

**Matrix Spike/Matrix Spike Duplicate Summary**

**SW-846**

**SDG No.:** Q3395

**Analytical Method:** SW8270E

**Client:** AECOM

**DataFile:** BF144087.D

| Parameter                        | Spike | Sample Result                                        | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Low | Limits High | RPD |
|----------------------------------|-------|------------------------------------------------------|--------|-------|-----|----------|-----|----------|-----|-------------|-----|
| <b>Lab Sample ID: Q3395-03MS</b> |       | <b>Client Sample ID: PR132-S07-000102-22510170MS</b> |        |       |     |          |     |          |     |             |     |
| Benzaldehyde                     | 3500  | 0                                                    | 1200   | ug/Kg | 34  |          |     |          | 10  | 171         |     |
| Phenol                           | 3500  | 0                                                    | 1800   | ug/Kg | 51  |          |     |          | 51  | 122         |     |
| bis(2-Chloroethyl)ether          | 3500  | 0                                                    | 2500   | ug/Kg | 71  |          |     |          | 54  | 125         |     |
| 2-Chlorophenol                   | 3500  | 0                                                    | 2400   | ug/Kg | 69  |          |     |          | 51  | 121         |     |
| 2-Methylphenol                   | 3500  | 0                                                    | 2600   | ug/Kg | 74  |          |     |          | 47  | 125         |     |
| 2,2-oxybis(1-Chloropropane)      | 3500  | 0                                                    | 2800   | ug/Kg | 80  |          |     |          | 46  | 119         |     |
| Acetophenone                     | 3500  | 0                                                    | 2900   | ug/Kg | 83  |          |     |          | 55  | 128         |     |
| 3+4-Methylphenols                | 3500  | 0                                                    | 2700   | ug/Kg | 77  |          |     |          | 49  | 125         |     |
| N-Nitroso-di-n-propylamine       | 3500  | 0                                                    | 3000   | ug/Kg | 86  |          |     |          | 59  | 119         |     |
| Hexachloroethane                 | 3500  | 0                                                    | 2700   | ug/Kg | 77  |          |     |          | 51  | 116         |     |
| Nitrobenzene                     | 3500  | 0                                                    | 2500   | ug/Kg | 71  |          |     |          | 47  | 124         |     |
| Isophorone                       | 3500  | 0                                                    | 2900   | ug/Kg | 83  |          |     |          | 49  | 127         |     |
| 2-Nitrophenol                    | 3500  | 0                                                    | 2800   | ug/Kg | 80  |          |     |          | 43  | 131         |     |
| 2,4-Dimethylphenol               | 3500  | 0                                                    | 3100   | ug/Kg | 89  |          |     |          | 63  | 151         |     |
| bis(2-Chloroethoxy)methane       | 3500  | 0                                                    | 2800   | ug/Kg | 80  |          |     |          | 51  | 119         |     |
| 2,4-Dichlorophenol               | 3500  | 0                                                    | 2800   | ug/Kg | 80  |          |     |          | 50  | 122         |     |
| Naphthalene                      | 3500  | 0                                                    | 2700   | ug/Kg | 77  |          |     |          | 51  | 121         |     |
| 4-Chloroaniline                  | 3500  | 0                                                    | 3200   | ug/Kg | 91  |          |     |          | 10  | 100         |     |
| Hexachlorobutadiene              | 3500  | 0                                                    | 2600   | ug/Kg | 74  |          |     |          | 44  | 126         |     |
| Caprolactam                      | 3500  | 0                                                    | 3700   | ug/Kg | 106 |          |     |          | 51  | 134         |     |
| 4-Chloro-3-methylphenol          | 3500  | 0                                                    | 3200   | ug/Kg | 91  |          |     |          | 57  | 132         |     |
| 2-Methylnaphthalene              | 3500  | 0                                                    | 2700   | ug/Kg | 77  |          |     |          | 59  | 123         |     |
| Hexachlorocyclopentadiene        | 6900  | 0                                                    | 6000   | ug/Kg | 87  |          |     |          | 10  | 175         |     |
| 2,4,6-Trichlorophenol            | 3500  | 0                                                    | 3000   | ug/Kg | 86  |          |     |          | 33  | 141         |     |
| 2,4,5-Trichlorophenol            | 3500  | 0                                                    | 3000   | ug/Kg | 86  |          |     |          | 38  | 135         |     |
| 1,1-Biphenyl                     | 3500  | 0                                                    | 3100   | ug/Kg | 89  |          |     |          | 55  | 131         |     |
| 2-Chloronaphthalene              | 3500  | 0                                                    | 2800   | ug/Kg | 80  |          |     |          | 48  | 124         |     |
| 2-Nitroaniline                   | 3500  | 0                                                    | 3300   | ug/Kg | 94  |          |     |          | 47  | 134         |     |
| Dimethylphthalate                | 3500  | 0                                                    | 3200   | ug/Kg | 91  |          |     |          | 54  | 120         |     |
| Acenaphthylene                   | 3500  | 0                                                    | 3200   | ug/Kg | 91  |          |     |          | 57  | 125         |     |
| 2,6-Dinitrotoluene               | 3500  | 0                                                    | 3400   | ug/Kg | 97  |          |     |          | 48  | 127         |     |
| 3-Nitroaniline                   | 3500  | 0                                                    | 3500   | ug/Kg | 100 |          |     |          | 10  | 112         |     |
| Acenaphthene                     | 3500  | 0                                                    | 3100   | ug/Kg | 89  |          |     |          | 70  | 121         |     |
| 2,4-Dinitrophenol                | 6900  | 0                                                    | 4900   | ug/Kg | 71  |          |     |          | 10  | 155         |     |
| 4-Nitrophenol                    | 6900  | 0                                                    | 6600   | ug/Kg | 96  |          |     |          | 10  | 175         |     |
| Dibenzofuran                     | 3500  | 0                                                    | 3000   | ug/Kg | 86  |          |     |          | 52  | 114         |     |
| 2,4-Dinitrotoluene               | 3500  | 0                                                    | 3700   | ug/Kg | 106 |          |     |          | 41  | 140         |     |
| Diethylphthalate                 | 3500  | 0                                                    | 3400   | ug/Kg | 97  |          |     |          | 51  | 119         |     |
| 4-Chlorophenyl-phenylether       | 3500  | 0                                                    | 3100   | ug/Kg | 89  |          |     |          | 48  | 122         |     |
| Fluorene                         | 3500  | 0                                                    | 3200   | ug/Kg | 91  |          |     |          | 53  | 118         |     |
| 4-Nitroaniline                   | 3500  | 0                                                    | 3500   | ug/Kg | 100 |          |     |          | 29  | 140         |     |
| 4,6-Dinitro-2-methylphenol       | 3500  | 0                                                    | 2700   | ug/Kg | 77  |          |     |          | 10  | 160         |     |
| N-Nitrosodiphenylamine           | 3500  | 0                                                    | 3200   | ug/Kg | 91  |          |     |          | 73  | 118         |     |
| 4-Bromophenyl-phenylether        | 3500  | 0                                                    | 3100   | ug/Kg | 89  |          |     |          | 65  | 121         |     |
| Hexachlorobenzene                | 3500  | 0                                                    | 3200   | ug/Kg | 91  |          |     |          | 67  | 118         |     |
| Atrazine                         | 3500  | 0                                                    | 3500   | ug/Kg | 100 |          |     |          | 45  | 175         |     |

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**Client:** AECOM

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| Parameter                  | Spike | Sample<br>Result | Result | Units | Rec | Rec<br>Qual | RPD | RPD<br>Qual | Low | Limits<br>High | RPD |
|----------------------------|-------|------------------|--------|-------|-----|-------------|-----|-------------|-----|----------------|-----|
| Pentachlorophenol          | 6900  | 0                | 6700   | ug/Kg | 97  |             |     |             | 13  | 153            |     |
| Phenanthrene               | 3500  | 190              | 3300   | ug/Kg | 89  |             |     |             | 52  | 128            |     |
| Anthracene                 | 3500  | 0                | 3200   | ug/Kg | 91  |             |     |             | 62  | 124            |     |
| Carbazole                  | 3500  | 0                | 3200   | ug/Kg | 91  |             |     |             | 59  | 119            |     |
| Di-n-butylphthalate        | 3500  | 0                | 3300   | ug/Kg | 94  |             |     |             | 55  | 125            |     |
| Fluoranthene               | 3500  | 180              | 3100   | ug/Kg | 83  |             |     |             | 44  | 125            |     |
| Pyrene                     | 3500  | 0                | 3600   | ug/Kg | 103 |             |     |             | 37  | 122            |     |
| Butylbenzylphthalate       | 3500  | 0                | 3600   | ug/Kg | 103 |             |     |             | 44  | 135            |     |
| 3,3-Dichlorobenzidine      | 3500  | 0                | 3600   | ug/Kg | 103 |             |     |             | 15  | 112            |     |
| Benzo(a)anthracene         | 3500  | 0                | 3500   | ug/Kg | 100 |             |     |             | 53  | 119            |     |
| Chrysene                   | 3500  | 0                | 3400   | ug/Kg | 97  |             |     |             | 57  | 121            |     |
| bis(2-Ethylhexyl)phthalate | 3500  | 0                | 3400   | ug/Kg | 97  |             |     |             | 42  | 169            |     |
| Di-n-octyl phthalate       | 3500  | 0                | 3400   | ug/Kg | 97  |             |     |             | 51  | 156            |     |
| Benzo(b)fluoranthene       | 3500  | 0                | 3300   | ug/Kg | 94  |             |     |             | 52  | 117            |     |
| Benzo(k)fluoranthene       | 3500  | 0                | 3700   | ug/Kg | 106 |             |     |             | 57  | 134            |     |
| Benzo(a)pyrene             | 3500  | 0                | 3700   | ug/Kg | 106 |             |     |             | 70  | 142            |     |
| Indeno(1,2,3-cd)pyrene     | 3500  | 0                | 2700   | ug/Kg | 77  |             |     |             | 40  | 129            |     |
| Dibenz(a,h)anthracene      | 3500  | 0                | 2800   | ug/Kg | 80  |             |     |             | 43  | 123            |     |
| Benzo(g,h,i)perylene       | 3500  | 0                | 2600   | ug/Kg | 74  |             |     |             | 24  | 125            |     |
| 1,2,4,5-Tetrachlorobenzene | 3500  | 0                | 2900   | ug/Kg | 83  |             |     |             | 52  | 134            |     |
| 1,4-Dioxane                | 3500  | 0                | 0      | ug/Kg | 0   | *           |     |             | 46  | 112            |     |
| 2,3,4,6-Tetrachlorophenol  | 3500  | 0                | 3700   | ug/Kg | 106 |             |     |             | 24  | 146            |     |