PCB-119  | ND   | 5.49 |      |           | PCB-169  | ND   | 4.58 |      |           |
| PCB-120  | ND   | 5.15 |      |           | PCB-170  | ND   | 4.99 |      |           |
| PCB-121  | ND   | 4.91 |      |           | PCB-171  | ND   | 3.98 |      |           |
| PCB-122  | ND   | 6.58 |      |           | PCB-172  | ND   | 4.39 |      |           |
| PCB-123  | ND   | 7.79 |      |           | PCB-173  | ND   | 4.60 |      |           |
| PCB-124  | ND   | 7.94 |      |           | PCB-174  | ND   | 3.95 |      |           |
| PCB-125  | -    | -    | C087 | 87/117    | PCB-175  | ND   | 4.17 |      |           |
| PCB-126  | ND   | 5.71 |      |           | PCB-176  | ND   | 2.79 |      |           |
| PCB-127  | ND   | 7.22 |      |           | PCB-177  | ND   | 4.37 |      |           |
| PCB-128  | ND   | 6.72 | C    | 162       | PCB-178  | ND   | 4.04 |      |           |
| PCB-129  | ND   | 7.82 |      |           | PCB-179  | ND   | 2.70 |      |           |
| PCB-130  | ND   | 7.13 |      |           | PCB-180  | ND   | 3.86 |      |           |
| PCB-131  | ND   | 7.16 | C    | 133       | PCB-181  | ND   | 4.15 |      |           |
| PCB-132  | ND   | 6.11 | C    | 161       | PCB-182  | ND   | 3.58 | C    | 187       |
| PCB-133  | -    | -    | C131 | 131       | PCB-183  | ND   | 3.65 |      |           |
| PCB-134  | ND   | 7.19 | C    | 143       | PCB-184  | ND   | 2.73 |      |           |
| PCB-135  | ND   | 8.42 |      |           | PCB-185  | ND   | 4.17 |      |           |
| PCB-136  | ND   | 3.85 |      |           | PCB-186  | ND   | 3.00 |      |           |
| PCB-137  | ND   | 8.05 |      |           | PCB-187  | -    | -    | C182 | 182       |
| PCB-138  | ND   | 4.84 | C    | 163/164   | PCB-188  | ND   | 2.36 |      |           |
| PCB-139  | ND   | 6.46 | C    | 149       | PCB-189  | ND   | 2.35 |      |           |
| PCB-140  | ND   | 6.15 |      |           | PCB-190  | ND   | 3.48 |      |           |
| PCB-141  | ND   | 6.75 |      |           | PCB-191  | ND   | 3.22 |      |           |
| PCB-142  | ND   | 7.47 |      |           | PCB-192  | ND   | 3.50 |      |           |
| PCB-143  | -    | -    | C134 | 134       | PCB-193  | ND   | 3.10 |      |           |
| PCB-144  | ND   | 5.87 |      |           | PCB-194  | ND   | 4.05 |      |           |
| PCB-145  | ND   | 3.67 |      |           | PCB-195  | ND   | 4.46 |      |           |
| PCB-146  | ND   | 5.71 | C    | 165       | PCB-196  | ND   | 5.23 | C    | 203       |
| PCB-147  | ND   | 6.54 |      |           | PCB-197  | ND   | 3.89 |      |           |
| PCB-148  | ND   | 4.23 |      |           | PCB-198  | ND   | 5.74 |      |           |
| PCB-149  | -    | -    | C139 | 139       | PCB-199  | ND   | 6.13 |      |           |
| PCB-150  | ND   | 3.68 |      |           | PCB-200  | ND   | 3.75 |      |           |

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# EPA Modified Method 1668 PCBs



FAL ID: 8158-011-SA  
Client ID: HC20131102-A-11  
Matrix: PUF  
Batch No: X2965

Date Extracted: 11-06-2013  
Date Received: 11-05-2013  
Amount: 1.00 sample

ICal: DAILY209FAL4-11-7-13  
GC Column: DB1  
Units: pg/sample

Acquired: 11-07-2013

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| Compound | Conc | DL   | Qual | Coeluters |
|----------|------|------|------|-----------|
| PCB-201  | ND   | 3.86 |      |           |
| PCB-202  | ND   | 2.97 |      |           |
| PCB-203  | -    | -    | C196 | 196       |
| PCB-204  | ND   | 3.64 |      |           |
| PCB-205  | ND   | 2.36 |      |           |
| PCB-206  | ND   | 3.46 |      |           |
| PCB-207  | ND   | 3.71 |      |           |
| PCB-208  | ND   | 2.83 |      |           |
| PCB-209  | ND   | 3.07 |      |           |

| Internal Standards | % Rec | QC Limits  | Qual |
|--------------------|-------|------------|------|
| 13C-PCB-1          | 84.1  | 5.00 - 145 |      |
| 13C-PCB-3          | 82.4  | 5.00 - 145 |      |
| 13C-PCB-4          | 93.6  | 5.00 - 145 |      |
| 13C-PCB-15         | 97.2  | 5.00 - 145 |      |
| 13C-PCB-19         | 89.7  | 5.00 - 145 |      |
| 13C-PCB-37         | 105   | 5.00 - 145 |      |
| 13C-PCB-54         | 108   | 5.00 - 145 |      |
| 13C-PCB-77         | 104   | 10.0 - 145 |      |
| 13C-PCB-81         | 104   | 10.0 - 145 |      |
| 13C-PCB-104        | 101   | 10.0 - 145 |      |
| 13C-PCB-105        | 105   | 10.0 - 145 |      |
| 13C-PCB-114        | 103   | 10.0 - 145 |      |
| 13C-PCB-118        | 104   | 10.0 - 145 |      |
| 13C-PCB-123        | 102   | 10.0 - 145 |      |
| 13C-PCB-126        | 110   | 10.0 - 145 |      |
| 13C-PCB-155        | 95.7  | 10.0 - 145 |      |
| 13C-PCB-156        | 105   | 10.0 - 145 |      |
| 13C-PCB-157        | 108   | 10.0 - 145 |      |
| 13C-PCB-167        | 109   | 10.0 - 145 |      |
| 13C-PCB-169        | 114   | 10.0 - 145 |      |
| 13C-PCB-188        | 105   | 10.0 - 145 |      |
| 13C-PCB-189        | 112   | 10.0 - 145 |      |
| 13C-PCB-202        | 101   | 10.0 - 145 |      |
| 13C-PCB-205        | 105   | 10.0 - 145 |      |
| 13C-PCB-206        | 102   | 10.0 - 145 |      |
| 13C-PCB-208        | 94.7  | 10.0 - 145 |      |
| 13C-PCB-209        | 97.2  | 10.0 - 145 |      |

| Pre-Spike Standards | % Rec | QC Limits  | Qual |
|---------------------|-------|------------|------|
| 13C-PCB-28          | 112   | 5.00 - 145 |      |
| 13C-PCB-111         | 94.2  | 10.0 - 145 |      |
| 13C-PCB-178         | 99.1  | 10.0 - 145 |      |

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Coelution
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- \* Result taken from dilution or reinjection

Analyst:   
Date: 11/13/2013

Reviewed By:   
Date: 11/13/2013

000039 of 000046

# EPA Modified Method 1668 PCBs



FAL ID: 8158-012-SA  
Client ID: HC20131102-A-12  
Matrix: PUF  
Batch No: X2965

Date Extracted: 11-06-2013  
Date Received: 11-05-2013  
Amount: 1.00 sample

ICal: DAILY209FAL4-11-7-13  
GC Column: DB1  
Units: pg/sample

Acquired: 11-07-2013  
Total Conc: 19.4

Page 1 of 3

| Compound | Conc | DL   | Qual | Coeluters | Compound | Conc | DL   | Qual | Coeluters |
|----------|------|------|------|-----------|----------|------|------|------|-----------|
| PCB-1    | ND   | 1.94 |      |           | PCB-51   | ND   | 5.14 |      |           |
| PCB-2    | ND   | 2.56 |      |           | PCB-52   | ND   | 4.47 | C    | 69        |
| PCB-3    | ND   | 2.02 |      |           | PCB-53   | ND   | 5.26 |      |           |
| PCB-4    | ND   | 8.12 |      |           | PCB-54   | ND   | 2.88 |      |           |
| PCB-5    | ND   | 7.35 |      |           | PCB-55   | ND   | 3.87 |      |           |
| PCB-6    | ND   | 6.32 |      |           | PCB-56   | ND   | 4.30 | C    | 60        |
| PCB-7    | ND   | 7.93 |      |           | PCB-57   | ND   | 3.72 |      |           |
| PCB-8    | ND   | 7.85 |      |           | PCB-58   | ND   | 4.18 |      |           |
| PCB-9    | ND   | 6.69 |      |           | PCB-59   | -    | -    | C042 | 42        |
| PCB-10   | ND   | 7.10 |      |           | PCB-60   | -    | -    | C056 | 56        |
| PCB-11   | 19.4 | -    | B,J  |           | PCB-61   | ND   | 4.02 | C    | 70        |
| PCB-12   | ND   | 7.85 |      |           | PCB-62   | ND   | 3.77 |      |           |
| PCB-13   | ND   | 7.77 |      |           | PCB-63   | ND   | 3.70 |      |           |
| PCB-14   | ND   | 7.26 |      |           | PCB-64   | -    | -    | C041 | 41/71/72  |
| PCB-15   | ND   | 5.92 |      |           | PCB-65   | ND   | 4.27 |      |           |
| PCB-16   | ND   | 5.10 |      |           | PCB-66   | ND   | 3.54 | C    | 76        |
| PCB-17   | ND   | 6.02 |      |           | PCB-67   | ND   | 3.65 |      |           |
| PCB-18   | ND   | 7.09 |      |           | PCB-68   | ND   | 3.52 |      |           |
| PCB-19   | ND   | 5.04 |      |           | PCB-69   | -    | -    | C052 | 52        |
| PCB-20   | ND   | 4.56 | C    | 21/33     | PCB-70   | -    | -    | C061 | 61        |
| PCB-21   | -    | -    | C020 | 20/33     | PCB-71   | -    | -    | C041 | 41/64/72  |
| PCB-22   | ND   | 4.70 |      |           | PCB-72   | -    | -    | C041 | 41/64/71  |
| PCB-23   | ND   | 4.74 |      |           | PCB-73   | ND   | 3.65 |      |           |
| PCB-24   | ND   | 4.55 |      |           | PCB-74   | ND   | 2.80 |      |           |
| PCB-25   | ND   | 4.40 |      |           | PCB-75   | -    | -    | C048 | 48        |
| PCB-26   | ND   | 4.76 |      |           | PCB-76   | -    | -    | C066 | 66        |
| PCB-27   | ND   | 4.51 |      |           | PCB-77   | ND   | 3.97 |      |           |
| PCB-28   | ND   | 4.32 |      |           | PCB-78   | ND   | 4.46 |      |           |
| PCB-29   | ND   | 4.66 |      |           | PCB-79   | ND   | 4.48 |      |           |
| PCB-30   | ND   | 4.38 |      |           | PCB-80   | ND   | 3.16 |      |           |
| PCB-31   | ND   | 4.70 |      |           | PCB-81   | ND   | 3.90 |      |           |
| PCB-32   | ND   | 4.57 |      |           | PCB-82   | ND   | 9.02 |      |           |
| PCB-33   | -    | -    | C020 | 20/21     | PCB-83   | ND   | 6.47 | C    | 112       |
| PCB-34   | ND   | 5.69 |      |           | PCB-84   | ND   | 7.33 | C    | 92        |
| PCB-35   | ND   | 4.96 |      |           | PCB-85   | ND   | 6.04 | C    | 116       |
| PCB-36   | ND   | 4.68 |      |           | PCB-86   | ND   | 6.59 |      |           |
| PCB-37   | ND   | 3.64 |      |           | PCB-87   | ND   | 5.46 | C    | 117/125   |
| PCB-38   | ND   | 4.58 |      |           | PCB-88   | ND   | 7.58 | C    | 91        |
| PCB-39   | ND   | 4.93 |      |           | PCB-89   | ND   | 7.56 |      |           |
| PCB-40   | ND   | 6.60 |      |           | PCB-90   | ND   | 6.61 | C    | 101       |
| PCB-41   | ND   | 3.92 | C    | 64/71/72  | PCB-91   | -    | -    | C088 | 88        |
| PCB-42   | ND   | 4.26 | C    | 59        | PCB-92   | -    | -    | C084 | 84        |
| PCB-43   | ND   | 4.13 | C    | 49        | PCB-93   | ND   | 6.75 |      |           |
| PCB-44   | ND   | 4.50 |      |           | PCB-94   | ND   | 8.37 |      |           |
| PCB-45   | ND   | 5.64 |      |           | PCB-95   | ND   | 6.29 |      |           |
| PCB-46   | ND   | 5.91 |      |           | PCB-96   | ND   | 5.19 |      |           |
| PCB-47   | ND   | 4.42 |      |           | PCB-97   | ND   | 7.19 |      |           |
| PCB-48   | ND   | 4.07 | C    | 75        | PCB-98   | ND   | 6.60 | C    | 102       |
| PCB-49   | -    | -    | C043 | 43        | PCB-99   | ND   | 5.60 |      |           |
| PCB-50   | ND   | 4.80 |      |           | PCB-100  | ND   | 6.94 |      |           |

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# EPA Modified Method 1668 PCBs



FAL ID: 8158-012-SA  
Client ID: HC20131102-A-12  
Matrix: PUF  
Batch No: X2965

Date Extracted: 11-06-2013  
Date Received: 11-05-2013  
Amount: 1.00 sample

ICal: DAILY209FAL4-11-7-13  
GC Column: DB1  
Units: pg/sample

Acquired: 11-07-2013

Page 2 of 3

| Compound | Conc | DL   | Qual | Coeluters | Compound | Conc | DL   | Qual | Coeluters |
|----------|------|------|------|-----------|----------|------|------|------|-----------|
| PCB-101  | -    | -    | C090 | 90        | PCB-151  | ND   | 7.81 |      |           |
| PCB-102  | -    | -    | C098 | 98        | PCB-152  | ND   | 3.66 |      |           |
| PCB-103  | ND   | 6.37 |      |           | PCB-153  | ND   | 5.59 |      |           |
| PCB-104  | ND   | 3.74 |      |           | PCB-154  | ND   | 4.31 |      |           |
| PCB-105  | ND   | 6.73 |      |           | PCB-155  | ND   | 2.58 |      |           |
| PCB-106  | ND   | 7.24 | C    | 118       | PCB-156  | ND   | 6.31 |      |           |
| PCB-107  | ND   | 6.51 | C    | 108       | PCB-157  | ND   | 6.80 |      |           |
| PCB-108  | -    | -    | C107 | 107       | PCB-158  | ND   | 5.54 | C    | 160       |
| PCB-109  | ND   | 5.71 |      |           | PCB-159  | ND   | 5.48 |      |           |
| PCB-110  | ND   | 3.83 |      |           | PCB-160  | -    | -    | C158 | 158       |
| PCB-111  | ND   | 4.93 | C    | 115       | PCB-161  | -    | -    | C132 | 132       |
| PCB-112  | -    | -    | C083 | 83        | PCB-162  | -    | -    | C128 | 128       |
| PCB-113  | ND   | 6.29 |      |           | PCB-163  | -    | -    | C138 | 138/164   |
| PCB-114  | ND   | 6.69 |      |           | PCB-164  | -    | -    | C138 | 138/163   |
| PCB-115  | -    | -    | C111 | 111       | PCB-165  | -    | -    | C146 | 146       |
| PCB-116  | -    | -    | C085 | 85        | PCB-166  | ND   | 5.65 |      |           |
| PCB-117  | -    | -    | C087 | 87/125    | PCB-167  | ND   | 5.86 |      |           |
| PCB-118  | -    | -    | C106 | 106       | PCB-168  | ND   | 5.83 |      |           |
| PCB-119  | ND   | 5.12 |      |           | PCB-169  | ND   | 4.62 |      |           |
| PCB-120  | ND   | 4.80 |      |           | PCB-170  | ND   | 7.42 |      |           |
| PCB-121  | ND   | 5.55 |      |           | PCB-171  | ND   | 5.92 |      |           |
| PCB-122  | ND   | 6.37 |      |           | PCB-172  | ND   | 6.54 |      |           |
| PCB-123  | ND   | 6.49 |      |           | PCB-173  | ND   | 6.85 |      |           |
| PCB-124  | ND   | 7.68 |      |           | PCB-174  | ND   | 5.88 |      |           |
| PCB-125  | -    | -    | C087 | 87/117    | PCB-175  | ND   | 6.20 |      |           |
| PCB-126  | ND   | 5.84 |      |           | PCB-176  | ND   | 4.16 |      |           |
| PCB-127  | ND   | 6.99 |      |           | PCB-177  | ND   | 6.51 |      |           |
| PCB-128  | ND   | 7.28 | C    | 162       | PCB-178  | ND   | 6.01 |      |           |
| PCB-129  | ND   | 8.48 |      |           | PCB-179  | ND   | 4.02 |      |           |
| PCB-130  | ND   | 7.73 |      |           | PCB-180  | ND   | 5.75 |      |           |
| PCB-131  | ND   | 7.77 | C    | 133       | PCB-181  | ND   | 6.17 |      |           |
| PCB-132  | ND   | 6.63 | C    | 161       | PCB-182  | ND   | 5.32 | C    | 187       |
| PCB-133  | -    | -    | C131 | 131       | PCB-183  | ND   | 5.44 |      |           |
| PCB-134  | ND   | 7.80 | C    | 143       | PCB-184  | ND   | 4.07 |      |           |
| PCB-135  | ND   | 9.14 |      |           | PCB-185  | ND   | 6.21 |      |           |
| PCB-136  | ND   | 4.04 |      |           | PCB-186  | ND   | 4.46 |      |           |
| PCB-137  | ND   | 8.73 |      |           | PCB-187  | -    | -    | C182 | 182       |
| PCB-138  | ND   | 5.24 | C    | 163/164   | PCB-188  | ND   | 3.55 |      |           |
| PCB-139  | ND   | 7.01 | C    | 149       | PCB-189  | ND   | 3.46 |      |           |
| PCB-140  | ND   | 6.67 |      |           | PCB-190  | ND   | 5.17 |      |           |
| PCB-141  | ND   | 7.32 |      |           | PCB-191  | ND   | 4.79 |      |           |
| PCB-142  | ND   | 8.11 |      |           | PCB-192  | ND   | 5.21 |      |           |
| PCB-143  | -    | -    | C134 | 134       | PCB-193  | ND   | 4.61 |      |           |
| PCB-144  | ND   | 6.37 |      |           | PCB-194  | ND   | 5.53 |      |           |
| PCB-145  | ND   | 3.85 |      |           | PCB-195  | ND   | 6.09 |      |           |
| PCB-146  | ND   | 6.19 | C    | 165       | PCB-196  | ND   | 7.09 | C    | 203       |
| PCB-147  | ND   | 7.10 |      |           | PCB-197  | ND   | 5.27 |      |           |
| PCB-148  | ND   | 4.44 |      |           | PCB-198  | ND   | 7.77 |      |           |
| PCB-149  | -    | -    | C139 | 139       | PCB-199  | ND   | 8.31 |      |           |
| PCB-150  | ND   | 3.86 |      |           | PCB-200  | ND   | 5.09 |      |           |

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# EPA Modified Method 1668 PCBs



FAL ID: 8158-012-SA  
Client ID: HC20131102-A-12  
Matrix: PUF  
Batch No: X2965

Date Extracted: 11-06-2013  
Date Received: 11-05-2013  
Amount: 1.00 sample

ICal: DAILY209FAL4-11-7-13  
GC Column: DB1  
Units: pg/sample

Acquired: 11-07-2013

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| Compound | Conc | DL   | Qual | Coeluters |
|----------|------|------|------|-----------|
| PCB-201  | ND   | 5.23 |      |           |
| PCB-202  | ND   | 4.03 |      |           |
| PCB-203  | -    | -    | C196 | 196       |
| PCB-204  | ND   | 4.93 |      |           |
| PCB-205  | ND   | 3.22 |      |           |
| PCB-206  | ND   | 4.27 |      |           |
| PCB-207  | ND   | 4.39 |      |           |
| PCB-208  | ND   | 3.21 |      |           |
| PCB-209  | ND   | 4.48 |      |           |

| Internal Standards | % Rec | QC Limits  | Qual |
|--------------------|-------|------------|------|
| 13C-PCB-1          | 83.6  | 5.00 - 145 |      |
| 13C-PCB-3          | 85.6  | 5.00 - 145 |      |
| 13C-PCB-4          | 91.4  | 5.00 - 145 |      |
| 13C-PCB-15         | 94.1  | 5.00 - 145 |      |
| 13C-PCB-19         | 86.8  | 5.00 - 145 |      |
| 13C-PCB-37         | 101   | 5.00 - 145 |      |
| 13C-PCB-54         | 98.0  | 5.00 - 145 |      |
| 13C-PCB-77         | 96.9  | 10.0 - 145 |      |
| 13C-PCB-81         | 98.8  | 10.0 - 145 |      |
| 13C-PCB-104        | 90.6  | 10.0 - 145 |      |
| 13C-PCB-105        | 95.4  | 10.0 - 145 |      |
| 13C-PCB-114        | 102   | 10.0 - 145 |      |
| 13C-PCB-118        | 97.2  | 10.0 - 145 |      |
| 13C-PCB-123        | 102   | 10.0 - 145 |      |
| 13C-PCB-126        | 101   | 10.0 - 145 |      |
| 13C-PCB-155        | 92.2  | 10.0 - 145 |      |
| 13C-PCB-156        | 96.6  | 10.0 - 145 |      |
| 13C-PCB-157        | 98.2  | 10.0 - 145 |      |
| 13C-PCB-167        | 101   | 10.0 - 145 |      |
| 13C-PCB-169        | 105   | 10.0 - 145 |      |
| 13C-PCB-188        | 94.9  | 10.0 - 145 |      |
| 13C-PCB-189        | 103   | 10.0 - 145 |      |
| 13C-PCB-202        | 92.4  | 10.0 - 145 |      |
| 13C-PCB-205        | 89.5  | 10.0 - 145 |      |
| 13C-PCB-206        | 87.3  | 10.0 - 145 |      |
| 13C-PCB-208        | 84.0  | 10.0 - 145 |      |
| 13C-PCB-209        | 85.3  | 10.0 - 145 |      |

| Pre-Spike Standards | % Rec | QC Limits  | Qual |
|---------------------|-------|------------|------|
| 13C-PCB-28          | 107   | 5.00 - 145 |      |
| 13C-PCB-111         | 90.1  | 10.0 - 145 |      |
| 13C-PCB-178         | 93.9  | 10.0 - 145 |      |

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Coelution
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- \* Result taken from dilution or reinjection

Analyst:   
Date: 11/13/2013

Reviewed By:   
Date: 11/13/2013

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Frontier Analytical Laboratory  
5172 Hillside Circle  
El Dorado Hills, CA 95762  
Tel: 916-934-0900  
Fax: 916-934-0999

### FAL USE ONLY

Laboratory Project No.: 8158  
Temperature: 0 °C

## Chain of Custody

www.frontieranalytical.com

Please Print in Pen Page 1 of 1

| CLIENT INFORMATION                                                                                                            |                       |  |  |  | INVOICE INFORMATION (if different from client info)                          |      |            |                 |            | PROJECT INFORMATION                                                                                                                                     |          |            |             |             |            |                                     |        |                |                                                                     |                                   |
|-------------------------------------------------------------------------------------------------------------------------------|-----------------------|--|--|--|------------------------------------------------------------------------------|------|------------|-----------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------|-------------|-------------|------------|-------------------------------------|--------|----------------|---------------------------------------------------------------------|-----------------------------------|
| Company Name: <u>Phylmar Group</u>                                                                                            |                       |  |  |  | Company Name: <u>Same</u>                                                    |      |            |                 |            | FAL Quote #: <u>2711A</u>                                                                                                                               |          |            |             |             |            |                                     |        |                |                                                                     |                                   |
| Contact Name: <u>Mark Katchen</u>                                                                                             |                       |  |  |  | Contact Name: _____                                                          |      |            |                 |            | P.O. #: _____                                                                                                                                           |          |            |             |             |            |                                     |        |                |                                                                     |                                   |
| Address: <u>2342 Manning Ave., Los Angeles, CA 90064</u>                                                                      |                       |  |  |  | Address: _____                                                               |      |            |                 |            | Project #: <u>365-001A</u>                                                                                                                              |          |            |             |             |            |                                     |        |                |                                                                     |                                   |
| Phone: <u>310-474-3937</u> Fax: _____                                                                                         |                       |  |  |  | Phone: _____ Fax: _____                                                      |      |            |                 |            | Project Name: <u>MHS / Cgbr.110 Monitoring</u>                                                                                                          |          |            |             |             |            |                                     |        |                |                                                                     |                                   |
| Email: <u>mkatchen@phylmar.com</u>                                                                                            |                       |  |  |  | Email: _____                                                                 |      |            |                 |            | TAT (business days): <input type="checkbox"/> 15 <input checked="" type="checkbox"/> 10 <input type="checkbox"/> 5* <input type="checkbox"/> 3* (✓ one) |          |            |             |             |            |                                     |        |                |                                                                     |                                   |
|                                                                                                                               |                       |  |  |  |                                                                              |      |            |                 |            | * FAL must agree with price and RUSH TAT in writing.                                                                                                    |          |            |             |             |            |                                     |        |                |                                                                     |                                   |
| REPORT INFORMATION                                                                                                            |                       |  |  |  | REPORT DISTRIBUTION (email only is preferred)                                |      |            |                 |            | ADDITIONAL INSTRUCTIONS                                                                                                                                 |          |            |             |             |            |                                     |        |                |                                                                     |                                   |
| Report Level: <input type="checkbox"/> I/II <input type="checkbox"/> III <input type="checkbox"/> IV                          |                       |  |  |  | <input type="checkbox"/> Hardcopy                                            |      |            |                 |            |                                                                                                                                                         |          |            |             |             |            |                                     |        |                |                                                                     |                                   |
| <input type="checkbox"/> EDD: <input type="checkbox"/> FAL Basic <input type="checkbox"/> Geotracker                          |                       |  |  |  | <input type="checkbox"/> CD (.pdf including EDDs if requested)               |      |            |                 |            |                                                                                                                                                         |          |            |             |             |            |                                     |        |                |                                                                     |                                   |
| <input type="checkbox"/> Other: _____ <input type="checkbox"/> Custom: Contact FAL                                            |                       |  |  |  | <input checked="" type="checkbox"/> Email (.pdf including EDDs if requested) |      |            |                 |            |                                                                                                                                                         |          |            |             |             |            |                                     |        |                |                                                                     |                                   |
| <input type="checkbox"/> California State Drinking Water Form                                                                 |                       |  |  |  |                                                                              |      |            |                 |            |                                                                                                                                                         |          |            |             |             |            |                                     |        |                |                                                                     |                                   |
| System #: _____ Source #: _____                                                                                               |                       |  |  |  |                                                                              |      |            |                 |            |                                                                                                                                                         |          |            |             |             |            |                                     |        |                |                                                                     |                                   |
| Sampler: _____ Employer: _____                                                                                                |                       |  |  |  |                                                                              |      |            |                 |            |                                                                                                                                                         |          |            |             |             |            |                                     |        |                |                                                                     |                                   |
| Sample ID                                                                                                                     |                       |  |  |  | Date                                                                         | Time | Matrix     | # of containers | EPA 1613** | EPA 8290**                                                                                                                                              | DLM 02.0 | EPA 8280** | Appendix IX | EPA TO-9/9A | EPA 23/23A | EPA 1668                            | FAL 15 | Other          | **CONGENERS                                                         | **TEQ                             |
|                                                                                                                               |                       |  |  |  | Collected                                                                    |      |            |                 |            |                                                                                                                                                         |          |            |             |             |            |                                     |        |                |                                                                     |                                   |
| 1                                                                                                                             | <u>HC20131102-A-1</u> |  |  |  | <u>11/2/13</u>                                                               |      | <u>Air</u> | <u>1</u>        |            |                                                                                                                                                         |          |            |             |             |            | <input checked="" type="checkbox"/> |        |                | <input type="checkbox"/> 2,3,7,8-TCDD only                          | <input type="checkbox"/> 1998 WHO |
| 2                                                                                                                             | <u>A-2</u>            |  |  |  |                                                                              |      |            |                 |            |                                                                                                                                                         |          |            |             |             |            | <input checked="" type="checkbox"/> |        |                | <input type="checkbox"/> 2,3,7,8-TCDD/F only                        | <input type="checkbox"/> 2005 WHO |
| 3                                                                                                                             | <u>A-3</u>            |  |  |  |                                                                              |      |            |                 |            |                                                                                                                                                         |          |            |             |             |            | <input checked="" type="checkbox"/> |        |                | <input type="checkbox"/> PCDD/F (Cl <sub>4</sub> -Cl <sub>8</sub> ) | <input type="checkbox"/> Other    |
| 4                                                                                                                             | <u>A-4</u>            |  |  |  |                                                                              |      |            |                 |            |                                                                                                                                                         |          |            |             |             |            | <input checked="" type="checkbox"/> |        |                | Remarks                                                             |                                   |
| 5                                                                                                                             | <u>A-5</u>            |  |  |  |                                                                              |      |            |                 |            |                                                                                                                                                         |          |            |             |             |            | <input checked="" type="checkbox"/> |        |                |                                                                     |                                   |
| 6                                                                                                                             | <u>A-6</u>            |  |  |  |                                                                              |      |            |                 |            |                                                                                                                                                         |          |            |             |             |            | <input checked="" type="checkbox"/> |        |                | Volume = 10,260 liters                                              |                                   |
| 7                                                                                                                             | <u>A-7</u>            |  |  |  |                                                                              |      |            |                 |            |                                                                                                                                                         |          |            |             |             |            | <input checked="" type="checkbox"/> |        |                | Volume = 10,248 liters                                              |                                   |
| 8                                                                                                                             | <u>A-8</u>            |  |  |  |                                                                              |      |            |                 |            |                                                                                                                                                         |          |            |             |             |            | <input checked="" type="checkbox"/> |        |                | Volume = 10,163 liters                                              |                                   |
| 9                                                                                                                             | <u>A-9</u>            |  |  |  |                                                                              |      |            |                 |            |                                                                                                                                                         |          |            |             |             |            | <input checked="" type="checkbox"/> |        |                | Volume = 10,089 liters                                              |                                   |
| 10                                                                                                                            | <u>A-10</u>           |  |  |  |                                                                              |      |            |                 |            |                                                                                                                                                         |          |            |             |             |            | <input checked="" type="checkbox"/> |        |                | Volume = 10,016 liters                                              |                                   |
| 11                                                                                                                            | <u>A-11</u>           |  |  |  |                                                                              |      |            |                 |            |                                                                                                                                                         |          |            |             |             |            | <input checked="" type="checkbox"/> |        |                | Volume = 9,992 liters                                               |                                   |
| 12                                                                                                                            | <u>A-12</u>           |  |  |  |                                                                              |      |            |                 |            |                                                                                                                                                         |          |            |             |             |            | <input checked="" type="checkbox"/> |        |                | Volume = 9,870 liters                                               |                                   |
| 13                                                                                                                            |                       |  |  |  |                                                                              |      |            |                 |            |                                                                                                                                                         |          |            |             |             |            | <input checked="" type="checkbox"/> |        |                | Volume = 9,833 liters                                               |                                   |
| 14                                                                                                                            |                       |  |  |  |                                                                              |      |            |                 |            |                                                                                                                                                         |          |            |             |             |            | <input checked="" type="checkbox"/> |        |                | Volume = 9,792 liters                                               |                                   |
| 15                                                                                                                            |                       |  |  |  |                                                                              |      |            |                 |            |                                                                                                                                                         |          |            |             |             |            | <input checked="" type="checkbox"/> |        |                | Volume = 9,736 liters                                               |                                   |
| Blank                                                                                                                         |                       |  |  |  |                                                                              |      |            |                 |            |                                                                                                                                                         |          |            |             |             |            |                                     |        |                |                                                                     |                                   |
| Blank                                                                                                                         |                       |  |  |  |                                                                              |      |            |                 |            |                                                                                                                                                         |          |            |             |             |            |                                     |        |                |                                                                     |                                   |
| Samples will be disposed of 90 days after sample receipt unless other arrangements have been made and agreed upon in writing. |                       |  |  |  |                                                                              |      |            |                 |            |                                                                                                                                                         |          |            |             |             |            |                                     |        |                |                                                                     |                                   |
| Relinquished by: (Signature and Printed Name)                                                                                 |                       |  |  |  |                                                                              |      |            | Date            | Time       | Received by: (Signature and Printed Name)                                                                                                               |          |            |             |             |            |                                     |        | Date           | Time                                                                |                                   |
| <u>Steven Modtland</u>                                                                                                        |                       |  |  |  |                                                                              |      |            | <u>11/4/13</u>  | <u>-</u>   | <u>Kathy Zap</u> <u>KZap</u>                                                                                                                            |          |            |             |             |            |                                     |        | <u>11/5/13</u> | <u>1105</u>                                                         |                                   |

Client understands that all terms described in the proposals, quotations, and/or the general terms provided in the current FAL price schedules will be followed.  
FAL reserves the rights to terminate its service or withhold delivery of reports, if in FAL's sole discretion the terms of the project have been broken.

White Copy - Report

Yellow Copy - Laboratory

Pink Copy - Originator

## Frontier Analytical Laboratory

### Sample Login Form

FAL Project ID: **8158**

|                        |                   |
|------------------------|-------------------|
| Client:                | The Phylmar Group |
| Client Project ID:     | 365-001A          |
| Date Received:         | 11/05/2013        |
| Time Received:         | 11:05 am          |
| Received By:           | KZ                |
| Logged In By:          | KZ                |
| # of Samples Received: | 12                |
| Duplicates:            | 0                 |
| Storage Location:      | R2                |

|                                           |           |
|-------------------------------------------|-----------|
| Method of Delivery:                       | Other     |
| Tracking Number:                          | 523102461 |
| Shipping Container Received Intact        | Yes       |
| Custody seals(s) present?                 | No        |
| Custody seals(s) intact?                  | No        |
| Sample Arrival Temperature (C)            | 0         |
| Cooling Method                            | Ice       |
| Chain Of Custody Present?                 | Yes       |
| Return Shipping Container To Client       | No        |
| Test aqueous sample for residual Chlorine | No        |
| Sodium Thiosulfate Added                  | No        |
| Adequate Sample Volume                    | Yes       |
| Appropriate Sample Container              | Yes       |
| pH Range of Aqueous Sample                | N/A       |
| Anomalies or additional comments:         |           |
|                                           |           |







Frontier Analytical Laboratory  
5172 Hillside Circle  
El Dorado Hills, CA 95762  
Tel: 916-934-0900  
Fax: 916-934-0999

**FAL USE ONLY**

Laboratory Project No.: 8158  
Temperature: 0 °C

**Chain of Custody**

www.frontieranalytical.com

Please Print in Pen Page 1 of 1

|                                                                                                                                                                                                              |                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CLIENT INFORMATION</b><br>Company Name: Phylmar Group<br>Contact Name: Mark Katchen<br>Address: 2342 Manning Ave., Los Angeles, CA 90064<br>Phone: 310-474-3937 Fax: _____<br>Email: mkatchen@phylmar.com | <b>INVOICE INFORMATION</b> (if different from client info)<br>Company Name: Same<br>Contact Name: _____<br>Address: _____<br>Phone: _____ Fax: _____<br>Email: _____ | <b>PROJECT INFORMATION</b><br>FAL Quote #: 2711A<br>P.O. #: _____<br>Project #: 365-001A<br>Project Name: <u>MHS / Cg by / no / (date) / (day)</u><br>TAT (business days): <input type="checkbox"/> 15 <input checked="" type="checkbox"/> 10 <input type="checkbox"/> 5* <input type="checkbox"/> 3* (V one)<br>* FAL must agree with price and RUSH TAT in writing |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                               |                                                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| <b>REPORT INFORMATION</b><br>Report Level: <input type="checkbox"/> I/II <input type="checkbox"/> III <input type="checkbox"/> IV<br><input type="checkbox"/> EDD: <input type="checkbox"/> FAL Basic <input type="checkbox"/> Geotracker<br>[California] System #: _____<br>Sampler: _____ | <b>REPORT DISTRIBUTION</b> (email only is preferred)<br><input type="checkbox"/> Hardcopy<br><input type="checkbox"/> CD (.pdf including EDDs if requested)<br>[California] System #: _____<br>Sampler: _____ | <b>ADDITIONAL INSTRUCTIONS</b><br>[California] System #: _____<br>Sampler: _____ |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|

White Copy - #

