



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

Hit Summary Sheet  
SW-846

|          |           |             |                            |
|----------|-----------|-------------|----------------------------|
| SDG No.: | Q2032     | Order ID:   | Q2032                      |
| Client:  | CDM Smith | Project ID: | South River WM Replacement |

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

Total Concentration: 0.000



# SAMPLE DATA

A

B

C

D

## Report of Analysis

|                    |                            |                    |               |
|--------------------|----------------------------|--------------------|---------------|
| Client:            | CDM Smith                  | Date Collected:    | 05/13/25      |
| Project:           | South River WM Replacement | Date Received:     | 05/13/25      |
| Client Sample ID:  | TP-11                      | SDG No.:           | Q2032         |
| Lab Sample ID:     | Q2032-01                   | Matrix:            | SOIL          |
| Analytical Method: | 8081B                      | % Solid:           | 76.3          |
| Sample Wt/Vol:     | 30.05                      | Units:             | g             |
| Soil Aliquot Vol:  |                            |                    | uL            |
| Extraction Type:   |                            | Test:              | Pesticide-TCL |
| GPC Factor :       | 1.0                        | PH :               |               |
| Prep Method :      | SW3541B                    | Decanted:          |               |
|                    |                            | Final Vol:         | 10000         |
|                    |                            | Injection Volume : |               |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| PL095721.D        | 1         | 05/16/25 09:25 | 05/16/25 13:51 | PB168040      |

| CAS Number        | Parameter            | Conc. | Qualifier | MDL      | LOQ / CRQL | Units(Dry Weight) |
|-------------------|----------------------|-------|-----------|----------|------------|-------------------|
| <b>TARGETS</b>    |                      |       |           |          |            |                   |
| 319-84-6          | alpha-BHC            | 0.17  | U         | 0.17     | 2.20       | ug/kg             |
| 319-85-7          | beta-BHC             | 0.24  | U         | 0.24     | 2.20       | ug/kg             |
| 319-86-8          | delta-BHC            | 0.51  | U         | 0.51     | 2.20       | ug/kg             |
| 58-89-9           | gamma-BHC (Lindane)  | 0.18  | U         | 0.18     | 2.20       | ug/kg             |
| 76-44-8           | Heptachlor           | 0.16  | U         | 0.16     | 2.20       | ug/kg             |
| 309-00-2          | Aldrin               | 0.16  | U         | 0.16     | 2.20       | ug/kg             |
| 1024-57-3         | Heptachlor epoxide   | 0.25  | U         | 0.25     | 2.20       | ug/kg             |
| 959-98-8          | Endosulfan I         | 0.18  | U         | 0.18     | 2.20       | ug/kg             |
| 60-57-1           | Dieldrin             | 0.18  | U         | 0.18     | 2.20       | ug/kg             |
| 72-55-9           | 4,4-DDE              | 0.18  | U         | 0.18     | 2.20       | ug/kg             |
| 72-20-8           | Endrin               | 0.18  | U         | 0.18     | 2.20       | ug/kg             |
| 33213-65-9        | Endosulfan II        | 0.38  | U         | 0.38     | 2.20       | ug/kg             |
| 72-54-8           | 4,4-DDD              | 0.20  | U         | 0.20     | 2.20       | ug/kg             |
| 1031-07-8         | Endosulfan Sulfate   | 0.17  | U         | 0.17     | 2.20       | ug/kg             |
| 50-29-3           | 4,4-DDT              | 0.18  | U         | 0.18     | 2.20       | ug/kg             |
| 72-43-5           | Methoxychlor         | 0.48  | U         | 0.48     | 2.20       | ug/kg             |
| 53494-70-5        | Endrin ketone        | 0.25  | U         | 0.25     | 2.20       | ug/kg             |
| 7421-93-4         | Endrin aldehyde      | 0.48  | U         | 0.48     | 2.20       | ug/kg             |
| 5103-71-9         | alpha-Chlordane      | 0.16  | U         | 0.16     | 2.20       | ug/kg             |
| 5103-74-2         | gamma-Chlordane      | 0.20  | U         | 0.20     | 2.20       | ug/kg             |
| 8001-35-2         | Toxaphene            | 7.10  | U         | 7.10     | 43.2       | ug/kg             |
| <b>SURROGATES</b> |                      |       |           |          |            |                   |
| 2051-24-3         | Decachlorobiphenyl   | 11.3  |           | 20 - 144 | 56%        | SPK: 20           |
| 877-09-8          | Tetrachloro-m-xylene | 13.8  |           | 19 - 148 | 69%        | SPK: 20           |

## Report of Analysis

|                    |                            |                    |               |
|--------------------|----------------------------|--------------------|---------------|
| Client:            | CDM Smith                  | Date Collected:    | 05/13/25      |
| Project:           | South River WM Replacement | Date Received:     | 05/13/25      |
| Client Sample ID:  | TP-11                      | SDG No.:           | Q2032         |
| Lab Sample ID:     | Q2032-01                   | Matrix:            | SOIL          |
| Analytical Method: | 8081B                      | % Solid:           | 76.3          |
| Sample Wt/Vol:     | 30.05                      | Units:             | g             |
| Soil Aliquot Vol:  |                            |                    | uL            |
| Extraction Type:   |                            | Test:              | Pesticide-TCL |
| GPC Factor :       | 1.0                        | PH :               |               |
| Prep Method :      | SW3541B                    | Injection Volume : |               |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| PL095721.D        | 1         | 05/16/25 09:25 | 05/16/25 13:51 | PB168040      |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|------------|-----------|-------|-----------|-----|------------|-------|
|------------|-----------|-------|-----------|-----|------------|-------|

### 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

## Report of Analysis

|                    |                            |                    |               |
|--------------------|----------------------------|--------------------|---------------|
| Client:            | CDM Smith                  | Date Collected:    | 05/13/25      |
| Project:           | South River WM Replacement | Date Received:     | 05/13/25      |
| Client Sample ID:  | TP-29                      | SDG No.:           | Q2032         |
| Lab Sample ID:     | Q2032-02                   | Matrix:            | SOIL          |
| Analytical Method: | 8081B                      | % Solid:           | 86.1          |
| Sample Wt/Vol:     | 30.04                      | Units:             | g             |
| Soil Aliquot Vol:  |                            |                    | uL            |
| Extraction Type:   |                            | Test:              | Pesticide-TCL |
| GPC Factor :       | 1.0                        | Injection Volume : |               |
| Prep Method :      | SW3541B                    |                    |               |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| PL095722.D        | 1         | 05/16/25 09:25 | 05/16/25 14:04 | PB168040      |

| CAS Number        | Parameter            | Conc. | Qualifier | MDL      | LOQ / CRQL | Units(Dry Weight) |
|-------------------|----------------------|-------|-----------|----------|------------|-------------------|
| <b>TARGETS</b>    |                      |       |           |          |            |                   |
| 319-84-6          | alpha-BHC            | 0.15  | U         | 0.15     | 2.00       | ug/kg             |
| 319-85-7          | beta-BHC             | 0.21  | U         | 0.21     | 2.00       | ug/kg             |
| 319-86-8          | delta-BHC            | 0.45  | U         | 0.45     | 2.00       | ug/kg             |
| 58-89-9           | gamma-BHC (Lindane)  | 0.16  | U         | 0.16     | 2.00       | ug/kg             |
| 76-44-8           | Heptachlor           | 0.14  | U         | 0.14     | 2.00       | ug/kg             |
| 309-00-2          | Aldrin               | 0.14  | U         | 0.14     | 2.00       | ug/kg             |
| 1024-57-3         | Heptachlor epoxide   | 0.22  | U         | 0.22     | 2.00       | ug/kg             |
| 959-98-8          | Endosulfan I         | 0.16  | U         | 0.16     | 2.00       | ug/kg             |
| 60-57-1           | Dieldrin             | 0.16  | U         | 0.16     | 2.00       | ug/kg             |
| 72-55-9           | 4,4-DDE              | 0.16  | U         | 0.16     | 2.00       | ug/kg             |
| 72-20-8           | Endrin               | 0.16  | U         | 0.16     | 2.00       | ug/kg             |
| 33213-65-9        | Endosulfan II        | 0.34  | U         | 0.34     | 2.00       | ug/kg             |
| 72-54-8           | 4,4-DDD              | 0.17  | U         | 0.17     | 2.00       | ug/kg             |
| 1031-07-8         | Endosulfan Sulfate   | 0.15  | U         | 0.15     | 2.00       | ug/kg             |
| 50-29-3           | 4,4-DDT              | 0.16  | U         | 0.16     | 2.00       | ug/kg             |
| 72-43-5           | Methoxychlor         | 0.43  | U         | 0.43     | 2.00       | ug/kg             |
| 53494-70-5        | Endrin ketone        | 0.22  | U         | 0.22     | 2.00       | ug/kg             |
| 7421-93-4         | Endrin aldehyde      | 0.43  | U         | 0.43     | 2.00       | ug/kg             |
| 5103-71-9         | alpha-Chlordane      | 0.14  | U         | 0.14     | 2.00       | ug/kg             |
| 5103-74-2         | gamma-Chlordane      | 0.17  | U         | 0.17     | 2.00       | ug/kg             |
| 8001-35-2         | Toxaphene            | 6.30  | U         | 6.30     | 38.3       | ug/kg             |
| <b>SURROGATES</b> |                      |       |           |          |            |                   |
| 2051-24-3         | Decachlorobiphenyl   | 13.2  |           | 20 - 144 | 66%        | SPK: 20           |
| 877-09-8          | Tetrachloro-m-xylene | 17.9  |           | 19 - 148 | 90%        | SPK: 20           |

## Report of Analysis

|                    |                            |                    |               |
|--------------------|----------------------------|--------------------|---------------|
| Client:            | CDM Smith                  | Date Collected:    | 05/13/25      |
| Project:           | South River WM Replacement | Date Received:     | 05/13/25      |
| Client Sample ID:  | TP-29                      | SDG No.:           | Q2032         |
| Lab Sample ID:     | Q2032-02                   | Matrix:            | SOIL          |
| Analytical Method: | 8081B                      | % Solid:           | 86.1          |
| Sample Wt/Vol:     | 30.04                      | Units:             | g             |
| Soil Aliquot Vol:  |                            |                    | uL            |
| Extraction Type:   |                            | Test:              | Pesticide-TCL |
| GPC Factor :       | 1.0                        | PH :               |               |
| Prep Method :      | SW3541B                    | Injection Volume : |               |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| PL095722.D        | 1         | 05/16/25 09:25 | 05/16/25 14:04 | PB168040      |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|------------|-----------|-------|-----------|-----|------------|-------|
|------------|-----------|-------|-----------|-----|------------|-------|

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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

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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

## Report of Analysis

|                    |                            |                    |               |
|--------------------|----------------------------|--------------------|---------------|
| Client:            | CDM Smith                  | Date Collected:    | 05/13/25      |
| Project:           | South River WM Replacement | Date Received:     | 05/13/25      |
| Client Sample ID:  | TP-29-99                   | SDG No.:           | Q2032         |
| Lab Sample ID:     | Q2032-03                   | Matrix:            | SOIL          |
| Analytical Method: | 8081B                      | % Solid:           | 86.8          |
| Sample Wt/Vol:     | 30.08                      | Units:             | g             |
| Soil Aliquot Vol:  |                            |                    | uL            |
| Extraction Type:   |                            | Test:              | Pesticide-TCL |
| GPC Factor :       | 1.0                        | Injection Volume : |               |
| Prep Method :      | SW3541B                    |                    |               |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| PL095723.D        | 1         | 05/16/25 09:25 | 05/16/25 14:18 | PB168040      |

| CAS Number        | Parameter            | Conc. | Qualifier | MDL      | LOQ / CRQL | Units(Dry Weight) |
|-------------------|----------------------|-------|-----------|----------|------------|-------------------|
| <b>TARGETS</b>    |                      |       |           |          |            |                   |
| 319-84-6          | alpha-BHC            | 0.15  | U         | 0.15     | 2.00       | ug/kg             |
| 319-85-7          | beta-BHC             | 0.21  | U         | 0.21     | 2.00       | ug/kg             |
| 319-86-8          | delta-BHC            | 0.45  | U         | 0.45     | 2.00       | ug/kg             |
| 58-89-9           | gamma-BHC (Lindane)  | 0.16  | U         | 0.16     | 2.00       | ug/kg             |
| 76-44-8           | Heptachlor           | 0.14  | U         | 0.14     | 2.00       | ug/kg             |
| 309-00-2          | Aldrin               | 0.14  | U         | 0.14     | 2.00       | ug/kg             |
| 1024-57-3         | Heptachlor epoxide   | 0.22  | U         | 0.22     | 2.00       | ug/kg             |
| 959-98-8          | Endosulfan I         | 0.16  | U         | 0.16     | 2.00       | ug/kg             |
| 60-57-1           | Dieldrin             | 0.16  | U         | 0.16     | 2.00       | ug/kg             |
| 72-55-9           | 4,4-DDE              | 0.16  | U         | 0.16     | 2.00       | ug/kg             |
| 72-20-8           | Endrin               | 0.16  | U         | 0.16     | 2.00       | ug/kg             |
| 33213-65-9        | Endosulfan II        | 0.33  | U         | 0.33     | 2.00       | ug/kg             |
| 72-54-8           | 4,4-DDD              | 0.17  | U         | 0.17     | 2.00       | ug/kg             |
| 1031-07-8         | Endosulfan Sulfate   | 0.15  | U         | 0.15     | 2.00       | ug/kg             |
| 50-29-3           | 4,4-DDT              | 0.16  | U         | 0.16     | 2.00       | ug/kg             |
| 72-43-5           | Methoxychlor         | 0.43  | U         | 0.43     | 2.00       | ug/kg             |
| 53494-70-5        | Endrin ketone        | 0.22  | U         | 0.22     | 2.00       | ug/kg             |
| 7421-93-4         | Endrin aldehyde      | 0.43  | U         | 0.43     | 2.00       | ug/kg             |
| 5103-71-9         | alpha-Chlordane      | 0.14  | U         | 0.14     | 2.00       | ug/kg             |
| 5103-74-2         | gamma-Chlordane      | 0.17  | U         | 0.17     | 2.00       | ug/kg             |
| 8001-35-2         | Toxaphene            | 6.20  | U         | 6.20     | 37.9       | ug/kg             |
| <b>SURROGATES</b> |                      |       |           |          |            |                   |
| 2051-24-3         | Decachlorobiphenyl   | 15.5  |           | 20 - 144 | 77%        | SPK: 20           |
| 877-09-8          | Tetrachloro-m-xylene | 18.6  |           | 19 - 148 | 93%        | SPK: 20           |

## Report of Analysis

|                    |                            |          |                    |               |           |
|--------------------|----------------------------|----------|--------------------|---------------|-----------|
| Client:            | CDM Smith                  |          | Date Collected:    | 05/13/25      |           |
| Project:           | South River WM Replacement |          | Date Received:     | 05/13/25      |           |
| Client Sample ID:  | TP-29-99                   |          | SDG No.:           | Q2032         |           |
| Lab Sample ID:     | Q2032-03                   |          | Matrix:            | SOIL          |           |
| Analytical Method: | 8081B                      |          | % Solid:           | 86.8          | Decanted: |
| Sample Wt/Vol:     | 30.08                      | Units: g | Final Vol:         | 10000         | uL        |
| Soil Aliquot Vol:  |                            | uL       | Test:              | Pesticide-TCL |           |
| Extraction Type:   |                            |          | Injection Volume : |               |           |
| GPC Factor :       | 1.0                        | PH :     |                    |               |           |
| Prep Method :      | SW3541B                    |          |                    |               |           |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| PL095723.D        | 1         | 05/16/25 09:25 | 05/16/25 14:18 | PB168040      |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|------------|-----------|-------|-----------|-----|------------|-------|
|------------|-----------|-------|-----------|-----|------------|-------|

### Comments:

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LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

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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

## Report of Analysis

|                    |                            |                    |               |
|--------------------|----------------------------|--------------------|---------------|
| Client:            | CDM Smith                  | Date Collected:    | 05/13/25      |
| Project:           | South River WM Replacement | Date Received:     | 05/13/25      |
| Client Sample ID:  | TP-24                      | SDG No.:           | Q2032         |
| Lab Sample ID:     | Q2032-04                   | Matrix:            | SOIL          |
| Analytical Method: | 8081B                      | % Solid:           | 74.2          |
| Sample Wt/Vol:     | 30.02                      | Units:             | g             |
| Soil Aliquot Vol:  |                            |                    | uL            |
| Extraction Type:   |                            | Test:              | Pesticide-TCL |
| GPC Factor :       | 1.0                        | Injection Volume : |               |
| Prep Method :      | SW3541B                    |                    |               |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| PL095724.D        | 1         | 05/16/25 09:25 | 05/16/25 14:32 | PB168040      |

| CAS Number        | Parameter            | Conc. | Qualifier | MDL      | LOQ / CRQL | Units(Dry Weight) |
|-------------------|----------------------|-------|-----------|----------|------------|-------------------|
| <b>TARGETS</b>    |                      |       |           |          |            |                   |
| 319-84-6          | alpha-BHC            | 0.18  | U         | 0.18     | 2.30       | ug/kg             |
| 319-85-7          | beta-BHC             | 0.24  | U         | 0.24     | 2.30       | ug/kg             |
| 319-86-8          | delta-BHC            | 0.53  | U         | 0.53     | 2.30       | ug/kg             |
| 58-89-9           | gamma-BHC (Lindane)  | 0.19  | U         | 0.19     | 2.30       | ug/kg             |
| 76-44-8           | Heptachlor           | 0.16  | U         | 0.16     | 2.30       | ug/kg             |
| 309-00-2          | Aldrin               | 0.16  | U         | 0.16     | 2.30       | ug/kg             |
| 1024-57-3         | Heptachlor epoxide   | 0.26  | U         | 0.26     | 2.30       | ug/kg             |
| 959-98-8          | Endosulfan I         | 0.19  | U         | 0.19     | 2.30       | ug/kg             |
| 60-57-1           | Dieldrin             | 0.19  | U         | 0.19     | 2.30       | ug/kg             |
| 72-55-9           | 4,4-DDE              | 0.19  | U         | 0.19     | 2.30       | ug/kg             |
| 72-20-8           | Endrin               | 0.19  | U         | 0.19     | 2.30       | ug/kg             |
| 33213-65-9        | Endosulfan II        | 0.39  | U         | 0.39     | 2.30       | ug/kg             |
| 72-54-8           | 4,4-DDD              | 0.20  | U         | 0.20     | 2.30       | ug/kg             |
| 1031-07-8         | Endosulfan Sulfate   | 0.18  | U         | 0.18     | 2.30       | ug/kg             |
| 50-29-3           | 4,4-DDT              | 0.19  | U         | 0.19     | 2.30       | ug/kg             |
| 72-43-5           | Methoxychlor         | 0.50  | U         | 0.50     | 2.30       | ug/kg             |
| 53494-70-5        | Endrin ketone        | 0.26  | U         | 0.26     | 2.30       | ug/kg             |
| 7421-93-4         | Endrin aldehyde      | 0.50  | U         | 0.50     | 2.30       | ug/kg             |
| 5103-71-9         | alpha-Chlordane      | 0.16  | U         | 0.16     | 2.30       | ug/kg             |
| 5103-74-2         | gamma-Chlordane      | 0.20  | U         | 0.20     | 2.30       | ug/kg             |
| 8001-35-2         | Toxaphene            | 7.30  | U         | 7.30     | 44.4       | ug/kg             |
| <b>SURROGATES</b> |                      |       |           |          |            |                   |
| 2051-24-3         | Decachlorobiphenyl   | 14.5  |           | 20 - 144 | 73%        | SPK: 20           |
| 877-09-8          | Tetrachloro-m-xylene | 17.4  |           | 19 - 148 | 87%        | SPK: 20           |

## Report of Analysis

|                    |                            |          |                    |               |           |
|--------------------|----------------------------|----------|--------------------|---------------|-----------|
| Client:            | CDM Smith                  |          | Date Collected:    | 05/13/25      |           |
| Project:           | South River WM Replacement |          | Date Received:     | 05/13/25      |           |
| Client Sample ID:  | TP-24                      |          | SDG No.:           | Q2032         |           |
| Lab Sample ID:     | Q2032-04                   |          | Matrix:            | SOIL          |           |
| Analytical Method: | 8081B                      |          | % Solid:           | 74.2          | Decanted: |
| Sample Wt/Vol:     | 30.02                      | Units: g | Final Vol:         | 10000         | uL        |
| Soil Aliquot Vol:  |                            | uL       | Test:              | Pesticide-TCL |           |
| Extraction Type:   |                            |          | Injection Volume : |               |           |
| GPC Factor :       | 1.0                        | PH :     |                    |               |           |
| Prep Method :      | SW3541B                    |          |                    |               |           |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| PL095724.D        | 1         | 05/16/25 09:25 | 05/16/25 14:32 | PB168040      |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|------------|-----------|-------|-----------|-----|------------|-------|
|------------|-----------|-------|-----------|-----|------------|-------|

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\* = Values outside of QC limits

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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

## Report of Analysis

|                    |                            |                    |               |
|--------------------|----------------------------|--------------------|---------------|
| Client:            | CDM Smith                  | Date Collected:    | 05/13/25      |
| Project:           | South River WM Replacement | Date Received:     | 05/13/25      |
| Client Sample ID:  | TP-37                      | SDG No.:           | Q2032         |
| Lab Sample ID:     | Q2032-07                   | Matrix:            | SOIL          |
| Analytical Method: | 8081B                      | % Solid:           | 82.5          |
| Sample Wt/Vol:     | 30.03                      | Units:             | g             |
| Soil Aliquot Vol:  |                            |                    | uL            |
| Extraction Type:   |                            | Test:              | Pesticide-TCL |
| GPC Factor :       | 1.0                        | Injection Volume : |               |
| Prep Method :      | SW3541B                    |                    |               |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| PL095727.D        | 1         | 05/16/25 09:25 | 05/16/25 15:13 | PB168040      |

| CAS Number        | Parameter            | Conc. | Qualifier | MDL      | LOQ / CRQL | Units(Dry Weight) |
|-------------------|----------------------|-------|-----------|----------|------------|-------------------|
| <b>TARGETS</b>    |                      |       |           |          |            |                   |
| 319-84-6          | alpha-BHC            | 0.16  | U         | 0.16     | 2.10       | ug/kg             |
| 319-85-7          | beta-BHC             | 0.22  | U         | 0.22     | 2.10       | ug/kg             |
| 319-86-8          | delta-BHC            | 0.47  | U         | 0.47     | 2.10       | ug/kg             |
| 58-89-9           | gamma-BHC (Lindane)  | 0.17  | U         | 0.17     | 2.10       | ug/kg             |
| 76-44-8           | Heptachlor           | 0.15  | U         | 0.15     | 2.10       | ug/kg             |
| 309-00-2          | Aldrin               | 0.15  | U         | 0.15     | 2.10       | ug/kg             |
| 1024-57-3         | Heptachlor epoxide   | 0.23  | U         | 0.23     | 2.10       | ug/kg             |
| 959-98-8          | Endosulfan I         | 0.17  | U         | 0.17     | 2.10       | ug/kg             |
| 60-57-1           | Dieldrin             | 0.17  | U         | 0.17     | 2.10       | ug/kg             |
| 72-55-9           | 4,4-DDE              | 0.17  | U         | 0.17     | 2.10       | ug/kg             |
| 72-20-8           | Endrin               | 0.17  | U         | 0.17     | 2.10       | ug/kg             |
| 33213-65-9        | Endosulfan II        | 0.35  | U         | 0.35     | 2.10       | ug/kg             |
| 72-54-8           | 4,4-DDD              | 0.18  | U         | 0.18     | 2.10       | ug/kg             |
| 1031-07-8         | Endosulfan Sulfate   | 0.16  | U         | 0.16     | 2.10       | ug/kg             |
| 50-29-3           | 4,4-DDT              | 0.17  | U         | 0.17     | 2.10       | ug/kg             |
| 72-43-5           | Methoxychlor         | 0.45  | U         | 0.45     | 2.10       | ug/kg             |
| 53494-70-5        | Endrin ketone        | 0.23  | U         | 0.23     | 2.10       | ug/kg             |
| 7421-93-4         | Endrin aldehyde      | 0.45  | U         | 0.45     | 2.10       | ug/kg             |
| 5103-71-9         | alpha-Chlordane      | 0.15  | U         | 0.15     | 2.10       | ug/kg             |
| 5103-74-2         | gamma-Chlordane      | 0.18  | U         | 0.18     | 2.10       | ug/kg             |
| 8001-35-2         | Toxaphene            | 6.60  | U         | 6.60     | 40.0       | ug/kg             |
| <b>SURROGATES</b> |                      |       |           |          |            |                   |
| 2051-24-3         | Decachlorobiphenyl   | 11.6  |           | 20 - 144 | 58%        | SPK: 20           |
| 877-09-8          | Tetrachloro-m-xylene | 15.0  |           | 19 - 148 | 75%        | SPK: 20           |

## Report of Analysis

|                    |                            |          |                    |               |           |
|--------------------|----------------------------|----------|--------------------|---------------|-----------|
| Client:            | CDM Smith                  |          | Date Collected:    | 05/13/25      |           |
| Project:           | South River WM Replacement |          | Date Received:     | 05/13/25      |           |
| Client Sample ID:  | TP-37                      |          | SDG No.:           | Q2032         |           |
| Lab Sample ID:     | Q2032-07                   |          | Matrix:            | SOIL          |           |
| Analytical Method: | 8081B                      |          | % Solid:           | 82.5          | Decanted: |
| Sample Wt/Vol:     | 30.03                      | Units: g | Final Vol:         | 10000         | uL        |
| Soil Aliquot Vol:  |                            | uL       | Test:              | Pesticide-TCL |           |
| Extraction Type:   |                            |          | Injection Volume : |               |           |
| GPC Factor :       | 1.0                        | PH :     |                    |               |           |
| Prep Method :      | SW3541B                    |          |                    |               |           |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| PL095727.D        | 1         | 05/16/25 09:25 | 05/16/25 15:13 | PB168040      |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|------------|-----------|-------|-----------|-----|------------|-------|
|------------|-----------|-------|-----------|-----|------------|-------|

### 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

## Report of Analysis

|                    |                            |                    |               |
|--------------------|----------------------------|--------------------|---------------|
| Client:            | CDM Smith                  | Date Collected:    | 05/13/25      |
| Project:           | South River WM Replacement | Date Received:     | 05/13/25      |
| Client Sample ID:  | TP-32                      | SDG No.:           | Q2032         |
| Lab Sample ID:     | Q2032-08                   | Matrix:            | SOIL          |
| Analytical Method: | 8081B                      | % Solid:           | 86.8          |
| Sample Wt/Vol:     | 30.01                      | Units:             | g             |
| Soil Aliquot Vol:  |                            |                    | uL            |
| Extraction Type:   |                            | Test:              | Pesticide-TCL |
| GPC Factor :       | 1.0                        | Injection Volume : |               |
| Prep Method :      | SW3541B                    |                    |               |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| PL095728.D        | 1         | 05/16/25 09:25 | 05/16/25 15:27 | PB168040      |

| CAS Number        | Parameter            | Conc. | Qualifier | MDL      | LOQ / CRQL | Units(Dry Weight) |
|-------------------|----------------------|-------|-----------|----------|------------|-------------------|
| <b>TARGETS</b>    |                      |       |           |          |            |                   |
| 319-84-6          | alpha-BHC            | 0.15  | U         | 0.15     | 2.00       | ug/kg             |
| 319-85-7          | beta-BHC             | 0.21  | U         | 0.21     | 2.00       | ug/kg             |
| 319-86-8          | delta-BHC            | 0.45  | U         | 0.45     | 2.00       | ug/kg             |
| 58-89-9           | gamma-BHC (Lindane)  | 0.16  | U         | 0.16     | 2.00       | ug/kg             |
| 76-44-8           | Heptachlor           | 0.14  | U         | 0.14     | 2.00       | ug/kg             |
| 309-00-2          | Aldrin               | 0.14  | U         | 0.14     | 2.00       | ug/kg             |
| 1024-57-3         | Heptachlor epoxide   | 0.22  | U         | 0.22     | 2.00       | ug/kg             |
| 959-98-8          | Endosulfan I         | 0.16  | U         | 0.16     | 2.00       | ug/kg             |
| 60-57-1           | Dieldrin             | 0.16  | U         | 0.16     | 2.00       | ug/kg             |
| 72-55-9           | 4,4-DDE              | 0.16  | U         | 0.16     | 2.00       | ug/kg             |
| 72-20-8           | Endrin               | 0.16  | U         | 0.16     | 2.00       | ug/kg             |
| 33213-65-9        | Endosulfan II        | 0.33  | U         | 0.33     | 2.00       | ug/kg             |
| 72-54-8           | 4,4-DDD              | 0.17  | U         | 0.17     | 2.00       | ug/kg             |
| 1031-07-8         | Endosulfan Sulfate   | 0.15  | U         | 0.15     | 2.00       | ug/kg             |
| 50-29-3           | 4,4-DDT              | 0.16  | U         | 0.16     | 2.00       | ug/kg             |
| 72-43-5           | Methoxychlor         | 0.43  | U         | 0.43     | 2.00       | ug/kg             |
| 53494-70-5        | Endrin ketone        | 0.22  | U         | 0.22     | 2.00       | ug/kg             |
| 7421-93-4         | Endrin aldehyde      | 0.43  | U         | 0.43     | 2.00       | ug/kg             |
| 5103-71-9         | alpha-Chlordane      | 0.14  | U         | 0.14     | 2.00       | ug/kg             |
| 5103-74-2         | gamma-Chlordane      | 0.17  | U         | 0.17     | 2.00       | ug/kg             |
| 8001-35-2         | Toxaphene            | 6.20  | U         | 6.20     | 38.0       | ug/kg             |
| <b>SURROGATES</b> |                      |       |           |          |            |                   |
| 2051-24-3         | Decachlorobiphenyl   | 14.2  |           | 20 - 144 | 71%        | SPK: 20           |
| 877-09-8          | Tetrachloro-m-xylene | 18.4  |           | 19 - 148 | 92%        | SPK: 20           |

## Report of Analysis

|                    |                            |          |                    |               |           |
|--------------------|----------------------------|----------|--------------------|---------------|-----------|
| Client:            | CDM Smith                  |          | Date Collected:    | 05/13/25      |           |
| Project:           | South River WM Replacement |          | Date Received:     | 05/13/25      |           |
| Client Sample ID:  | TP-32                      |          | SDG No.:           | Q2032         |           |
| Lab Sample ID:     | Q2032-08                   |          | Matrix:            | SOIL          |           |
| Analytical Method: | 8081B                      |          | % Solid:           | 86.8          | Decanted: |
| Sample Wt/Vol:     | 30.01                      | Units: g | Final Vol:         | 10000         | uL        |
| Soil Aliquot Vol:  |                            | uL       | Test:              | Pesticide-TCL |           |
| Extraction Type:   |                            |          | Injection Volume : |               |           |
| GPC Factor :       | 1.0                        | PH :     |                    |               |           |
| Prep Method :      | SW3541B                    |          |                    |               |           |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| PL095728.D        | 1         | 05/16/25 09:25 | 05/16/25 15:27 | PB168040      |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|------------|-----------|-------|-----------|-----|------------|-------|
|------------|-----------|-------|-----------|-----|------------|-------|

### 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

## Report of Analysis

|                    |                            |                    |               |
|--------------------|----------------------------|--------------------|---------------|
| Client:            | CDM Smith                  | Date Collected:    | 05/13/25      |
| Project:           | South River WM Replacement | Date Received:     | 05/13/25      |
| Client Sample ID:  | FB-05132025                | SDG No.:           | Q2032         |
| Lab Sample ID:     | Q2032-11                   | Matrix:            | WATER         |
| Analytical Method: | 8081B                      | % Solid:           | 0             |
| Sample Wt/Vol:     | 980                        | Units:             | mL            |
| Soil Aliquot Vol:  |                            |                    | uL            |
| Extraction Type:   |                            | Test:              | Pesticide-TCL |
| GPC Factor :       | 1.0                        | PH :               |               |
| Prep Method :      | 3510C                      | Decanted:          |               |
|                    |                            | Final Vol:         | 10000         |
|                    |                            | Injection Volume : |               |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| PL095672.D        | 1         | 05/14/25 09:06 | 05/14/25 17:36 | PB168004      |

| CAS Number        | Parameter            | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|----------------------|--------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                      |        |           |          |            |         |
| 319-84-6          | alpha-BHC            | 0.0040 | U         | 0.0040   | 0.051      | ug/L    |
| 319-85-7          | beta-BHC             | 0.0050 | U         | 0.0050   | 0.051      | ug/L    |
| 319-86-8          | delta-BHC            | 0.011  | U         | 0.011    | 0.051      | ug/L    |
| 58-89-9           | gamma-BHC (Lindane)  | 0.0038 | U         | 0.0038   | 0.051      | ug/L    |
| 76-44-8           | Heptachlor           | 0.0028 | U         | 0.0028   | 0.051      | ug/L    |
| 309-00-2          | Aldrin               | 0.0037 | U         | 0.0037   | 0.051      | ug/L    |
| 1024-57-3         | Heptachlor epoxide   | 0.0098 | U         | 0.0098   | 0.051      | ug/L    |
| 959-98-8          | Endosulfan I         | 0.0032 | U         | 0.0032   | 0.051      | ug/L    |
| 60-57-1           | Dieldrin             | 0.0037 | U         | 0.0037   | 0.051      | ug/L    |
| 72-55-9           | 4,4-DDE              | 0.0038 | U         | 0.0038   | 0.051      | ug/L    |
| 72-20-8           | Endrin               | 0.0033 | U         | 0.0033   | 0.051      | ug/L    |
| 33213-65-9        | Endosulfan II        | 0.0081 | U         | 0.0081   | 0.051      | ug/L    |
| 72-54-8           | 4,4-DDD              | 0.0072 | U         | 0.0072   | 0.051      | ug/L    |
| 1031-07-8         | Endosulfan Sulfate   | 0.0038 | U         | 0.0038   | 0.051      | ug/L    |
| 50-29-3           | 4,4-DDT              | 0.0036 | U         | 0.0036   | 0.051      | ug/L    |
| 72-43-5           | Methoxychlor         | 0.011  | U         | 0.011    | 0.051      | ug/L    |
| 53494-70-5        | Endrin ketone        | 0.0095 | U         | 0.0095   | 0.051      | ug/L    |
| 7421-93-4         | Endrin aldehyde      | 0.011  | U         | 0.011    | 0.051      | ug/L    |
| 5103-71-9         | alpha-Chlordane      | 0.0036 | U         | 0.0036   | 0.051      | ug/L    |
| 5103-74-2         | gamma-Chlordane      | 0.0040 | U         | 0.0040   | 0.051      | ug/L    |
| 8001-35-2         | Toxaphene            | 0.17   | U         | 0.17     | 1.00       | ug/L    |
| <b>SURROGATES</b> |                      |        |           |          |            |         |
| 2051-24-3         | Decachlorobiphenyl   | 9.36   |           | 43 - 140 | 47%        | SPK: 20 |
| 877-09-8          | Tetrachloro-m-xylene | 20.1   |           | 77 - 126 | 101%       | SPK: 20 |

## Report of Analysis

|                    |                            |                    |               |
|--------------------|----------------------------|--------------------|---------------|
| Client:            | CDM Smith                  | Date Collected:    | 05/13/25      |
| Project:           | South River WM Replacement | Date Received:     | 05/13/25      |
| Client Sample ID:  | FB-05132025                | SDG No.:           | Q2032         |
| Lab Sample ID:     | Q2032-11                   | Matrix:            | WATER         |
| Analytical Method: | 8081B                      | % Solid:           | 0             |
| Sample Wt/Vol:     | 980                        | Units:             | mL            |
| Soil Aliquot Vol:  |                            |                    | uL            |
| Extraction Type:   |                            | Test:              | Pesticide-TCL |
| GPC Factor :       | 1.0                        | PH :               |               |
| Prep Method :      | 3510C                      | Injection Volume : |               |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| PL095672.D        | 1         | 05/14/25 09:06 | 05/14/25 17:36 | PB168004      |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|------------|-----------|-------|-----------|-----|------------|-------|
|------------|-----------|-------|-----------|-----|------------|-------|

### Comments:

U = Not Detected

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LOD = Limit of Detection

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Q = indicates LCS control criteria did not meet requirements

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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

## LAB CHRONICLE

|                 |                    |                   |                                        |
|-----------------|--------------------|-------------------|----------------------------------------|
| <b>OrderID:</b> | Q2032              | <b>OrderDate:</b> | 5/13/2025 4:01:00 PM                   |
| <b>Client:</b>  | CDM Smith          | <b>Project:</b>   | South River WM Replacement             |
| <b>Contact:</b> | Marcie Ann Encinas | <b>Location:</b>  | L41,VOA Ref. #2 Soil,VOA Ref. #3 Water |

| LabID           | ClientID           | Matrix       | Test                    | Method | Sample Date     | Prep Date | Anal Date | Received        |
|-----------------|--------------------|--------------|-------------------------|--------|-----------------|-----------|-----------|-----------------|
| <b>Q2032-01</b> | <b>TP-11</b>       | <b>SOIL</b>  |                         |        | <b>05/13/25</b> |           |           | <b>05/13/25</b> |
|                 |                    |              | Gasoline Range Organics | 8015D  |                 |           | 05/16/25  |                 |
|                 |                    |              | PCB                     | 8082A  |                 | 05/16/25  | 05/16/25  |                 |
|                 |                    |              | Pesticide-TCL           | 8081B  |                 | 05/16/25  | 05/16/25  |                 |
| <b>Q2032-02</b> | <b>TP-29</b>       | <b>SOIL</b>  |                         |        | <b>05/13/25</b> |           |           | <b>05/13/25</b> |
|                 |                    |              | Gasoline Range Organics | 8015D  |                 |           | 05/15/25  |                 |
|                 |                    |              | PCB                     | 8082A  |                 | 05/16/25  | 05/16/25  |                 |
|                 |                    |              | Pesticide-TCL           | 8081B  |                 | 05/16/25  | 05/16/25  |                 |
| <b>Q2032-03</b> | <b>TP-29-99</b>    | <b>SOIL</b>  |                         |        | <b>05/13/25</b> |           |           | <b>05/13/25</b> |
|                 |                    |              | Gasoline Range Organics | 8015D  |                 |           | 05/16/25  |                 |
|                 |                    |              | PCB                     | 8082A  |                 | 05/16/25  | 05/16/25  |                 |
|                 |                    |              | Pesticide-TCL           | 8081B  |                 | 05/16/25  | 05/16/25  |                 |
| <b>Q2032-04</b> | <b>TP-24</b>       | <b>SOIL</b>  |                         |        | <b>05/13/25</b> |           |           | <b>05/13/25</b> |
|                 |                    |              | Gasoline Range Organics | 8015D  |                 |           | 05/15/25  |                 |
|                 |                    |              | PCB                     | 8082A  |                 | 05/16/25  | 05/16/25  |                 |
|                 |                    |              | Pesticide-TCL           | 8081B  |                 | 05/16/25  | 05/16/25  |                 |
| <b>Q2032-07</b> | <b>TP-37</b>       | <b>SOIL</b>  |                         |        | <b>05/13/25</b> |           |           | <b>05/13/25</b> |
|                 |                    |              | Gasoline Range Organics | 8015D  |                 |           | 05/16/25  |                 |
|                 |                    |              | PCB                     | 8082A  |                 | 05/16/25  | 05/16/25  |                 |
|                 |                    |              | Pesticide-TCL           | 8081B  |                 | 05/16/25  | 05/16/25  |                 |
| <b>Q2032-08</b> | <b>TP-32</b>       | <b>SOIL</b>  |                         |        | <b>05/13/25</b> |           |           | <b>05/13/25</b> |
|                 |                    |              | Gasoline Range Organics | 8015D  |                 |           | 05/16/25  |                 |
|                 |                    |              | PCB                     | 8082A  |                 | 05/16/25  | 05/16/25  |                 |
|                 |                    |              | Pesticide-TCL           | 8081B  |                 | 05/16/25  | 05/16/25  |                 |
| <b>Q2032-11</b> | <b>FB-05132025</b> | <b>Water</b> |                         |        | <b>05/13/25</b> |           |           | <b>05/13/25</b> |
|                 |                    |              | Gasoline Range Organics | 8015D  |                 |           | 05/14/25  |                 |

**LAB CHRONICLE**

|               |       |          |          |
|---------------|-------|----------|----------|
| PCB           | 8082A | 05/14/25 | 05/15/25 |
| Pesticide-TCL | 8081B | 05/14/25 | 05/14/25 |