

## Report of Analysis

|                    |                            |                 |                  |
|--------------------|----------------------------|-----------------|------------------|
| Client:            | CDM Smith                  | Date Collected: | 06/23/25         |
| Project:           | South River WM Replacement | Date Received:  | 06/24/25         |
| Client Sample ID:  | TP-35                      | SDG No.:        | Q2413            |
| Lab Sample ID:     | Q2413-01                   | Matrix:         | SOIL             |
| Analytical Method: | 8270E                      | % Solid:        | 88.8             |
| Sample Wt/Vol:     | 30.07                      | Units:          | g                |
| Soil Aliquot Vol:  |                            |                 | uL               |
| Extraction Type :  |                            | Decanted :      | N                |
| Injection Volume : |                            | GPC Factor :    | 1.0              |
| Prep Method :      | SW3541                     | Level :         | LOW              |
|                    |                            | Test:           | SVOC-TCL BNA -20 |
|                    |                            | Final Vol:      | 1000             |
|                    |                            | GPC Cleanup :   | N                |
|                    |                            | PH :            |                  |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BF142889.D        | 1         | 06/26/25 09:20 | 06/27/25 13:19 | PB168625      |

| CAS Number     | Parameter                   | Conc. | Qualifier | MDL  | LOQ / CRQL | Units(Dry Weight) |
|----------------|-----------------------------|-------|-----------|------|------------|-------------------|
| <b>TARGETS</b> |                             |       |           |      |            |                   |
| 100-52-7       | Benzaldehyde                | 180   | U         | 180  | 370        | ug/Kg             |
| 108-95-2       | Phenol                      | 24.8  | U         | 24.8 | 190        | ug/Kg             |
| 111-44-4       | bis(2-Chloroethyl)ether     | 27.3  | U         | 27.3 | 190        | ug/Kg             |
| 95-57-8        | 2-Chlorophenol              | 27.4  | U         | 27.4 | 190        | ug/Kg             |
| 95-48-7        | 2-Methylphenol              | 33.6  | U         | 33.6 | 190        | ug/Kg             |
| 108-60-1       | 2,2-oxybis(1-Chloropropane) | 42.1  | U         | 42.1 | 190        | ug/Kg             |
| 98-86-2        | Acetophenone                | 33.1  | U         | 33.1 | 190        | ug/Kg             |
| 65794-96-9     | 3+4-Methylphenols           | 46.2  | U         | 46.2 | 370        | ug/Kg             |
| 621-64-7       | n-Nitroso-di-n-propylamine  | 53.3  | U         | 53.3 | 89.9       | ug/Kg             |
| 67-72-1        | Hexachloroethane            | 19.8  | U         | 19.8 | 190        | ug/Kg             |
| 98-95-3        | Nitrobenzene                | 20.6  | U         | 20.6 | 190        | ug/Kg             |
| 78-59-1        | Isophorone                  | 36.9  | U         | 36.9 | 190        | ug/Kg             |
| 88-75-5        | 2-Nitrophenol               | 65.4  | U         | 65.4 | 190        | ug/Kg             |
| 105-67-9       | 2,4-Dimethylphenol          | 72.8  | U         | 72.8 | 190        | ug/Kg             |
| 111-91-1       | bis(2-Chloroethoxy)methane  | 34.6  | U         | 34.6 | 190        | ug/Kg             |
| 120-83-2       | 2,4-Dichlorophenol          | 31.8  | U         | 31.8 | 190        | ug/Kg             |
| 91-20-3        | Naphthalene                 | 25.5  | U         | 25.5 | 190        | ug/Kg             |
| 106-47-8       | 4-Chloroaniline             | 39.8  | U         | 39.8 | 190        | ug/Kg             |
| 87-68-3        | Hexachlorobutadiene         | 28.4  | U         | 28.4 | 190        | ug/Kg             |
| 105-60-2       | Caprolactam                 | 58.5  | U         | 58.5 | 370        | ug/Kg             |
| 59-50-7        | 4-Chloro-3-methylphenol     | 32.2  | U         | 32.2 | 190        | ug/Kg             |
| 91-57-6        | 2-Methylnaphthalene         | 28.8  | U         | 28.8 | 190        | ug/Kg             |
| 77-47-4        | Hexachlorocyclopentadiene   | 130   | U         | 130  | 370        | ug/Kg             |
| 88-06-2        | 2,4,6-Trichlorophenol       | 22.2  | U         | 22.2 | 190        | ug/Kg             |
| 95-95-4        | 2,4,5-Trichlorophenol       | 32.7  | U         | 32.7 | 190        | ug/Kg             |
| 92-52-4        | 1,1-Biphenyl                | 24.5  | U         | 24.5 | 190        | ug/Kg             |
| 91-58-7        | 2-Chloronaphthalene         | 25.3  | U         | 25.3 | 190        | ug/Kg             |
| 88-74-4        | 2-Nitroaniline              | 54.0  | U         | 54.0 | 190        | ug/Kg             |
| 131-11-3       | Dimethylphthalate           | 30.4  | U         | 30.4 | 190        | ug/Kg             |

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| Project:           | South River WM Replacement | Date Received:  | 06/24/25                     |
| Client Sample ID:  | TP-35                      | SDG No.:        | Q2413                        |
| Lab Sample ID:     | Q2413-01                   | Matrix:         | SOIL                         |
| Analytical Method: | 8270E                      | % Solid:        | 88.8                         |
| Sample Wt/Vol:     | 30.07      Units:    g     | Final Vol:      | 1000                      uL |
| Soil Aliquot Vol:  | uL                         | Test:           | SVOC-TCL BNA -20             |
| Extraction Type :  | Decanted :      N          | Level :         | LOW                          |
| Injection Volume : | GPC Factor :    1.0        | GPC Cleanup :   | N                      PH :  |
| Prep Method :      | SW3541                     |                 |                              |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BF142889.D        | 1         | 06/26/25 09:20 | 06/27/25 13:19 | PB168625      |

| CAS Number | Parameter                  | Conc. | Qualifier | MDL  | LOQ / CRQL | Units(Dry Weight) |
|------------|----------------------------|-------|-----------|------|------------|-------------------|
| 208-96-8   | Acenaphthylene             | 32.5  | U         | 32.5 | 190        | ug/Kg             |
| 606-20-2   | 2,6-Dinitrotoluene         | 37.7  | U         | 37.7 | 190        | ug/Kg             |
| 99-09-2    | 3-Nitroaniline             | 51.7  | U         | 51.7 | 190        | ug/Kg             |
| 83-32-9    | Acenaphthene               | 23.9  | U         | 23.9 | 190        | ug/Kg             |
| 51-28-5    | 2,4-Dinitrophenol          | 260   | U         | 260  | 370        | ug/Kg             |
| 100-02-7   | 4-Nitrophenol              | 120   | U         | 120  | 370        | ug/Kg             |
| 132-64-9   | Dibenzofuran               | 25.5  | U         | 25.5 | 190        | ug/Kg             |
| 121-14-2   | 2,4-Dinitrotoluene         | 56.3  | U         | 56.3 | 190        | ug/Kg             |
| 84-66-2    | Diethylphthalate           | 31.8  | U         | 31.8 | 190        | ug/Kg             |
| 7005-72-3  | 4-Chlorophenyl-phenylether | 30.0  | U         | 30.0 | 190        | ug/Kg             |
| 86-73-7    | Fluorene                   | 28.4  | U         | 28.4 | 190        | ug/Kg             |
| 100-01-6   | 4-Nitroaniline             | 72.1  | U         | 72.1 | 190        | ug/Kg             |
| 534-52-1   | 4,6-Dinitro-2-methylphenol | 120   | U         | 120  | 370        | ug/Kg             |
| 86-30-6    | n-Nitrosodiphenylamine     | 37.0  | U         | 37.0 | 190        | ug/Kg             |
| 101-55-3   | 4-Bromophenyl-phenylether  | 31.2  | U         | 31.2 | 190        | ug/Kg             |
| 118-74-1   | Hexachlorobenzene          | 28.4  | U         | 28.4 | 190        | ug/Kg             |
| 1912-24-9  | Atrazine                   | 38.2  | U         | 38.2 | 190        | ug/Kg             |
| 87-86-5    | Pentachlorophenol          | 57.6  | U         | 57.6 | 370        | ug/Kg             |
| 85-01-8    | Phenanthrene               | 160   | J         | 23.5 | 190        | ug/Kg             |
| 120-12-7   | Anthracene                 | 37.4  | U         | 37.4 | 190        | ug/Kg             |
| 86-74-8    | Carbazole                  | 35.1  | U         | 35.1 | 190        | ug/Kg             |
| 84-74-2    | Di-n-butylphthalate        | 53.8  | U         | 53.8 | 190        | ug/Kg             |
| 206-44-0   | Fluoranthene               | 440   |           | 33.7 | 190        | ug/Kg             |
| 129-00-0   | Pyrene                     | 250   |           | 40.4 | 190        | ug/Kg             |
| 85-68-7    | Butylbenzylphthalate       | 80.2  | U         | 80.2 | 190        | ug/Kg             |
| 91-94-1    | 3,3-Dichlorobenzidine      | 41.2  | U         | 41.2 | 370        | ug/Kg             |
| 56-55-3    | Benzo(a)anthracene         | 250   |           | 25.8 | 190        | ug/Kg             |
| 218-01-9   | Chrysene                   | 220   |           | 22.4 | 190        | ug/Kg             |
| 117-81-7   | Bis(2-ethylhexyl)phthalate | 66.5  | U         | 66.5 | 190        | ug/Kg             |
| 117-84-0   | Di-n-octyl phthalate       | 97.5  | U         | 97.5 | 370        | ug/Kg             |
| 205-99-2   | Benzo(b)fluoranthene       | 320   |           | 21.3 | 190        | ug/Kg             |

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| Client Sample ID:  | TP-35                      | SDG No.:        | Q2413                        |
| Lab Sample ID:     | Q2413-01                   | Matrix:         | SOIL                         |
| Analytical Method: | 8270E                      | % Solid:        | 88.8                         |
| Sample Wt/Vol:     | 30.07      Units:    g     | Final Vol:      | 1000                      uL |
| Soil Aliquot Vol:  | uL                         | Test:           | SVOC-TCL BNA -20             |
| Extraction Type :  | Decanted :      N          | Level :         | LOW                          |
| Injection Volume : | GPC Factor :    1.0        | GPC Cleanup :   | N                      PH :  |
| Prep Method :      | SW3541                     |                 |                              |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
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| BF142889.D        | 1         | 06/26/25 09:20 | 06/27/25 13:19 | PB168625      |

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|------------|----------------------------|-------|-----------|------|------------|-------------------|
| 207-08-9   | Benzo(k)fluoranthene       | 130   | J         | 25.2 | 190        | ug/Kg             |
| 50-32-8    | Benzo(a)pyrene             | 220   |           | 33.1 | 190        | ug/Kg             |
| 193-39-5   | Indeno(1,2,3-cd)pyrene     | 83.1  | J         | 32.7 | 190        | ug/Kg             |
| 53-70-3    | Dibenzo(a,h)anthracene     | 30.8  | U         | 30.8 | 190        | ug/Kg             |
| 191-24-2   | Benzo(g,h,i)perylene       | 85.0  | J         | 28.9 | 190        | ug/Kg             |
| 95-94-3    | 1,2,4,5-Tetrachlorobenzene | 28.8  | U         | 28.8 | 190        | ug/Kg             |
| 123-91-1   | 1,4-Dioxane                | 50.8  | U         | 50.8 | 190        | ug/Kg             |
| 58-90-2    | 2,3,4,6-Tetrachlorophenol  | 30.8  | U         | 30.8 | 190        | ug/Kg             |

### SURROGATES

|            |                      |      |  |          |     |          |
|------------|----------------------|------|--|----------|-----|----------|
| 367-12-4   | 2-Fluorophenol       | 81.2 |  | 18 - 112 | 54% | SPK: 150 |
| 13127-88-3 | Phenol-d6            | 82.7 |  | 15 - 107 | 55% | SPK: 150 |
| 4165-60-0  | Nitrobenzene-d5      | 52.3 |  | 18 - 107 | 52% | SPK: 100 |
| 321-60-8   | 2-Fluorobiphenyl     | 51.7 |  | 20 - 109 | 52% | SPK: 100 |
| 118-79-6   | 2,4,6-Tribromophenol | 76.5 |  | 10 - 116 | 51% | SPK: 150 |
| 1718-51-0  | Terphenyl-d14        | 38.7 |  | 10 - 105 | 39% | SPK: 100 |

### INTERNAL STANDARDS

|            |                        |        |        |
|------------|------------------------|--------|--------|
| 3855-82-1  | 1,4-Dichlorobenzene-d4 | 69800  | 6.875  |
| 1146-65-2  | Naphthalene-d8         | 264000 | 8.157  |
| 15067-26-2 | Acenaphthene-d10       | 134000 | 9.916  |
| 1517-22-2  | Phenanthrene-d10       | 200000 | 11.404 |
| 1719-03-5  | Chrysene-d12           | 149000 | 14.051 |
| 1520-96-3  | Perylene-d12           | 153000 | 15.545 |

### TENTATIVE IDENTIFIED COMPOUNDS

|             |                                    |     |   |      |       |
|-------------|------------------------------------|-----|---|------|-------|
| 000123-42-2 | 2-Pentanone, 4-hydroxy-4-methyl-   | 230 | A | 5.09 | ug/Kg |
| 000119-61-9 | Benzophenone                       | 260 | J | 10.6 | ug/Kg |
| 000057-10-3 | n-Hexadecanoic acid                | 140 | J | 11.9 | ug/Kg |
| 959218-78-1 | Pentafluoropropionic acid, heptade | 110 | J | 13.9 | ug/Kg |
| 000192-97-2 | Benzo[e]pyrene                     | 160 | J | 15.4 | ug/Kg |

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| Lab Sample ID:     | Q2413-01                   | Matrix:         | SOIL             |
| Analytical Method: | 8270E                      | % Solid:        | 88.8             |
| Sample Wt/Vol:     | 30.07                      | Units:          | g                |
| Soil Aliquot Vol:  |                            | Final Vol:      | 1000 uL          |
| Extraction Type :  |                            | Test:           | SVOC-TCL BNA -20 |
|                    | Decanted :                 | Level :         | LOW              |
| Injection Volume : |                            | GPC Factor :    | 1.0              |
|                    |                            | GPC Cleanup :   | N                |
| Prep Method :      | SW3541                     | PH :            |                  |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BF142889.D        | 1         | 06/26/25 09:20 | 06/27/25 13:19 | PB168625      |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|------------|-----------|-------|-----------|-----|------------|-------------------|
|------------|-----------|-------|-----------|-----|------------|-------------------|

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products