

### Matrix Spike/Matrix Spike Duplicate Summary

SW-846

|                 |                                |                           |                   |
|-----------------|--------------------------------|---------------------------|-------------------|
| <b>SDG No.:</b> | <u>Q2820</u>                   | <b>Analytical Method:</b> | <u>8081B</u>      |
| <b>Client:</b>  | <u>First Environment, Inc.</u> | <b>DataFile :</b>         | <u>PD089894.D</u> |

|                | Parameter           | Spike             | Sample |         | Units | Rec | Rec Qual | RPD | RPD Qual | Low | Limits |     |
|----------------|---------------------|-------------------|--------|---------|-------|-----|----------|-----|----------|-----|--------|-----|
|                |                     |                   | Result |         |       |     |          |     |          |     | High   | RPD |
| Lab Sample ID: | Q2819-14MS          | Client Sample ID: |        | 17M-WMS |       |     |          |     |          |     |        |     |
|                | (Column 1)          |                   |        |         |       |     |          |     |          |     |        |     |
|                | alpha-BHC           | 19.46             | 0      | 20.0    | ug/kg | 103 |          |     |          | 45  | 137    |     |
|                | beta-BHC            | 19.46             | 0      | 19.1    | ug/kg | 98  |          |     |          | 50  | 136    |     |
|                | delta-BHC           | 19.46             | 0      | 19.3    | ug/kg | 99  |          |     |          | 47  | 139    |     |
|                | gamma-BHC (Lindane) | 19.46             | 0      | 19.3    | ug/kg | 99  |          |     |          | 49  | 135    |     |
|                | Heptachlor          | 19.46             | 0      | 19.2    | ug/kg | 99  |          |     |          | 47  | 136    |     |
|                | Aldrin              | 19.46             | 0      | 14.7    | ug/kg | 76  |          |     |          | 45  | 136    |     |
|                | Heptachlor epoxide  | 19.46             | 0      | 26.6    | ug/kg | 137 | *        |     |          | 52  | 136    |     |
|                | Endosulfan I        | 19.46             | 0      | 19.2    | ug/kg | 99  |          |     |          | 53  | 132    |     |
|                | Dieldrin            | 19.46             | 0      | 20.3    | ug/kg | 104 |          |     |          | 56  | 136    |     |
|                | 4,4'-DDE            | 19.46             | 11.7   | 30.5    | ug/kg | 97  |          |     |          | 56  | 134    |     |
|                | Endrin              | 19.46             | 0      | 16.9    | ug/kg | 87  |          |     |          | 57  | 140    |     |
|                | Endosulfan II       | 19.46             | 0      | 21.8    | ug/kg | 112 |          |     |          | 53  | 134    |     |
|                | 4,4'-DDD            | 19.46             | 0      | 16.3    | ug/kg | 84  |          |     |          | 56  | 139    |     |
|                | Endosulfan sulfate  | 19.46             | 0      | 20.3    | ug/kg | 104 |          |     |          | 55  | 136    |     |
|                | 4,4'-DDT            | 19.46             | 7.3    | 23.7    | ug/kg | 84  |          |     |          | 50  | 141    |     |
|                | Methoxychlor        | 19.46             | 0      | 14.6    | ug/kg | 75  |          |     |          | 52  | 143    |     |
|                | Endrin ketone       | 19.46             | 0      | 16.5    | ug/kg | 85  |          |     |          | 55  | 136    |     |
|                | Endrin aldehyde     | 19.46             | 0      | 21.1    | ug/kg | 108 |          |     |          | 35  | 137    |     |
|                | alpha-Chlordane     | 19.46             | 390    | 384     | ug/kg | -31 | *        |     |          | 54  | 133    |     |
|                | gamma-Chlordane     | 19.46             | 328    | 327     | ug/kg | -5  | *        |     |          | 53  | 135    |     |
| Lab Sample ID: | Q2819-14MS          | Client Sample ID: |        | 17M-WMS |       |     |          |     |          |     |        |     |
|                | (Column 2)          |                   |        |         |       |     |          |     |          |     |        |     |
|                | alpha-BHC           | 19.46             | 0      | 22.8    | ug/kg | 117 |          |     |          | 45  | 137    |     |
|                | beta-BHC            | 19.46             | 0      | 22.8    | ug/kg | 117 |          |     |          | 50  | 136    |     |
|                | delta-BHC           | 19.46             | 0      | 23.3    | ug/kg | 120 |          |     |          | 47  | 139    |     |
|                | gamma-BHC (Lindane) | 19.46             | 0      | 22.9    | ug/kg | 118 |          |     |          | 49  | 135    |     |
|                | Heptachlor          | 19.46             | 0      | 22.0    | ug/kg | 113 |          |     |          | 47  | 136    |     |
|                | Aldrin              | 19.46             | 0      | 25.9    | ug/kg | 133 |          |     |          | 45  | 136    |     |
|                | Heptachlor epoxide  | 19.46             | 0      | 31.4    | ug/kg | 161 | *        |     |          | 52  | 136    |     |
|                | Endosulfan I        | 19.46             | 0      | 23.7    | ug/kg | 122 |          |     |          | 53  | 132    |     |
|                | Dieldrin            | 19.46             | 0      | 24.7    | ug/kg | 127 |          |     |          | 56  | 136    |     |
|                | 4,4'-DDE            | 19.46             | 6.2    | 26.2    | ug/kg | 103 |          |     |          | 56  | 134    |     |
|                | Endrin              | 19.46             | 0      | 34.4    | ug/kg | 177 | *        |     |          | 57  | 140    |     |
|                | Endosulfan II       | 19.46             | 0      | 100     | ug/kg | 514 | *        |     |          | 53  | 134    |     |
|                | 4,4'-DDD            | 19.46             | 0      | 15.6    | ug/kg | 80  |          |     |          | 56  | 139    |     |
|                | Endosulfan sulfate  | 19.46             | 0      | 21.3    | ug/kg | 109 |          |     |          | 55  | 136    |     |

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| <b>Client:</b>  | <u>First Environment, Inc.</u> | <b>DataFile :</b>         | <u>PD089894.D</u> |

| Parameter       | Spike | Sample |        | Units | Rec | Rec Qual | RPD | RPD Qual | Low | Limits |     |
|-----------------|-------|--------|--------|-------|-----|----------|-----|----------|-----|--------|-----|
|                 |       | Result | Result |       |     |          |     |          |     | High   | RPD |
| 4,4'-DDT        | 19.46 | 12.1   | 32.2   | ug/kg | 103 |          |     |          | 50  | 141    |     |
| Methoxychlor    | 19.46 | 0      | 19.2   | ug/kg | 99  |          |     |          | 52  | 143    |     |
| Endrin ketone   | 19.46 | 0      | 21.0   | ug/kg | 108 |          |     |          | 55  | 136    |     |
| Endrin aldehyde | 19.46 | 0      | 22.9   | ug/kg | 118 |          |     |          | 35  | 137    |     |
| alpha-Chlordane | 19.46 | 233    | 230    | ug/kg | -15 | *        |     |          | 54  | 133    |     |
| gamma-Chlordane | 19.46 | 194    | 197    | ug/kg | 15  | *        |     |          | 53  | 135    |     |