

Former Fort Devens, Stage 2B Validation - Electronic and Manual Data Approved Between 9/24/2018 and 5/31/2020

KOMAN, PFAS RI, Surface Water/Sediment - Area 1

Cold Spring Brook

|                     |                     |                    |                     |                    |                     |
|---------------------|---------------------|--------------------|---------------------|--------------------|---------------------|
| Locations:          | CSB-18-01           | CSB-18-01          | CSB-18-02           | CSB-18-02          | CSB-18-03           |
| Field Sample ID:    | CSB-18-01-SED-SEP18 | CSB-18-01-SW-SEP18 | CSB-18-02-SED-SEP18 | CSB-18-02-SW-SEP18 | CSB-18-03-SED-SEP18 |
| Sample Begin Depth: | 0.00                | 0.00               | 0.00                | 0.00               | 0.00                |
| Sample End Depth:   | 0.50                | 0.00               | 0.50                | 0.00               | 0.50                |
| Sample Date:        | 09/27/2018          | 09/27/2018         | 09/27/2018          | 09/27/2018         | 09/27/2018          |

Gen. Chemistry (mg/kg)

|                      |        |   |        |   |       |
|----------------------|--------|---|--------|---|-------|
| Total Organic Carbon | 370000 | - | 190000 | - | 69000 |
|----------------------|--------|---|--------|---|-------|

PFAS (ng/L)

|   |   |         |   |         |   |
|---|---|---------|---|---------|---|
| 6:2 Fluorotelomer sulfonate (6:2 FTS)                     | - | 18.0 U  | - | 20.0 U  | - |
| 8:2 Fluorotelomer sulfonate (8:2 FTS)                     | - | 8.80 U  | - | 9.80 U  | - |
| N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | - | 8.80 U  | - | 9.80 U  | - |
| N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA) | - | 8.80 U  | - | 9.80 U  | - |
| Perfluorobutanesulfonic acid (PFBS)                       | - | 1.60 J  | - | 4.10    | - |
| Perfluorodecanoic acid (PFDA)                             | - | 0.880 U | - | 0.980 U | - |
| Perfluorododecanoic acid (PFDoA)                          | - | 1.30 U  | - | 1.50 UJ | - |
| Perfluoroheptanoic acid (PFHpA)                           | - | 1.60 J  | - | 21.0    | - |
| Perfluorohexanesulfonic acid (PFHxS)                      | - | 6.60    | - | 18.0    | - |
| Perfluorohexanoic acid (PFHxA)                            | - | 2.50    | - | 17.0    | - |
| Perfluorononanoic acid (PFNA)                             | - | 1.30 U  | - | 0.940 J | - |
| Perfluorooctanesulfonic acid (PFOS)                       | - | 4.10    | - | 10.0    | - |
| Perfluorooctanoic acid (PFOA)                             | - | 4.50    | - | 12.0    | - |
| Perfluorotetradecanoic acid (PFTA)                        | - | 2.70 U  | - | 2.90 U  | - |
| Perfluorotridecanoic acid (PFTrDA)                        | - | 2.70 U  | - | 2.90 U  | - |
| Perfluoroundecanoic acid (PFUnA)                          | - | 1.30 U  | - | 1.50 U  | - |

PFAS (ug/kg)

|   |        |   |         |   |         |
|---|--------|---|---------|---|---------|
| 6:2 Fluorotelomer sulfonate (6:2 FTS)                     | 28.0 U | - | 7.80 U  | - | 4.40 U  |
| 8:2 Fluorotelomer sulfonate (8:2 FTS)                     | 14.0 U | - | 3.90 U  | - | 2.20 U  |
| N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | 14.0 U | - | 3.90 U  | - | 2.20 U  |
| N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA) | 14.0 U | - | 3.90 U  | - | 2.20 U  |
| Perfluorobutanesulfonic acid (PFBS)                       | 2.50 U | - | 0.700 U | - | 0.390 U |
| Perfluorodecanoic acid (PFDA)                             | 2.80 U | - | 0.780 U | - | 0.440 U |
| Perfluorododecanoic acid (PFDoA)                          | 2.80 U | - | 0.780 U | - | 0.440 U |

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|   | Locations: CSB-18-03                | CSB-18-04           | CSB-18-04          | CSB-18-05           | CSB-18-05          |
|---|-------------------------------------|---------------------|--------------------|---------------------|--------------------|
|   | Field Sample ID: CSB-18-03-SW-SEP18 | CSB-18-04-SED-SEP18 | CSB-18-04-SW-SEP18 | CSB-18-05-SED-SEP18 | CSB-18-05-SW-SEP18 |
|   | Sample Begin Depth: 0.00            | 0.00                | 0.00               | 0.00                | 0.00               |
|   | Sample End Depth: 0.00              | 0.50                | 0.00               | 0.50                | 0.00               |
|   | Sample Date: 09/27/2018             | 09/27/2018          | 09/27/2018         | 09/27/2018          | 09/27/2018         |
| <b>Gen. Chemistry (mg/kg)</b>                             |                                     |                     |                    |                     |                    |
| Total Organic Carbon                                      | -                                   | <b>110000</b>       | -                  | <b>93000</b>        | -                  |
| <b>PFAS (ng/L)</b>  |                                     |                     |                    |                     |                    |
| 6:2 Fluorotelomer sulfonate (6:2 FTS)                     | 19.0 UJ                             | -                   | 19.0 UJ            | -                   | 19.0 UJ            |
| 8:2 Fluorotelomer sulfonate (8:2 FTS)                     | 9.50 U                              | -                   | 9.40 U             | -                   | 9.50 U             |
| N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | 9.50 U                              | -                   | 9.40 U             | -                   | 9.50 U             |
| N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA) | 9.50 U                              | -                   | 9.40 U             | -                   | 9.50 U             |
| Perfluorobutanesulfonic acid (PFBS)                       | <b>3.60</b>                         | -                   | <b>4.20</b>        | -                   | <b>5.10</b>        |
| Perfluorodecanoic acid (PFDA)                             | 0.950 U                             | -                   | <b>0.710 J</b>     | -                   | 0.950 U            |
| Perfluorododecanoic acid (PFDoA)                          | 1.40 U                              | -                   | 1.40 U             | -                   | 1.40 U             |
| Perfluoroheptanoic acid (PFHpA)                           | <b>16.0</b>                         | -                   | <b>23.0</b>        | -                   | <b>27.0</b>        |
| Perfluorohexanesulfonic acid (PFHxS)                      | <b>39.0</b>                         | -                   | <b>55.0</b>        | -                   | <b>40.0</b>        |
| Perfluorohexanoic acid (PFHxA)                            | <b>22.0</b>                         | -                   | <b>41.0</b>        | -                   | <b>51.0</b>        |
| Perfluorononanoic acid (PFNA)                             | <b>0.740 J</b>                      | -                   | <b>1.10 J</b>      | -                   | <b>1.10 J</b>      |
| Perfluorooctanesulfonic acid (PFOS)                       | <b>16.0</b>                         | -                   | <b>16.0</b>        | -                   | <b>15.0</b>        |
| Perfluorooctanoic acid (PFOA)                             | <b>22.0</b>                         | -                   | <b>45.0</b>        | -                   | <b>40.0</b>        |
| Perfluorotetradecanoic acid (PFTA)                        | 2.90 U                              | -                   | 2.80 U             | -                   | 2.80 U             |
| Perfluorotridecanoic acid (PFTrDA)                        | 2.90 U                              | -                   | 2.80 U             | -                   | 2.80 U             |
| Perfluoroundecanoic acid (PFUnA)                          | 1.40 U                              | -                   | 1.40 U             | -                   | 1.40 U             |
| <b>PFAS (ug/kg)</b>                                       |                                     |                     |                    |                     |                    |
| 6:2 Fluorotelomer sulfonate (6:2 FTS)                     | -                                   | 4.30 U              | -                  | 3.70 U              | -                  |
| 8:2 Fluorotelomer sulfonate (8:2 FTS)                     | -                                   | 2.20 U              | -                  | 1.90 U              | -                  |
| N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | -                                   | 2.20 U              | -                  | 1.90 U              | -                  |
| N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA) | -                                   | 2.20 U              | -                  | 1.90 U              | -                  |
| Perfluorobutanesulfonic acid (PFBS)                       | -                                   | 0.390 U             | -                  | 0.340 U             | -                  |
| Perfluorodecanoic acid (PFDA)                             | -                                   | 0.430 U             | -                  | 0.370 U             | -                  |
| Perfluorododecanoic acid (PFDoA)                          | -                                   | 0.430 U             | -                  | 0.370 U             | -                  |

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|   | Locations: CSB-18-05 (FD)         | CSB-18-05 (FD)  | CSB-18-06           | CSB-18-06          | CSB-18-07           |
|---|-----------------------------------|-----------------|---------------------|--------------------|---------------------|
|   | Field Sample ID: A1-SED-FD-092718 | A1-SW-FD-092718 | CSB-18-06-SED-SEP18 | CSB-18-06-SW-SEP18 | CSB-18-07-SED-SEP18 |
|   | Sample Begin Depth: 0.00          | 0.00            | 0.00                | 0.00               | 0.00                |
|   | Sample End Depth: 0.50            | 0.00            | 0.50                | 0.00               | 0.50                |
|   | Sample Date: 09/27/2018           | 09/27/2018      | 09/27/2018          | 09/27/2018         | 09/26/2018          |
| <b>Gen. Chemistry (mg/kg)</b>                             |                                   |                 |                     |                    |                     |
| Total Organic Carbon                                      | <b>87000</b>                      | -               | <b>150000</b>       | -                  | <b>77000</b>        |
| <b>PFAS (ng/L)</b>  |                                   |                 |                     |                    |                     |
| 6:2 Fluorotelomer sulfonate (6:2 FTS)                     | -                                 | 20.0 UJ         | -                   | 22.0 UJ            | -                   |
| 8:2 Fluorotelomer sulfonate (8:2 FTS)                     | -                                 | 9.70 U          | -                   | 8.70 U             | -                   |
| N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | -                                 | 9.70 U          | -                   | 8.70 U             | -                   |
| N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA) | -                                 | 9.70 U          | -                   | 8.70 U             | -                   |
| Perfluorobutanesulfonic acid (PFBS)                       | -                                 | <b>4.90</b>     | -                   | <b>1.60 J</b>      | -                   |
| Perfluorodecanoic acid (PFDA)                             | -                                 | <b>0.790 J</b>  | -                   | 0.870 U            | -                   |
| Perfluorododecanoic acid (PFDoA)                          | -                                 | 1.50 U          | -                   | 1.30 U             | -                   |
| Perfluoroheptanoic acid (PFHpA)                           | -                                 | <b>27.0</b>     | -                   | <b>4.70</b>        | -                   |
| Perfluorohexanesulfonic acid (PFHxS)                      | -                                 | <b>39.0</b>     | -                   | <b>5.00</b>        | -                   |
| Perfluorohexanoic acid (PFHxA)                            | -                                 | <b>48.0</b>     | -                   | <b>7.70</b>        | -                   |
| Perfluorononanoic acid (PFNA)                             | -                                 | <b>1.40 J</b>   | -                   | <b>0.750 J</b>     | -                   |
| Perfluorooctanesulfonic acid (PFOS)                       | -                                 | <b>15.0</b>     | -                   | <b>3.20 J</b>      | -                   |
| Perfluorooctanoic acid (PFOA)                             | -                                 | <b>41.0</b>     | -                   | <b>7.90</b>        | -                   |
| Perfluorotetradecanoic acid (PFTA)                        | -                                 | 2.90 U          | -                   | 2.60 U             | -                   |
| Perfluorotridecanoic acid (PFTTrDA)                       | -                                 | 2.90 U          | -                   | 2.60 U             | -                   |
| Perfluoroundecanoic acid (PFUnA)                          | -                                 | 1.50 U          | -                   | 1.30 U             | -                   |
| <b>PFAS (ug/kg)</b>                                       |                                   |                 |                     |                    |                     |
| 6:2 Fluorotelomer sulfonate (6:2 FTS)                     | 4.00 U                            | -               | 5.80 U              | -                  | 4.10 U              |
| 8:2 Fluorotelomer sulfonate (8:2 FTS)                     | 2.00 U                            | -               | 2.90 U              | -                  | 2.00 U              |
| N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | 2.00 U                            | -               | 2.90 U              | -                  | 2.00 U              |
| N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA) | 2.00 U                            | -               | 2.90 U              | -                  | 2.00 U              |
| Perfluorobutanesulfonic acid (PFBS)                       | 0.360 U                           | -               | 0.520 U             | -                  | 0.370 U             |
| Perfluorodecanoic acid (PFDA)                             | 0.400 U                           | -               | <b>3.70</b>         | -                  | 0.410 U             |
| Perfluorododecanoic acid (PFDoA)                          | 0.400 U                           | -               | 0.580 U             | -                  | 0.410 U             |

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|  |                     |                    |
|--|---------------------|--------------------|
| <b>Locations:</b> CSB-18-07                | CSB-18-08           | CSB-18-08          |
| <b>Field Sample ID:</b> CSB-18-07-SW-SEP18 | CSB-18-08-SED-SEP18 | CSB-18-08-SW-SEP18 |
| <b>Sample Begin Depth:</b> 0.00            | 0.00                | 0.00               |
| <b>Sample End Depth:</b> 0.00              | 0.00                | 0.00               |
| <b>Sample Date:</b> 09/26/2018             | 09/26/2018          | 09/26/2018         |

|                               |   |              |   |
|-------------------------------|---|--------------|---|
| <b>Gen. Chemistry (mg/kg)</b> |   |              |   |
| Total Organic Carbon          | - | <b>42000</b> | - |

|   |                |   |                |
|---|----------------|---|----------------|
| <b>PFAS (ng/L)</b>  |                |   |                |
| 6:2 Fluorotelomer sulfonate (6:2 FTS)                     | 22.0 UJ        | - | 17.0 U         |
| 8:2 Fluorotelomer sulfonate (8:2 FTS)                     | 8.70 U         | - | 9.40 U         |
| N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | 8.70 U         | - | 9.40 U         |
| N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA) | 8.70 U         | - | 9.40 U         |
| Perfluorobutanesulfonic acid (PFBS)                       | <b>1.70</b>    | - | <b>1.50 J</b>  |
| Perfluorodecanoic acid (PFDA)                             | <b>0.450 J</b> | - | <b>0.530 J</b> |
| Perfluorododecanoic acid (PFDoA)                          | 1.30 U         | - | 1.40 U         |
| Perfluoroheptanoic acid (PFHpA)                           | <b>5.40</b>    | - | <b>6.40</b>    |
| Perfluorohexanesulfonic acid (PFHxS)                      | <b>5.70</b>    | - | <b>6.40</b>    |
| Perfluorohexanoic acid (PFHxA)                            | <b>8.60</b>    | - | <b>10.0</b>    |
| Perfluorononanoic acid (PFNA)                             | <b>0.860 J</b> | - | <b>0.940 J</b> |
| Perfluorooctanesulfonic acid (PFOS)                       | <b>3.60</b>    | - | <b>3.10 J</b>  |
| Perfluorooctanoic acid (PFOA)                             | <b>9.50</b>    | - | <b>13.0</b>    |
| Perfluorotetradecanoic acid (PFTA)                        | 2.60 U         | - | 2.80 U         |
| Perfluorotridecanoic acid (PFTrDA)                        | 2.60 U         | - | 2.80 U         |
| Perfluoroundecanoic acid (PFUnA)                          | 1.30 U         | - | 1.40 U         |

|   |   |         |   |
|---|---|---------|---|
| <b>PFAS (ug/kg)</b>                                       |   |         |   |
| 6:2 Fluorotelomer sulfonate (6:2 FTS)                     | - | 4.00 U  | - |
| 8:2 Fluorotelomer sulfonate (8:2 FTS)                     | - | 2.00 U  | - |
| N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | - | 2.00 U  | - |
| N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA) | - | 2.00 U  | - |
| Perfluorobutanesulfonic acid (PFBS)                       | - | 0.360 U | - |
| Perfluorodecanoic acid (PFDA)                             | - | 0.400 U | - |
| Perfluorododecanoic acid (PFDoA)                          | - | 0.400 U | - |

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|                                      | Locations: CSB-18-01                 | CSB-18-01          | CSB-18-02           | CSB-18-02          | CSB-18-03           |
|--------------------------------------|--------------------------------------|--------------------|---------------------|--------------------|---------------------|
|                                      | Field Sample ID: CSB-18-01-SED-SEP18 | CSB-18-01-SW-SEP18 | CSB-18-02-SED-SEP18 | CSB-18-02-SW-SEP18 | CSB-18-03-SED-SEP18 |
|                                      | Sample Begin Depth: 0.00             | 0.00               | 0.00                | 0.00               | 0.00                |
|                                      | Sample End Depth: 0.50               | 0.00               | 0.50                | 0.00               | 0.50                |
|                                      | Sample Date: 09/27/2018              | 09/27/2018         | 09/27/2018          | 09/27/2018         | 09/27/2018          |
| Perfluoroheptanoic acid (PFHpA)      | 2.80 U                               | -                  | <b>0.580 J</b>      | -                  | <b>0.920</b>        |
| Perfluorohexanesulfonic acid (PFHxS) | <b>3.80 J</b>                        | -                  | <b>0.550 J</b>      | -                  | <b>2.10</b>         |
| Perfluorohexanoic acid (PFHxA)       | 2.80 U                               | -                  | <b>0.540 J</b>      | -                  | <b>1.10</b>         |
| Perfluorononanoic acid (PFNA)        | 2.80 U                               | -                  | 0.780 U             | -                  | 0.440 U             |
| Perfluorooctanesulfonic acid (PFOS)  | 6.90 U                               | -                  | 1.90 U              | -                  | <b>5.60</b>         |
| Perfluorooctanoic acid (PFOA)        | <b>2.50 J</b>                        | -                  | <b>0.630 J</b>      | -                  | <b>2.40</b>         |
| Perfluorotetradecanoic acid (PFTA)   | 4.20 U                               | -                  | 1.20 U              | -                  | 0.660 U             |
| Perfluorotridecanoic acid (PFTrDA)   | 2.80 U                               | -                  | 0.780 U             | -                  | 0.440 U             |
| Perfluoroundecanoic acid (PFUnA)     | 2.80 U                               | -                  | 0.780 U             | -                  | 0.440 U             |

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|                                      | <b>Locations:</b> CSB-18-03                | CSB-18-04           | CSB-18-04          | CSB-18-05           | CSB-18-05          |
|--------------------------------------|--|---------------------|--------------------|---------------------|--------------------|
|                                      | <b>Field Sample ID:</b> CSB-18-03-SW-SEP18 | CSB-18-04-SED-SEP18 | CSB-18-04-SW-SEP18 | CSB-18-05-SED-SEP18 | CSB-18-05-SW-SEP18 |
|                                      | <b>Sample Begin Depth:</b> 0.00            | 0.00                | 0.00               | 0.00                | 0.00               |
|                                      | <b>Sample End Depth:</b> 0.00              | 0.50                | 0.00               | 0.50                | 0.00               |
|                                      | <b>Sample Date:</b> 09/27/2018             | 09/27/2018          | 09/27/2018         | 09/27/2018          | 09/27/2018         |
| Perfluoroheptanoic acid (PFHpA)      | -  | 0.430 U             | -                  | 0.370 U             | -                  |
| Perfluorohexanesulfonic acid (PFHxS) | -  | 0.430 U             | -                  | 0.370 U             | -                  |
| Perfluorohexanoic acid (PFHxA)       | -  | 0.430 U             | -                  | 0.370 U             | -                  |
| Perfluorononanoic acid (PFNA)        | -  | 0.430 U             | -                  | 0.370 U             | -                  |
| Perfluorooctanesulfonic acid (PFOS)  | -  | 1.10 U              | -                  | 0.940 U             | -                  |
| Perfluorooctanoic acid (PFOA)        | -  | 0.430 U             | -                  | 0.370 U             | -                  |
| Perfluorotetradecanoic acid (PFTA)   | -  | 0.650 U             | -                  | 0.560 U             | -                  |
| Perfluorotridecanoic acid (PFTrDA)   | -  | 0.430 U             | -                  | 0.370 U             | -                  |
| Perfluoroundecanoic acid (PFUnA)     | -  | 0.430 U             | -                  | 0.370 U             | -                  |

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|                                      | Locations: CSB-18-05 (FD) | CSB-18-05 (FD)  | CSB-18-06           | CSB-18-06          | CSB-18-07           |
|--------------------------------------|---------------------------|-----------------|---------------------|--------------------|---------------------|
| <b>Field Sample ID:</b>              | A1-SED-FD-092718          | A1-SW-FD-092718 | CSB-18-06-SED-SEP18 | CSB-18-06-SW-SEP18 | CSB-18-07-SED-SEP18 |
| <b>Sample Begin Depth:</b>           | 0.00                      | 0.00            | 0.00                | 0.00               | 0.00                |
| <b>Sample End Depth:</b>             | 0.50                      | 0.00            | 0.50                | 0.00               | 0.50                |
| <b>Sample Date:</b>                  | 09/27/2018                | 09/27/2018      | 09/27/2018          | 09/27/2018         | 09/26/2018          |
| Perfluoroheptanoic acid (PFHpA)      | 0.400 U                   | -               | <b>0.830 J</b>      | -                  | 0.410 U             |
| Perfluorohexanesulfonic acid (PFHxS) | 0.400 U                   | -               | 0.580 U             | -                  | 0.410 U             |
| Perfluorohexanoic acid (PFHxA)       | 0.400 U                   | -               | <b>1.30</b>         | -                  | 0.410 U             |
| Perfluorononanoic acid (PFNA)        | 0.400 U                   | -               | <b>1.10</b>         | -                  | 0.410 U             |
| Perfluorooctanesulfonic acid (PFOS)  | 1.00 U                    | -               | <b>1.90 J</b>       | -                  | 1.00 U              |
| Perfluorooctanoic acid (PFOA)        | 0.400 U                   | -               | <b>1.70</b>         | -                  | 0.410 U             |
| Perfluorotetradecanoic acid (PFTA)   | 0.600 U                   | -               | 0.860 U             | -                  | 0.610 U             |
| Perfluorotridecanoic acid (PFTrDA)   | 0.400 U                   | -               | 0.580 U             | -                  | 0.410 U             |
| Perfluoroundecanoic acid (PFUnA)     | 0.400 U                   | -               | 0.580 U             | -                  | 0.410 U             |

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|                                      | <b>Locations:</b> CSB-18-07                | CSB-18-08           | CSB-18-08          |
|--------------------------------------|--|---------------------|--------------------|
|                                      | <b>Field Sample ID:</b> CSB-18-07-SW-SEP18 | CSB-18-08-SED-SEP18 | CSB-18-08-SW-SEP18 |
|                                      | <b>Sample Begin Depth:</b> 0.00            | 0.00                | 0.00               |
|                                      | <b>Sample End Depth:</b> 0.00              | 0.00                | 0.00               |
|                                      | <b>Sample Date:</b> 09/26/2018             | 09/26/2018          | 09/26/2018         |
| Perfluoroheptanoic acid (PFHpA)      | -  | 0.400 U             | -                  |
| Perfluorohexanesulfonic acid (PFHxS) | -  | <b>0.150 J</b>      | -                  |
| Perfluorohexanoic acid (PFHxA)       | -  | 0.400 U             | -                  |
| Perfluorononanoic acid (PFNA)        | -  | 0.400 U             | -                  |
| Perfluorooctanesulfonic acid (PFOS)  | -  | 1.00 U              | -                  |
| Perfluorooctanoic acid (PFOA)        | -  | 0.400 U             | -                  |
| Perfluorotetradecanoic acid (PFTA)   | -  | 0.600 U             | -                  |
| Perfluorotridecanoic acid (PFTrDA)   | -  | 0.400 U             | -                  |
| Perfluoroundecanoic acid (PFUnA)     | -  | 0.400 U             | -                  |



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KOMAN, PFAS RI, Surface Water/Sediment-Cold Spring Brook

Cold Spring Brook

|   | Locations: CSB-20-02 | CSB-20-02          | CSB-20-03           | CSB-20-03          | CSB-20-03 (FD) |
|---|----------------------|--------------------|---------------------|--------------------|----------------|
| Field Sample ID:  | CSB-20-02-SED-MAR20  | CSB-20-02-SW-MAR20 | CSB-20-03-SED-MAR20 | CSB-20-03-SW-MAR20 | CSB-SED-FD01   |
| Sample Begin Depth:                                       | 0.00                 | 0.00               | 0.00                | 0.00               | 0.00           |
| Sample End Depth:   | 0.50                 | 0.00               | 0.50                | 0.00               | 0.50           |
| Sample Date:  | 03/27/2020           | 03/27/2020         | 03/26/2020          | 03/26/2020         | 03/26/2020     |
| <b>Gen. Chemistry (mg/kg)</b>                             |                      |                    |                     |                    |                |
| Total Organic Carbon                                      | 120000               | -                  | 150000 J            | -                  | 210000 J       |
| <b>PFAS (ng/L)</b>  |                      |                    |                     |                    |                |
| 6:2 Fluorotelomer sulfonate (6:2 FTS)                     | -                    | 17.0 U             | -                   | 16.0 U             | -              |
| 8:2 Fluorotelomer sulfonate (8:2 FTS)                     | -                    | 8.50 U             | -                   | 8.20 U             | -              |
| N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | -                    | 8.50 U             | -                   | 8.20 U             | -              |
| N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA) | -                    | 8.50 U             | -                   | 8.20 U             | -              |
| Perfluorobutanesulfonic acid (PFBS)                       | -                    | 4.30               | -                   | 3.30               | -              |
| Perfluorodecanoic acid (PFDA)                             | -                    | 0.850 U            | -                   | 0.820 U            | -              |
| Perfluorododecanoic acid (PFDoA)                          | -                    | 1.30 U             | -                   | 1.20 U             | -              |
| Perfluoroheptanoic acid (PFHpA)                           | -                    | 5.30               | -                   | 3.90               | -              |
| Perfluorohexanesulfonic acid (PFHxS)                      | -                    | 110                | -                   | 77.0               | -              |
| Perfluorohexanoic acid (PFHxA)                            | -                    | 16.0               | -                   | 12.0               | -              |
| Perfluorononanoic acid (PFNA)                             | -                    | 0.440 J            | -                   | 1.20 U             | -              |
| Perfluorooctanesulfonic acid (PFOS)                       | -                    | 41.0               | -                   | 33.0               | -              |
| Perfluorooctanoic acid (PFOA)                             | -                    | 28.0               | -                   | 22.0               | -              |
| Perfluorotetradecanoic acid (PFTA)                        | -                    | 2.60 U             | -                   | 2.50 U             | -              |
| Perfluorotridecanoic acid (PFTrDA)                        | -                    | 2.60 U             | -                   | 2.50 U             | -              |
| Perfluoroundecanoic acid (PFUnA)                          | -                    | 1.30 U             | -                   | 1.20 U             | -              |
| <b>PFAS (ug/kg)</b>                                       |                      |                    |                     |                    |                |
| 6:2 Fluorotelomer sulfonate (6:2 FTS)                     | 7.50 U               | -                  | 5.40 U              | -                  | 5.90 U         |
| 8:2 Fluorotelomer sulfonate (8:2 FTS)                     | 3.80 U               | -                  | 2.70 U              | -                  | 2.90 U         |
| N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | 3.80 U               | -                  | 2.70 U              | -                  | 2.90 U         |
| N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA) | 3.80 U               | -                  | 2.70 U              | -                  | 2.90 U         |
| Perfluorobutanesulfonic acid (PFBS)                       | 0.680 U              | -                  | 0.480 U             | -                  | 0.530 U        |
| Perfluorodecanoic acid (PFDA)                             | 0.750 U              | -                  | 0.540 U             | -                  | 0.590 U        |

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|   | Locations: CSB-20-03 (FD) | CSB-20-04           | CSB-20-04          | CSB-20-05           | CSB-20-05          |
|---|---------------------------|---------------------|--------------------|---------------------|--------------------|
| Field Sample ID:  | CSB-SW-FD01               | CSB-20-04-SED-MAR20 | CSB-20-04-SW-MAR20 | CSB-20-05-SED-MAR20 | CSB-20-05-SW-MAR20 |
| Sample Begin Depth:                                       | 0.00                      | 0.00                | 0.00               | 0.00                | 0.00               |
| Sample End Depth:   | 0.00                      | 0.50                | 0.00               | 0.50                | 0.00               |
| Sample Date:  | 03/26/2020                | 03/26/2020          | 03/26/2020         | 03/26/2020          | 03/26/2020         |
| <b>Gen. Chemistry (mg/kg)</b>                             |                           |                     |                    |                     |                    |
| Total Organic Carbon                                      | -                         | <b>4100</b>         | -                  | <b>120000</b>       | -                  |
| <b>PFAS (ng/L)</b>  |                           |                     |                    |                     |                    |
| 6:2 Fluorotelomer sulfonate (6:2 FTS)                     | 16.0 U                    | -                   | 16.0 U             | -                   | 17.0 U             |
| 8:2 Fluorotelomer sulfonate (8:2 FTS)                     | 8.10 U                    | -                   | 8.20 U             | -                   | 8.30 U             |
| N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | 8.10 U                    | -                   | 8.20 U             | -                   | 8.30 U             |
| N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA) | 8.10 U                    | -                   | 8.20 U             | -                   | 8.30 U             |
| Perfluorobutanesulfonic acid (PFBS)                       | <b>3.40</b>               | -                   | <b>11.0</b>        | -                   | <b>8.90</b>        |
| Perfluorodecanoic acid (PFDA)                             | 0.810 U                   | -                   | <b>0.500 J</b>     | -                   | 0.830 U            |
| Perfluorododecanoic acid (PFDoA)                          | 1.20 U                    | -                   | 1.20 U             | -                   | 1.20 U             |
| Perfluoroheptanoic acid (PFHpA)                           | <b>4.30</b>               | -                   | <b>210</b>         | -                   | <b>46.0</b>        |
| Perfluorohexanesulfonic acid (PFHxS)                      | <b>80.0</b>               | -                   | <b>110 J</b>       | -                   | <b>6.60</b>        |
| Perfluorohexanoic acid (PFHxA)                            | <b>11.0</b>               | -                   | <b>140</b>         | -                   | <b>93.0</b>        |
| Perfluorononanoic acid (PFNA)                             | 1.20 U                    | -                   | <b>3.10</b>        | -                   | <b>0.710 J</b>     |
| Perfluorooctanesulfonic acid (PFOS)                       | <b>31.0</b>               | -                   | <b>35.0</b>        | -                   | <b>2.80 J</b>      |
| Perfluorooctanoic acid (PFOA)                             | <b>21.0</b>               | -                   | <b>190</b>         | -                   | <b>80.0</b>        |
| Perfluorotetradecanoic acid (PFTA)                        | 2.40 U                    | -                   | 2.50 U             | -                   | 2.50 U             |
| Perfluorotridecanoic acid (PFTrDA)                        | 2.40 U                    | -                   | 2.50 U             | -                   | 2.50 U             |
| Perfluoroundecanoic acid (PFUnA)                          | 1.20 U                    | -                   | 1.20 U             | -                   | 1.20 U             |
| <b>PFAS (ug/kg)</b>                                       |                           |                     |                    |                     |                    |
| 6:2 Fluorotelomer sulfonate (6:2 FTS)                     | -                         | 2.40 U              | -                  | 6.30 U              | -                  |
| 8:2 Fluorotelomer sulfonate (8:2 FTS)                     | -                         | 1.20 U              | -                  | 3.20 U              | -                  |
| N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | -                         | 1.20 U              | -                  | 3.20 U              | -                  |
| N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA) | -                         | 1.20 U              | -                  | 3.20 U              | -                  |
| Perfluorobutanesulfonic acid (PFBS)                       | -                         | 0.210 U             | -                  | 0.570 U             | -                  |
| Perfluorodecanoic acid (PFDA)                             | -                         | 0.240 U             | -                  | 0.630 U             | -                  |

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|   |                    |
|---|--------------------|
| <b>Locations:</b> CSB-20-06                 | CSB-20-06          |
| <b>Field Sample ID:</b> CSB-20-06-SED-MAR20 | CSB-20-06-SW-MAR20 |
| <b>Sample Begin Depth:</b> 0.00             | 0.00               |
| <b>Sample End Depth:</b> 0.50               | 0.00               |
| <b>Sample Date:</b> 03/26/2020              | 03/26/2020         |

|                               |              |   |
|-------------------------------|--------------|---|
| <b>Gen. Chemistry (mg/kg)</b> |              |   |
| Total Organic Carbon          | <b>12000</b> | - |

|   |   |                |
|---|---|----------------|
| <b>PFAS (ng/L)</b>  |   |                |
| 6:2 Fluorotelomer sulfonate (6:2 FTS)                     | - | 16.0 U         |
| 8:2 Fluorotelomer sulfonate (8:2 FTS)                     | - | 8.20 U         |
| N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | - | 8.20 U         |
| N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA) | - | 8.20 U         |
| Perfluorobutanesulfonic acid (PFBS)                       | - | <b>0.800 J</b> |
| Perfluorodecanoic acid (PFDA)                             | - | <b>0.400 J</b> |
| Perfluorododecanoic acid (PFDoA)                          | - | 1.20 U         |
| Perfluoroheptanoic acid (PFHpA)                           | - | <b>17.0</b>    |
| Perfluorohexanesulfonic acid (PFHxS)                      | - | <b>2.90</b>    |
| Perfluorohexanoic acid (PFHxA)                            | - | <b>16.0</b>    |
| Perfluorononanoic acid (PFNA)                             | - | <b>0.920 J</b> |
| Perfluorooctanesulfonic acid (PFOS)                       | - | <b>4.10</b>    |
| Perfluorooctanoic acid (PFOA)                             | - | <b>26.0</b>    |
| Perfluorotetradecanoic acid (PFTA)                        | - | 2.50 U         |
| Perfluorotridecanoic acid (PFTrDA)                        | - | 2.50 U         |
| Perfluoroundecanoic acid (PFUnA)                          | - | 1.20 U         |

|   |         |   |
|---|---------|---|
| <b>PFAS (ug/kg)</b>                                       |         |   |
| 6:2 Fluorotelomer sulfonate (6:2 FTS)                     | 3.10 U  | - |
| 8:2 Fluorotelomer sulfonate (8:2 FTS)                     | 1.60 U  | - |
| N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | 1.60 U  | - |
| N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA) | 1.60 U  | - |
| Perfluorobutanesulfonic acid (PFBS)                       | 0.280 U | - |
| Perfluorodecanoic acid (PFDA)                             | 0.310 U | - |

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|                                      | <b>Locations:</b> CSB-20-02                 | CSB-20-02          | CSB-20-03           | CSB-20-03          | CSB-20-03 (FD) |
|--------------------------------------|---|--------------------|---------------------|--------------------|----------------|
|                                      | <b>Field Sample ID:</b> CSB-20-02-SED-MAR20 | CSB-20-02-SW-MAR20 | CSB-20-03-SED-MAR20 | CSB-20-03-SW-MAR20 | CSB-SED-FD01   |
|                                      | <b>Sample Begin Depth:</b> 0.00             | 0.00               | 0.00                | 0.00               | 0.00           |
|                                      | <b>Sample End Depth:</b> 0.50               | 0.00               | 0.50                | 0.00               | 0.50           |
|                                      | <b>Sample Date:</b> 03/27/2020              | 03/27/2020         | 03/26/2020          | 03/26/2020         | 03/26/2020     |
| Perfluorododecanoic acid (PFDoA)     | 0.750 U                                     | -                  | 0.540 U             | -                  | 0.590 U        |
| Perfluoroheptanoic acid (PFHpA)      | 0.750 U                                     | -                  | 0.540 U             | -                  | 0.590 U        |
| Perfluorohexanesulfonic acid (PFHxS) | <b>6.30</b>                                 | -                  | 1.80 U              | -                  | 1.70 U         |
| Perfluorohexanoic acid (PFHxA)       | 1.10 U                                      | -                  | 0.540 U             | -                  | 0.590 U        |
| Perfluorononanoic acid (PFNA)        | 0.750 U                                     | -                  | 0.540 U             | -                  | 0.590 U        |
| Perfluorooctanesulfonic acid (PFOS)  | <b>4.40</b>                                 | -                  | 1.30 U              | -                  | 1.50 U         |
| Perfluorooctanoic acid (PFOA)        | <b>1.10</b>                                 | -                  | 0.540 U             | -                  | 0.590 U        |
| Perfluorotetradecanoic acid (PFTA)   | 1.10 U                                      | -                  | 0.800 U             | -                  | 0.880 U        |
| Perfluorotridecanoic acid (PFTrDA)   | 0.750 U                                     | -                  | 0.540 U             | -                  | 0.590 U        |
| Perfluoroundecanoic acid (PFUnA)     | 0.750 U                                     | -                  | 0.540 U             | -                  | 0.590 U        |

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|                                      | Locations: CSB-20-03 (FD) | CSB-20-04           | CSB-20-04          | CSB-20-05           | CSB-20-05          |
|--------------------------------------|---------------------------|---------------------|--------------------|---------------------|--------------------|
| <b>Field Sample ID:</b>              | CSB-SW-FD01               | CSB-20-04-SED-MAR20 | CSB-20-04-SW-MAR20 | CSB-20-05-SED-MAR20 | CSB-20-05-SW-MAR20 |
| <b>Sample Begin Depth:</b>           | 0.00                      | 0.00                | 0.00               | 0.00                | 0.00               |
| <b>Sample End Depth:</b>             | 0.00                      | 0.50                | 0.00               | 0.50                | 0.00               |
| <b>Sample Date:</b>                  | 03/26/2020                | 03/26/2020          | 03/26/2020         | 03/26/2020          | 03/26/2020         |
| Perfluorododecanoic acid (PFDoA)     | -                         | 0.240 U             | -                  | 0.630 U             | -                  |
| Perfluoroheptanoic acid (PFHpA)      | -                         | <b>0.960</b>        | -                  | 0.630 U             | -                  |
| Perfluorohexanesulfonic acid (PFHxS) | -                         | 0.360 U             | -                  | 0.950 U             | -                  |
| Perfluorohexanoic acid (PFHxA)       | -                         | <b>0.620</b>        | -                  | 0.950 U             | -                  |
| Perfluorononanoic acid (PFNA)        | -                         | 0.240 U             | -                  | 0.630 U             | -                  |
| Perfluorooctanesulfonic acid (PFOS)  | -                         | <b>2.20</b>         | -                  | 1.60 U              | -                  |
| Perfluorooctanoic acid (PFOA)        | -                         | <b>0.940</b>        | -                  | <b>0.460 J</b>      | -                  |
| Perfluorotetradecanoic acid (PFTA)   | -                         | 0.360 U             | -                  | 0.950 U             | -                  |
| Perfluorotridecanoic acid (PFTTrDA)  | -                         | 0.240 U             | -                  | 0.630 U             | -                  |
| Perfluoroundecanoic acid (PFUnA)     | -                         | 0.240 U             | -                  | 0.630 U             | -                  |

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|                                      |   |                    |
|--------------------------------------|---|--------------------|
|                                      | <b>Locations:</b> CSB-20-06                 | CSB-20-06          |
|                                      | <b>Field Sample ID:</b> CSB-20-06-SED-MAR20 | CSB-20-06-SW-MAR20 |
|                                      | <b>Sample Begin Depth:</b> 0.00             | 0.00               |
|                                      | <b>Sample End Depth:</b> 0.50               | 0.00               |
|                                      | <b>Sample Date:</b> 03/26/2020              | 03/26/2020         |
| Perfluorododecanoic acid (PFDoA)     | 0.310 U                                     | -                  |
| Perfluoroheptanoic acid (PFHpA)      | 0.310 U                                     | -                  |
| Perfluorohexanesulfonic acid (PFHxS) | 0.310 U                                     | -                  |
| Perfluorohexanoic acid (PFHxA)       | 0.310 U                                     | -                  |
| Perfluorononanoic acid (PFNA)        | 0.310 U                                     | -                  |
| Perfluorooctanesulfonic acid (PFOS)  | <b>0.530 J</b>                              | -                  |
| Perfluorooctanoic acid (PFOA)        | 0.310 U                                     | -                  |
| Perfluorotetradecanoic acid (PFTA)   | 0.470 U                                     | -                  |
| Perfluorotridecanoic acid (PFTTrDA)  | 0.310 U                                     | -                  |
| Perfluoroundecanoic acid (PFUnA)     | 0.310 U                                     | -                  |

## Former Fort Devens, Stage 2B Validation - Electronic and Manual Data Approved Between 9/24/2018 and 5/31/2020

Detects are displayed in bold font

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### Data Qualifier Definitions

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J: The analyte was positively identified, but the associated numerical value is estimated and represents the approximate concentration of the analyte in the sample.  
U: The analyte was not detected above the reported sample quantitation limit.  
UJ: The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate.

### Units

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MG/KG = milligrams per kilogram  
NG/L = nanograms per liter  
PERCENT = percent  
PPT = parts per thousand  
UG/KG = microgram per kilogram  
UG/L = microgram per liter