

## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1232

Client: RU2 Engineering, LLC

Analytical Method: 8270E

DataFile: BF141441.D

| Lab Sample ID | Parameter                   | Spike | Result | Unit  | Rec | RPD | Qual | RPD  |     | Limits |     |
|---------------|-----------------------------|-------|--------|-------|-----|-----|------|------|-----|--------|-----|
|               |                             |       |        |       |     |     |      | Qual | Low | High   | RPD |
| PB166418BS    | Benzaldehyde                | 1700  | 1700   | ug/Kg | 100 |     |      |      | 10  | 133    |     |
|               | Phenol                      | 1700  | 1400   | ug/Kg | 82  |     |      |      | 62  | 112    |     |
|               | bis(2-Chloroethyl)ether     | 1700  | 1400   | ug/Kg | 82  |     |      |      | 60  | 101    |     |
|               | 2-Chlorophenol              | 1700  | 1500   | ug/Kg | 88  |     |      |      | 65  | 112    |     |
|               | 2-Methylphenol              | 1700  | 1400   | ug/Kg | 82  |     |      |      | 61  | 108    |     |
|               | 2,2-oxybis(1-Chloropropane) | 1700  | 1300   | ug/Kg | 76  |     |      |      | 51  | 100    |     |
|               | Acetophenone                | 1700  | 1700   | ug/Kg | 100 |     | *    |      | 66  | 98     |     |
|               | 3+4-Methylphenols           | 1700  | 1500   | ug/Kg | 88  |     |      |      | 58  | 111    |     |
|               | N-Nitroso-di-n-propylamine  | 1700  | 1400   | ug/Kg | 82  |     |      |      | 63  | 95     |     |
|               | Hexachloroethane            | 1700  | 1500   | ug/Kg | 88  |     |      |      | 72  | 108    |     |
|               | Nitrobenzene                | 1700  | 1400   | ug/Kg | 82  |     |      |      | 57  | 101    |     |
|               | Isophorone                  | 1700  | 1500   | ug/Kg | 88  |     |      |      | 59  | 99     |     |
|               | 2-Nitrophenol               | 1700  | 1500   | ug/Kg | 88  |     |      |      | 61  | 111    |     |
|               | 2,4-Dimethylphenol          | 1700  | 1800   | ug/Kg | 106 |     |      |      | 46  | 141    |     |
|               | bis(2-Chloroethoxy)methane  | 1700  | 1300   | ug/Kg | 76  |     |      |      | 66  | 97     |     |
|               | 2,4-Dichlorophenol          | 1700  | 1500   | ug/Kg | 88  |     |      |      | 62  | 107    |     |
|               | Naphthalene                 | 1700  | 1400   | ug/Kg | 82  |     |      |      | 62  | 100    |     |
|               | 4-Chloroaniline             | 1700  | 580    | ug/Kg | 34  |     |      |      | 16  | 100    |     |
|               | Hexachlorobutadiene         | 1700  | 1500   | ug/Kg | 88  |     |      |      | 53  | 98     |     |
|               | Caprolactam                 | 1700  | 1600   | ug/Kg | 94  |     |      |      | 67  | 110    |     |
|               | 4-Chloro-3-methylphenol     | 1700  | 1500   | ug/Kg | 88  |     |      |      | 58  | 112    |     |
|               | 2-Methylnaphthalene         | 1700  | 1400   | ug/Kg | 82  |     |      |      | 60  | 104    |     |
|               | Hexachlorocyclopentadiene   | 3300  | 6300   | ug/Kg | 191 |     | *    |      | 45  | 165    |     |
|               | 2,4,6-Trichlorophenol       | 1700  | 1500   | ug/Kg | 88  |     |      |      | 59  | 102    |     |
|               | 2,4,5-Trichlorophenol       | 1700  | 1400   | ug/Kg | 82  |     |      |      | 61  | 98     |     |
|               | 1,1-Biphenyl                | 1700  | 1600   | ug/Kg | 94  |     |      |      | 57  | 103    |     |
|               | 2-Chloronaphthalene         | 1700  | 1400   | ug/Kg | 82  |     |      |      | 58  | 99     |     |
|               | 2-Nitroaniline              | 1700  | 1500   | ug/Kg | 88  |     |      |      | 66  | 101    |     |
|               | Dimethylphthalate           | 1700  | 1500   | ug/Kg | 88  |     |      |      | 61  | 99     |     |
|               | Acenaphthylene              | 1700  | 1600   | ug/Kg | 94  |     |      |      | 63  | 101    |     |
|               | 2,6-Dinitrotoluene          | 1700  | 1400   | ug/Kg | 82  |     |      |      | 61  | 104    |     |
|               | 3-Nitroaniline              | 1700  | 750    | ug/Kg | 44  |     |      |      | 28  | 100    |     |
|               | Acenaphthene                | 1700  | 1700   | ug/Kg | 100 |     |      |      | 57  | 104    |     |
|               | 2,4-Dinitrophenol           | 3300  | 3700   | ug/Kg | 112 |     |      |      | 37  | 128    |     |
|               | 4-Nitrophenol               | 3300  | 3200   | ug/Kg | 97  |     |      |      | 48  | 119    |     |
|               | Dibenzofuran                | 1700  | 1500   | ug/Kg | 88  |     |      |      | 63  | 99     |     |
|               | 2,4-Dinitrotoluene          | 1700  | 1500   | ug/Kg | 88  |     |      |      | 60  | 106    |     |
|               | Diethylphthalate            | 1700  | 1500   | ug/Kg | 88  |     |      |      | 60  | 101    |     |
|               | 4-Chlorophenyl-phenylether  | 1700  | 1500   | ug/Kg | 88  |     |      |      | 58  | 98     |     |
|               | Fluorene                    | 1700  | 1500   | ug/Kg | 88  |     |      |      | 61  | 101    |     |
|               | 4-Nitroaniline              | 1700  | 1500   | ug/Kg | 88  |     |      |      | 64  | 103    |     |
|               | 4,6-Dinitro-2-methylphenol  | 1700  | 1700   | ug/Kg | 100 |     |      |      | 76  | 113    |     |
|               | N-Nitrosodiphenylamine      | 1700  | 1500   | ug/Kg | 88  |     |      |      | 71  | 99     |     |
|               | 4-Bromophenyl-phenylether   | 1700  | 1500   | ug/Kg | 88  |     |      |      | 66  | 102    |     |

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|---------------|----------------------------|-------|--------|-------|-----|-----|------|------|-----|--------|--|-----|
|               |                            |       |        |       |     |     |      | Qual | Low | High   |  |     |
| PB166418BS    | Hexachlorobenzene          | 1700  | 1500   | ug/Kg | 88  |     |      |      | 64  | 98     |  |     |
|               | Atrazine                   | 1700  | 1700   | ug/Kg | 100 |     |      |      | 47  | 152    |  |     |
|               | Pentachlorophenol          | 3300  | 3100   | ug/Kg | 94  |     |      |      | 67  | 105    |  |     |
|               | Phenanthrene               | 1700  | 1500   | ug/Kg | 88  |     |      |      | 59  | 103    |  |     |
|               | Anthracene                 | 1700  | 1600   | ug/Kg | 94  |     |      |      | 61  | 105    |  |     |
|               | Carbazole                  | 1700  | 1600   | ug/Kg | 94  |     |      |      | 61  | 99     |  |     |
|               | Di-n-butylphthalate        | 1700  | 1500   | ug/Kg | 88  |     |      |      | 58  | 104    |  |     |
|               | Fluoranthene               | 1700  | 1600   | ug/Kg | 94  |     |      |      | 57  | 107    |  |     |
|               | Pyrene                     | 1700  | 1400   | ug/Kg | 82  |     |      |      | 59  | 103    |  |     |
|               | Butylbenzylphthalate       | 1700  | 1500   | ug/Kg | 88  |     |      |      | 55  | 103    |  |     |
|               | 3,3-Dichlorobenzidine      | 1700  | 710    | ug/Kg | 42  |     |      |      | 42  | 91     |  |     |
|               | Benzo(a)anthracene         | 1700  | 1500   | ug/Kg | 88  |     |      |      | 60  | 102    |  |     |
|               | Chrysene                   | 1700  | 1400   | ug/Kg | 82  |     |      |      | 59  | 101    |  |     |
|               | bis(2-Ethylhexyl)phthalate | 1700  | 1500   | ug/Kg | 88  |     |      |      | 54  | 135    |  |     |
|               | Di-n-octyl phthalate       | 1700  | 1400   | ug/Kg | 82  |     |      |      | 52  | 137    |  |     |
|               | Benzo(b)fluoranthene       | 1700  | 1400   | ug/Kg | 82  |     |      |      | 62  | 109    |  |     |
|               | Benzo(k)fluoranthene       | 1700  | 1600   | ug/Kg | 94  |     |      |      | 62  | 109    |  |     |
|               | Benzo(a)pyrene             | 1700  | 1600   | ug/Kg | 94  |     |      |      | 63  | 103    |  |     |
|               | Indeno(1,2,3-cd)pyrene     | 1700  | 1500   | ug/Kg | 88  |     |      |      | 63  | 101    |  |     |
|               | Dibenz(a,h)anthracene      | 1700  | 1500   | ug/Kg | 88  |     |      |      | 61  | 112    |  |     |
|               | Benzo(g,h,i)perylene       | 1700  | 1400   | ug/Kg | 82  |     |      |      | 70  | 108    |  |     |
|               | 1,2,4,5-Tetrachlorobenzene | 1700  | 1600   | ug/Kg | 94  |     |      |      | 53  | 101    |  |     |
|               | 1,4-Dioxane                | 1700  | 1300   | ug/Kg | 76  |     |      |      | 50  | 96     |  |     |
|               | 2,3,4,6-Tetrachlorophenol  | 1700  | 1600   | ug/Kg | 94  |     |      |      | 59  | 108    |  |     |