

## Report of Analysis

|                    |                            |                 |                  |
|--------------------|----------------------------|-----------------|------------------|
| Client:            | CDM Smith                  | Date Collected: | 05/15/25         |
| Project:           | South River WM Replacement | Date Received:  | 05/16/25         |
| Client Sample ID:  | TP-15                      | SDG No.:        | Q2074            |
| Lab Sample ID:     | Q2074-03                   | Matrix:         | SOIL             |
| Analytical Method: | 8270E                      | % Solid:        | 87               |
| Sample Wt/Vol:     | 30.02                      | 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 |
| BF142514.D        | 1         | 05/20/25 09:45 | 05/22/25 17:03 | PB168083      |

| CAS Number     | Parameter                   | Conc. | Qualifier | MDL  | LOQ / CRQL | Units(Dry Weight) |
|----------------|-----------------------------|-------|-----------|------|------------|-------------------|
| <b>TARGETS</b> |                             |       |           |      |            |                   |
| 100-52-7       | Benzaldehyde                | 180   | U         | 180  | 380        | ug/Kg             |
| 108-95-2       | Phenol                      | 25.4  | U         | 25.4 | 200        | ug/Kg             |
| 111-44-4       | bis(2-Chloroethyl)ether     | 27.9  | U         | 27.9 | 200        | ug/Kg             |
| 95-57-8        | 2-Chlorophenol              | 28.0  | U         | 28.0 | 200        | ug/Kg             |
| 95-48-7        | 2-Methylphenol              | 34.3  | U         | 34.3 | 200        | ug/Kg             |
| 108-60-1       | 2,2-oxybis(1-Chloropropane) | 43.1  | U         | 43.1 | 200        | ug/Kg             |
| 98-86-2        | Acetophenone                | 33.9  | U         | 33.9 | 200        | ug/Kg             |
| 65794-96-9     | 3+4-Methylphenols           | 47.2  | U         | 47.2 | 380        | ug/Kg             |
| 621-64-7       | n-Nitroso-di-n-propylamine  | 54.4  | U         | 54.4 | 91.9       | ug/Kg             |
| 67-72-1        | Hexachloroethane            | 20.2  | U         | 20.2 | 200        | ug/Kg             |
| 98-95-3        | Nitrobenzene                | 21.0  | U         | 21.0 | 200        | ug/Kg             |
| 78-59-1        | Isophorone                  | 37.7  | U         | 37.7 | 200        | ug/Kg             |
| 88-75-5        | 2-Nitrophenol               | 66.9  | U         | 66.9 | 200        | ug/Kg             |
| 105-67-9       | 2,4-Dimethylphenol          | 74.4  | U         | 74.4 | 200        | ug/Kg             |
| 111-91-1       | bis(2-Chloroethoxy)methane  | 35.4  | U         | 35.4 | 200        | ug/Kg             |
| 120-83-2       | 2,4-Dichlorophenol          | 32.5  | U         | 32.5 | 200        | ug/Kg             |
| 91-20-3        | Naphthalene                 | 26.1  | U         | 26.1 | 200        | ug/Kg             |
| 106-47-8       | 4-Chloroaniline             | 40.7  | U         | 40.7 | 200        | ug/Kg             |
| 87-68-3        | Hexachlorobutadiene         | 29.1  | U         | 29.1 | 200        | ug/Kg             |
| 105-60-2       | Caprolactam                 | 59.8  | U         | 59.8 | 380        | ug/Kg             |
| 59-50-7        | 4-Chloro-3-methylphenol     | 33.0  | U         | 33.0 | 200        | ug/Kg             |
| 91-57-6        | 2-Methylnaphthalene         | 29.4  | U         | 29.4 | 200        | ug/Kg             |
| 77-47-4        | Hexachlorocyclopentadiene   | 130   | U         | 130  | 380        | ug/Kg             |
| 88-06-2        | 2,4,6-Trichlorophenol       | 22.7  | U         | 22.7 | 200        | ug/Kg             |
| 95-95-4        | 2,4,5-Trichlorophenol       | 33.4  | U         | 33.4 | 200        | ug/Kg             |
| 92-52-4        | 1,1-Biphenyl                | 25.0  | U         | 25.0 | 200        | ug/Kg             |
| 91-58-7        | 2-Chloronaphthalene         | 25.8  | U         | 25.8 | 200        | ug/Kg             |
| 88-74-4        | 2-Nitroaniline              | 55.3  | U         | 55.3 | 200        | ug/Kg             |
| 131-11-3       | Dimethylphthalate           | 31.1  | U         | 31.1 | 200        | ug/Kg             |

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| Project:           | South River WM Replacement | Date Received:  | 05/16/25                     |
| Client Sample ID:  | TP-15                      | SDG No.:        | Q2074                        |
| Lab Sample ID:     | Q2074-03                   | Matrix:         | SOIL                         |
| Analytical Method: | 8270E                      | % Solid:        | 87                           |
| Sample Wt/Vol:     | 30.02      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 |
| BF142514.D        | 1         | 05/20/25 09:45 | 05/22/25 17:03 | PB168083      |

| CAS Number | Parameter                  | Conc. | Qualifier | MDL  | LOQ / CRQL | Units(Dry Weight) |
|------------|----------------------------|-------|-----------|------|------------|-------------------|
| 208-96-8   | Acenaphthylene             | 33.2  | U         | 33.2 | 200        | ug/Kg             |
| 606-20-2   | 2,6-Dinitrotoluene         | 38.6  | U         | 38.6 | 200        | ug/Kg             |
| 99-09-2    | 3-Nitroaniline             | 52.8  | U         | 52.8 | 200        | ug/Kg             |
| 83-32-9    | Acenaphthene               | 24.5  | U         | 24.5 | 200        | ug/Kg             |
| 51-28-5    | 2,4-Dinitrophenol          | 260   | U         | 260  | 380        | ug/Kg             |
| 100-02-7   | 4-Nitrophenol              | 120   | U         | 120  | 380        | ug/Kg             |
| 132-64-9   | Dibenzofuran               | 26.1  | U         | 26.1 | 200        | ug/Kg             |
| 121-14-2   | 2,4-Dinitrotoluene         | 57.5  | U         | 57.5 | 200        | ug/Kg             |
| 84-66-2    | Diethylphthalate           | 32.5  | U         | 32.5 | 200        | ug/Kg             |
| 7005-72-3  | 4-Chlorophenyl-phenylether | 30.7  | U         | 30.7 | 200        | ug/Kg             |
| 86-73-7    | Fluorene                   | 29.1  | U         | 29.1 | 200        | ug/Kg             |
| 100-01-6   | 4-Nitroaniline             | 73.7  | U         | 73.7 | 200        | ug/Kg             |
| 534-52-1   | 4,6-Dinitro-2-methylphenol | 120   | U         | 120  | 380        | ug/Kg             |
| 86-30-6    | n-Nitrosodiphenylamine     | 37.8  | U         | 37.8 | 200        | ug/Kg             |
| 101-55-3   | 4-Bromophenyl-phenylether  | 31.9  | U         | 31.9 | 200        | ug/Kg             |
| 118-74-1   | Hexachlorobenzene          | 29.1  | U         | 29.1 | 200        | ug/Kg             |
| 1912-24-9  | Atrazine                   | 39.1  | U         | 39.1 | 200        | ug/Kg             |
| 87-86-5    | Pentachlorophenol          | 58.9  | U         | 58.9 | 380        | ug/Kg             |
| 85-01-8    | Phenanthrene               | 24.0  | U         | 24.0 | 200        | ug/Kg             |
| 120-12-7   | Anthracene                 | 38.3  | U         | 38.3 | 200        | ug/Kg             |
| 86-74-8    | Carbazole                  | 35.8  | U         | 35.8 | 200        | ug/Kg             |
| 84-74-2    | Di-n-butylphthalate        | 55.0  | U         | 55.0 | 200        | ug/Kg             |
| 206-44-0   | Fluoranthene               | 34.5  | U         | 34.5 | 200        | ug/Kg             |
| 129-00-0   | Pyrene                     | 41.4  | U         | 41.4 | 200        | ug/Kg             |
| 85-68-7    | Butylbenzylphthalate       | 82.0  | U         | 82.0 | 200        | ug/Kg             |
| 91-94-1    | 3,3-Dichlorobenzidine      | 42.2  | U         | 42.2 | 380        | ug/Kg             |
| 56-55-3    | Benzo(a)anthracene         | 26.4  | U         | 26.4 | 200        | ug/Kg             |
| 218-01-9   | Chrysene                   | 22.9  | U         | 22.9 | 200        | ug/Kg             |
| 117-81-7   | Bis(2-ethylhexyl)phthalate | 68.0  | U         | 68.0 | 200        | ug/Kg             |
| 117-84-0   | Di-n-octyl phthalate       | 99.7  | U         | 99.7 | 380        | ug/Kg             |
| 205-99-2   | Benzo(b)fluoranthene       | 21.8  | U         | 21.8 | 200        | ug/Kg             |

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| Client Sample ID:  | TP-15                      | SDG No.:        | Q2074                        |
| Lab Sample ID:     | Q2074-03                   | Matrix:         | SOIL                         |
| Analytical Method: | 8270E                      | % Solid:        | 87                           |
| Sample Wt/Vol:     | 30.02      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 |
| BF142514.D        | 1         | 05/20/25 09:45 | 05/22/25 17:03 | PB168083      |

| CAS Number | Parameter                  | Conc. | Qualifier | MDL  | LOQ / CRQL | Units(Dry Weight) |
|------------|----------------------------|-------|-----------|------|------------|-------------------|
| 207-08-9   | Benzo(k)fluoranthene       | 25.7  | U         | 25.7 | 200        | ug/Kg             |
| 50-32-8    | Benzo(a)pyrene             | 33.9  | U         | 33.9 | 200        | ug/Kg             |
| 193-39-5   | Indeno(1,2,3-cd)pyrene     | 33.4  | U         | 33.4 | 200        | ug/Kg             |
| 53-70-3    | Dibenzo(a,h)anthracene     | 31.5  | U         | 31.5 | 200        | ug/Kg             |
| 191-24-2   | Benzo(g,h,i)perylene       | 29.5  | U         | 29.5 | 200        | ug/Kg             |
| 95-94-3    | 1,2,4,5-Tetrachlorobenzene | 29.4  | U         | 29.4 | 200        | ug/Kg             |
| 123-91-1   | 1,4-Dioxane                | 51.9  | U         | 51.9 | 200        | ug/Kg             |
| 58-90-2    | 2,3,4,6-Tetrachlorophenol  | 31.5  | U         | 31.5 | 200        | ug/Kg             |

### SURROGATES

|            |                      |      |  |          |     |          |
|------------|----------------------|------|--|----------|-----|----------|
| 367-12-4   | 2-Fluorophenol       | 70.2 |  | 18 - 112 | 47% | SPK: 150 |
| 13127-88-3 | Phenol-d6            | 72.2 |  | 15 - 107 | 48% | SPK: 150 |
| 4165-60-0  | Nitrobenzene-d5      | 43.7 |  | 18 - 107 | 44% | SPK: 100 |
| 321-60-8   | 2-Fluorobiphenyl     | 42.0 |  | 20 - 109 | 42% | SPK: 100 |
| 118-79-6   | 2,4,6-Tribromophenol | 69.0 |  | 10 - 116 | 46% | SPK: 150 |
| 1718-51-0  | Terphenyl-d14        | 40.8 |  | 10 - 105 | 41% | SPK: 100 |

### INTERNAL STANDARDS

|            |                        |        |        |
|------------|------------------------|--------|--------|
| 3855-82-1  | 1,4-Dichlorobenzene-d4 | 111000 | 6.898  |
| 1146-65-2  | Naphthalene-d8         | 403000 | 8.181  |
| 15067-26-2 | Acenaphthene-d10       | 196000 | 9.934  |
| 1517-22-2  | Phenanthrene-d10       | 331000 | 11.422 |
| 1719-03-5  | Chrysene-d12           | 212000 | 14.063 |
| 1520-96-3  | Perylene-d12           | 173000 | 15.557 |

### TENTATIVE IDENTIFIED COMPOUNDS

|             |                                    |      |    |      |       |
|-------------|------------------------------------|------|----|------|-------|
| 000123-42-2 | 2-Pentanone, 4-hydroxy-4-methyl-   | 230  | AB | 5.11 | ug/Kg |
| 000119-61-9 | Benzophenone                       | 450  | J  | 10.6 | ug/Kg |
| 000947-19-3 | Methanone, (1-hydroxycyclohexyl)ph | 84.2 | J  | 11.0 | ug/Kg |
| 000057-10-3 | n-Hexadecanoic acid                | 210  | J  | 11.9 | ug/Kg |
| 006222-03-3 | Trifluoroacetoxy hexadecane        | 150  | J  | 13.9 | ug/Kg |

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| Lab Sample ID:     | Q2074-03                   | Matrix:         | SOIL             |
| Analytical Method: | 8270E                      | % Solid:        | 87               |
| Sample Wt/Vol:     | 30.02                      | Units:          | g                |
| Soil Aliquot Vol:  |                            |                 | uL               |
| Extraction Type :  |                            | Decanted :      | N                |
| Injection Volume : |                            | GPC Factor :    | 1.0              |
| Prep Method :      | SW3541                     | Level :         | LOW              |
|                    |                            | Final Vol:      | 1000 uL          |
|                    |                            | Test:           | SVOC-TCL BNA -20 |
|                    |                            | GPC Cleanup :   | N                |
|                    |                            | PH :            |                  |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BF142514.D        | 1         | 05/20/25 09:45 | 05/22/25 17:03 | PB168083      |

| 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