

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: \_\_\_\_\_

Lab Code: CHEM Case No.: BN080724 SAS No.: BN080724 SDG No.: BN080724

Instrument ID: BNA\_N Calibration Date/Time: 8/7/2024 12:20:36

Lab File ID: BN033291.D Init. Calib. Date(s): \_\_\_\_\_

EPA Sample No.: SSTDICCC0.4 Init. Calib. Time(s): \_\_\_\_\_

GC Column: ZB-GR ID: 0.25 (mm)

| COMPOUND                   | RRF   | RRF0.4 | MIN<br>RRF | %D      | MAX%D |
|----------------------------|-------|--------|------------|---------|-------|
| 2-Methylnaphthalene-d10    | 0.623 | 0.624  |            | 0.161   | 20.0  |
| Fluoranthene-d10           | 1.101 | 1.089  |            | -1.09   | 20.0  |
| n-Nitrosodimethylamine     | 0.563 | 0.554  |            | -1.599  | 20.0  |
| 2-Fluorophenol             | 1.053 | 1.080  |            | 2.564   | 20.0  |
| Phenol-d6                  | 1.439 | 1.451  |            | 0.834   | 20.0  |
| bis(2-Chloroethyl)ether    | 1.231 | 1.242  |            | 0.894   | 20.0  |
| Nitrobenzene-d5            | 0.244 | 0.233  |            | -4.508  | 20.0  |
| Naphthalene                | 1.123 | 1.121  |            | -0.178  | 20.0  |
| Hexachlorobutadiene        | 0.206 | 0.205  |            | -0.485  | 20.0  |
| 2-Methylnaphthalene        | 0.774 | 0.776  |            | 0.258   | 20.0  |
| 2-Fluorobiphenyl           | 1.507 | 1.559  |            | 3.451   | 20.0  |
| Acenaphthylene             | 1.953 | 2.028  |            | 3.84    | 20.0  |
| Acenaphthene               | 1.239 | 1.274  |            | 2.825   | 20.0  |
| Fluorene                   | 1.656 | 1.699  |            | 2.597   | 20.0  |
| 4,6-Dinitro-2-methylphenol | 0.029 | 0.026  |            | -10.345 | 20.0  |
| 2,4,6-Tribromophenol       | 0.162 | 0.163  |            | 0.617   | 20.0  |
| 4-Bromophenyl-phenylether  | 0.243 | 0.242  |            | -0.412  | 20.0  |
| Hexachlorobenzene          | 0.255 | 0.252  |            | -1.176  | 20.0  |
| Atrazine                   | 0.201 | 0.198  |            | -1.493  | 20.0  |
| Pentachlorophenol          | 0.089 | 0.085  |            | -4.494  | 20.0  |
| Phenanthrene               | 1.158 | 1.166  |            | 0.691   | 20.0  |
| Anthracene                 | 1.126 | 1.113  |            | -1.155  | 20.0  |
| Fluoranthene               | 1.460 | 1.442  |            | -1.233  | 20.0  |
| Pyrene                     | 1.573 | 1.579  |            | 0.381   | 20.0  |
| Terphenyl-d14              | 0.690 | 0.692  |            | 0.29    | 20.0  |
| Benzo(a)anthracene         | 1.553 | 1.529  |            | -1.545  | 20.0  |
| Chrysene                   | 1.504 | 1.500  |            | -0.266  | 20.0  |
| Bis(2-ethylhexyl)phthalate | 0.805 | 0.765  |            | -4.969  | 20.0  |
| Benzo(b)fluoranthene       | 1.487 | 1.467  |            | -1.279  | 20.0  |
| Benzo(k)fluoranthene       | 1.444 | 1.405  |            | -2.701  | 20.0  |
| Benzo(a)pyrene             | 1.321 | 1.282  |            | -2.952  | 20.0  |
| Indeno(1,2,3-cd)pyrene     | 1.750 | 1.683  |            | -3.829  | 20.0  |
| Dibenzo(a,h)anthracene     | 1.382 | 1.335  |            | -3.401  | 20.0  |
| Benzo(g,h,i)perylene       | 1.503 | 1.452  |            | -3.393  | 20.0  |
| 1,4-Dioxane                | 0.443 | 0.454  |            | 2.483   | 20.0  |

All other compounds must meet a minimum RRF of 0.010.

## Report of Analysis

|                    |               |        |    |                 |          |    |  |
|--------------------|---------------|--------|----|-----------------|----------|----|--|
| Client:            |               |        |    | Date Collected: |          |    |  |
| Project:           |               |        |    | Date Received:  |          |    |  |
| Client Sample ID:  | ICVBN080724   |        |    | SDG No.:        | BN080724 |    |  |
| Lab Sample ID:     | SSTDICV0.4    |        |    | Matrix:         | Water    |    |  |
| Analytical Method: | 8270-Modified |        |    | % Moisture:     | 100      |    |  |
| Sample Wt/Vol:     | 1000          | Units: | mL | Final Vol:      | 1000000  | uL |  |
| Soil Aliquot Vol:  | uL            |        |    | Test:           |          |    |  |
| Extraction Type :  | Decanted :    |        |    | Level :         | LOW      |    |  |
| Injection Volume : | GPC Factor :  |        |    | GPC Cleanup :   | PH :     |    |  |

|                   |           |           |                      |               |
|-------------------|-----------|-----------|----------------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed        | Prep Batch ID |
| BN033296.D        | 1         |           | 8/7/2024 12:00:00 AM |               |

| CAS Number     | Parameter                  | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|----------------|----------------------------|-------|-----------|-----|-----|------------|-------|
| <b>TARGETS</b> |                            |       |           |     |     |            |       |
| 62-75-9        | n-Nitrosodimethylamine     | 380   |           | 30  | 200 | 200        | ug/L  |
| 111-44-4       | bis(2-Chloroethyl)ether    | 410   |           | 28  | 100 | 100        | ug/L  |
| 91-20-3        | Naphthalene                | 390   |           | 24  | 100 | 100        | ug/L  |
| 87-68-3        | Hexachlorobutadiene        | 390   |           | 26  | 100 | 100        | ug/L  |
| 91-57-6        | 2-Methylnaphthalene        | 400   |           | 30  | 100 | 100        | ug/L  |
| 208-96-8       | Acenaphthylene             | 430   |           | 21  | 100 | 100        | ug/L  |
| 83-32-9        | Acenaphthene               | 420   |           | 20  | 100 | 100        | ug/L  |
| Total PAH      | Total PAH                  | 6380  |           | 456 | 100 | 1600       | ug/L  |
| 86-73-7        | Fluorene                   | 410   |           | 18  | 100 | 100        | ug/L  |
| 534-52-1       | 4,6-Dinitro-2-methylphenol | 390   |           | 140 | 200 | 200        | ug/L  |
| 101-55-3       | 4-Bromophenyl-phenylether  | 370   |           | 26  | 100 | 100        | ug/L  |
| 118-74-1       | Hexachlorobenzene          | 380   |           | 29  | 100 | 100        | ug/L  |
| 1912-24-9      | Atrazine                   | 390   |           | 23  | 100 | 100        | ug/L  |
| 87-86-5        | Pentachlorophenol          | 360   |           | 90  | 200 | 200        | ug/L  |
| 85-01-8        | Phenanthrene               | 400   |           | 20  | 100 | 100        | ug/L  |
| 120-12-7       | Anthracene                 | 400   |           | 24  | 100 | 100        | ug/L  |
| 206-44-0       | Fluoranthene               | 380   |           | 23  | 100 | 100        | ug/L  |
| 129-00-0       | Pyrene                     | 390   |           | 22  | 100 | 100        | ug/L  |
| 56-55-3        | Benzo(a)anthracene         | 400   |           | 22  | 100 | 100        | ug/L  |
| 218-01-9       | Chrysene                   | 400   |           | 26  | 100 | 100        | ug/L  |
| 117-81-7       | Bis(2-ethylhexyl)phthalate | 340   |           | 140 | 200 | 200        | ug/L  |
| 205-99-2       | Benzo(b)fluoranthene       | 380   |           | 32  | 100 | 100        | ug/L  |
| 207-08-9       | Benzo(k)fluoranthene       | 410   |           | 34  | 100 | 100        | ug/L  |
| 50-32-8        | Benzo(a)pyrene             | 410   |           | 56  | 100 | 100        | ug/L  |
| 193-39-5       | Indeno(1,2,3-cd)pyrene     | 400   |           | 38  | 100 | 100        | ug/L  |
| 53-70-3        | Dibenzo(a,h)anthracene     | 400   |           | 39  | 100 | 100        | ug/L  |
| 191-24-2       | Benzo(g,h,i)perylene       | 360   |           | 37  | 100 | 100        | ug/L  |
| 123-91-1       | 1,4-Dioxane                | 390   |           | 68  | 200 | 200        | ug/L  |

## Report of Analysis

|                    |               |              |    |                 |          |      |  |
|--------------------|---------------|--------------|----|-----------------|----------|------|--|
| Client:            |               |              |    | Date Collected: |          |      |  |
| Project:           |               |              |    | Date Received:  |          |      |  |
| Client Sample ID:  | ICVBN080724   |              |    | SDG No.:        | BN080724 |      |  |
| Lab Sample ID:     | SSTDICV0.4    |              |    | Matrix:         | Water    |      |  |
| Analytical Method: | 8270-Modified |              |    | % Moisture:     | 100      |      |  |
| Sample Wt/Vol:     | 1000          | Units:       | mL | Final Vol:      | 1000000  | uL   |  |
| Soil Aliquot Vol:  |               |              | uL | Test:           |          |      |  |
| Extraction Type :  |               | Decanted :   |    | Level :         | LOW      |      |  |
| Injection Volume : |               | GPC Factor : |    | GPC Cleanup :   |          | PH : |  |

|                   |           |           |                      |               |
|-------------------|-----------|-----------|----------------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed        | Prep Batch ID |
| BN033296.D        | 1         |           | 8/7/2024 12:00:00 AM |               |

| CAS Number                | Parameter               | Conc. | Qualifier | MDL    | LOD | LOQ / CRQL | Units     |
|---------------------------|-------------------------|-------|-----------|--------|-----|------------|-----------|
| <b>SURROGATES</b>         |                         |       |           |        |     |            |           |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 395   | *         | 30-150 |     | 98750      | SPK: -0.4 |
| 93951-69-0                | Fluoranthene-d10        | 380   | *         | 30-150 |     | 95000      | SPK: -0.4 |
| 367-12-4                  | 2-Fluorophenol          | 379   | *         | 10-92  |     | 94750      | SPK: -0.4 |
| 13127-88-3                | Phenol-d6               | 357   | *         | 10-100 |     | 89250      | SPK: -0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 407   | *         | 11-175 |     | 101750     | SPK: -0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 432   | *         | 10-175 |     | 108000     | SPK: -0.4 |
| 118-79-6                  | 2,4,6-Tribromophenol    | 367   | *         | 24-148 |     | 91750      | SPK: -0.4 |
| 1718-51-0                 | Terphenyl-d14           | 468   | *         | 54-171 |     | 117000     | SPK: -0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |        |     |            |           |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 5525  |           | 7.589  |     |            |           |
| 1146-65-2                 | Naphthalene-d8          | 16341 |           | 10.351 |     |            |           |
| 15067-26-2                | Acenaphthene-d10        | 9980  |           | 14.222 |     |            |           |
| 1517-22-2                 | Phenanthrene-d10        | 24347 |           | 16.97  |     |            |           |
| 1719-03-5                 | Chrysene-d12            | 23402 |           | 21.178 |     |            |           |
| 1520-96-3                 | Perylene-d12            | 26702 |           | 23.358 |     |            |           |

## Report of Analysis

|                    |                |                 |                      |
|--------------------|----------------|-----------------|----------------------|
| Client:            |                | Date Collected: | 8/2/2024 12:00:00 AM |
| Project:           |                | Date Received:  | 8/2/2024 12:00:00 AM |
| Client Sample ID:  | PB162464BL     | SDG No.:        | BN080724             |
| Lab Sample ID:     | PB162464BL     | Matrix:         | Water                |
| Analytical Method: | 8270-Modified  | % Moisture:     | 100                  |
| Sample Wt/Vol:     | 1000 Units: mL | Final Vol:      | 1000 uL              |
| Soil Aliquot Vol:  | uL             | Test:           |                      |
| Extraction Type :  | Decanted :     | Level :         | LOW                  |
| Injection Volume : | GPC Factor :   | GPC Cleanup :   | PH :                 |

|                   |           |                      |                      |               |
|-------------------|-----------|----------------------|----------------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date            | Date Analyzed        | Prep Batch ID |
| BN033297.D        | 1         | 8/2/2024 12:00:00 AM | 8/8/2024 12:00:00 AM | PB162464      |

| CAS Number     | Parameter                  | Conc. | Qualifier | MDL  | LOD | LOQ / CRQL | Units |
|----------------|----------------------------|-------|-----------|------|-----|------------|-------|
| <b>TARGETS</b> |                            |       |           |      |     |            |       |
| 62-75-9        | n-Nitrosodimethylamine     | 0.03  | U         | 0.03 | 0.2 | 0.2        | ug/L  |
| 111-44-4       | bis(2-Chloroethyl)ether    | 0.03  | U         | 0.03 | 0.1 | 0.1        | ug/L  |
| 91-20-3        | Naphthalene                | 0.02  | U         | 0.02 | 0.1 | 0.1        | ug/L  |
| 87-68-3        | Hexachlorobutadiene        | 0.03  | U         | 0.03 | 0.1 | 0.1        | ug/L  |
| 91-57-6        | 2-Methylnaphthalene        | 0.03  | U         | 0.03 | 0.1 | 0.1        | ug/L  |
| 208-96-8       | Acenaphthylene             | 0.02  | U         | 0.02 | 0.1 | 0.1        | ug/L  |
| 83-32-9        | Acenaphthene               | 0.02  | U         | 0.02 | 0.1 | 0.1        | ug/L  |
| Total PAH      | Total PAH                  | 0.45  | U         | 0.45 | 0.1 | 1.6        | ug/L  |
| 86-73-7        | Fluorene                   | 0.02  | U         | 0.02 | 0.1 | 0.1        | ug/L  |
| 534-52-1       | 4,6-Dinitro-2-methylphenol | 0.14  | U         | 0.14 | 0.2 | 0.2        | ug/L  |
| 101-55-3       | 4-Bromophenyl-phenylether  | 0.03  | U         | 0.03 | 0.1 | 0.1        | ug/L  |
| 118-74-1       | Hexachlorobenzene          | 0.03  | U         | 0.03 | 0.1 | 0.1        | ug/L  |
| 1912-24-9      | Atrazine                   | 0.02  | U         | 0.02 | 0.1 | 0.1        | ug/L  |
| 87-86-5        | Pentachlorophenol          | 0.09  | U         | 0.09 | 0.2 | 0.2        | ug/L  |
| 85-01-8        | Phenanthrene               | 0.02  | U         | 0.02 | 0.1 | 0.1        | ug/L  |
| 120-12-7       | Anthracene                 | 0.02  | U         | 0.02 | 0.1 | 0.1        | ug/L  |
| 206-44-0       | Fluoranthene               | 0.02  | U         | 0.02 | 0.1 | 0.1        | ug/L  |
| 129-00-0       | Pyrene                     | 0.02  | U         | 0.02 | 0.1 | 0.1        | ug/L  |
| 56-55-3        | Benzo(a)anthracene         | 0.02  | U         | 0.02 | 0.1 | 0.1        | ug/L  |
| 218-01-9       | Chrysene                   | 0.03  | U         | 0.03 | 0.1 | 0.1        | ug/L  |
| 117-81-7       | Bis(2-ethylhexyl)phthalate | 0.14  | U         | 0.14 | 0.2 | 0.2        | ug/L  |
| 205-99-2       | Benzo(b)fluoranthene       | 0.03  | U         | 0.03 | 0.1 | 0.1        | ug/L  |
| 207-08-9       | Benzo(k)fluoranthene       | 0.03  | U         | 0.03 | 0.1 | 0.1        | ug/L  |
| 50-32-8        | Benzo(a)pyrene             | 0.06  | U         | 0.06 | 0.1 | 0.1        | ug/L  |
| 193-39-5       | Indeno(1,2,3-cd)pyrene     | 0.04  | U         | 0.04 | 0.1 | 0.1        | ug/L  |
| 53-70-3        | Dibenzo(a,h)anthracene     | 0.04  | U         | 0.04 | 0.1 | 0.1        | ug/L  |
| 191-24-2       | Benzo(g,h,i)perylene       | 0.04  | U         | 0.04 | 0.1 | 0.1        | ug/L  |
| 123-91-1       | 1,4-Dioxane                | 0.07  | U         | 0.07 | 0.2 | 0.2        | ug/L  |

## Report of Analysis

|                    |                        |                 |                      |
|--------------------|------------------------|-----------------|----------------------|
| Client:            |                        | Date Collected: | 8/2/2024 12:00:00 AM |
| Project:           |                        | Date Received:  | 8/2/2024 12:00:00 AM |
| Client Sample ID:  | PB162464BL             | SDG No.:        | BN080724             |
| Lab Sample ID:     | PB162464BL             | Matrix:         | Water                |
| Analytical Method: | 8270-Modified          | % Moisture:     | 100                  |
| Sample Wt/Vol:     | 1000      Units:    mL | Final Vol:      | 1000      uL         |
| Soil Aliquot Vol:  | uL                     | Test:           |                      |
| Extraction Type :  | Decanted :             | Level :         | LOW                  |
| Injection Volume : | GPC Factor :           | GPC Cleanup :   | PH :                 |

|                   |           |                      |                      |               |
|-------------------|-----------|----------------------|----------------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date            | Date Analyzed        | Prep Batch ID |
| BN033297.D        | 1         | 8/2/2024 12:00:00 AM | 8/8/2024 12:00:00 AM | PB162464      |

| CAS Number                | Parameter               | Conc. | Qualifier | MDL    | LOD | LOQ / CRQL | Units     |
|---------------------------|-------------------------|-------|-----------|--------|-----|------------|-----------|
| <b>SURROGATES</b>         |                         |       |           |        |     |            |           |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.342 |           | 30-150 |     | 86         | SPK: -0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.369 |           | 30-150 |     | 92         | SPK: -0.4 |
| 367-12-4                  | 2-Fluorophenol          | 0.381 | *         | 10-92  |     | 95         | SPK: -0.4 |
| 13127-88-3                | Phenol-d6               | 0.363 |           | 10-100 |     | 91         | SPK: -0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.363 |           | 11-175 |     | 91         | SPK: -0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.393 |           | 10-175 |     | 98         | SPK: -0.4 |
| 118-79-6                  | 2,4,6-Tribromophenol    | 0.239 |           | 24-148 |     | 60         | SPK: -0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.424 |           | 54-171 |     | 106        | SPK: -0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |        |     |            |           |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 4273  | 7.589     |        |     |            |           |
| 1146-65-2                 | Naphthalene-d8          | 12059 | 10.351    |        |     |            |           |
| 15067-26-2                | Acenaphthene-d10        | 6712  | 14.222    |        |     |            |           |
| 1517-22-2                 | Phenanthrene-d10        | 17521 | 16.97     |        |     |            |           |
| 1719-03-5                 | Chrysene-d12            | 17317 | 21.178    |        |     |            |           |
| 1520-96-3                 | Perylene-d12            | 19997 | 23.358    |        |     |            |           |

### Hit Summary Sheet SW-846

SDG No.: BN080724

Client:

| Sample ID                      | Client ID   |       | Parameter                  | Concentration    | C   | MDL | RDL  | Units |
|--------------------------------|-------------|-------|----------------------------|------------------|-----|-----|------|-------|
| <b>Client ID : ICVBN080724</b> |             |       |                            |                  |     |     |      |       |
| SSTDICV0.4                     | ICVBN080724 | Water | 1,4-Dioxane                | 390.000          | 68  |     | 200  | ug/L  |
| SSTDICV0.4                     | ICVBN080724 | Water | 2-Methylnaphthalene        | 400.000          | 30  |     | 100  | ug/L  |
| SSTDICV0.4                     | ICVBN080724 | Water | 4,6-Dinitro-2-methylphenol | 390.000          | 140 |     | 200  | ug/L  |
| SSTDICV0.4                     | ICVBN080724 | Water | 4-Bromophenyl-phenylether  | 370.000          | 26  |     | 100  | ug/L  |
| SSTDICV0.4                     | ICVBN080724 | Water | Acenaphthene               | 420.000          | 20  |     | 100  | ug/L  |
| SSTDICV0.4                     | ICVBN080724 | Water | Acenaphthylene             | 430.000          | 21  |     | 100  | ug/L  |
| SSTDICV0.4                     | ICVBN080724 | Water | Anthracene                 | 400.000          | 24  |     | 100  | ug/L  |
| SSTDICV0.4                     | ICVBN080724 | Water | Atrazine                   | 390.000          | 23  |     | 100  | ug/L  |
| SSTDICV0.4                     | ICVBN080724 | Water | Benzo(a)anthracene         | 400.000          | 22  |     | 100  | ug/L  |
| SSTDICV0.4                     | ICVBN080724 | Water | Benzo(a)pyrene             | 410.000          | 56  |     | 100  | ug/L  |
| SSTDICV0.4                     | ICVBN080724 | Water | Benzo(b)fluoranthene       | 380.000          | 32  |     | 100  | ug/L  |
| SSTDICV0.4                     | ICVBN080724 | Water | Benzo(g,h,i)perylene       | 360.000          | 37  |     | 100  | ug/L  |
| SSTDICV0.4                     | ICVBN080724 | Water | Benzo(k)fluoranthene       | 410.000          | 34  |     | 100  | ug/L  |
| SSTDICV0.4                     | ICVBN080724 | Water | bis(2-Chloroethyl)ether    | 410.000          | 28  |     | 100  | ug/L  |
| SSTDICV0.4                     | ICVBN080724 | Water | Bis(2-ethylhexyl)phthalate | 340.000          | 140 |     | 200  | ug/L  |
| SSTDICV0.4                     | ICVBN080724 | Water | Chrysene                   | 400.000          | 26  |     | 100  | ug/L  |
| SSTDICV0.4                     | ICVBN080724 | Water | Dibenzo(a,h)anthracene     | 400.000          | 39  |     | 100  | ug/L  |
| SSTDICV0.4                     | ICVBN080724 | Water | Fluoranthene               | 380.000          | 23  |     | 100  | ug/L  |
| SSTDICV0.4                     | ICVBN080724 | Water | Fluorene                   | 410.000          | 18  |     | 100  | ug/L  |
| SSTDICV0.4                     | ICVBN080724 | Water | Hexachlorobenzene          | 380.000          | 29  |     | 100  | ug/L  |
| SSTDICV0.4                     | ICVBN080724 | Water | Hexachlorobutadiene        | 390.000          | 26  |     | 100  | ug/L  |
| SSTDICV0.4                     | ICVBN080724 | Water | Indeno(1,2,3-cd)pyrene     | 400.000          | 38  |     | 100  | ug/L  |
| SSTDICV0.4                     | ICVBN080724 | Water | n-Nitrosodimethylamine     | 380.000          | 30  |     | 200  | ug/L  |
| SSTDICV0.4                     | ICVBN080724 | Water | Naphthalene                | 390.000          | 24  |     | 100  | ug/L  |
| SSTDICV0.4                     | ICVBN080724 | Water | Pentachlorophenol          | 360.000          | 90  |     | 200  | ug/L  |
| SSTDICV0.4                     | ICVBN080724 | Water | Phenanthrene               | 400.000          | 20  |     | 100  | ug/L  |
| SSTDICV0.4                     | ICVBN080724 | Water | Pyrene                     | 390.000          | 22  |     | 100  | ug/L  |
| SSTDICV0.4                     | ICVBN080724 | Water | Total PAH                  | 6,380.000        | 456 |     | 1600 | ug/L  |
| <b>Total Svoc :</b>            |             |       |                            | <b>16,960.00</b> |     |     |      |       |
| <b>Total Concentration:</b>    |             |       |                            | <b>16,960.00</b> |     |     |      |       |

## SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: \_\_\_\_\_

Lab Code: CHEM Case No.: BN080724 SAS No.: BN080724 SDG No.: BN080724

Instrument ID: \_\_\_\_\_ Calibration Date(s): 8/7/2024 1: \_\_\_\_\_

Calibration Time(s): 19:24 \_\_\_\_\_

| LAB FILE ID:               | RRF0.1 = BN033289.D |        |        | RRF0.2 = BN033290.D |        |        | RRF0.4 = BN033291.D |       |
|----------------------------|---------------------|--------|--------|---------------------|--------|--------|---------------------|-------|
|                            | RRF0.8 = BN033292.D |        |        | RRF1.6 = BN033293.D |        |        | RRF3.2 = BN033294.D |       |
| COMPOUND                   | RRF0.1              | RRF0.2 | RRF0.4 | RRF0.8              | RRF1.6 | RRF3.2 | RRF                 | % RSD |
| 2-Methylnaphthalene-d10    | 0.638               | 0.607  | 0.624  | 0.659               | 0.642  | 0.596  | 0.623               | 3.9   |
| Fluoranthene-d10           | 1.119               | 1.062  | 1.089  | 1.150               | 1.130  | 1.073  | 1.101               | 3.0   |
| n-Nitrosodimethylamine     | 0.537               | 0.557  | 0.554  | 0.619               | 0.592  | 0.542  | 0.563               | 5.5   |
| 2-Fluorophenol             | 1.094               | 1.072  | 1.080  | 1.127               | 1.075  | 0.963  | 1.053               | 6.2   |
| Phenol-d6                  | 1.481               | 1.425  | 1.451  | 1.569               | 1.494  | 1.335  | 1.439               | 6.1   |
| bis(2-Chloroethyl)ether    | 1.243               | 1.192  | 1.242  | 1.321               | 1.287  | 1.164  | 1.231               | 4.9   |
| Nitrobenzene-d5            | 0.251               | 0.231  | 0.233  | 0.259               | 0.256  | 0.238  | 0.244               | 4.6   |
| Naphthalene                | 1.132               | 1.094  | 1.121  | 1.193               | 1.159  | 1.081  | 1.123               | 3.8   |
| Hexachlorobutadiene        | 0.211               | 0.204  | 0.205  | 0.219               | 0.212  | 0.197  | 0.206               | 4.0   |
| 2-Methylnaphthalene        | 0.772               | 0.752  | 0.776  | 0.823               | 0.803  | 0.748  | 0.774               | 3.8   |
| 2-Fluorobiphenyl           | 1.502               | 1.425  | 1.559  | 1.598               | 1.551  | 1.460  | 1.507               | 4.3   |
| Acenaphthylene             | 1.921               | 1.830  | 2.028  | 2.072               | 2.022  | 1.895  | 1.953               | 4.5   |
| Acenaphthene               | 1.211               | 1.161  | 1.274  | 1.323               | 1.277  | 1.215  | 1.239               | 4.4   |
| Fluorene                   | 1.681               | 1.578  | 1.699  | 1.742               | 1.690  | 1.599  | 1.656               | 3.8   |
| 4,6-Dinitro-2-methylphenol | 0.024               | 0.024  | 0.026  | 0.030               | 0.030  | 0.032  | 0.029               | 14.6  |
| 2,4,6-Tribromophenol       | 0.171               | 0.157  | 0.163  | 0.164               | 0.159  | 0.155  | 0.162               | 3.3   |
| 4-Bromophenyl-phenylether  | 0.248               | 0.236  | 0.242  | 0.255               | 0.252  | 0.233  | 0.243               | 3.5   |
| Hexachlorobenzene          | 0.255               | 0.244  | 0.252  | 0.275               | 0.264  | 0.246  | 0.255               | 4.3   |
| Atrazine                   | 0.202               | 0.192  | 0.198  | 0.210               | 0.206  | 0.194  | 0.201               | 3.1   |
| Pentachlorophenol          | 0.074               | 0.079  | 0.085  | 0.093               | 0.097  | 0.096  | 0.089               | 11.9  |
| Phenanthrene               | 1.160               | 1.112  | 1.166  | 1.211               | 1.190  | 1.125  | 1.158               | 3.1   |
| Anthracene                 | 1.134               | 1.076  | 1.113  | 1.185               | 1.167  | 1.101  | 1.126               | 3.4   |
| Fluoranthene               | 1.463               | 1.392  | 1.442  | 1.528               | 1.527  | 1.430  | 1.460               | 3.5   |
| Pyrene                     | 1.605               | 1.537  | 1.579  | 1.685               | 1.617  | 1.496  | 1.573               | 4.4   |
| Terphenyl-d14              | 0.718               | 0.686  | 0.692  | 0.735               | 0.703  | 0.648  | 0.690               | 4.8   |
| Benzo (a) anthracene       | 1.606               | 1.492  | 1.529  | 1.635               | 1.592  | 1.504  | 1.553               | 3.6   |
| Chrysene                   | 1.533               | 1.468  | 1.500  | 1.601               | 1.532  | 1.454  | 1.504               | 3.7   |
| Bis(2-ethylhexyl)phthalate | 0.879               | 0.799  | 0.765  | 0.799               | 0.789  | 0.785  | 0.805               | 4.5   |
| Benzo (b) fluoranthene     | 1.443               | 1.407  | 1.467  | 1.584               | 1.541  | 1.464  | 1.487               | 4.0   |
| Benzo (k) fluoranthene     | 1.370               | 1.384  | 1.405  | 1.546               | 1.534  | 1.425  | 1.444               | 4.9   |
| Benzo (a) pyrene           | 1.287               | 1.246  | 1.282  | 1.406               | 1.388  | 1.307  | 1.321               | 4.4   |
| Indeno (1,2,3-cd) pyrene   | 1.697               | 1.611  | 1.683  | 1.872               | 1.857  | 1.766  | 1.750               | 5.4   |
| Dibenzo (a,h) anthracene   | 1.337               | 1.269  | 1.335  | 1.484               | 1.472  | 1.392  | 1.382               | 5.6   |
| Benzo (g,h,i) perylene     | 1.460               | 1.402  | 1.452  | 1.606               | 1.593  | 1.511  | 1.503               | 5.0   |
| 1,4-Dioxane                | 0.444               | 0.461  | 0.454  | 0.469               | 0.457  | 0.410  | 0.443               | 5.7   |

All other compounds must meet a minimum RRF of 0.010.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BN080724 SAS No.: BN080724 SDG NO.: BN080724

EPA Sample No.: SSTDICCC0.4 Date Analyzed: Aug 7 2024 12:00AM

Lab File ID: BN033291.D Time Analyzed: 23:37

Instrument ID: BNA\_N GC Column: ZB-GR ID: 0.25 (mm)

|                | IS1 (DCB)<br>AREA # | RT #  | IS2 (NPT)<br>AREA # | RT #   | IS3 (ANT)<br>AREA # | RT #   |
|----------------|---------------------|-------|---------------------|--------|---------------------|--------|
| 12 HOUR STD    | 4733                | 7.589 | 14352               | 10.35  | 8983                | 14.22  |
| UPPER LIMIT    | 9466                | 8.089 | 28704               | 10.851 | 17966               | 14.722 |
| LOWER LIMIT    | 2366.5              | 7.089 | 7176                | 9.851  | 4491.5              | 13.722 |
| EPA SAMPLE NO. |                     |       |                     |        |                     |        |
| 01 ICVBN080724 | 5525                | 7.59  | 16341               | 10.35  | 9980                | 14.22  |
| 02 PB162464BL  | 4273                | 7.59  | 12059               | 10.35  | 6712                | 14.22  |

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.

\* Values outside of QC limits.



8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BN080724 SAS No.: BN080724 SDG NO.: BN080724

EPA Sample No.: SSTDICCC0.4 Date Analyzed: Aug 7 2024 12:00AM

Lab File ID: BN033291.D Time Analyzed: 23:37

Instrument ID: BNA\_N GC Column: ZB-GR ID: 0.25 (mm)

|                | IS1 (DCB)<br>AREA # | RT #  | IS2 (NPT)<br>AREA # | RT #   | IS3 (ANT)<br>AREA # | RT #   |
|----------------|---------------------|-------|---------------------|--------|---------------------|--------|
| 12 HOUR STD    | 4733                | 7.589 | 14352               | 10.35  | 8983                | 14.22  |
| UPPER LIMIT    | 9466                | 8.089 | 28704               | 10.851 | 17966               | 14.722 |
| LOWER LIMIT    | 2366.5              | 7.089 | 7176                | 9.851  | 4491.5              | 13.722 |
| EPA SAMPLE NO. |                     |       |                     |        |                     |        |
| 01 ICVBN080724 | 5525                | 7.59  | 16341               | 10.35  | 9980                | 14.22  |
| 02 PB162464BL  | 4273                | 7.59  | 12059               | 10.35  | 6712                | 14.22  |

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.

\* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BN080724 SAS No.: BN080724 SDG NO.: BN080724

EPA Sample No.: SSTDICCC0.4 Date Analyzed: Aug 7 2024 12:00AM

Lab File ID: BN033291.D Time Analyzed: 23:37

Instrument ID: BNA\_N GC Column: ZB-GR ID: 0.25 (mm)

|                | IS4 (PHN)<br>AREA # | RT #  | IS5 (CRY)<br>AREA # | RT #   | IS6 (PRY)<br>AREA # | RT #   |
|----------------|---------------------|-------|---------------------|--------|---------------------|--------|
| 12 HOUR STD    | 21364               | 16.97 | 20550               | 21.178 | 23954               | 23.361 |
| UPPER LIMIT    | 42728               | 17.47 | 41100               | 21.678 | 47908               | 23.861 |
| LOWER LIMIT    | 10682               | 16.47 | 10275               | 20.678 | 11977               | 22.861 |
| EPA SAMPLE NO. |                     |       |                     |        |                     |        |
| 01 ICVBN080724 | 24347               | 16.97 | 23402               | 21.18  | 26702               | 23.36  |
| 02 PB162464BL  | 17521               | 16.97 | 17317               | 21.18  | 19997               | 23.36  |

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.

\* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BN080724 SAS No.: BN080724 SDG NO.: BN080724

EPA Sample No.: SSTDICCC0.4 Date Analyzed: Aug 7 2024 12:00AM

Lab File ID: BN033291.D Time Analyzed: 23:37

Instrument ID: BNA\_N GC Column: ZB-GR ID: 0.25 (mm)

|                | IS4 (PHN)<br>AREA # | RT #  | IS5 (CRY)<br>AREA # | RT #   | IS6 (PRY)<br>AREA # | RT #   |
|----------------|---------------------|-------|---------------------|--------|---------------------|--------|
| 12 HOUR STD    | 21364               | 16.97 | 20550               | 21.178 | 23954               | 23.361 |
| UPPER LIMIT    | 42728               | 17.47 | 41100               | 21.678 | 47908               | 23.861 |
| LOWER LIMIT    | 10682               | 16.47 | 10275               | 20.678 | 11977               | 22.861 |
| EPA SAMPLE NO. |                     |       |                     |        |                     |        |
| 01 ICVBN080724 | 24347               | 16.97 | 23402               | 21.18  | 26702               | 23.36  |
| 02 PB162464BL  | 17521               | 16.97 | 17317               | 21.18  | 19997               | 23.36  |

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.

\* Values outside of QC limits.

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

ICVBN080724

Lab Name: CHEMTECH

Contract: \_\_\_\_\_

Lab Code: CHEM Case No.: BN080724

SAS No.: BN080724 SDG NO.: BN080724

Lab File ID: BN033296.D

Lab Sample ID: SSTDICV0.4

Instrument ID: BNA\_N

Date Extracted: \_\_\_\_\_

Matrix: (soil/water) Water

Date Analyzed: 08/07/2024

Level: (low/med) LOW

Time Analyzed: 23:37

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

| EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED |
|-------------------|------------------|----------------|------------------|
| ICVBN080724       | SSTDICV0.4       | BN033296.D     | 08/07/2024       |

COMMENTS: \_\_\_\_\_  
\_\_\_\_\_

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB162464BL

Lab Name: CHEMTECH

Contract: \_\_\_\_\_

Lab Code: CHEM Case No.: BN080724

SAS No.: BN080724 SDG NO.: BN080724

Lab File ID: BN033297.D

Lab Sample ID: PB162464BL

Instrument ID: BNA\_N

Date Extracted: 08/02/2024

Matrix: (soil/water) Water

Date Analyzed: 08/08/2024

Level: (low/med) LOW

Time Analyzed: 00:49

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

| EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED |
|-------------------|------------------|----------------|------------------|
|                   |                  |                |                  |

COMMENTS:

## Surrogate Summary

SW-846

SDG No.: BN080724

Client: \_\_\_\_\_

Analytical Method: 8270-Modified

| Lab Sample ID | Client ID   | Datafile   | Parameter               | Spike<br>(PPM) | Result<br>(PPM) | Recovery (%) | Qual | Limits (%) |      |
|---------------|-------------|------------|-------------------------|----------------|-----------------|--------------|------|------------|------|
|               |             |            |                         |                |                 |              |      | Low        | High |
| SSTDICV0.4    | ICVBN080724 | BN033296.D | 2-Methylnaphthalene-d10 | 0.4            | 395.00          | 98750        | *    | 30         | 150  |
|               |             |            | Fluoranthene-d10        | 0.4            | 380.00          | 95000        | *    | 30         | 150  |
|               |             |            | 2-Fluorophenol          | 0.4            | 379.00          | 94750        | *    | 10         | 92   |
|               |             |            | Phenol-d6               | 0.4            | 357.00          | 89250        | *    | 10         | 100  |
|               |             |            | Nitrobenzene-d5         | 0.4            | 407.00          | 101750       | *    | 11         | 175  |
|               |             |            | 2-Fluorobiphenyl        | 0.4            | 432.00          | 108000       | *    | 10         | 175  |
|               |             |            | 2,4,6-Tribromophenol    | 0.4            | 367.00          | 91750        | *    | 24         | 148  |
|               |             |            | Terphenyl-d14           | 0.4            | 468.00          | 117000       | *    | 54         | 171  |

## Surrogate Summary

SW-846

SDG No.: BN080724

Client: \_\_\_\_\_

Analytical Method: 8270-Modified

| Lab Sample ID | Client ID  | Datafile   | Parameter               | Spike<br>(PPM) | Result<br>(PPM) | Recovery (%) | Qual | Limits (%) |      |
|---------------|------------|------------|-------------------------|----------------|-----------------|--------------|------|------------|------|
|               |            |            |                         |                |                 |              |      | Low        | High |
| PB162464BL    | PB162464BL | BN033297.D | 2-Methylnaphthalene-d10 | 0.4            | 0.34            | 86           |      | 30         | 150  |
|               |            |            | Fluoranthene-d10        | 0.4            | 0.37            | 92           |      | 30         | 150  |
|               |            |            | 2-Fluorophenol          | 0.4            | 0.38            | 95           | *    | 10         | 92   |
|               |            |            | Phenol-d6               | 0.4            | 0.36            | 91           |      | 10         | 100  |
|               |            |            | Nitrobenzene-d5         | 0.4            | 0.36            | 91           |      | 11         | 175  |
|               |            |            | 2-Fluorobiphenyl        | 0.4            | 0.39            | 98           |      | 10         | 175  |
|               |            |            | 2,4,6-Tribromophenol    | 0.4            | 0.24            | 60           |      | 24         | 148  |
|               |            |            | Terphenyl-d14           | 0.4            | 0.42            | 106          |      | 54         | 171  |

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: BN080724

Lab Code: CHEM

SAS No.: BN080724 SDG NO.: BN080724

Lab File ID: BN033288.D

DFTPP Injection Date: 08/07/2024

Instrument ID: BNA\_N

DFTPP Injection Time: 18:05

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 51  | 10.0 - 80.0% of mass 198           | 37.4                 |
| 68  | Less than 2.0% of mass 69          | 0.6 ( 1.6 ) 1        |
| 69  | Mass 69 relative abundance         | 36.8                 |
| 70  | Less than 2.0% of mass 69          | 0.3 ( 0.7 ) 1        |
| 127 | 10.0 - 80.0% of mass 198           | 45.6                 |
| 197 | Less than 2.0% of mass 198         | 0.3                  |
| 198 | Base Peak, 100% relative abundance | 100                  |
| 199 | 5.0 to 9.0% of mass 198            | 6.7                  |
| 275 | 10.0 - 60.0% of mass 198           | 26.4                 |
| 365 | Greater than 1% of mass 198        | 3.3                  |
| 441 | Present, but less than mass 443    | 12.1                 |
| 442 | Greater than 50% of mass 198       | 78.9                 |
| 443 | 15.0 - 24.0% of mass 442           | 14 ( 17.8 ) 2        |

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED | TIME<br>ANALYZED |
|-------------------|------------------|----------------|------------------|------------------|
| SSTDICC0.1        | SSTDICC0.1       | BN033289.D     | 08/07/2024       | 19:24            |
| SSTDICC0.2        | SSTDICC0.2       | BN033290.D     | 08/07/2024       | 20:00            |
| SSTDICCC0.4       | SSTDICCC0.4      | BN033291.D     | 08/07/2024       | 20:36            |
| SSTDICC0.8        | SSTDICC0.8       | BN033292.D     | 08/07/2024       | 21:12            |
| SSTDICC1.6        | SSTDICC1.6       | BN033293.D     | 08/07/2024       | 21:48            |
| SSTDICC3.2        | SSTDICC3.2       | BN033294.D     | 08/07/2024       | 22:24            |
| SSTDICC5.0        | SSTDICC5.0       | BN033295.D     | 08/07/2024       | 23:00            |
| ICVBN080724       | SSTDICV0.4       | BN033296.D     | 08/07/2024       | 23:37            |
| PB162464BL        | PB162464BL       | BN033297.D     | 08/08/2024       | 00:49            |