284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | Q1207 | **OrderDate:** | 1/28/2025 11:40:00 AM |
| **Client:** | RU2 Engineering, LLC | **Project:** | NYCDDC SANTWOBR Brooklyn Bridge BBMCR |
| **Contact:** | Rutu Manani | **Location:** | E11,VOA Ref. #2 Soil |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **Q1207-01** | **JPP-2.1-012725** | **SOIL** | | | **01/27/25** | | | **01/28/25** |
| | | | Diesel Range Organics | 8015D | | 01/29/25 | 01/30/25 | |
| | | | Gasoline Range Organics | 8015D | | | 01/29/25 | |
| **Q1207-03** | **JPP-2.1-012725** | **SOIL** | | | **01/27/25** | | | **01/28/25** |
| | | | PCB | 8082A | | 01/29/25 | 01/29/25 | |
| | | | Pesticide-TCL | 8081B | | 01/29/25 | 01/30/25 | |
| **Q1207-04** | **JPP-2.1-012725** | **TCLP** | | | **01/27/25** | | | **01/28/25** |
| | | | TCLP Herbicide | 8151A | | 01/29/25 | 01/30/25 | |
| | | | TCLP Pesticide | 8081B | | 01/29/25 | 01/30/25 | |
| **Q1207-05** | **JPP-5.1-012725** | **SOIL** | | | **01/27/25** | | | **01/28/25** |
| | | | Diesel Range Organics | 8015D | | 01/29/25 | 01/30/25 | |
| | | | Gasoline Range Organics | 8015D | | | 01/29/25 | |
| **Q1207-07** | **JPP-5.1-012725** | **SOIL** | | | **01/27/25** | | | **01/28/25** |
| | | | PCB | 8082A | | 01/29/25 | 01/29/25 | |
| | | | Pesticide-TCL | 8081B | | 01/29/25 | 01/30/25 | |
| **Q1207-08** | **JPP-5.1-012725** | **TCLP** | | | **01/27/25** | | | **01/28/25** |
| | | | TCLP Herbicide | 8151A | | 01/29/25 | 01/30/25 | |
| | | | TCLP Pesticide | 8081B | | 01/29/25 | 01/30/25 | |
| **Q1207-09** | **JPP-4.5-012725** | **SOIL** | | | **01/27/25** | | | **01/28/25** |
| | | | Gasoline Range Organics | 8015D | | | 01/29/25 | |
| **Q1207-11** | **JPP-4.5-012725** | **SOIL** | | | **01/27/25** | | | **01/28/25** |
| | | | PCB | 8082A | | 01/29/25 | 01/29/25 | |
| | | | Pesticide-TCL | 8081B | | 01/29/25 | 01/30/25 | |
| **Q1207-12** | **JPP-4.5-012725** | **TCLP** | | | **01/27/25** | | | **01/28/25** |

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# LAB CHRONICLE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | TCLP Herbicide | 8151A | | 01/29/25 | 01/30/25 |
| | | | TCLP Pesticide | 8081B | | 01/29/25 | 01/30/25 |
| **Q1207-13** | **JPP-16.2-012725** | **SOIL** | | | **01/27/25** | | **01/28/25** |
| | | | Diesel Range Organics | 8015D | | 01/29/25 | 01/30/25 |
| | | | Gasoline Range Organics | 8015D | | | 01/29/25 |
| **Q1207-15** | **JPP-16.2-012725** | **SOIL** | | | **01/27/25** | | **01/28/25** |
| | | | PCB | 8082A | | 01/29/25 | 01/29/25 |
| | | | Pesticide-TCL | 8081B | | 01/29/25 | 01/30/25 |
| **Q1207-16** | **JPP-16.2-012725** | **TCLP** | | | **01/27/25** | | **01/28/25** |
| | | | TCLP Herbicide | 8151A | | 01/29/25 | 01/30/25 |
| | | | TCLP Pesticide | 8081B | | 01/29/25 | 01/30/25 |
| **Q1207-17** | **JPP-20.2-012725** | **SOIL** | | | **01/27/25** | | **01/28/25** |
| | | | Diesel Range Organics | 8015D | | 01/29/25 | 01/30/25 |
| | | | Gasoline Range Organics | 8015D | | | 01/29/25 |
| **Q1207-19** | **JPP-20.2-012725** | **SOIL** | | | **01/27/25** | | **01/28/25** |
| | | | PCB | 8082A | | 01/29/25 | 01/29/25 |
| | | | Pesticide-TCL | 8081B | | 01/29/25 | 01/30/25 |
| **Q1207-20** | **JPP-20.2-012725** | **TCLP** | | | **01/27/25** | | **01/28/25** |
| | | | TCLP Herbicide | 8151A | | 01/29/25 | 01/30/25 |
| | | | TCLP Pesticide | 8081B | | 01/29/25 | 01/30/25 |

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# Hit Summary Sheet
## SW-846

**SDG No.:** Q1207 **Order ID:** Q1207

**Client:** RU2 Engineering, LLC **Project ID:** NYCDDC SANTWOBR Brooklyn Bri

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|

**Client ID :**

**Total Concentration:** 0.000

# SAMPLE DATA

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | RU2 Engineering, LLC | Date Collected: | |
| Project: | NYCDDC SANTWOBR Brooklyn Bridge BBMCR | Date Received: | 01/29/25 |
| Client Sample ID: | PB166318TB | SDG No.: | Q1207 |
| Lab Sample ID: | PB166318TB | Matrix: | TCLP |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 100 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL093859.D | 1 | 01/29/25 11:20 | 01/29/25 18:05 | PB166353 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 58-89-9 | gamma-BHC (Lindane) | 0.50 | U | 0.049 | 0.50 | ug/L |
| 76-44-8 | Heptachlor | 0.50 | U | 0.054 | 0.50 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.50 | U | 0.090 | 0.50 | ug/L |
| 72-20-8 | Endrin | 0.50 | U | 0.043 | 0.50 | ug/L |
| 72-43-5 | Methoxychlor | 0.50 | U | 0.11 | 0.50 | ug/L |
| 8001-35-2 | Toxaphene | 10.0 | U | 1.50 | 10.0 | ug/L |
| 57-74-9 | Chlordane | 5.00 | U | 0.82 | 5.00 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 26.8 | | 43 - 140 | 134% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 23.6 | | 77 - 126 | 118% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | RU2 Engineering, LLC | Date Collected: | 01/27/25 |
| Project: | NYCDDC SANTWOBR Brooklyn Bridge BBMCR | Date Received: | 01/28/25 |
| Client Sample ID: | JPP-2.1-012725 | SDG No.: | Q1207 |
| Lab Sample ID: | Q1207-04 | Matrix: | TCLP |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 100 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL093891.D | 1 | 01/29/25 11:20 | 01/30/25 15:04 | PB166353 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 58-89-9 | gamma-BHC (Lindane) | 0.50 | U | 0.049 | 0.50 | ug/L |
| 76-44-8 | Heptachlor | 0.50 | U | 0.054 | 0.50 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.50 | U | 0.090 | 0.50 | ug/L |
| 72-20-8 | Endrin | 0.50 | U | 0.043 | 0.50 | ug/L |
| 72-43-5 | Methoxychlor | 0.50 | U | 0.11 | 0.50 | ug/L |
| 8001-35-2 | Toxaphene | 10.0 | U | 1.50 | 10.0 | ug/L |
| 57-74-9 | Chlordane | 5.00 | U | 0.82 | 5.00 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 26.3 | | 43 - 140 | 131% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 20.1 | | 77 - 126 | 100% | SPK: 20 |

Comments:

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | RU2 Engineering, LLC | Date Collected: | 01/27/25 |
| Project: | NYCDDC SANTWOBR Brooklyn Bridge BBMCR | Date Received: | 01/28/25 |
| Client Sample ID: | JPP-5.1-012725 | SDG No.: | Q1207 |
| Lab Sample ID: | Q1207-08 | Matrix: | TCLP |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 100 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL093892.D | 1 | 01/29/25 11:20 | 01/30/25 15:18 | PB166353 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 58-89-9 | gamma-BHC (Lindane) | 0.50 | U | 0.049 | 0.50 | ug/L |
| 76-44-8 | Heptachlor | 0.50 | U | 0.054 | 0.50 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.50 | U | 0.090 | 0.50 | ug/L |
| 72-20-8 | Endrin | 0.50 | U | 0.043 | 0.50 | ug/L |
| 72-43-5 | Methoxychlor | 0.50 | U | 0.11 | 0.50 | ug/L |
| 8001-35-2 | Toxaphene | 10.0 | U | 1.50 | 10.0 | ug/L |
| 57-74-9 | Chlordane | 5.00 | U | 0.82 | 5.00 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 26.6 | | 43 - 140 | 133% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 22.2 | | 77 - 126 | 111% | SPK: 20 |

Comments:

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | RU2 Engineering, LLC | Date Collected: | 01/27/25 |
| Project: | NYCDDC SANTWOBR Brooklyn Bridge BBMCR | Date Received: | 01/28/25 |
| Client Sample ID: | JPP-4.5-012725 | SDG No.: | Q1207 |
| Lab Sample ID: | Q1207-12 | Matrix: | TCLP |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 100 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL093893.D | 1 | 01/29/25 11:20 | 01/30/25 15:31 | PB166353 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 58-89-9 | gamma-BHC (Lindane) | 0.50 | U | 0.049 | 0.50 | ug/L |
| 76-44-8 | Heptachlor | 0.50 | U | 0.054 | 0.50 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.50 | U | 0.090 | 0.50 | ug/L |
| 72-20-8 | Endrin | 0.50 | U | 0.043 | 0.50 | ug/L |
| 72-43-5 | Methoxychlor | 0.50 | U | 0.11 | 0.50 | ug/L |
| 8001-35-2 | Toxaphene | 10.0 | U | 1.50 | 10.0 | ug/L |
| 57-74-9 | Chlordane | 5.00 | U | 0.82 | 5.00 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 27.2 | | 43 - 140 | 136% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 23.0 | | 77 - 126 | 115% | SPK: 20 |

Comments:

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B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
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S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | RU2 Engineering, LLC | Date Collected: | 01/27/25 |
| Project: | NYCDDC SANTWOBR Brooklyn Bridge BBMCR | Date Received: | 01/28/25 |
| Client Sample ID: | JPP-16.2-012725 | SDG No.: | Q1207 |
| Lab Sample ID: | Q1207-16 | Matrix: | TCLP |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 100 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL093894.D | 1 | 01/29/25 11:20 | 01/30/25 15:44 | PB166353 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 58-89-9 | gamma-BHC (Lindane) | 0.50 | U | 0.049 | 0.50 | ug/L |
| 76-44-8 | Heptachlor | 0.50 | U | 0.054 | 0.50 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.50 | U | 0.090 | 0.50 | ug/L |
| 72-20-8 | Endrin | 0.50 | U | 0.043 | 0.50 | ug/L |
| 72-43-5 | Methoxychlor | 0.50 | U | 0.11 | 0.50 | ug/L |
| 8001-35-2 | Toxaphene | 10.0 | U | 1.50 | 10.0 | ug/L |
| 57-74-9 | Chlordane | 5.00 | U | 0.82 | 5.00 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 26.8 | | 43 - 140 | 134% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 22.7 | | 77 - 126 | 114% | SPK: 20 |

Comments:

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() = Laboratory InHouse Limit

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | RU2 Engineering, LLC | Date Collected: | 01/27/25 |
| Project: | NYCDDC SANTWOBR Brooklyn Bridge BBMCR | Date Received: | 01/28/25 |
| Client Sample ID: | JPP-20.2-012725 | SDG No.: | Q1207 |
| Lab Sample ID: | Q1207-20 | Matrix: | TCLP |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 100 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL093895.D | 1 | 01/29/25 11:20 | 01/30/25 15:58 | PB166353 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 58-89-9 | gamma-BHC (Lindane) | 0.50 | U | 0.049 | 0.50 | ug/L |
| 76-44-8 | Heptachlor | 0.50 | U | 0.054 | 0.50 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.50 | U | 0.090 | 0.50 | ug/L |
| 72-20-8 | Endrin | 0.50 | U | 0.043 | 0.50 | ug/L |
| 72-43-5 | Methoxychlor | 0.50 | U | 0.11 | 0.50 | ug/L |
| 8001-35-2 | Toxaphene | 10.0 | U | 1.50 | 10.0 | ug/L |
| 57-74-9 | Chlordane | 5.00 | U | 0.82 | 5.00 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 27.4 | | 43 - 140 | 137% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 23.7 | | 77 - 126 | 119% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
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D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

# QC SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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## Surrogate Summary

**SDG No.:** Q1207

**Client:** RU2 Engineering, LLC

**Analytical Method:** 8081B

| Lab Sample ID | Client ID | Parameter | Column | Spike | Result | Rec | Qual | Limits Low | Limits High |
|---|---|---|---|---|---|---|---|---|---|
| I.BLK-PL093725.D | PIBLK-PL093725.D | Decachlorobiphenyl | 1 | 20 | 22.1 | 111 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 1 | 20 | 20.8 | 104 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 21.9 | 109 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 20.5 | 103 | | 77 | 126 |
| I.BLK-PL093853.D | PIBLK-PL093853.D | Decachlorobiphenyl | 1 | 20 | 23.0 | 115 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 1 | 20 | 20.0 | 100 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 22.0 | 110 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 18.6 | 93 | | 77 | 126 |
| PB166353BL | PB166353BL | Decachlorobiphenyl | 1 | 20 | 27.2 | 136 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 1 | 20 | 23.7 | 119 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 26.2 | 131 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 22.3 | 111 | | 77 | 126 |
| PB166318TB | PB166318TB | Decachlorobiphenyl | 1 | 20 | 26.8 | 134 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 1 | 20 | 23.6 | 118 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 26.1 | 130 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 21.9 | 110 | | 77 | 126 |
| I.BLK-PL093863.D | PIBLK-PL093863.D | Decachlorobiphenyl | 1 | 20 | 23.1 | 115 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 1 | 20 | 19.8 | 99 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 22.1 | 111 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 18.7 | 93 | | 77 | 126 |
| I.BLK-PL093874.D | PIBLK-PL093874.D | Decachlorobiphenyl | 1 | 20 | 22.5 | 113 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 1 | 20 | 19.9 | 100 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 21.0 | 105 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 18.1 | 91 | | 77 | 126 |
| PB166353BS | PB166353BS | Decachlorobiphenyl | 1 | 20 | 23.4 | 117 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 1 | 20 | 19.9 | 99 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 22.5 | 113 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 19.1 | 95 | | 77 | 126 |
| I.BLK-PL093887.D | PIBLK-PL093887.D | Decachlorobiphenyl | 1 | 20 | 21.4 | 107 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 1 | 20 | 18.4 | 92 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 21.2 | 106 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 17.5 | 88 | | 77 | 126 |
| Q1207-04 | JPP-2.1-012725 | Decachlorobiphenyl | 1 | 20 | 26.3 | 131 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 1 | 20 | 20.1 | 100 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 25.8 | 129 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 19.4 | 97 | | 77 | 126 |
| Q1207-08 | JPP-5.1-012725 | Decachlorobiphenyl | 1 | 20 | 26.6 | 133 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 1 | 20 | 22.2 | 111 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 26.3 | 132 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 21.4 | 107 | | 77 | 126 |
| Q1207-12 | JPP-4.5-012725 | Decachlorobiphenyl | 1 | 20 | 27.2 | 136 | | 43 | 140 |

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## Surrogate Summary

**SDG No.:** Q1207

**Client:** RU2 Engineering, LLC

**Analytical Method:** 8081B

| Lab Sample ID | Client ID | Parameter | Column | Spike | Result | Rec | Qual | Limits Low | Limits High |
|---|---|---|---|---|---|---|---|---|---|
| Q1207-12 | JPP-4.5-012725 | Tetrachloro-m-xylene | 1 | 20 | 23.0 | 115 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 26.6 | 133 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 22.8 | 114 | | 77 | 126 |
| Q1207-16 | JPP-16.2-012725 | Decachlorobiphenyl | 1 | 20 | 26.8 | 134 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 1 | 20 | 22.7 | 114 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 26.6 | 133 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 21.7 | 109 | | 77 | 126 |
| Q1207-20 | JPP-20.2-012725 | Decachlorobiphenyl | 1 | 20 | 27.4 | 137 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 1 | 20 | 23.7 | 119 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 26.5 | 132 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 22.3 | 112 | | 77 | 126 |
| I.BLK-PL093904.D | PIBLK-PL093904.D | Decachlorobiphenyl | 1 | 20 | 20.2 | 101 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 1 | 20 | 19.1 | 96 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 16.0 | 80 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 18.6 | 93 | | 77 | 126 |
| I.BLK-PL093980.D | PIBLK-PL093980.D | Decachlorobiphenyl | 1 | 20 | 21.6 | 108 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 1 | 20 | 22.2 | 111 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 20.2 | 101 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 21.8 | 109 | | 77 | 126 |
| Q1206-04MS | JPP-20.1-012725MS | Decachlorobiphenyl | 1 | 20 | 26.2 | 131 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 1 | 20 | 21.8 | 109 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 27.6 | 138 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 21.3 | 106 | | 77 | 126 |
| Q1206-04MSD | JPP-20.1-012725MSD | Decachlorobiphenyl | 1 | 20 | 26.6 | 133 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 1 | 20 | 21.3 | 107 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 27.5 | 138 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 21.0 | 105 | | 77 | 126 |
| I.BLK-PL093999.D | PIBLK-PL093999.D | Decachlorobiphenyl | 1 | 20 | 28.1 | 140 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 1 | 20 | 21.1 | 106 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 21.9 | 109 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 20.5 | 102 | | 77 | 126 |

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# Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** Q1207

**Client:** RU2 Engineering, LLC

**Analytical Method:** 8081B **DataFile :** PL093991.D

| Lab Sample ID: | Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Client Sample ID:** | **JPP-20.1-012725MS** | | | | | | | | | | | |
| Q1206-04MS | gamma-BHC (Lindane) | 5 | 0 | 5.80 | ug/L | 116 | | | | 60 | 152 | |
| | Heptachlor | 5 | 0 | 5.80 | ug/L | 116 | | | | 56 | 147 | |
| | Heptachlor epoxide | 5 | 0 | 5.90 | ug/L | 118 | | | | 77 | 143 | |
| | Endrin | 5 | 0 | 6.00 | ug/L | 120 | | | | 76 | 144 | |
| | Methoxychlor | 5 | 0 | 5.70 | ug/L | 114 | | | | 70 | 142 | |

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# Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** Q1207

**Client:** RU2 Engineering, LLC

**Analytical Method:** 8081B **DataFile :** PL093992.D

| Lab Sample ID: | Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Client Sample ID:** | **JPP-20.1-012725MSD** | | | | | | | | | | | |
| Q1206-04MSD | gamma-BHC (Lindane) | 5 | 0 | 5.70 | ug/L | 114 | | 2 | | 60 | 152 | 20 |
| | Heptachlor | 5 | 0 | 5.70 | ug/L | 114 | | 2 | | 56 | 147 | 20 |
| | Heptachlor epoxide | 5 | 0 | 5.80 | ug/L | 116 | | 2 | | 77 | 143 | 20 |
| | Endrin | 5 | 0 | 6.30 | ug/L | 126 | | 5 | | 76 | 144 | 20 |
| | Methoxychlor | 5 | 0 | 6.10 | ug/L | 122 | | 7 | | 70 | 142 | 20 |

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q1207

**Client:** RU2 Engineering, LLC

**Analytical Method:** 8081B **Datafile :** PL093886.D

| Lab Sample ID | Parameter | Spike | Result | Units | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB166353BS | gamma-BHC (Lindane) | 0.5 | 0.47 | ug/L | 93 | | | | 82 | 129 | |
| | Heptachlor | 0.5 | 0.49 | ug/L | 98 | | | | 79 | 127 | |
| | Heptachlor epoxide | 0.5 | 0.49 | ug/L | 97 | | | | 81 | 124 | |
| | Endrin | 0.5 | 0.48 | ug/L | 97 | | | | 81 | 128 | |
| | Methoxychlor | 0.5 | 0.50 | ug/L | 100 | | | | 78 | 108 | |

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166353BL

Lab Name: CHEMTECH Contract: RUTW01

Lab Code: CHEM Case No.: Q1207 SAS No.: Q1207 SDG NO.: Q1207

Lab Sample ID: PB166353BL Lab File ID: PL093857.D

Matrix: (soil/water) water Extraction: (Type) SEPF

Sulfur Cleanup: (Y/N) N Date Extracted: 01/29/2025

Date Analyzed (1): 01/29/2025 Date Analyzed (2): 01/29/2025

Time Analyzed (1): 17:36 Time Analyzed (2): 17:36

Instrument ID (1): ECD_L Instrument ID (2): ECD_L

GC Column (1): ZB-MR1 ID: 0.32 (mm) GC Column (2): ZB-MR2 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED 1 | DATE ANALYZED 2 |
|---|---|---|---|---|
| PB166318TB | PB166318TB | PL093859.D | 01/29/2025 | 01/29/2025 |
| PB166353BS | PB166353BS | PL093886.D | 01/30/2025 | 01/30/2025 |
| JPP-2.1-012725 | Q1207-04 | PL093891.D | 01/30/2025 | 01/30/2025 |
| JPP-5.1-012725 | Q1207-08 | PL093892.D | 01/30/2025 | 01/30/2025 |
| JPP-4.5-012725 | Q1207-12 | PL093893.D | 01/30/2025 | 01/30/2025 |
| JPP-16.2-012725 | Q1207-16 | PL093894.D | 01/30/2025 | 01/30/2025 |
| JPP-20.2-012725 | Q1207-20 | PL093895.D | 01/30/2025 | 01/30/2025 |
| JPP-20.1-012725MS | Q1206-04MS | PL093991.D | 02/03/2025 | 02/03/2025 |
| JPP-20.1-012725MSD | Q1206-04MSD | PL093992.D | 02/03/2025 | 02/03/2025 |

COMMENTS:

# QC SAMPLE DATA

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | RU2 Engineering, LLC | Date Collected: | |
| Project: | NYCDDC SANTWOBR Brooklyn Bridge BBMCR | Date Received: | |
| Client Sample ID: | PB166353BL | SDG No.: | Q1207 |
| Lab Sample ID: | PB166353BL | Matrix: | TCLP |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL093857.D | 1 | 01/29/25 11:20 | 01/29/25 17:36 | PB166353 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U | 0.0049 | 0.050 | ug/L |
| 76-44-8 | Heptachlor | 0.050 | U | 0.0054 | 0.050 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U | 0.0090 | 0.050 | ug/L |
| 72-20-8 | Endrin | 0.050 | U | 0.0043 | 0.050 | ug/L |
| 72-43-5 | Methoxychlor | 0.050 | U | 0.011 | 0.050 | ug/L |
| 8001-35-2 | Toxaphene | 1.00 | U | 0.15 | 1.00 | ug/L |
| 57-74-9 | Chlordane | 0.50 | U | 0.082 | 0.50 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 27.2 | | 43 - 140 | 136% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 23.7 | | 77 - 126 | 119% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | RU2 Engineering, LLC | Date Collected: | 01/21/25 |
| Project: | NYCDDC SANTWOBR Brooklyn Bridge BBMCR | Date Received: | 01/21/25 |
| Client Sample ID: | PIBLK-PL093725.D | SDG No.: | Q1207 |
| Lab Sample ID: | I.BLK-PL093725.D | Matrix: | TCLP |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL093725.D | 1 | | 01/21/25 | PL012125 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U | 0.0049 | 0.050 | ug/L |
| 76-44-8 | Heptachlor | 0.050 | U | 0.0054 | 0.050 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U | 0.0090 | 0.050 | ug/L |
| 72-20-8 | Endrin | 0.050 | U | 0.0043 | 0.050 | ug/L |
| 72-43-5 | Methoxychlor | 0.050 | U | 0.011 | 0.050 | ug/L |
| 8001-35-2 | Toxaphene | 1.00 | U | 0.15 | 1.00 | ug/L |
| 57-74-9 | Chlordane | 0.50 | U | 0.082 | 0.50 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 22.1 | | 43 - 140 | 111% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 20.8 | | 77 - 126 | 104% | SPK: 20 |

Comments:

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Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | RU2 Engineering, LLC | Date Collected: | 01/29/25 |
| Project: | NYCDDC SANTWOBR Brooklyn Bridge BBMCR | Date Received: | 01/29/25 |
| Client Sample ID: | PIBLK-PL093853.D | SDG No.: | Q1207 |
| Lab Sample ID: | I.BLK-PL093853.D | Matrix: | TCLP |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL093853.D | 1 | | 01/29/25 | pl012925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U | 0.0049 | 0.050 | ug/L |
| 76-44-8 | Heptachlor | 0.050 | U | 0.0054 | 0.050 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U | 0.0090 | 0.050 | ug/L |
| 72-20-8 | Endrin | 0.050 | U | 0.0043 | 0.050 | ug/L |
| 72-43-5 | Methoxychlor | 0.050 | U | 0.011 | 0.050 | ug/L |
| 8001-35-2 | Toxaphene | 1.00 | U | 0.15 | 1.00 | ug/L |
| 57-74-9 | Chlordane | 0.50 | U | 0.082 | 0.50 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 23.0 | | 43 - 140 | 115% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 20.0 | | 77 - 126 | 100% | SPK: 20 |

Comments:

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P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | RU2 Engineering, LLC | Date Collected: | 01/29/25 |
| Project: | NYCDDC SANTWOBR Brooklyn Bridge BBMCR | Date Received: | 01/29/25 |
| Client Sample ID: | PIBLK-PL093863.D | SDG No.: | Q1207 |
| Lab Sample ID: | I.BLK-PL093863.D | Matrix: | TCLP |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL093863.D | 1 | | 01/29/25 | pl012925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U | 0.0049 | 0.050 | ug/L |
| 76-44-8 | Heptachlor | 0.050 | U | 0.0054 | 0.050 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U | 0.0090 | 0.050 | ug/L |
| 72-20-8 | Endrin | 0.050 | U | 0.0043 | 0.050 | ug/L |
| 72-43-5 | Methoxychlor | 0.050 | U | 0.011 | 0.050 | ug/L |
| 8001-35-2 | Toxaphene | 1.00 | U | 0.15 | 1.00 | ug/L |
| 57-74-9 | Chlordane | 0.50 | U | 0.082 | 0.50 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 23.1 | | 43 - 140 | 115% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 19.8 | | 77 - 126 | 99% | SPK: 20 |

Comments:

U = Not Detected
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Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | RU2 Engineering, LLC | Date Collected: | 01/30/25 |
| Project: | NYCDDC SANTWOBR Brooklyn Bridge BBMCR | Date Received: | 01/30/25 |
| Client Sample ID: | PIBLK-PL093874.D | SDG No.: | Q1207 |
| Lab Sample ID: | I.BLK-PL093874.D | Matrix: | TCLP |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL093874.D | 1 | | 01/30/25 | pl013025 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U | 0.0049 | 0.050 | ug/L |
| 76-44-8 | Heptachlor | 0.050 | U | 0.0054 | 0.050 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U | 0.0090 | 0.050 | ug/L |
| 72-20-8 | Endrin | 0.050 | U | 0.0043 | 0.050 | ug/L |
| 72-43-5 | Methoxychlor | 0.050 | U | 0.011 | 0.050 | ug/L |
| 8001-35-2 | Toxaphene | 1.00 | U | 0.15 | 1.00 | ug/L |
| 57-74-9 | Chlordane | 0.50 | U | 0.082 | 0.50 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 22.5 | | 43 - 140 | 113% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 19.9 | | 77 - 126 | 100% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | RU2 Engineering, LLC | Date Collected: | 01/30/25 |
| Project: | NYCDDC SANTWOBR Brooklyn Bridge BBMCR | Date Received: | 01/30/25 |
| Client Sample ID: | PIBLK-PL093887.D | SDG No.: | Q1207 |
| Lab Sample ID: | I.BLK-PL093887.D | Matrix: | TCLP |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL093887.D | 1 | | 01/30/25 | pl013025 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U | 0.0049 | 0.050 | ug/L |
| 76-44-8 | Heptachlor | 0.050 | U | 0.0054 | 0.050 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U | 0.0090 | 0.050 | ug/L |
| 72-20-8 | Endrin | 0.050 | U | 0.0043 | 0.050 | ug/L |
| 72-43-5 | Methoxychlor | 0.050 | U | 0.011 | 0.050 | ug/L |
| 8001-35-2 | Toxaphene | 1.00 | U | 0.15 | 1.00 | ug/L |
| 57-74-9 | Chlordane | 0.50 | U | 0.082 | 0.50 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 21.4 | | 43 - 140 | 107% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 18.4 | | 77 - 126 | 92% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | RU2 Engineering, LLC | Date Collected: | 01/30/25 |
| Project: | NYCDDC SANTWOBR Brooklyn Bridge BBMCR | Date Received: | 01/30/25 |
| Client Sample ID: | PIBLK-PL093904.D | SDG No.: | Q1207 |
| Lab Sample ID: | I.BLK-PL093904.D | Matrix: | TCLP |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL093904.D | 1 | | 01/30/25 | pl013025 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U | 0.0049 | 0.050 | ug/L |
| 76-44-8 | Heptachlor | 0.050 | U | 0.0054 | 0.050 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U | 0.0090 | 0.050 | ug/L |
| 72-20-8 | Endrin | 0.050 | U | 0.0043 | 0.050 | ug/L |
| 72-43-5 | Methoxychlor | 0.050 | U | 0.011 | 0.050 | ug/L |
| 8001-35-2 | Toxaphene | 1.00 | U | 0.15 | 1.00 | ug/L |
| 57-74-9 | Chlordane | 0.50 | U | 0.082 | 0.50 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 20.2 | | 43 - 140 | 101% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 19.1 | | 77 - 126 | 96% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | RU2 Engineering, LLC | Date Collected: | 02/03/25 |
| Project: | NYCDDC SANTWOBR Brooklyn Bridge BBMCR | Date Received: | 02/03/25 |
| Client Sample ID: | PIBLK-PL093980.D | SDG No.: | Q1207 |
| Lab Sample ID: | I.BLK-PL093980.D | Matrix: | TCLP |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL093980.D | 1 | | 02/03/25 | pl020325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U | 0.0049 | 0.050 | ug/L |
| 76-44-8 | Heptachlor | 0.050 | U | 0.0054 | 0.050 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U | 0.0090 | 0.050 | ug/L |
| 72-20-8 | Endrin | 0.050 | U | 0.0043 | 0.050 | ug/L |
| 72-43-5 | Methoxychlor | 0.050 | U | 0.011 | 0.050 | ug/L |
| 8001-35-2 | Toxaphene | 1.00 | U | 0.15 | 1.00 | ug/L |
| 57-74-9 | Chlordane | 0.50 | U | 0.082 | 0.50 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 21.6 | | 43 - 140 | 108% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 22.2 | | 77 - 126 | 111% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | RU2 Engineering, LLC | Date Collected: | 02/03/25 |
| Project: | NYCDDC SANTWOBR Brooklyn Bridge BBMCR | Date Received: | 02/03/25 |
| Client Sample ID: | PIBLK-PL093999.D | SDG No.: | Q1207 |
| Lab Sample ID: | I.BLK-PL093999.D | Matrix: | TCLP |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL093999.D | 1 | | 02/03/25 | pl020325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U | 0.0049 | 0.050 | ug/L |
| 76-44-8 | Heptachlor | 0.050 | U | 0.0054 | 0.050 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U | 0.0090 | 0.050 | ug/L |
| 72-20-8 | Endrin | 0.050 | U | 0.0043 | 0.050 | ug/L |
| 72-43-5 | Methoxychlor | 0.050 | U | 0.011 | 0.050 | ug/L |
| 8001-35-2 | Toxaphene | 1.00 | U | 0.15 | 1.00 | ug/L |
| 57-74-9 | Chlordane | 0.50 | U | 0.082 | 0.50 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 28.1 | | 43 - 140 | 140% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 21.1 | | 77 - 126 | 106% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | RU2 Engineering, LLC | Date Collected: | |
| Project: | NYCDDC SANTWOBR Brooklyn Bridge BBMCR | Date Received: | |
| Client Sample ID: | PB166353BS | SDG No.: | Q1207 |
| Lab Sample ID: | PB166353BS | Matrix: | TCLP |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL093886.D | 1 | 01/29/25 11:20 | 01/30/25 13:24 | PB166353 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 58-89-9 | gamma-BHC (Lindane) | 0.47 | | 0.0049 | 0.050 | ug/L |
| 76-44-8 | Heptachlor | 0.49 | | 0.0054 | 0.050 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.49 | | 0.0090 | 0.050 | ug/L |
| 72-20-8 | Endrin | 0.48 | | 0.0043 | 0.050 | ug/L |
| 72-43-5 | Methoxychlor | 0.50 | | 0.011 | 0.050 | ug/L |
| 8001-35-2 | Toxaphene | 1.00 | U | 0.15 | 1.00 | ug/L |
| 57-74-9 | Chlordane | 0.50 | U | 0.082 | 0.50 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 23.4 | | 43 - 140 | 117% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 19.9 | | 77 - 126 | 99% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | RU2 Engineering, LLC | Date Collected: | 01/27/25 |
| Project: | NYCDDC SANTWOBR Brooklyn Bridge BBMCR | Date Received: | 01/28/25 |
| Client Sample ID: | JPP-20.1-012725MS | SDG No.: | Q1207 |
| Lab Sample ID: | Q1206-04MS | Matrix: | TCLP |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 100 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL093991.D | 1 | 01/29/25 11:20 | 02/03/25 15:04 | PB166353 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 58-89-9 | gamma-BHC (Lindane) | 5.80 | | 0.049 | 0.50 | ug/L |
| 76-44-8 | Heptachlor | 5.80 | | 0.054 | 0.50 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 5.90 | | 0.090 | 0.50 | ug/L |
| 72-20-8 | Endrin | 6.00 | | 0.043 | 0.50 | ug/L |
| 72-43-5 | Methoxychlor | 5.70 | | 0.11 | 0.50 | ug/L |
| 8001-35-2 | Toxaphene | 10.0 | U | 1.50 | 10.0 | ug/L |
| 57-74-9 | Chlordane | 5.00 | U | 0.82 | 5.00 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 27.6 | | 43 - 140 | 138% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 21.8 | | 77 - 126 | 109% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | RU2 Engineering, LLC | Date Collected: | 01/27/25 |
| Project: | NYCDDC SANTWOBR Brooklyn Bridge BBMCR | Date Received: | 01/28/25 |
| Client Sample ID: | JPP-20.1-012725MSD | SDG No.: | Q1207 |
| Lab Sample ID: | Q1206-04MSD | Matrix: | TCLP |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 100 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL093992.D | 1 | 01/29/25 11:20 | 02/03/25 15:22 | PB166353 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 58-89-9 | gamma-BHC (Lindane) | 5.70 | | 0.049 | 0.50 | ug/L |
| 76-44-8 | Heptachlor | 5.70 | | 0.054 | 0.50 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 5.80 | | 0.090 | 0.50 | ug/L |
| 72-20-8 | Endrin | 6.30 | | 0.043 | 0.50 | ug/L |
| 72-43-5 | Methoxychlor | 6.10 | | 0.11 | 0.50 | ug/L |
| 8001-35-2 | Toxaphene | 10.0 | U | 1.50 | 10.0 | ug/L |
| 57-74-9 | Chlordane | 5.00 | U | 0.82 | 5.00 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 27.5 | | 43 - 140 | 138% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 21.3 | | 77 - 126 | 107% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

# CALIBRATION SUMMARY

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## RETENTION TIMES OF INITIAL CALIBRATION

**Contract:** RUTW01

**Lab Code:** CHEM **Case No.:** Q1207 **SAS No.:** Q1207 **SDG NO.:** Q1207

**Instrument ID:** ECD_L **Calibration Date(s):** 01/21/2025 01/21/2025

**Calibration Times:** 10:57 11:51

GC Column: ZB-MR1 ID: 0.32 (mm)

**LAB FILE ID:** RT 100 = PL093728.D RT 075 = PL093729.D

RT 050 = PL093730.D RT 025 = PL093731.D RT 005 = PL093732.D

| COMPOUND | RT 100 | RT 075 | RT 050 | RT 025 | RT 005 | MEAN RT | RT WINDOW FROM | RT WINDOW TO |
|---|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.05 | 9.05 | 9.05 | 9.05 | 9.05 | 9.05 | 8.95 | 9.15 |
| Endrin | 6.57 | 6.57 | 6.57 | 6.57 | 6.57 | 6.57 | 6.47 | 6.67 |
| gamma-BHC (Lindane) | 4.33 | 4.33 | 4.33 | 4.33 | 4.33 | 4.33 | 4.23 | 4.43 |
| Heptachlor | 4.92 | 4.92 | 4.91 | 4.91 | 4.91 | 4.91 | 4.81 | 5.01 |
| Heptachlor epoxide | 5.68 | 5.68 | 5.68 | 5.68 | 5.68 | 5.68 | 5.58 | 5.78 |
| Methoxychlor | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 | 7.40 | 7.60 |
| Tetrachloro-m-xylene | 3.54 | 3.54 | 3.54 | 3.54 | 3.54 | 3.54 | 3.44 | 3.64 |

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## RETENTION TIMES OF INITIAL CALIBRATION

**Contract:** RUTW01

**Lab Code:** CHEM **Case No.:** Q1207 **SAS No.:** Q1207 **SDG NO.:** Q1207

**Instrument ID:** ECD_L **Calibration Date(s):** 01/21/2025 01/21/2025

**Calibration Times:** 10:57 11:51

GC Column: ZB-MR2 ID: 0.32 (mm)

**LAB FILE ID:** RT 100 = PL093728.D RT 075 = PL093729.D

RT 050 = PL093730.D RT 025 = PL093731.D RT 005 = PL093732.D

| COMPOUND | RT 100 | RT 075 | RT 050 | RT 025 | RT 005 | MEAN RT | RT WINDOW FROM | RT WINDOW TO |
|---|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 7.91 | 7.91 | 7.91 | 7.91 | 7.91 | 7.91 | 7.81 | 8.01 |
| Endrin | 5.64 | 5.64 | 5.64 | 5.64 | 5.64 | 5.64 | 5.54 | 5.74 |
| gamma-BHC (Lindane) | 3.61 | 3.61 | 3.61 | 3.61 | 3.61 | 3.61 | 3.51 | 3.71 |
| Heptachlor | 3.95 | 3.95 | 3.95 | 3.95 | 3.94 | 3.94 | 3.84 | 4.04 |
| Heptachlor epoxide | 4.73 | 4.73 | 4.73 | 4.73 | 4.73 | 4.73 | 4.63 | 4.83 |
| Methoxychlor | 6.61 | 6.61 | 6.61 | 6.61 | 6.61 | 6.61 | 6.51 | 6.71 |
| Tetrachloro-m-xylene | 2.78 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.67 | 2.87 |

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## CALIBRATION FACTOR OF INITIAL CALIBRATION

**Contract:** RUTW01

**Lab Code:** CHEM **Case No.:** Q1207 **SAS No.:** Q1207 **SDG NO.:** Q1207

**Instrument ID:** ECD_L

**Calibration Date(s):** 01/21/2025 01/21/2025

**Calibration Times:** 10:57 11:51

**GC Column:** ZB-MR1 **ID:** 0.32 **(mm)**

**LAB FILE ID:** **CF 100 =** PL093728.D **CF 075 =** PL093729.D

**CF 050 =** PL093730.D **CF 025 =** PL093731.D **CF 005 =** PL093732.D

| COMPOUND | CF 100 | CF 075 | CF 050 | CF 025 | CF 005 | CF | % RSD |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 1768480000 | 1816480000 | 2098320000 | 2018470000 | 2757820000 | 2091910000 | 19 |
| Endrin | 2079430000 | 2060990000 | 2363220000 | 2218560000 | 3001890000 | 2344820000 | 17 |
| gamma-BHC (Lindane) | 3375960000 | 3339350000 | 3767250000 | 3460830000 | 4470850000 | 3682850000 | 13 |
| Heptachlor | 2922500000 | 2901690000 | 3325290000 | 3144100000 | 4093120000 | 3277340000 | 15 |
| Heptachlor epoxide | 2568680000 | 2575960000 | 2953630000 | 2835830000 | 3935020000 | 2973820000 | 19 |
| Methoxychlor | 907284000 | 922109000 | 1080370000 | 1020090000 | 1287130000 | 1043400000 | 15 |
| Tetrachloro-m-xylene | 2397870000 | 2402980000 | 2740040000 | 2595500000 | 3327420000 | 2692760000 | 14 |

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## CALIBRATION FACTOR OF INITIAL CALIBRATION

**Contract:** RUTW01

**Lab Code:** CHEM **Case No.:** Q1207 **SAS No.:** Q1207 **SDG NO.:** Q1207

**Instrument ID:** ECD_L

**Calibration Date(s):** 01/21/2025 01/21/2025

**Calibration Times:** 10:57 11:51

**GC Column:** ZB-MR2 **ID:** 0.32 **(mm)**

**LAB FILE ID:** **CF 100 =** PL093728.D **CF 075 =** PL093729.D

**CF 050 =** PL093730.D **CF 025 =** PL093731.D **CF 005 =** PL093732.D

| COMPOUND | CF 100 | CF 075 | CF 050 | CF 025 | CF 005 | CF | % RSD |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 3226690000 | 3193800000 | 3627020000 | 3320620000 | 4152210000 | 3504070000 | 11 |
| Endrin | 3607760000 | 3481170000 | 3870730000 | 3406140000 | 4097610000 | 3692680000 | 8 |
| gamma-BHC (Lindane) | 4713370000 | 4597010000 | 5084610000 | 4384810000 | 4926270000 | 4741210000 | 6 |
| Heptachlor | 4505180000 | 4413750000 | 4924840000 | 4345980000 | 5084220000 | 4654790000 | 7 |
| Heptachlor epoxide | 4026840000 | 3946880000 | 4424170000 | 3927960000 | 4575440000 | 4180260000 | 7 |
| Methoxychlor | 1651870000 | 1634200000 | 1870410000 | 1643810000 | 2140390000 | 1788140000 | 12 |
| Tetrachloro-m-xylene | 3101220000 | 3058550000 | 3437230000 | 3066200000 | 3657590000 | 3264160000 | 8 |

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## INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

**Contract:** RUTW01

**Lab Code:** CHEM **Case No.:** Q1207 **SAS No.:** Q1207 **SDG NO.:** Q1207

**Instrument ID:** ECD_L **Date(s) Analyzed:** 01/21/2025 01/21/2025

**GC Column:** ZB-MR1 **ID:** 0.32 (mm)

| COMPOUND | AMOUNT (ng) | PEAK | RT | RT WINDOW FROM | RT WINDOW TO | CALIBRATION FACTOR |
|---|---|---|---|---|---|---|
| Chlordane | 500 | 1 | 4.70 | 4.60 | 4.80 | 110671000 |
| | | 2 | 5.23 | 5.13 | 5.33 | 111822000 |
| | | 3 | 5.94 | 5.84 | 6.04 | 367564000 |
| | | 4 | 6.02 | 5.92 | 6.12 | 441167000 |
| | | 5 | 6.87 | 6.77 | 6.97 | 84311800 |
| Toxaphene | 500 | 1 | 6.24 | 6.14 | 6.34 | 23446000 |
| | | 2 | 6.44 | 6.34 | 6.54 | 14767200 |
| | | 3 | 7.06 | 6.96 | 7.16 | 75896000 |
| | | 4 | 7.15 | 7.05 | 7.25 | 57345100 |
| | | 5 | 7.93 | 7.83 | 8.03 | 43067100 |

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Fax : 908 789 8922

## INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

**Contract:** RUTW01

**Lab Code:** CHEM **Case No.:** Q1207 **SAS No.:** Q1207 **SDG NO.:** Q1207

**Instrument ID:** ECD_L **Date(s) Analyzed:** 01/21/2025 01/21/2025

**GC Column:** ZB-MR2 **ID:** 0.32 (mm)

| COMPOUND | AMOUNT (ng) | PEAK | RT | RT WINDOW FROM | RT WINDOW TO | CALIBRATION FACTOR |
|---|---|---|---|---|---|---|
| Chlordane | 500 | 1 | 3.77 | 3.67 | 3.87 | 122213000 |
| | | 2 | 4.35 | 4.25 | 4.45 | 140610000 |
| | | 3 | 4.98 | 4.88 | 5.08 | 427882000 |
| | | 4 | 5.04 | 4.94 | 5.14 | 412254000 |
| | | 5 | 5.94 | 5.84 | 6.04 | 148711000 |
| Toxaphene | 500 | 1 | 5.00 | 4.90 | 5.10 | 27057100 |
| | | 2 | 5.33 | 5.23 | 5.43 | 23947200 |
| | | 3 | 5.68 | 5.58 | 5.78 | 24726400 |
| | | 4 | 6.60 | 6.50 | 6.70 | 84987200 |
| | | 5 | 7.04 | 6.94 | 7.14 | 80238300 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** RUTW01

**Lab Code:** CHEM **Case No.:** Q1207 **SAS No.:** Q1207 **SDG NO.:** Q1207

**Continuing Calib Date:** 01/29/2025 **Initial Calibration Date(s):** 01/21/2025 01/21/2025

**Continuing Calib Time:** 16:30 **Initial Calibration Time(s):** 10:57 11:51

**GC Column:** ZB-MR1 **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.06 | 9.05 | 8.95 | 9.15 | -0.01 |
| Tetrachloro-m-xylene | 3.54 | 3.54 | 3.44 | 3.64 | 0.00 |
| gamma-BHC (Lindane) | 4.33 | 4.33 | 4.23 | 4.43 | 0.00 |
| Heptachlor | 4.92 | 4.91 | 4.81 | 5.01 | -0.01 |
| Heptachlor epoxide | 5.69 | 5.68 | 5.58 | 5.78 | 0.00 |
| Endrin | 6.58 | 6.57 | 6.47 | 6.67 | -0.01 |
| Methoxychlor | 7.50 | 7.50 | 7.40 | 7.60 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** RUTW01

**Lab Code:** CHEM **Case No.:** Q1207 **SAS No.:** Q1207 **SDG NO.:** Q1207

**Continuing Calib Date:** 01/29/2025 **Initial Calibration Date(s):** 01/21/2025 01/21/2025

**Continuing Calib Time:** 16:30 **Initial Calibration Time(s):** 10:57 11:51

**GC Column:** ZB-MR2 **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| Decachlorobiphenyl | 7.91 | 7.91 | 7.81 | 8.01 | 0.00 |
| Tetrachloro-m-xylene | 2.77 | 2.77 | 2.67 | 2.87 | 0.00 |
| gamma-BHC (Lindane) | 3.61 | 3.61 | 3.51 | 3.71 | 0.00 |
| Heptachlor | 3.95 | 3.95 | 3.85 | 4.05 | 0.00 |
| Heptachlor epoxide | 4.73 | 4.73 | 4.63 | 4.83 | 0.00 |
| Endrin | 5.64 | 5.64 | 5.54 | 5.74 | 0.00 |
| Methoxychlor | 6.61 | 6.61 | 6.51 | 6.71 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** RUTW01

**Lab Code:** CHEM **Case No.:** Q1207 **SAS No.:** Q1207 **SDG NO.:** Q1207

**GC Column:** ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 01/21/2025 01/21/2025

**Client Sample No.:** CCAL01 **Date Analyzed:** 01/29/2025

**Lab Sample No.:** PSTDCCC050 **Data File :** PL093854.D **Time Analyzed:** 16:30

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.060 | 8.953 | 9.153 | 53.100 | 50.000 | 6.2 |
| Endrin | 6.576 | 6.472 | 6.672 | 53.640 | 50.000 | 7.3 |
| gamma-BHC (Lindane) | 4.328 | 4.227 | 4.427 | 50.860 | 50.000 | 1.7 |
| Heptachlor | 4.916 | 4.814 | 5.014 | 52.950 | 50.000 | 5.9 |
| Heptachlor epoxide | 5.685 | 5.582 | 5.782 | 49.820 | 50.000 | -0.4 |
| Methoxychlor | 7.503 | 7.398 | 7.598 | 57.780 | 50.000 | 15.6 |
| Tetrachloro-m-xylene | 3.539 | 3.439 | 3.639 | 50.560 | 50.000 | 1.1 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** RUTW01

**Lab Code:** CHEM **Case No.:** Q1207 **SAS No.:** Q1207 **SDG NO.:** Q1207

**GC Column:** ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 01/21/2025 01/21/2025

**Client Sample No.:** CCAL01 **Date Analyzed:** 01/29/2025

**Lab Sample No.:** PSTDCCC050 **Data File :** PL093854.D **Time Analyzed:** 16:30

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 7.913 | 7.810 | 8.010 | 53.840 | 50.000 | 7.7 |
| Endrin | 5.638 | 5.536 | 5.736 | 53.380 | 50.000 | 6.8 |
| gamma-BHC (Lindane) | 3.607 | 3.507 | 3.707 | 50.260 | 50.000 | 0.5 |
| Heptachlor | 3.946 | 3.845 | 4.045 | 51.740 | 50.000 | 3.5 |
| Heptachlor epoxide | 4.728 | 4.627 | 4.827 | 50.190 | 50.000 | 0.4 |
| Methoxychlor | 6.612 | 6.509 | 6.709 | 55.130 | 50.000 | 10.3 |
| Tetrachloro-m-xylene | 2.774 | 2.674 | 2.874 | 49.850 | 50.000 | -0.3 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** RUTW01

**Lab Code:** CHEM **Case No.:** Q1207 **SAS No.:** Q1207 **SDG NO.:** Q1207

**Continuing Calib Date:** 01/29/2025 **Initial Calibration Date(s):** 01/21/2025 01/21/2025

**Continuing Calib Time:** 19:11 **Initial Calibration Time(s):** 10:57 11:51

**GC Column:** ZB-MR1 **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.06 | 9.05 | 8.95 | 9.15 | -0.01 |
| Tetrachloro-m-xylene | 3.54 | 3.54 | 3.44 | 3.64 | 0.00 |
| gamma-BHC (Lindane) | 4.33 | 4.33 | 4.23 | 4.43 | 0.00 |
| Heptachlor | 4.92 | 4.91 | 4.81 | 5.01 | -0.01 |
| Heptachlor epoxide | 5.69 | 5.68 | 5.58 | 5.78 | 0.00 |
| Endrin | 6.58 | 6.57 | 6.47 | 6.67 | -0.01 |
| Methoxychlor | 7.50 | 7.50 | 7.40 | 7.60 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** RUTW01

**Lab Code:** CHEM **Case No.:** Q1207 **SAS No.:** Q1207 **SDG NO.:** Q1207

**Continuing Calib Date:** 01/29/2025 **Initial Calibration Date(s):** 01/21/2025 01/21/2025

**Continuing Calib Time:** 19:11 **Initial Calibration Time(s):** 10:57 11:51

**GC Column:** ZB-MR2 **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| Decachlorobiphenyl | 7.91 | 7.91 | 7.81 | 8.01 | 0.00 |
| Tetrachloro-m-xylene | 2.78 | 2.77 | 2.67 | 2.87 | -0.01 |
| gamma-BHC (Lindane) | 3.61 | 3.61 | 3.51 | 3.71 | 0.00 |
| Heptachlor | 3.95 | 3.95 | 3.85 | 4.05 | 0.00 |
| Heptachlor epoxide | 4.73 | 4.73 | 4.63 | 4.83 | 0.00 |
| Endrin | 5.64 | 5.64 | 5.54 | 5.74 | 0.00 |
| Methoxychlor | 6.61 | 6.61 | 6.51 | 6.71 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** RUTW01

**Lab Code:** CHEM **Case No.:** Q1207 **SAS No.:** Q1207 **SDG NO.:** Q1207

**GC Column:** ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 01/21/2025 01/21/2025

**Client Sample No.:** CCAL02 **Date Analyzed:** 01/29/2025

**Lab Sample No.:** PSTDCCC050 **Data File :** PL093864.D **Time Analyzed:** 19:11

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.059 | 8.953 | 9.153 | 49.770 | 50.000 | -0.5 |
| Endrin | 6.576 | 6.472 | 6.672 | 49.830 | 50.000 | -0.3 |
| gamma-BHC (Lindane) | 4.328 | 4.227 | 4.427 | 46.930 | 50.000 | -6.1 |
| Heptachlor | 4.916 | 4.814 | 5.014 | 48.830 | 50.000 | -2.3 |
| Heptachlor epoxide | 5.685 | 5.582 | 5.782 | 46.430 | 50.000 | -7.1 |
| Methoxychlor | 7.502 | 7.398 | 7.598 | 53.490 | 50.000 | 7.0 |
| Tetrachloro-m-xylene | 3.539 | 3.439 | 3.639 | 46.770 | 50.000 | -6.5 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** RUTW01

**Lab Code:** CHEM **Case No.:** Q1207 **SAS No.:** Q1207 **SDG NO.:** Q1207

**GC Column:** ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 01/21/2025 01/21/2025

**Client Sample No.:** CCAL02 **Date Analyzed:** 01/29/2025

**Lab Sample No.:** PSTDCCC050 **Data File :** PL093864.D **Time Analyzed:** 19:11

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 7.913 | 7.810 | 8.010 | 50.680 | 50.000 | 1.4 |
| Endrin | 5.639 | 5.536 | 5.736 | 49.190 | 50.000 | -1.6 |
| gamma-BHC (Lindane) | 3.608 | 3.507 | 3.707 | 46.140 | 50.000 | -7.7 |
| Heptachlor | 3.946 | 3.845 | 4.045 | 47.650 | 50.000 | -4.7 |
| Heptachlor epoxide | 4.729 | 4.627 | 4.827 | 46.420 | 50.000 | -7.2 |
| Methoxychlor | 6.612 | 6.509 | 6.709 | 51.050 | 50.000 | 2.1 |
| Tetrachloro-m-xylene | 2.775 | 2.674 | 2.874 | 46.240 | 50.000 | -7.5 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** RUTW01

**Lab Code:** CHEM **Case No.:** Q1207 **SAS No.:** Q1207 **SDG NO.:** Q1207

**Continuing Calib Date:** 01/30/2025 **Initial Calibration Date(s):** 01/21/2025 01/21/2025

**Continuing Calib Time:** 09:58 **Initial Calibration Time(s):** 10:57 11:51

**GC Column:** ZB-MR1 **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.06 | 9.05 | 8.95 | 9.15 | -0.01 |
| Tetrachloro-m-xylene | 3.54 | 3.54 | 3.44 | 3.64 | 0.00 |
| gamma-BHC (Lindane) | 4.33 | 4.33 | 4.23 | 4.43 | 0.00 |
| Heptachlor | 4.92 | 4.91 | 4.81 | 5.01 | 0.00 |
| Heptachlor epoxide | 5.68 | 5.68 | 5.58 | 5.78 | 0.00 |
| Endrin | 6.57 | 6.57 | 6.47 | 6.67 | 0.00 |
| Methoxychlor | 7.50 | 7.50 | 7.40 | 7.60 | 0.00 |

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# CALIBRATION VERIFICATION SUMMARY

**Contract:** RUTW01

**Lab Code:** CHEM **Case No.:** Q1207 **SAS No.:** Q1207 **SDG NO.:** Q1207

**Continuing Calib Date:** 01/30/2025 **Initial Calibration Date(s):** 01/21/2025 01/21/2025

**Continuing Calib Time:** 09:58 **Initial Calibration Time(s):** 10:57 11:51

**GC Column:** ZB-MR2 **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| Decachlorobiphenyl | 7.91 | 7.91 | 7.81 | 8.01 | 0.00 |
| Tetrachloro-m-xylene | 2.77 | 2.77 | 2.67 | 2.87 | 0.00 |
| gamma-BHC (Lindane) | 3.61 | 3.61 | 3.51 | 3.71 | 0.00 |
| Heptachlor | 3.95 | 3.95 | 3.85 | 4.05 | 0.01 |
| Heptachlor epoxide | 4.73 | 4.73 | 4.63 | 4.83 | 0.00 |
| Endrin | 5.64 | 5.64 | 5.54 | 5.74 | 0.00 |
| Methoxychlor | 6.61 | 6.61 | 6.51 | 6.71 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** RUTW01

**Lab Code:** CHEM **Case No.:** Q1207 **SAS No.:** Q1207 **SDG NO.:** Q1207

**GC Column:** ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 01/21/2025 01/21/2025

**Client Sample No.:** CCAL03 **Date Analyzed:** 01/30/2025

**Lab Sample No.:** PSTDCCC050 **Data File :** PL093876.D **Time Analyzed:** 09:58

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.055 | 8.953 | 9.153 | 48.590 | 50.000 | -2.8 |
| Endrin | 6.574 | 6.472 | 6.672 | 48.110 | 50.000 | -3.8 |
| gamma-BHC (Lindane) | 4.327 | 4.227 | 4.427 | 45.140 | 50.000 | -9.7 |
| Heptachlor | 4.915 | 4.814 | 5.014 | 47.560 | 50.000 | -4.9 |
| Heptachlor epoxide | 5.683 | 5.582 | 5.782 | 45.130 | 50.000 | -9.7 |
| Methoxychlor | 7.500 | 7.398 | 7.598 | 51.550 | 50.000 | 3.1 |
| Tetrachloro-m-xylene | 3.539 | 3.439 | 3.639 | 45.390 | 50.000 | -9.2 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** RUTW01

**Lab Code:** CHEM **Case No.:** Q1207 **SAS No.:** Q1207 **SDG NO.:** Q1207

**GC Column:** ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 01/21/2025 01/21/2025

**Client Sample No.:** CCAL03 **Date Analyzed:** 01/30/2025

**Lab Sample No.:** PSTDCCC050 **Data File :** PL093876.D **Time Analyzed:** 09:58

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 7.910 | 7.810 | 8.010 | 49.800 | 50.000 | -0.4 |
| Endrin | 5.636 | 5.536 | 5.736 | 48.870 | 50.000 | -2.3 |
| gamma-BHC (Lindane) | 3.607 | 3.507 | 3.707 | 46.010 | 50.000 | -8.0 |
| Heptachlor | 3.945 | 3.845 | 4.045 | 47.440 | 50.000 | -5.1 |
| Heptachlor epoxide | 4.727 | 4.627 | 4.827 | 46.460 | 50.000 | -7.1 |
| Methoxychlor | 6.610 | 6.509 | 6.709 | 49.830 | 50.000 | -0.3 |
| Tetrachloro-m-xylene | 2.774 | 2.674 | 2.874 | 45.470 | 50.000 | -9.1 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** RUTW01

**Lab Code:** CHEM **Case No.:** Q1207 **SAS No.:** Q1207 **SDG NO.:** Q1207

**Continuing Calib Date:** 01/30/2025 **Initial Calibration Date(s):** 01/21/2025 01/21/2025

**Continuing Calib Time:** 13:53 **Initial Calibration Time(s):** 10:57 11:51

**GC Column:** ZB-MR1 **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.06 | 9.05 | 8.95 | 9.15 | -0.01 |
| Tetrachloro-m-xylene | 3.54 | 3.54 | 3.44 | 3.64 | 0.00 |
| gamma-BHC (Lindane) | 4.33 | 4.33 | 4.23 | 4.43 | 0.00 |
| Heptachlor | 4.92 | 4.91 | 4.81 | 5.01 | -0.01 |
| Heptachlor epoxide | 5.68 | 5.68 | 5.58 | 5.78 | 0.00 |
| Endrin | 6.57 | 6.57 | 6.47 | 6.67 | 0.00 |
| Methoxychlor | 7.50 | 7.50 | 7.40 | 7.60 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** RUTW01

**Lab Code:** CHEM **Case No.:** Q1207 **SAS No.:** Q1207 **SDG NO.:** Q1207

**Continuing Calib Date:** 01/30/2025 **Initial Calibration Date(s):** 01/21/2025 01/21/2025

**Continuing Calib Time:** 13:53 **Initial Calibration Time(s):** 10:57 11:51

**GC Column:** ZB-MR2 **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| Decachlorobiphenyl | 7.91 | 7.91 | 7.81 | 8.01 | 0.00 |
| Tetrachloro-m-xylene | 2.77 | 2.77 | 2.67 | 2.87 | 0.00 |
| gamma-BHC (Lindane) | 3.61 | 3.61 | 3.51 | 3.71 | 0.00 |
| Heptachlor | 3.95 | 3.95 | 3.85 | 4.05 | 0.01 |
| Heptachlor epoxide | 4.73 | 4.73 | 4.63 | 4.83 | 0.00 |
| Endrin | 5.64 | 5.64 | 5.54 | 5.74 | 0.00 |
| Methoxychlor | 6.61 | 6.61 | 6.51 | 6.71 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** RUTW01

**Lab Code:** CHEM **Case No.:** Q1207 **SAS No.:** Q1207 **SDG NO.:** Q1207

**GC Column:** ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 01/21/2025 01/21/2025

**Client Sample No.:** CCAL04 **Date Analyzed:** 01/30/2025

**Lab Sample No.:** PSTDCCC050 **Data File :** PL093888.D **Time Analyzed:** 13:53

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.056 | 8.953 | 9.153 | 48.490 | 50.000 | -3.0 |
| Endrin | 6.573 | 6.472 | 6.672 | 43.820 | 50.000 | -12.4 |
| gamma-BHC (Lindane) | 4.328 | 4.227 | 4.427 | 44.710 | 50.000 | -10.6 |
| Heptachlor | 4.916 | 4.814 | 5.014 | 46.250 | 50.000 | -7.5 |
| Heptachlor epoxide | 5.684 | 5.582 | 5.782 | 44.430 | 50.000 | -11.1 |
| Methoxychlor | 7.500 | 7.398 | 7.598 | 46.980 | 50.000 | -6.0 |
| Tetrachloro-m-xylene | 3.539 | 3.439 | 3.639 | 45.400 | 50.000 | -9.2 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** RUTW01

**Lab Code:** CHEM **Case No.:** Q1207 **SAS No.:** Q1207 **SDG NO.:** Q1207

**GC Column:** ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 01/21/2025 01/21/2025

**Client Sample No.:** CCAL04 **Date Analyzed:** 01/30/2025

**Lab Sample No.:** PSTDCCC050 **Data File :** PL093888.D **Time Analyzed:** 13:53

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 7.910 | 7.810 | 8.010 | 48.940 | 50.000 | -2.1 |
| Endrin | 5.637 | 5.536 | 5.736 | 45.280 | 50.000 | -9.4 |
| gamma-BHC (Lindane) | 3.607 | 3.507 | 3.707 | 44.600 | 50.000 | -10.8 |
| Heptachlor | 3.945 | 3.845 | 4.045 | 45.400 | 50.000 | -9.2 |
| Heptachlor epoxide | 4.727 | 4.627 | 4.827 | 44.970 | 50.000 | -10.1 |
| Methoxychlor | 6.610 | 6.509 | 6.709 | 45.430 | 50.000 | -9.1 |
| Tetrachloro-m-xylene | 2.774 | 2.674 | 2.874 | 44.780 | 50.000 | -10.4 |

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Fax : 908 789 8922

## CALIBRATION VERIFICATION SUMMARY

**Contract:** RUTW01

**Lab Code:** CHEM **Case No.:** Q1207 **SAS No.:** Q1207 **SDG NO.:** Q1207

**Continuing Calib Date:** 01/30/2025 **Initial Calibration Date(s):** 01/21/2025 01/21/2025

**Continuing Calib Time:** 19:06 **Initial Calibration Time(s):** 10:57 11:51

**GC Column:** ZB-MR1 **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.05 | 9.05 | 8.95 | 9.15 | 0.00 |
| Tetrachloro-m-xylene | 3.54 | 3.54 | 3.44 | 3.64 | 0.00 |
| gamma-BHC (Lindane) | 4.33 | 4.33 | 4.23 | 4.43 | 0.00 |
| Heptachlor | 4.91 | 4.91 | 4.81 | 5.01 | 0.00 |
| Heptachlor epoxide | 5.68 | 5.68 | 5.58 | 5.78 | 0.00 |
| Endrin | 6.57 | 6.57 | 6.47 | 6.67 | 0.00 |
| Methoxychlor | 7.50 | 7.50 | 7.40 | 7.60 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** RUTW01

**Lab Code:** CHEM **Case No.:** Q1207 **SAS No.:** Q1207 **SDG NO.:** Q1207

**Continuing Calib Date:** 01/30/2025 **Initial Calibration Date(s):** 01/21/2025 01/21/2025

**Continuing Calib Time:** 19:06 **Initial Calibration Time(s):** 10:57 11:51

**GC Column:** ZB-MR2 **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| Decachlorobiphenyl | 7.91 | 7.91 | 7.81 | 8.01 | 0.00 |
| Tetrachloro-m-xylene | 2.77 | 2.77 | 2.67 | 2.87 | 0.00 |
| gamma-BHC (Lindane) | 3.61 | 3.61 | 3.51 | 3.71 | 0.00 |
| Heptachlor | 3.94 | 3.95 | 3.85 | 4.05 | 0.01 |
| Heptachlor epoxide | 4.73 | 4.73 | 4.63 | 4.83 | 0.00 |
| Endrin | 5.64 | 5.64 | 5.54 | 5.74 | 0.00 |
| Methoxychlor | 6.61 | 6.61 | 6.51 | 6.71 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** RUTW01

**Lab Code:** CHEM **Case No.:** Q1207 **SAS No.:** Q1207 **SDG NO.:** Q1207

**GC Column:** ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 01/21/2025 01/21/2025

**Client Sample No.:** CCAL05 **Date Analyzed:** 01/30/2025

**Lab Sample No.:** PSTDCCC050 **Data File :** PL093906.D **Time Analyzed:** 19:06

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.053 | 8.953 | 9.153 | 45.970 | 50.000 | -8.1 |
| Endrin | 6.571 | 6.472 | 6.672 | 41.650 | 50.000 | -16.7 |
| gamma-BHC (Lindane) | 4.326 | 4.227 | 4.427 | 45.020 | 50.000 | -10.0 |
| Heptachlor | 4.914 | 4.814 | 5.014 | 45.190 | 50.000 | -9.6 |
| Heptachlor epoxide | 5.681 | 5.582 | 5.782 | 43.240 | 50.000 | -13.5 |
| Methoxychlor | 7.498 | 7.398 | 7.598 | 44.720 | 50.000 | -10.6 |
| Tetrachloro-m-xylene | 3.537 | 3.439 | 3.639 | 45.460 | 50.000 | -9.1 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** RUTW01

**Lab Code:** CHEM **Case No.:** Q1207 **SAS No.:** Q1207 **SDG NO.:** Q1207

**GC Column:** ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 01/21/2025 01/21/2025

**Client Sample No.:** CCAL05 **Date Analyzed:** 01/30/2025

**Lab Sample No.:** PSTDCCC050 **Data File :** PL093906.D **Time Analyzed:** 19:06

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 7.909 | 7.810 | 8.010 | 45.120 | 50.000 | -9.8 |
| Endrin | 5.635 | 5.536 | 5.736 | 44.130 | 50.000 | -11.7 |
| gamma-BHC (Lindane) | 3.606 | 3.507 | 3.707 | 46.060 | 50.000 | -7.9 |
| Heptachlor | 3.944 | 3.845 | 4.045 | 45.820 | 50.000 | -8.4 |
| Heptachlor epoxide | 4.726 | 4.627 | 4.827 | 46.510 | 50.000 | -7.0 |
| Methoxychlor | 6.609 | 6.509 | 6.709 | 42.130 | 50.000 | -15.7 |
| Tetrachloro-m-xylene | 2.774 | 2.674 | 2.874 | 46.540 | 50.000 | -6.9 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** RUTW01

**Lab Code:** CHEM **Case No.:** Q1207 **SAS No.:** Q1207 **SDG NO.:** Q1207

**Continuing Calib Date:** 02/03/2025 **Initial Calibration Date(s):** 01/21/2025 01/21/2025

**Continuing Calib Time:** 12:17 **Initial Calibration Time(s):** 10:57 11:51

**GC Column:** ZB-MR1 **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.06 | 9.05 | 8.95 | 9.15 | -0.01 |
| Tetrachloro-m-xylene | 3.54 | 3.54 | 3.44 | 3.64 | 0.00 |
| gamma-BHC (Lindane) | 4.33 | 4.33 | 4.23 | 4.43 | 0.00 |
| Heptachlor | 4.92 | 4.91 | 4.81 | 5.01 | -0.01 |
| Heptachlor epoxide | 5.69 | 5.68 | 5.58 | 5.78 | -0.01 |
| Endrin | 6.58 | 6.57 | 6.47 | 6.67 | -0.01 |
| Methoxychlor | 7.50 | 7.50 | 7.40 | 7.60 | 0.00 |

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# CALIBRATION VERIFICATION SUMMARY

**Contract:** RUTW01

**Lab Code:** CHEM **Case No.:** Q1207 **SAS No.:** Q1207 **SDG NO.:** Q1207

**Continuing Calib Date:** 02/03/2025 **Initial Calibration Date(s):** 01/21/2025 01/21/2025

**Continuing Calib Time:** 12:17 **Initial Calibration Time(s):** 10:57 11:51

**GC Column:** ZB-MR2 **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| Decachlorobiphenyl | 7.91 | 7.91 | 7.81 | 8.01 | 0.00 |
| Tetrachloro-m-xylene | 2.77 | 2.77 | 2.67 | 2.87 | 0.00 |
| gamma-BHC (Lindane) | 3.61 | 3.61 | 3.51 | 3.71 | 0.00 |
| Heptachlor | 3.95 | 3.95 | 3.85 | 4.05 | 0.00 |
| Heptachlor epoxide | 4.73 | 4.73 | 4.63 | 4.83 | 0.00 |
| Endrin | 5.64 | 5.64 | 5.54 | 5.74 | 0.00 |
| Methoxychlor | 6.61 | 6.61 | 6.51 | 6.71 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** RUTW01

**Lab Code:** CHEM **Case No.:** Q1207 **SAS No.:** Q1207 **SDG NO.:** Q1207

**GC Column:** ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 01/21/2025 01/21/2025

**Client Sample No.:** CCAL06 **Date Analyzed:** 02/03/2025

**Lab Sample No.:** PSTDCCC050 **Data File :** PL093982.D **Time Analyzed:** 12:17

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.061 | 8.953 | 9.153 | 48.630 | 50.000 | -2.7 |
| Endrin | 6.577 | 6.472 | 6.672 | 51.580 | 50.000 | 3.2 |
| gamma-BHC (Lindane) | 4.333 | 4.227 | 4.427 | 55.370 | 50.000 | 10.7 |
| Heptachlor | 4.921 | 4.814 | 5.014 | 55.190 | 50.000 | 10.4 |
| Heptachlor epoxide | 5.688 | 5.582 | 5.782 | 48.040 | 50.000 | -3.9 |
| Methoxychlor | 7.503 | 7.398 | 7.598 | 57.600 | 50.000 | 15.2 |
| Tetrachloro-m-xylene | 3.544 | 3.439 | 3.639 | 54.550 | 50.000 | 9.1 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** RUTW01

**Lab Code:** CHEM **Case No.:** Q1207 **SAS No.:** Q1207 **SDG NO.:** Q1207

**GC Column:** ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 01/21/2025 01/21/2025

**Client Sample No.:** CCAL06 **Date Analyzed:** 02/03/2025

**Lab Sample No.:** PSTDCCC050 **Data File :** PL093982.D **Time Analyzed:** 12:17

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 7.913 | 7.810 | 8.010 | 46.730 | 50.000 | -6.5 |
| Endrin | 5.638 | 5.536 | 5.736 | 52.920 | 50.000 | 5.8 |
| gamma-BHC (Lindane) | 3.608 | 3.507 | 3.707 | 52.550 | 50.000 | 5.1 |
| Heptachlor | 3.946 | 3.845 | 4.045 | 53.790 | 50.000 | 7.6 |
| Heptachlor epoxide | 4.728 | 4.627 | 4.827 | 53.570 | 50.000 | 7.1 |
| Methoxychlor | 6.612 | 6.509 | 6.709 | 55.210 | 50.000 | 10.4 |
| Tetrachloro-m-xylene | 2.774 | 2.674 | 2.874 | 54.490 | 50.000 | 9.0 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** RUTW01

**Lab Code:** CHEM **Case No.:** Q1207 **SAS No.:** Q1207 **SDG NO.:** Q1207

**Continuing Calib Date:** 02/03/2025 **Initial Calibration Date(s):** 01/21/2025 01/21/2025

**Continuing Calib Time:** 17:50 **Initial Calibration Time(s):** 10:57 11:51

**GC Column:** ZB-MR1 **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.06 | 9.05 | 8.95 | 9.15 | -0.01 |
| Tetrachloro-m-xylene | 3.54 | 3.54 | 3.44 | 3.64 | 0.00 |
| gamma-BHC (Lindane) | 4.33 | 4.33 | 4.23 | 4.43 | 0.00 |
| Heptachlor | 4.92 | 4.91 | 4.81 | 5.01 | -0.01 |
| Heptachlor epoxide | 5.68 | 5.68 | 5.58 | 5.78 | 0.00 |
| Endrin | 6.58 | 6.57 | 6.47 | 6.67 | 0.00 |
| Methoxychlor | 7.50 | 7.50 | 7.40 | 7.60 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** RUTW01

**Lab Code:** CHEM **Case No.:** Q1207 **SAS No.:** Q1207 **SDG NO.:** Q1207

**Continuing Calib Date:** 02/03/2025 **Initial Calibration Date(s):** 01/21/2025 01/21/2025

**Continuing Calib Time:** 17:50 **Initial Calibration Time(s):** 10:57 11:51

**GC Column:** ZB-MR2 **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| Decachlorobiphenyl | 7.91 | 7.91 | 7.81 | 8.01 | 0.00 |
| Tetrachloro-m-xylene | 2.77 | 2.77 | 2.67 | 2.87 | 0.00 |
| gamma-BHC (Lindane) | 3.61 | 3.61 | 3.51 | 3.71 | 0.00 |
| Heptachlor | 3.94 | 3.95 | 3.85 | 4.05 | 0.01 |
| Heptachlor epoxide | 4.73 | 4.73 | 4.63 | 4.83 | 0.00 |
| Endrin | 5.64 | 5.64 | 5.54 | 5.74 | 0.00 |
| Methoxychlor | 6.61 | 6.61 | 6.51 | 6.71 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** RUTW01

**Lab Code:** CHEM **Case No.:** Q1207 **SAS No.:** Q1207 **SDG NO.:** Q1207

**GC Column:** ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 01/21/2025 01/21/2025

**Client Sample No.:** CCAL07 **Date Analyzed:** 02/03/2025

**Lab Sample No.:** PSTDCCC050 **Data File :** PL094001.D **Time Analyzed:** 17:50

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.055 | 8.953 | 9.153 | 50.120 | 50.000 | 0.2 |
| Endrin | 6.575 | 6.472 | 6.672 | 53.310 | 50.000 | 6.6 |
| gamma-BHC (Lindane) | 4.328 | 4.227 | 4.427 | 53.780 | 50.000 | 7.6 |
| Heptachlor | 4.916 | 4.814 | 5.014 | 54.610 | 50.000 | 9.2 |
| Heptachlor epoxide | 5.684 | 5.582 | 5.782 | 51.770 | 50.000 | 3.5 |
| Methoxychlor | 7.501 | 7.398 | 7.598 | 56.300 | 50.000 | 12.6 |
| Tetrachloro-m-xylene | 3.540 | 3.439 | 3.639 | 52.880 | 50.000 | 5.8 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** RUTW01

**Lab Code:** CHEM **Case No.:** Q1207 **SAS No.:** Q1207 **SDG NO.:** Q1207

**GC Column:** ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 01/21/2025 01/21/2025

**Client Sample No.:** CCAL07 **Date Analyzed:** 02/03/2025

**Lab Sample No.:** PSTDCCC050 **Data File :** PL094001.D **Time Analyzed:** 17:50

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 7.909 | 7.810 | 8.010 | 52.420 | 50.000 | 4.8 |
| Endrin | 5.636 | 5.536 | 5.736 | 55.090 | 50.000 | 10.2 |
| gamma-BHC (Lindane) | 3.606 | 3.507 | 3.707 | 53.550 | 50.000 | 7.1 |
| Heptachlor | 3.944 | 3.845 | 4.045 | 53.700 | 50.000 | 7.4 |
| Heptachlor epoxide | 4.727 | 4.627 | 4.827 | 54.320 | 50.000 | 8.6 |
| Methoxychlor | 6.609 | 6.509 | 6.709 | 58.410 | 50.000 | 16.8 |
| Tetrachloro-m-xylene | 2.773 | 2.674 | 2.874 | 53.550 | 50.000 | 7.1 |

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# PESTICIDE CALIBRATION VERIFICATION SUMMARY

**Contract:** RUTW01

**Lab Code:** CHEM **Case No.:** Q1207 **SAS No.:** Q1207 **SDG NO.:** Q1207

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 01/21/2025 01/21/2025

**Client Sample No. (PEM):** PEM - PL093726.D **Date Analyzed:** 01/21/2025

**Lab Sample No.(PEM):** PEM **Time Analyzed:** 10:30

| PEM COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.052 | 8.950 | 9.150 | 18.070 | 20.000 | -9.7 |
| Tetrachloro-m-xylene | 3.538 | 3.490 | 3.590 | 18.530 | 20.000 | -7.4 |
| alpha-BHC | 3.994 | 3.940 | 4.040 | 9.490 | 10.000 | -5.1 |
| beta-BHC | 4.525 | 4.470 | 4.580 | 9.790 | 10.000 | -2.1 |
| gamma-BHC (Lindane) | 4.326 | 4.280 | 4.380 | 9.300 | 10.000 | -7.0 |
| Endrin | 6.572 | 6.500 | 6.640 | 41.270 | 50.000 | -17.5 |
| 4,4'-DDT | 7.022 | 6.950 | 7.090 | 82.410 | 100.000 | -17.6 |
| Methoxychlor | 7.498 | 7.430 | 7.570 | 190.380 | 250.000 | -23.8 |

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 01/21/2025 01/21/2025

**Client Sample No. (PEM):** PEM - PL093726.D **Date Analyzed:** 01/21/2025

**Lab Sample No.(PEM):** PEM **Time Analyzed:** 10:30

| PEM COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 7.909 | 7.810 | 8.010 | 17.950 | 20.000 | -10.3 |
| Tetrachloro-m-xylene | 2.775 | 2.720 | 2.830 | 17.900 | 20.000 | -10.5 |
| alpha-BHC | 3.277 | 3.230 | 3.330 | 8.620 | 10.000 | -13.8 |
| beta-BHC | 3.907 | 3.860 | 3.960 | 9.800 | 10.000 | -2.0 |
| gamma-BHC (Lindane) | 3.607 | 3.560 | 3.660 | 8.300 | 10.000 | -17.0 |
| Endrin | 5.636 | 5.570 | 5.710 | 42.700 | 50.000 | -14.6 |
| 4,4'-DDT | 6.034 | 5.960 | 6.100 | 96.510 | 100.000 | -3.5 |
| Methoxychlor | 6.609 | 6.540 | 6.680 | 209.940 | 250.000 | -16.0 |

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# PESTICIDE CALIBRATION VERIFICATION SUMMARY

**Contract:** RUTW01

**Lab Code:** CHEM **Case No.:** Q1207 **SAS No.:** Q1207 **SDG NO.:** Q1207

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 01/21/2025 01/21/2025

**Client Sample No. (PEM):** PEM - PL093842.D **Date Analyzed:** 01/29/2025

**Lab Sample No.(PEM):** PEM **Time Analyzed:** 10:10

| PEM COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.060 | 8.960 | 9.160 | 22.550 | 20.000 | 12.8 |
| Tetrachloro-m-xylene | 3.538 | 3.490 | 3.590 | 21.480 | 20.000 | 7.4 |
| alpha-BHC | 3.994 | 3.940 | 4.040 | 11.230 | 10.000 | 12.3 |
| beta-BHC | 4.526 | 4.480 | 4.580 | 11.610 | 10.000 | 16.1 |
| gamma-BHC (Lindane) | 4.327 | 4.280 | 4.380 | 11.240 | 10.000 | 12.4 |
| Endrin | 6.576 | 6.510 | 6.650 | 50.170 | 50.000 | 0.3 |
| 4,4'-DDT | 7.027 | 6.960 | 7.100 | 106.770 | 100.000 | 6.8 |
| Methoxychlor | 7.503 | 7.430 | 7.570 | 247.220 | 250.000 | -1.1 |

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 01/21/2025 01/21/2025

**Client Sample No. (PEM):** PEM - PL093842.D **Date Analyzed:** 01/29/2025

**Lab Sample No.(PEM):** PEM **Time Analyzed:** 10:10

| PEM COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 7.913 | 7.810 | 8.010 | 20.860 | 20.000 | 4.3 |
| Tetrachloro-m-xylene | 2.774 | 2.720 | 2.820 | 20.210 | 20.000 | 1.1 |
| alpha-BHC | 3.277 | 3.230 | 3.330 | 9.770 | 10.000 | -2.3 |
| beta-BHC | 3.907 | 3.860 | 3.960 | 11.050 | 10.000 | 10.5 |
| gamma-BHC (Lindane) | 3.607 | 3.560 | 3.660 | 9.350 | 10.000 | -6.5 |
| Endrin | 5.638 | 5.570 | 5.710 | 48.690 | 50.000 | -2.6 |
| 4,4'-DDT | 6.036 | 5.970 | 6.110 | 116.290 | 100.000 | 16.3 |
| Methoxychlor | 6.612 | 6.540 | 6.680 | 254.730 | 250.000 | 1.9 |

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## PESTICIDE CALIBRATION VERIFICATION SUMMARY

**Contract:** RUTW01

**Lab Code:** CHEM **Case No.:** Q1207 **SAS No.:** Q1207 **SDG NO.:** Q1207

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 01/21/2025 01/21/2025

**Client Sample No. (PEM):** PEM - PL093875.D **Date Analyzed:** 01/30/2025

**Lab Sample No.(PEM):** PEM **Time Analyzed:** 09:45

| PEM COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.056 | 8.960 | 9.160 | 23.080 | 20.000 | 15.4 |
| Tetrachloro-m-xylene | 3.539 | 3.490 | 3.590 | 21.630 | 20.000 | 8.2 |
| alpha-BHC | 3.995 | 3.940 | 4.050 | 11.160 | 10.000 | 11.6 |
| beta-BHC | 4.525 | 4.470 | 4.580 | 11.630 | 10.000 | 16.3 |
| gamma-BHC (Lindane) | 4.327 | 4.280 | 4.380 | 11.090 | 10.000 | 10.9 |
| Endrin | 6.575 | 6.500 | 6.650 | 50.070 | 50.000 | 0.1 |
| 4,4'-DDT | 7.025 | 6.950 | 7.100 | 105.300 | 100.000 | 5.3 |
| Methoxychlor | 7.501 | 7.430 | 7.570 | 246.960 | 250.000 | -1.2 |

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 01/21/2025 01/21/2025

**Client Sample No. (PEM):** PEM - PL093875.D **Date Analyzed:** 01/30/2025

**Lab Sample No.(PEM):** PEM **Time Analyzed:** 09:45

| PEM COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 7.910 | 7.810 | 8.010 | 22.210 | 20.000 | 11.1 |
| Tetrachloro-m-xylene | 2.774 | 2.720 | 2.820 | 20.410 | 20.000 | 2.1 |
| alpha-BHC | 3.276 | 3.230 | 3.330 | 9.790 | 10.000 | -2.1 |
| beta-BHC | 3.907 | 3.860 | 3.960 | 11.070 | 10.000 | 10.7 |
| gamma-BHC (Lindane) | 3.606 | 3.560 | 3.660 | 9.520 | 10.000 | -4.8 |
| Endrin | 5.637 | 5.570 | 5.710 | 50.920 | 50.000 | 1.8 |
| 4,4'-DDT | 6.035 | 5.960 | 6.110 | 119.020 | 100.000 | 19.0 |
| Methoxychlor | 6.610 | 6.540 | 6.680 | 257.770 | 250.000 | 3.1 |

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# PESTICIDE CALIBRATION VERIFICATION SUMMARY

**Contract:** RUTW01

**Lab Code:** CHEM **Case No.:** Q1207 **SAS No.:** Q1207 **SDG NO.:** Q1207

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 01/21/2025 01/21/2025

**Client Sample No. (PEM):** PEM - PL093981.D **Date Analyzed:** 02/03/2025

**Lab Sample No.(PEM):** PEM **Time Analyzed:** 11:03

| PEM COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.056 | 8.960 | 9.160 | 14.510 | 20.000 | -27.5 |
| Tetrachloro-m-xylene | 3.540 | 3.490 | 3.590 | 18.660 | 20.000 | -6.7 |
| alpha-BHC | 3.996 | 3.950 | 4.050 | 9.460 | 10.000 | -5.4 |
| beta-BHC | 4.527 | 4.480 | 4.580 | 9.070 | 10.000 | -9.3 |
| gamma-BHC (Lindane) | 4.329 | 4.280 | 4.380 | 9.100 | 10.000 | -9.0 |
| Endrin | 6.574 | 6.500 | 6.640 | 37.910 | 50.000 | -24.2 |
| 4,4'-DDT | 7.025 | 6.950 | 7.100 | 80.590 | 100.000 | -19.4 |
| Methoxychlor | 7.502 | 7.430 | 7.570 | 195.740 | 250.000 | -21.7 |

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 01/21/2025 01/21/2025

**Client Sample No. (PEM):** PEM - PL093981.D **Date Analyzed:** 02/03/2025

**Lab Sample No.(PEM):** PEM **Time Analyzed:** 11:03

| PEM COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 7.911 | 7.810 | 8.010 | 14.500 | 20.000 | -27.5 |
| Tetrachloro-m-xylene | 2.775 | 2.720 | 2.830 | 18.090 | 20.000 | -9.6 |
| alpha-BHC | 3.277 | 3.230 | 3.330 | 8.770 | 10.000 | -12.3 |
| beta-BHC | 3.908 | 3.860 | 3.960 | 9.580 | 10.000 | -4.2 |
| gamma-BHC (Lindane) | 3.607 | 3.560 | 3.660 | 7.660 | 10.000 | -23.4 |
| Endrin | 5.638 | 5.570 | 5.710 | 37.350 | 50.000 | -25.3 |
| 4,4'-DDT | 6.035 | 5.960 | 6.110 | 88.620 | 100.000 | -11.4 |
| Methoxychlor | 6.610 | 6.540 | 6.680 | 208.200 | 250.000 | -16.7 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Analytical Sequence

**Client:** RU2 Engineering, LLC **SDG No.:** Q1207

**Project:** NYCDDC SANTWOBR Brooklyn Bridge BI **Instrument ID:** ECD_L

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 01/21/2025 01/21/2025

**THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:**

| EPA SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME ANALYZED | DATAFILE | DCB RT # | TCX RT # |
|---|---|---|---|---|---|---|
| I.BLK | I.BLK | 01/21/2025 | 10:16 | PL093725.D | 9.05 | 3.54 |
| PEM | PEM | 01/21/2025 | 10:30 | PL093726.D | 9.05 | 3.54 |
| RESCHK | RESCHK | 01/21/2025 | 10:43 | PL093727.D | 9.05 | 3.54 |
| PSTDICC100 | PSTDICC100 | 01/21/2025 | 10:57 | PL093728.D | 9.05 | 3.54 |
| PSTDICC075 | PSTDICC075 | 01/21/2025 | 11:10 | PL093729.D | 9.05 | 3.54 |
| PSTDICC050 | PSTDICC050 | 01/21/2025 | 11:24 | PL093730.D | 9.05 | 3.54 |
| PSTDICC025 | PSTDICC025 | 01/21/2025 | 11:38 | PL093731.D | 9.05 | 3.54 |
| PSTDICC005 | PSTDICC005 | 01/21/2025 | 11:51 | PL093732.D | 9.05 | 3.54 |
| PCHLORICC500 | PCHLORICC500 | 01/21/2025 | 12:32 | PL093735.D | 9.05 | 3.54 |
| PTOXICC500 | PTOXICC500 | 01/21/2025 | 13:39 | PL093740.D | 9.05 | 3.54 |
| PEM | PEM | 01/29/2025 | 10:10 | PL093842.D | 9.06 | 3.54 |
| I.BLK | I.BLK | 01/29/2025 | 16:17 | PL093853.D | 9.07 | 3.54 |
| PSTDCCC050 | PSTDCCC050 | 01/29/2025 | 16:30 | PL093854.D | 9.06 | 3.54 |
| PB166353BL | PB166353BL | 01/29/2025 | 17:36 | PL093857.D | 9.06 | 3.54 |
| PB166318TB | PB166318TB | 01/29/2025 | 18:05 | PL093859.D | 9.06 | 3.54 |
| I.BLK | I.BLK | 01/29/2025 | 18:58 | PL093863.D | 9.06 | 3.54 |
| PSTDCCC050 | PSTDCCC050 | 01/29/2025 | 19:11 | PL093864.D | 9.06 | 3.54 |
| I.BLK | I.BLK | 01/30/2025 | 09:31 | PL093874.D | 9.06 | 3.54 |
| PEM | PEM | 01/30/2025 | 09:45 | PL093875.D | 9.06 | 3.54 |
| PSTDCCC050 | PSTDCCC050 | 01/30/2025 | 09:58 | PL093876.D | 9.06 | 3.54 |
| PB166353BS | PB166353BS | 01/30/2025 | 13:24 | PL093886.D | 9.06 | 3.54 |
| I.BLK | I.BLK | 01/30/2025 | 13:40 | PL093887.D | 9.06 | 3.54 |
| PSTDCCC050 | PSTDCCC050 | 01/30/2025 | 13:53 | PL093888.D | 9.06 | 3.54 |
| JPP-2.1-012725 | Q1207-04 | 01/30/2025 | 15:04 | PL093891.D | 9.05 | 3.54 |
| JPP-5.1-012725 | Q1207-08 | 01/30/2025 | 15:18 | PL093892.D | 9.05 | 3.54 |
| JPP-4.5-012725 | Q1207-12 | 01/30/2025 | 15:31 | PL093893.D | 9.05 | 3.54 |
| JPP-16.2-012725 | Q1207-16 | 01/30/2025 | 15:44 | PL093894.D | 9.05 | 3.54 |
| JPP-20.2-012725 | Q1207-20 | 01/30/2025 | 15:58 | PL093895.D | 9.05 | 3.54 |
| I.BLK | I.BLK | 01/30/2025 | 17:59 | PL093904.D | 9.05 | 3.54 |
| PSTDCCC050 | PSTDCCC050 | 01/30/2025 | 19:06 | PL093906.D | 9.05 | 3.54 |
| I.BLK | I.BLK | 02/03/2025 | 09:14 | PL093980.D | 9.06 | 3.54 |
| PEM | PEM | 02/03/2025 | 11:03 | PL093981.D | 9.06 | 3.54 |
| PSTDCCC050 | PSTDCCC050 | 02/03/2025 | 12:17 | PL093982.D | 9.06 | 3.54 |
| JPP-20.1-012725MS | Q1206-04MS | 02/03/2025 | 15:04 | PL093991.D | 9.06 | 3.54 |
| JPP-20.1-012725MSD | Q1206-04MSD | 02/03/2025 | 15:22 | PL093992.D | 9.06 | 3.54 |
| I.BLK | I.BLK | 02/03/2025 | 16:55 | PL093999.D | 9.05 | 3.54 |
| PSTDCCC050 | PSTDCCC050 | 02/03/2025 | 17:50 | PL094001.D | 9.06 | 3.54 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Analytical Sequence

**Client:** RU2 Engineering, LLC **SDG No.:** Q1207

**Project:** NYCDDC SANTWOBR Brooklyn Bridge BI **Instrument ID:** ECD_L

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 01/21/2025 01/21/2025

**THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:**

| EPA SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME ANALYZED | DATAFILE | DCB RT # | TCX RT # |
|---|---|---|---|---|---|---|
| I.BLK | I.BLK | 01/21/2025 | 10:16 | PL093725.D | 7.91 | 2.78 |
| PEM | PEM | 01/21/2025 | 10:30 | PL093726.D | 7.91 | 2.78 |
| RESCHK | RESCHK | 01/21/2025 | 10:43 | PL093727.D | 7.91 | 2.77 |
| PSTDICC100 | PSTDICC100 | 01/21/2025 | 10:57 | PL093728.D | 7.91 | 2.78 |
| PSTDICC075 | PSTDICC075 | 01/21/2025 | 11:10 | PL093729.D | 7.91 | 2.77 |
| PSTDICC050 | PSTDICC050 | 01/21/2025 | 11:24 | PL093730.D | 7.91 | 2.77 |
| PSTDICC025 | PSTDICC025 | 01/21/2025 | 11:38 | PL093731.D | 7.91 | 2.77 |
| PSTDICC005 | PSTDICC005 | 01/21/2025 | 11:51 | PL093732.D | 7.91 | 2.77 |
| PCHLORICC500 | PCHLORICC500 | 01/21/2025 | 12:32 | PL093735.D | 7.91 | 2.77 |
| PTOXICC500 | PTOXICC500 | 01/21/2025 | 13:39 | PL093740.D | 7.91 | 2.77 |
| PEM | PEM | 01/29/2025 | 10:10 | PL093842.D | 7.91 | 2.77 |
| I.BLK | I.BLK | 01/29/2025 | 16:17 | PL093853.D | 7.92 | 2.77 |
| PSTDCCC050 | PSTDCCC050 | 01/29/2025 | 16:30 | PL093854.D | 7.91 | 2.77 |
| PB166353BL | PB166353BL | 01/29/2025 | 17:36 | PL093857.D | 7.91 | 2.78 |
| PB166318TB | PB166318TB | 01/29/2025 | 18:05 | PL093859.D | 7.91 | 2.78 |
| I.BLK | I.BLK | 01/29/2025 | 18:58 | PL093863.D | 7.91 | 2.77 |
| PSTDCCC050 | PSTDCCC050 | 01/29/2025 | 19:11 | PL093864.D | 7.91 | 2.78 |
| I.BLK | I.BLK | 01/30/2025 | 09:31 | PL093874.D | 7.91 | 2.77 |
| PEM | PEM | 01/30/2025 | 09:45 | PL093875.D | 7.91 | 2.77 |
| PSTDCCC050 | PSTDCCC050 | 01/30/2025 | 09:58 | PL093876.D | 7.91 | 2.77 |
| PB166353BS | PB166353BS | 01/30/2025 | 13:24 | PL093886.D | 7.91 | 2.77 |
| I.BLK | I.BLK | 01/30/2025 | 13:40 | PL093887.D | 7.91 | 2.77 |
| PSTDCCC050 | PSTDCCC050 | 01/30/2025 | 13:53 | PL093888.D | 7.91 | 2.77 |
| JPP-2.1-012725 | Q1207-04 | 01/30/2025 | 15:04 | PL093891.D | 7.91 | 2.77 |
| JPP-5.1-012725 | Q1207-08 | 01/30/2025 | 15:18 | PL093892.D | 7.91 | 2.78 |
| JPP-4.5-012725 | Q1207-12 | 01/30/2025 | 15:31 | PL093893.D | 7.91 | 2.78 |
| JPP-16.2-012725 | Q1207-16 | 01/30/2025 | 15:44 | PL093894.D | 7.91 | 2.78 |
| JPP-20.2-012725 | Q1207-20 | 01/30/2025 | 15:58 | PL093895.D | 7.91 | 2.77 |
| I.BLK | I.BLK | 01/30/2025 | 17:59 | PL093904.D | 7.91 | 2.77 |
| PSTDCCC050 | PSTDCCC050 | 01/30/2025 | 19:06 | PL093906.D | 7.91 | 2.77 |
| I.BLK | I.BLK | 02/03/2025 | 09:14 | PL093980.D | 7.91 | 2.78 |
| PEM | PEM | 02/03/2025 | 11:03 | PL093981.D | 7.91 | 2.78 |
| PSTDCCC050 | PSTDCCC050 | 02/03/2025 | 12:17 | PL093982.D | 7.91 | 2.77 |
| JPP-20.1-012725MS | Q1206-04MS | 02/03/2025 | 15:04 | PL093991.D | 7.91 | 2.78 |
| JPP-20.1-012725MSD | Q1206-04MSD | 02/03/2025 | 15:22 | PL093992.D | 7.91 | 2.78 |
| I.BLK | I.BLK | 02/03/2025 | 16:55 | PL093999.D | 7.91 | 2.77 |
| PSTDCCC050 | PSTDCCC050 | 02/03/2025 | 17:50 | PL094001.D | 7.91 | 2.77 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**JPP-20.1-012725MS**

**Contract:** RUTW01

**Lab Code:** CHEM **Case No.:** Q1207 **SAS No.:** Q1207 **SDG NO.:** Q1207

**Lab Sample ID:** Q1206-04MS **Date(s) Analyzed:** 02/03/2025 02/03/2025

**Instrument ID (1):** ECD_L **Instrument ID (2):** ECD_L

**GC Column: (1):** ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| Methoxychlor | 1 | 7.50 | 7.45 | 7.55 | 5.70 | 7.3 |
| | 2 | 6.61 | 6.56 | 6.66 | 5.30 | |
| gamma-BHC (Lindane) | 1 | 4.33 | 4.28 | 4.38 | 5.80 | 1.7 |
| | 2 | 3.61 | 3.56 | 3.66 | 5.70 | |
| Heptachlor | 1 | 4.92 | 4.87 | 4.97 | 5.80 | 3.5 |
| | 2 | 3.95 | 3.90 | 4.00 | 5.60 | |
| Heptachlor epoxide | 1 | 5.68 | 5.63 | 5.73 | 5.50 | 7 |
| | 2 | 4.73 | 4.68 | 4.78 | 5.90 | |
| Endrin | 1 | 6.57 | 6.52 | 6.62 | 5.90 | 1.7 |
| | 2 | 5.64 | 5.59 | 5.69 | 6.00 | |

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Fax : 908 789 8922

## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**JPP-20.1-012725MSD**

**Contract:** RUTW01

**Lab Code:** CHEM **Case No.:** Q1207 **SAS No.:** Q1207 **SDG NO.:** Q1207

**Lab Sample ID:** Q1206-04MSD **Date(s) Analyzed:** 02/03/2025 02/03/2025

**Instrument ID (1):** ECD_L **Instrument ID (2):** ECD_L

**GC Column: (1):** ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| Methoxychlor | 1 | 7.50 | 7.45 | 7.55 | 6.00 | 1.7 |
| | 2 | 6.61 | 6.56 | 6.66 | 6.10 | |
| gamma-BHC (Lindane) | 1 | 4.33 | 4.28 | 4.38 | 5.70 | 1.8 |
| | 2 | 3.61 | 3.56 | 3.66 | 5.60 | |
| Heptachlor | 1 | 4.92 | 4.87 | 4.97 | 5.70 | 3.6 |
| | 2 | 3.95 | 3.90 | 4.00 | 5.50 | |
| Heptachlor epoxide | 1 | 5.69 | 5.64 | 5.74 | 5.30 | 9 |
| | 2 | 4.73 | 4.68 | 4.78 | 5.80 | |
| Endrin | 1 | 6.58 | 6.53 | 6.63 | 5.70 | 10 |
| | 2 | 5.64 | 5.59 | 5.69 | 6.30 | |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**PB166353BS**

**Contract:** RUTW01

**Lab Code:** CHEM **Case No.:** Q1207 **SAS No.:** Q1207 **SDG NO.:** Q1207

**Lab Sample ID:** PB166353BS **Date(s) Analyzed:** 01/30/2025 01/30/2025

**Instrument ID (1):** ECD_L **Instrument ID (2):** ECD_L

**GC Column: (1):** ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| Methoxychlor | 1 | 7.50 | 7.45 | 7.55 | 0.50 | 0.4 |
| | 2 | 6.61 | 6.56 | 6.66 | 0.50 | |
| gamma-BHC (Lindane) | 1 | 4.33 | 4.28 | 4.38 | 0.47 | 0.3 |
| | 2 | 3.61 | 3.56 | 3.66 | 0.46 | |
| Heptachlor | 1 | 4.92 | 4.87 | 4.97 | 0.49 | 0.9 |
| | 2 | 3.95 | 3.90 | 4.00 | 0.49 | |
| Heptachlor epoxide | 1 | 5.69 | 5.64 | 5.74 | 0.47 | 3.4 |
| | 2 | 4.73 | 4.68 | 4.78 | 0.49 | |
| Endrin | 1 | 6.58 | 6.53 | 6.63 | 0.47 | 3.8 |
| | 2 | 5.64 | 5.59 | 5.69 | 0.48 | |