Supplemental Table I. Area air sample results for location 1 – battery breaker

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Day** | **Filter**  **mass** | **Rinse**  **mass** | **Wipe 1**  **mass** | **Wipe 2**  **mass** | **Total**  **mass** | **Time** | **Volume** | **Total concentration\*** |
|  | **(µg)** | **(µg)** | **(µg)** | **(µg)** | **(µg)** | **(minutes)** | **(L)** | **(µg/m3)** |
| 1 | 97.0 | – | 12.0 | 0.460 | 109 | 432 | 859 | 130 |
|  | 95.0 | – | 10.0 | 0.970 | 106 | 432 | 860 | 120 |
|  | 82.0 | – | 9.00 | 0.960 | 92.0 | 432 | 853 | 110 |
|  | 76.0 | 3.10 | 3.60 | 1.20 | 83.9 | 432 | 863 | 97 |
|  | 89.0 | 2.70 | 6.80 | 1.50 | 100 | 432 | 859 | 120 |
|  | 79.0 | 3.70 | 6.10 | 1.00 | 89.8 | 432 | 867 | 100 |
| 2 | 68.0 | – | 40.0 | 5.20 | 113 | 540 | 1070 | 110 |
|  | 79.0 | – | 57.0 | 8.20 | 144 | 540 | 1070 | 130 |
|  | 34.0 | – | 18.0 | 7.00 | 59.0 | 297† | 593 | 99 |
|  | 93.0 | 11.0 | 13.0 | 6.20 | 123 | 540 | 1100 | 110 |
|  | 100 | 12.0 | 20.0 | 7.50 | 139 | 540 | 1090 | 130 |
|  | 96.0 | 15.0 | 20.0 | 4.90 | 136 | 540 | 1070 | 130 |
| 3 | 180 | – | 18.0 | 5.00 | 203 | 442 | 884 | 230 |
|  | 190 | – | 15.0 | 2.50 | 208 | 442 | 881 | 240 |
|  | 180 | – | 19.0 | 2.80 | 202 | 442 | 882 | 230 |
|  | 200 | 6.30 | 9.60 | 2.10 | 218 | 442 | 882 | 250 |
|  | 190 | 8.90 | 13.0 | 4.20 | 216 | 442 | 878 | 250 |
|  | 200 | 9.10 | 15.0 | 4.20 | 228 | 442 | 871 | 260 |
| \*Average concentration rounded to two significant digits while mass was rounded to three significant figures.  †This sample had a shorter sampling time due to unexpected pump failure. | | | | | | | | |

Supplemental Table II. Area air sample results for location 2 – furnaces

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Day** | **Filter**  **mass** | **Rinse**  **mass** | **Wipe 1**  **mass** | **Wipe 2**  **mass** | **Total**  **mass** | **Time** | **Volume** | **Total**  **concentration\*** |
|  | **(µg)** | **(µg)** | **(µg)** | **(µg)** | **(µg)** | **(minutes)** | **(L)** | **(µg/m3)** |
| 1 | 45.0 | – | 16.0 | 3.70 | 65.0 | 434 | 859 | 75 |
|  | 34.0 | – | 23.0 | 3.90 | 61.0 | 434 | 854 | 71 |
|  | 44.0 | – | 21.0 | 5.30 | 70.0 | 434 | 865 | 81 |
|  | 33.0 | 21.0 | 14.0 | 3.20 | 71.2 | 434 | 861 | 83 |
|  | 30.0 | 20.0 | 12.0 | 2.70 | 64.7 | 364† | 725 | 89 |
|  | 41.0 | 13.0 | 15.0 | 3.00 | 72.0 | 434 | 863 | 84 |
| 2 | 56.0 | – | 26.0 | 7.50 | 90.0 | 502 | 1000 | 90 |
|  | 53.0 | – | 31.0 | 5.80 | 90.0 | 502 | 999 | 90 |
|  | 64.0 | – | 21.0 | 6.20 | 91.0 | 502 | 1010 | 90 |
|  | 59.0 | 14.0 | 12.0 | 4.80 | 89.8 | 502 | 996 | 90 |
|  | 60.0 | 21.0 | 20.0 | 6.30 | 107 | 502 | 1000 | 110 |
|  | 65.0 | 15.0 | 23.0 | 4.50 | 107 | 502 | 1000 | 110 |
| 3 | 140 | – | 52.0 | 17.0 | 209 | 428 | 864 | 240 |
|  | 140 | – | 46.0 | 19.0 | 205 | 428 | 837 | 250 |
|  | 140 | – | 39.0 | 16.0 | 195 | 428 | 859 | 230 |
|  | 160 | 18.0 | 34.0 | 4.30 | 216 | 428 | 857 | 250 |
|  | 140 | 38.0 | 30.0 | 6.80 | 215 | 428 | 860 | 250 |
|  | 150 | 31.0 | 36.0 | 7.70 | 225 | 428 | 855 | 260 |
| \*Average concentration rounded to two significant digits while mass was rounded to three significant figures.  †This sample had a shorter sampling time due to unexpected pump failure. | | | | | | | | |

Supplemental Table III. Area air sample results for location 3 – kettles

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Day** | **Filter**  **mass** | **Rinse**  **mass** | **Wipe 1**  **mass** | **Wipe 2**  **mass** | **Total**  **mass** | **Time** | **Volume** | **Total**  **concentration\*** |
|  | **(µg)** | **(µg)** | **(µg)** | **(µg)** | **(µg)** | **(minutes)** | **(L)** | **(µg/m3)** |
| 1 | 160 | – | 38.0 | 4.10 | 202 | 436 | 869 | 230 |
|  | 140 | – | 30.0 | 8.10 | 178 | 282† | 557 | 320 |
|  | 140 | – | 28.0 | 11.0 | 179 | 436 | 861 | 210 |
|  | 92.0 | 6.10 | 21.0 | 6.90 | 126 | 436 | 866 | 150 |
|  | 90.0 | 6.30 | 17.0 | 4.90 | 118 | 436 | 861 | 140 |
|  | 110 | 11.0 | 23.0 | 5.00 | 149 | 436 | 865 | 170 |
| 2 | 33.0 | – | 8.50 | 2.30 | 43.8 | 509 | 1010 | 43 |
|  | 48.0 | – | 21.0 | 4.50 | 73.5 | 509 | 1010 | 73 |
|  | 59.0 | – | 36.0 | 22.0 | 117 | 509 | 1020 | 120 |
|  | 30.0 | 5.60 | 8.90 | 2.60 | 47.1 | 509 | 1020 | 46 |
|  | 33.0 | 4.00 | 14.0 | 2.50 | 53.5 | 509 | 1020 | 52 |
|  | 57.0 | 7.70 | 15.0 | 3.10 | 82.8 | 509 | 1020 | 81 |
| 3 | 69.0 | – | 25.0 | 2.60 | 97.0 | 432 | 861 | 110 |
|  | 72.0 | – | 36.0 | 1.90 | 110 | 432 | 880 | 130 |
|  | 51.0 | – | 15.0 | 3.70 | 70.0 | 432 | 869 | 80 |
|  | 61.0 | 9.20 | 10.0 | 2.10 | 82.3 | 432 | 871 | 95 |
|  | 65.0 | 8.40 | 12.0 | 1.40 | 86.8 | 432 | 864 | 100 |
|  | 54.0 | 4.70 | 7.30 | 1.10 | 67.1 | 432 | 884 | 76 |
| \*Average concentration rounded to two significant digits while mass was rounded to three significant figures.  †This sample had a shorter sampling time due to unexpected pump failure. | | | | | | | | |