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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 05/27/25 |
| Project: | South River WM Replacement | Date Received: | 05/28/25 |
| Client Sample ID: | TP-50 | SDG No.: | Q2150 |
| Lab Sample ID: | Q2150-06 | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 86 |
| 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 |
|---|---|---|---|---|
| BF142584.D | 1 | 05/30/25 09:50 | 05/30/25 22:11 | PB168211 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 380 | U | 180 | 380 | ug/Kg |
| 108-95-2 | Phenol | 200 | U | 25.7 | 200 | ug/Kg |
| 111-44-4 | bis(2-Chloroethyl)ether | 200 | U | 28.2 | 200 | ug/Kg |
| 95-57-8 | 2-Chlorophenol | 200 | U | 28.4 | 200 | ug/Kg |
| 95-48-7 | 2-Methylphenol | 200 | U | 34.7 | 200 | ug/Kg |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 200 | U | 43.6 | 200 | ug/Kg |
| 98-86-2 | Acetophenone | 200 | U | 34.3 | 200 | ug/Kg |
| 65794-96-9 | 3+4-Methylphenols | 380 | U | 47.8 | 380 | ug/Kg |
| 621-64-7 | n-Nitroso-di-n-propylamine | 93.0 | U | 55.1 | 93.0 | ug/Kg |
| 67-72-1 | Hexachloroethane | 200 | U | 20.5 | 200 | ug/Kg |
| 98-95-3 | Nitrobenzene | 200 | U | 21.3 | 200 | ug/Kg |
| 78-59-1 | Isophorone | 200 | U | 38.1 | 200 | ug/Kg |
| 88-75-5 | 2-Nitrophenol | 200 | U | 67.6 | 200 | ug/Kg |
| 105-67-9 | 2,4-Dimethylphenol | 200 | U | 75.3 | 200 | ug/Kg |
| 111-91-1 | bis(2-Chloroethoxy)methane | 200 | U | 35.8 | 200 | ug/Kg |
| 120-83-2 | 2,4-Dichlorophenol | 200 | U | 32.9 | 200 | ug/Kg |
| 91-20-3 | Naphthalene | 200 | U | 26.4 | 200 | ug/Kg |
| 106-47-8 | 4-Chloroaniline | 200 | U | 41.1 | 200 | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | 200 | U | 29.4 | 200 | ug/Kg |
| 105-60-2 | Caprolactam | 380 | U | 60.5 | 380 | ug/Kg |
| 59-50-7 | 4-Chloro-3-methylphenol | 200 | U | 33.3 | 200 | ug/Kg |
| 91-57-6 | 2-Methylnaphthalene | 200 | U | 29.7 | 200 | ug/Kg |
| 77-47-4 | Hexachlorocyclopentadiene | 380 | U | 130 | 380 | ug/Kg |
| 88-06-2 | 2,4,6-Trichlorophenol | 200 | U | 23.0 | 200 | ug/Kg |
| 95-95-4 | 2,4,5-Trichlorophenol | 200 | U | 33.8 | 200 | ug/Kg |
| 92-52-4 | 1,1-Biphenyl | 200 | U | 25.3 | 200 | ug/Kg |
| 91-58-7 | 2-Chloronaphthalene | 200 | U | 26.1 | 200 | ug/Kg |
| 88-74-4 | 2-Nitroaniline | 200 | U | 55.9 | 200 | ug/Kg |
| 131-11-3 | Dimethylphthalate | 200 | U | 31.5 | 200 | ug/Kg |

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| Project: | South River WM Replacement | Date Received: | 05/28/25 |
| Client Sample ID: | TP-50 | SDG No.: | Q2150 |
| Lab Sample ID: | Q2150-06 | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 86 |
| 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 |
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| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 200 | U | 33.6 | 200 | ug/Kg |
| 606-20-2 | 2,6-Dinitrotoluene | 200 | U | 39.0 | 200 | ug/Kg |
| 99-09-2 | 3-Nitroaniline | 200 | U | 53.5 | 200 | ug/Kg |
| 83-32-9 | Acenaphthene | 200 | U | 24.8 | 200 | ug/Kg |
| 51-28-5 | 2,4-Dinitrophenol | 380 | U | 270 | 380 | ug/Kg |
| 100-02-7 | 4-Nitrophenol | 380 | U | 120 | 380 | ug/Kg |
| 132-64-9 | Dibenzofuran | 200 | U | 26.4 | 200 | ug/Kg |
| 121-14-2 | 2,4-Dinitrotoluene | 200 | U | 58.2 | 200 | ug/Kg |
| 84-66-2 | Diethylphthalate | 200 | U | 32.9 | 200 | ug/Kg |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 200 | U | 31.0 | 200 | ug/Kg |
| 86-73-7 | Fluorene | 200 | U | 29.4 | 200 | ug/Kg |
| 100-01-6 | 4-Nitroaniline | 200 | U | 74.6 | 200 | ug/Kg |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 380 | U | 120 | 380 | ug/Kg |
| 86-30-6 | n-Nitrosodiphenylamine | 200 | U | 38.2 | 200 | ug/Kg |
| 101-55-3 | 4-Bromophenyl-phenylether | 200 | U | 32.3 | 200 | ug/Kg |
| 118-74-1 | Hexachlorobenzene | 200 | U | 29.4 | 200 | ug/Kg |
| 1912-24-9 | Atrazine | 200 | U | 39.5 | 200 | ug/Kg |
| 87-86-5 | Pentachlorophenol | 380 | U | 59.6 | 380 | ug/Kg |
| 85-01-8 | Phenanthrene | 280 | | 24.3 | 200 | ug/Kg |
| 120-12-7 | Anthracene | 86.9 | J | 38.7 | 200 | ug/Kg |
| 86-74-8 | Carbazole | 200 | U | 36.3 | 200 | ug/Kg |
| 84-74-2 | Di-n-butylphthalate | 200 | U | 55.7 | 200 | ug/Kg |
| 206-44-0 | Fluoranthene | 670 | | 34.9 | 200 | ug/Kg |
| 129-00-0 | Pyrene | 350 | | 41.8 | 200 | ug/Kg |
| 85-68-7 | Butylbenzylphthalate | 200 | U | 83.0 | 200 | ug/Kg |
| 91-94-1 | 3,3-Dichlorobenzidine | 380 | U | 42.6 | 380 | ug/Kg |
| 56-55-3 | Benzo(a)anthracene | 340 | | 26.7 | 200 | ug/Kg |
| 218-01-9 | Chrysene | 290 | | 23.1 | 200 | ug/Kg |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 200 | U | 68.8 | 200 | ug/Kg |
| 117-84-0 | Di-n-octyl phthalate | 380 | U | 100 | 380 | ug/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 440 | | 22.1 | 200 | ug/Kg |

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| Project: | South River WM Replacement | Date Received: | 05/28/25 |
| Client Sample ID: | TP-50 | SDG No.: | Q2150 |
| Lab Sample ID: | Q2150-06 | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 86 |
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| Extraction Type : | Decanted : N | Level : | LOW |
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| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 150 | J | 26.0 | 200 | ug/Kg |
| 50-32-8 | Benzo(a)pyrene | 320 | | 34.3 | 200 | ug/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 110 | J | 33.8 | 200 | ug/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 200 | U | 31.8 | 200 | ug/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 130 | J | 29.9 | 200 | ug/Kg |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 200 | U | 29.7 | 200 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 200 | U | 52.5 | 200 | ug/Kg |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 200 | U | 31.8 | 200 | ug/Kg |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 77.6 | | 18 - 112 | 52% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 75.5 | | 15 - 107 | 50% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 49.6 | | 18 - 107 | 50% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 53.5 | | 20 - 109 | 53% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 61.4 | | 10 - 116 | 41% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 33.4 | | 10 - 105 | 33% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 132000 | 6.898 | | | |
| 1146-65-2 | Naphthalene-d8 | 471000 | 8.181 | | | |
| 15067-26-2 | Acenaphthene-d10 | 213000 | 9.934 | | | |
| 1517-22-2 | Phenanthrene-d10 | 295000 | 11.422 | | | |
| 1719-03-5 | Chrysene-d12 | 274000 | 14.069 | | | |
| 1520-96-3 | Perylene-d12 | 279000 | 15.563 | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | |
| 000123-42-2 | 2-Pentanone, 4-hydroxy-4-methyl- | 250 | AB | | 5.12 | ug/Kg |
| 000119-61-9 | Benzophenone | 130 | J | | 10.6 | ug/Kg |
| 000057-10-3 | n-Hexadecanoic acid | 240 | J | | 11.9 | ug/Kg |
| 000203-64-5 | 4H-Cyclopenta[def]phenanthrene | 90.2 | J | | 12.0 | ug/Kg |
| 000479-79-8 | 11H-Benzo[a]fluoren-11-one | 110 | J | | 13.9 | ug/Kg |
| 000192-97-2 | Benzo[e]pyrene | 210 | J | | 15.4 | ug/Kg |

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|---|---|---|---|---|---|---|

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