\\MAHPI-FILE01\Graphics\Projects\259775_NewCasselMW\locationMap-fromEPA.ai

**New Cassel/Hicksville Groundwater Contamination Superfund Site**
**Nassau County, NY**

Figure 1
Site Location Map
March 2020

N

LEGEND:

EXISTING WELL

GROUNDWATER CONTOUR ELEVATION [DASHED WHERE INFERRED]

0 800' 1,600'

SCALE: 1" = 800'

NOTES:

1. GROUNDWATER CONTOURS SHOWN ARE BASED ON GROUNDWATER DEPTH TO WATER MEASUREMENTS COLLECTED BY HDR IN NOVEMBER 2019 AND BEST AVAILABLE ELEVATION DATA FOR EACH WELL.
2. A PUMPING WELL EXISTS NORTH OF OLD COUNTRY ROAD IN THE VICINITY OF FSMW-07B WHICH IS LIKELY INFLUENCING GROUNDWATER ELEVATIONS IN THIS AREA.

HDR

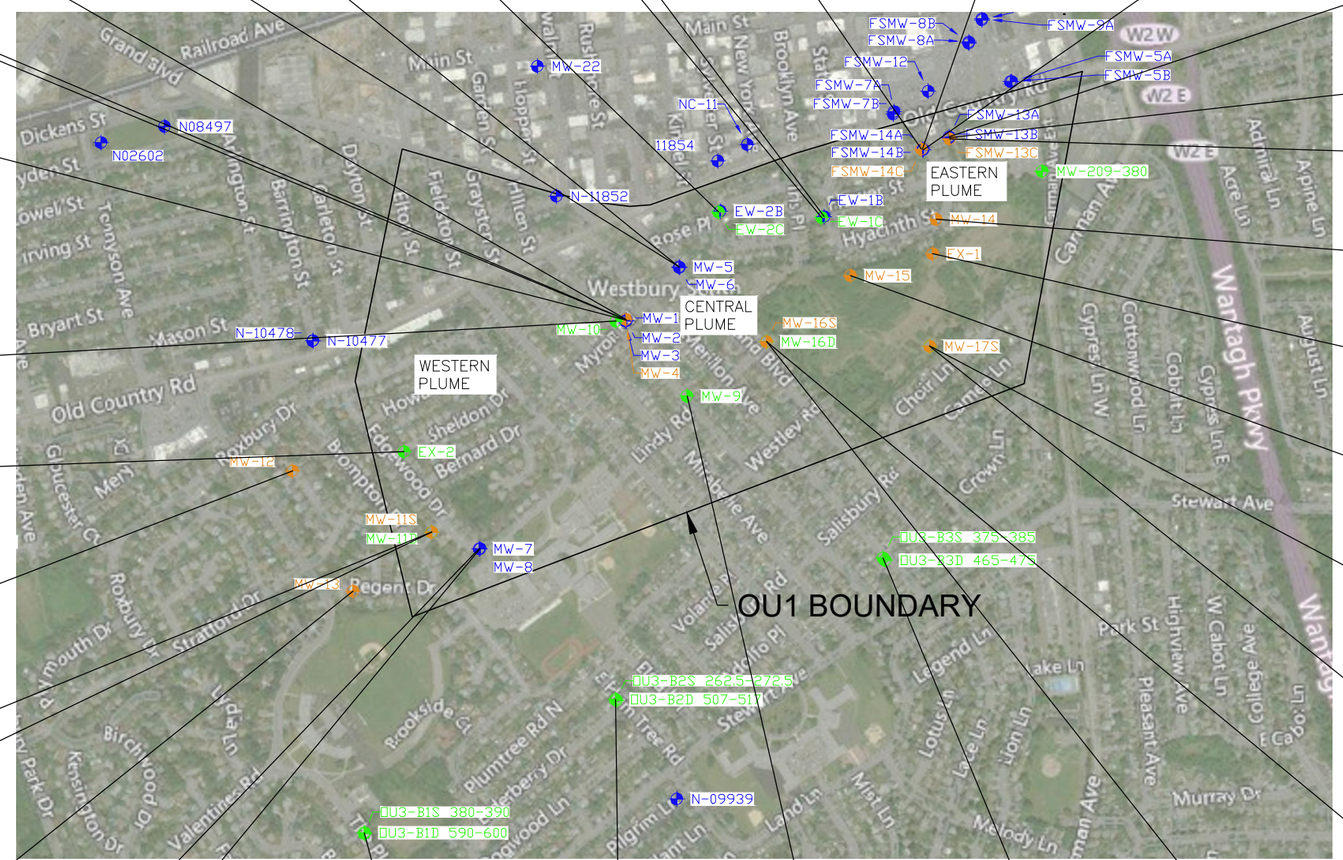
GROUNDWATER CONTOURS

NEW CASSEL HICKSVILLE GROUNDWATER CONTAMINATION OPERABLE UNIT 1 SUPERFUND SITE

DATE 3/2020

FIGURE 2

N




| MW-2 (110-130) | 11/25/19 |
|---|---|
| 1,1,1-TCA | 5.4 |
| 1,1-DCA | 13 |
| 1,1-DCE | 35 |
| CT | ND |
| Chloroform | 1.5 |
| cis-1,2-DCE | 19 |
| PCE | 30 |
| trans-1,2-DCE | 0.23 |
| TCE | 61 |

| MW-6 (110-130) | 4/7/11 | 12/5/19 |
|---|---|---|
| 1,1,1-TCA | 130 | 2.8 |
| 1,1-DCA | 140 | 12 |
| 1,1-DCE | 120 | 27 |
| 1,2-DCA | 1.6 | 0.3 |
| cis-1,2-DCE | 7.8 | 6.5 |
| PCE | 11 | 17 |
| TCE | 77 | 86 |

| MW-5 (90-110) | 12/5/19 |
|---|---|
| 1,1,1-TCA | 0.12 |
| 1,1-DCA | 0.5 |
| 1,1-DCE | ND |
| 1,2-DCA | ND |
| cis-1,2-DCE | 0.12 |
| PCE | 0.68 |
| TCE | 1.3 |

| EW-2B (132-142) | 4/6/11 | 12/3/19 |
|---|---|---|
| 1,1,1-TCA | ND | 0.12 |
| 1,1-DCA | ND | 0.24 |
| 1,1-DCE | ND | ND |
| 1,2-DCA | ND | ND |
| cis-1,2-DCE | 0.72 | 0.8 |
| PCE | 0.62 | 2.7 |
| TCE | 4.1 | 5.9 |

| EW-1B (154-164) | 4/8/11 | 11/26/19 |
|---|---|---|
| 1,1,1-TCA | ND | 0.35 |
| 1,1-DCA | ND | 0.49 |
| 1,1-DCE | ND | 1.7 |
| 1,2-DCA | ND | ND |
| cis-1,2-DCE | ND | 2.2 |
| PCE | 1.9 | 38 |
| TCE | 1.3 | 5.8 |

| EW-1C (206-516) | 4/8/11 | 11/26/19 |
|---|---|---|
| 1,1,1-TCA | ND | ND |
| 1,1-DCA | ND | 0.45 |
| 1,1-DCE | ND | ND |
| 1,2-DCA | ND | ND |
| cis-1,2-DCE | ND | 8.3 |
| PCE | ND | 0.18 |
| TCE | ND | 33 |

| FSMW-14A (119-129) | 1/25/19 | 12/3/19 |
|---|---|---|
| 1,1,1-TCA | ND | ND |
| 1,1-DCA | ND | ND |
| 1,1-DCE | ND | 0.43 |
| 1,2-DCA | ND | ND |
| cis-1,2-DCE | ND | 3.6 |
| PCE | 1200 | 260 |
| TCE | 17 | 8.2 |

| FSMW-14B (159-169) | 1/24/19 | 12/3/19 |
|---|---|---|
| 1,1,1-TCA | ND | ND |
| 1,1-DCA | ND | ND |
| 1,1-DCE | ND | ND |
| 1,2-DCA | ND | ND |
| cis-1,2-DCE | 7.6 | 9.3 |
| PCE | 1100 | 1100 |
| TCE | 38 | 33 |

| FSMW-14C (239-249) | 4/12/11 | 12/2/19 |
|---|---|---|
| 1,1,1-TCA | ND | 1.3 |
| 1,1-DCA | 5.4 | 0.19 |
| 1,1-DCE | 3 | 0.89 |
| 1,2-DCA | ND | ND |
| cis-1,2-DCE | 15 | 3.5 |
| PCE | 5.5 | 5.4 |
| TCE | 66 | 20 |

| FSMW-13A (119-129) | 12/3/19 |
|---|---|
| 1,1,1-TCA | ND |
| 1,1-DCA | ND |
| 1,1-DCE | ND |
| CT | ND |
| Chloroform | ND |
| cis-1,2-DCE | ND |
| PCE | 270 |
| trans-1,2-DCE | 0.4 |
| TCE | 9.2 |

| FSMW-13B (119-129) | 4/11/11 | 12/2/19 |
|---|---|---|
| 1,1,1-TCA | ND | ND |
| 1,1-DCA | ND | ND |
| 1,1-DCE | ND | ND |
| 1,2-DCA | ND | ND |
| cis-1,2-DCE | 5.7 | 0.89 |
| PCE | 260 | 26 |
| TCE | 15 | 1.3 |

| MW-1 (90-110) | 11/25/19 |
|---|---|
| 1,1,1-TCA | 4.1 |
| 1,1-DCA | 9.5 |
| 1,1-DCE | 49 |
| 1,2-DCA | 0.33 |
| cis-1,2-DCE | 54 |
| PCE | 48 |
| TCE | 140 |

| MW-3 (130-150) | 4/5/11 | 1/25/19 | 11/25/19 |
|---|---|---|---|
| 1,1,1-TCA | 4.5 | ND | 2 |
| 1,1-DCA | 31 | 41 | 38 |
| 1,1-DCE | 82 | 120 | 81 |
| 1,2-DCA | 1.1 | ND | 1.2 |
| cis-1,2-DCE | 9.4 | 9.2 J+ | 9.5 |
| PCE | 4 | 17 | 14 |
| TCE | 110 | 200 | 110 |

| MW-4 (180-200) | 4/5/11 | 1/25/19 | 11/25/19 |
|---|---|---|---|
| 1,1,1-TCA | 190 | 17 | 18 |
| 1,1-DCA | 130 | 25 | 31 |
| 1,1-DCE | 600 | 57 | 62 |
| 1,2-DCA | 3.4 | ND | 0.56 |
| cis-1,2-DCE | 20 | 7.5 J+ | 11 |
| PCE | 38 | 20 | 31 |
| TCE | 620 | 71 | 76 |

| MW-10 (275-285) | 4/7/11 | 12/5/19 |
|---|---|---|
| 1,1,1-TCA | 10 | 0.61 |
| 1,1-DCA | 13 | 6.2 |
| 1,1-DCE | 24 | ND |
| 1,2-DCA | ND | ND |
| cis-1,2-DCE | 3.4 | ND |
| PCE | 8.5 | 0.54 |
| TCE | 63 | 1.2 |

| EX-2 (265-285) | 4/12/11 | 1/23/19 | 12/4/19 |
|---|---|---|---|
| 1,1,1-TCA | ND | ND | 0.79 |
| 1,1-DCA | 3.9 | ND | 2.2 |
| 1,1-DCE | 3.4 | 18 | 3.7 |
| CT | ND | ND | ND |
| Chloroform | ND | ND | 0.58 |
| cis-1,2-DCE | 17 | ND | 17 |
| PCE | 130 | 92 | 260 |
| TCE | 140 | 210 | 220 |

| MW-12 (215-225) | 3/31/11 | 12/10/19 |
|---|---|---|
| 1,1,1-TCA | 1.3 | 0.44 |
| 1,1-DCA | 1.1 | 0.56 |
| 1,1-DCE | 1.6 | 1.4 |
| 1,2-DCA | ND | ND |
| cis-1,2-DCE | 4 | 4.1 |
| PCE | 21 | 28 |
| TCE | 19 | 19 |

| MW-11S (215-225) | 4/4/11 | 12/4/19 |
|---|---|---|
| 1,1,1-TCA | 3.8 | 3.6 |
| 1,1-DCA | 7.4 | 4.1 |
| 1,1-DCE | 22 | 18 |
| 1,2-DCA | ND | 0.36 |
| cis-1,2-DCE | 43 | 35 |
| PCE | 140 | 1200 |
| TCE | 190 | 220 |

| MW-11D (275-285) | 4/4/11 | 1/25/19 | 12/4/19 |
|---|---|---|---|
| 1,1,1-TCA | 10 | 6J | 8 |
| 1,1-DCA | 11 | 11 | 15 |
| 1,1-DCE | 26 | 28 | 34 |
| 1,2-DCA | ND | ND | 1.2 |
| cis-1,2-DCE | 110 | 110 | 160 |
| PCE | 460 | 1600 | 1100 |
| TCE | 400 | 610 | 730 |

| MW-13 (205-210) | 4/1/11 | 1/23/19 | 12/4/19 |
|---|---|---|---|
| 1,1,1-TCA | ND | ND | 0.31 |
| 1,1-DCA | 5.2 | ND | 1.8 |
| 1,1-DCE | 2.2 | ND | ND |
| 1,2-DCA | ND | 0.89 | 1.1 |
| cis-1,2-DCE | 1.4 | ND | 0.95 |
| PCE | 3 | ND | 29 |
| TCE | 0.54 | 23 | 2.4 |

| MW-7 (90-110) | 12/6/19 |
|---|---|
| 1,1,1-TCA | ND |
| 1,1-DCA | 0.11 |
| 1,1-DCE | ND |
| 1,2-DCA | ND |
| cis-1,2-DCE | 0.93 |
| PCE | 0.78 |
| TCE | 0.27 |

| MW-8 (120-140) | 4/5/11 | 12/6/19 |
|---|---|---|
| 1,1,1-TCA | ND | ND |
| 1,1-DCA | ND | 0.26 |
| 1,1-DCE | ND | ND |
| 1,2-DCA | ND | ND |
| cis-1,2-DCE | ND | ND |
| PCE | ND | 0.26 |
| TCE | ND | 0.18 |

| OU3-B1S (380-390) | 1/28/19 |
|---|---|
| 1,1,1-TCA | ND |
| 1,1-DCA | 11.0 |
| 1,1-DCE | ND |
| 1,2-DCA | ND |
| cis-1,2-DCE | 9.3 |
| PCE | 14 |
| TCE | 220 |

| OU3-B2S (262.5-272.5) | 1/28/19 |
|---|---|
| 1,1,1-TCA | ND |
| 1,1-DCA | ND |
| 1,1-DCE | ND |
| 1,2-DCA | ND |
| cis-1,2-DCE | ND |
| PCE | ND |
| TCE | 20 |

| MW-9 (305-315) | 4/5/11 | 12/3/19 |
|---|---|---|
| 1,1,1-TCA | ND | 7.5 |
| 1,1-DCA | ND | 3.3 |
| 1,1-DCE | 0.54 | 18 |
| 1,2-DCA | ND | 0.33 |
| cis-1,2-DCE | 0.6 | 12 |
| PCE | ND | 29 |
| TCE | 2.3 | 140 |

| OU3-B3S (375-385) | 1/29/19 |
|---|---|
| 1,1,1-TCA | 13 J |
| 1,1-DCA | ND |
| 1,1-DCE | ND |
| 1,2-DCA | ND |
| cis-1,2-DCE | 390 |
| PCE | 6500 |
| TCE | 530 |

| MW-16D (275-285) | 4/7/11 | 1/23/19 | 12/3/19 |
|---|---|---|---|
| 1,1,1-TCA | 3.1 | 5.1 | 5.6 |
| 1,1-DCA | 3.1 | ND | 4.2 |
| 1,1-DCE | 6.3 | 11 | 18 |
| 1,2-DCA | ND | ND | 0.14 |
| cis-1,2-DCE | 6.1 | 11 | 23 |
| PCE | 2.7 | 20 | 120 |
| TCE | 29 | 29 | 53 |

| MW-16S (215-225) | 4/7/11 | 12/3/19 |
|---|---|---|
| 1,1,1-TCA | ND | ND |
| 1,1-DCA | ND | ND |
| 1,1-DCE | ND | ND |
| 1,2-DCA | ND | ND |
| cis-1,2-DCE | ND | ND |
| PCE | ND | ND |
| TCE | ND | ND |

| MW-14 (185-205) | 4/11/11 | 1/25/19 | 11/26/19 |
|---|---|---|---|
| 1,1,1-TCA | ND | ND | ND |
| 1,1-DCA | ND | ND | ND |
| 1,1-DCE | ND | ND | ND |
| 1,2-DCA | ND | ND | ND |
| cis-1,2-DCE | 24 | ND | ND |
| PCE | 400 | 1000 | 160 |
| TCE | 30 | 32 | 9.9 |

| EX-1 (185-205) | 4/6/11 | 12/10/19 |
|---|---|---|
| 1,1,1-TCA | ND | ND |
| 1,1-DCA | ND | ND |
| 1,1-DCE | ND | ND |
| 1,2-DCA | ND | ND |
| cis-1,2-DCE | 12 | 1 |
| PCE | 300 | 47 |
| TCE | 21 | 2.5 |

| MW-15 (185-205) | 4/11/11 | 12/9/19 |
|---|---|---|
| 1,1,1-TCA | ND | ND |
| 1,1-DCA | ND | ND |
| 1,1-DCE | ND | ND |
| 1,2-DCA | ND | ND |
| cis-1,2-DCE | ND | ND |
| PCE | ND | 0.62 |
| TCE | ND | ND |

| MW-17S (215-225) | 4/8/11 | 12/9/19 |
|---|---|---|
| 1,1,1-TCA | ND | ND |
| 1,1-DCA | ND | ND |
| 1,1-DCE | ND | ND |
| 1,2-DCA | ND | ND |
| cis-1,2-DCE | ND | ND |
| PCE | ND | 0.9 |
| TCE | ND | ND |

| MW-17D (275-285) | 4/8/11 | 1/23/19 | 12/9/19 |
|---|---|---|---|
| 1,1,1-TCA | 34 | 6.5 | ND |
| 1,1-DCA | 11 | ND | ND |
| 1,1-DCE | 1.5 | 27 | ND |
| 1,2-DCA | ND | ND | ND |
| cis-1,2-DCE | 830 | 610 | 950 |
| PCE | 610 | 980 | 7000 |
| TCE | 740 | 360 | 900 |

LEGEND:

- SHALLOW WELL (<175 FT BGS)
- INTERMEDIATE WELL (175–250 FT BGS)
- DEEP WELL (>250 FT BGS)

ACRONYMS:

1,1,1–TCA – 1,1,1–Trichloroethane
1,1,2,2,–TTCA – 1,1,2,2–Tetrachloroethane
1,1,2–TCA – 1,1,2–Trichloroethane
1,1,2–TCTFA – 1,1,2–Trichlorotrifluoroethane
1,1–DCA – 1,1–Dichloroethane
1,1–DCE – 1,1–Dichloroethene
EDB – 1,2–Dibromoethane
1,2–DCA – 1,2–Dichloroethane
CT – Carbon Tetrachloride
CIS–1,2–DCE – cis–1,2–Dichloroethene
DCDFMA – Dichlorodifluoromethane
MC – Methylene Chloride
PCE – Tetrachloroethene
TRANS–1,2–DCE – trans–1,2–Dichloroethene
TCE – Trichloroethene
TCFMA – Trichlorofluoromethane

NOTES:

1. CONTAMINANTS SHOWN ARE ONLY CONTAMINANTS OF CONCERN. OTHER CONTAMINANTS NOT SPECIFICALLY IDENTIFIED AS CONTAMINANTS OF CONCERN MAY HAVE BEEN DETECTED ABOVE REGULATORY LIMITS BUT ARE NOT SHOWN ON THIS FIGURE.
2. SAMPLE RESULTS ARE SHOWN IN MICROGRAMS PER LITER (UG/L).

0 1,000' 2,000'

HDR

GROUNDWATER CHEMICAL SUMMARY
CONTAMINANTS OF CONCERN

NEW CASSEL HICKSVILLE GROUNDWATER CONTAMINATION
OPERABLE UNIT 1 SUPERFUND SITE

DATE 3/2020

FIGURE 3

# TABLES

DRAFT

**Table 1**
**Summary of Wells Proposed for Gauging**

| Well ID | Location / Well Condition Summary |
|---|---|
| EW-1B | In the middle of the Flower Street between Hyacinth St and Iris Place |
| EW-1C | |
| EW-2B | On the Road in front of 2531 and 2535 Astor Place. EW-2C was heavily corroded and could not be opened. |
| EW-2C | |
| OU3-B1S 380-390 | Between Road and Sidewalk |
| OU3-B2S 262.5-272.5 | In the Road |
| OU3-B3S 375-385 | In front of the house on the road |
| N-08984 | Could not locate |
| N-09938 | Manhole labeled as water, In front of Building 1 |
| N-10292 | Could not locate |
| N-10319 | Located inside Fence. |
| N-10324 | Could not locate |
| N-10466 | Could not locate |
| N-10475 | Could not locate |
| N-10476 | Could not locate |
| N-10328 (NC-11) | Next to the one way sign. Shallow well was marked |
| N-10477 | Almost under the road sign of Old Country Rd and Barrington St. |
| N-10478 | |
| EX-1 | No comment. Well found and measurement collected. |
| EX-2 | In the Road on Sheldon Dr |
| MW-01 | Cross Section of Bowling green and Myron next to stop sign opposite 2436 Myron Rd |
| MW-02 | Cross Section of Bowling green and Myron next to stop sign opposite 2436 Myron Rd |
| MW-03 | Cross Section of Bowling green and Myron next to stop sign opposite 2436 Myron Rd |
| MW-04 | Cross Section of Bowling green and Myron next to stop sign opposite 2436 Myron Rd |
| MW-05 | On grant Blvd in front of 1052 grand blvd in the grass next to the tree |
| MW-06 | On grant Blvd in front of 1052 grand blvd in the grass next to the tree |
| MW-07 | Front of school parking lot between sidewalk and road on edgewood drive |
| MW-08 | Front of school parking lot between sidewalk and road on edgewood drive |
| MW-09 | In front of 988 Bowling green on the sidewalk |
| MW-10 | On the road in front of 1054 Bowling green |
| MW-11D | Opposite the rusted basketball Hoop |
| MW-11S | Opposite the rusted basketball Hoop |
| MW-12 | In between 925 and 931 Stanford Court |
| MW-13 | No comment. Well found and measurement collected. |

**Table 1**
**Summary of Wells Proposed for Gauging**

| Well ID | Location / Well Condition Summary |
|---|---|
| MW-14 | In front of 2685 Hyacinth st on the road |
| MW-15 | Behind the Red shed |
| MW-16D | No comment. Well found and measurement collected. |
| MW-16S | No comment. Well found and measurement collected. |
| MW-17D | No comment. Well found and measurement collected. |
| MW-17S | No comment. Well found and measurement collected. |
| FSMW-03B | In the parking lot, after 3 light poles from frost street |
| FSMW-05B | on the entrace road of toyota car dealership |
| FSMW-07B | located in front of valley national bank, in a parking spot |
| FSMW-13A | No comment. Well found and measurement collected. |
| FSMW-13B | No comment. Well found and measurement collected. |
| FSMW-13C | No comment. Well found and measurement collected. |
| FSMW-14A | On the cruve of Hyacinth st between 2727 and 2726 Hyacinth St |
| FSMW-14B | On the cruve of Hyacinth st between 2727 and 2726 Hyacinth St |
| FSMW-14C | On the cruve of Hyacinth st between 2727 and 2726 Hyacinth St |
| N-11843 | Manhole says water |
| N-11848 | No comment. Well found and measurement collected. |
| N-11849 | No comment. Well found and measurement collected. |
| N-11850 | No comment. Well found and measurement collected. |
| N-11851 | No comment. Well found and measurement collected. |
| N-11852 | No comment. Well found and measurement collected. |
| N-11854 | May have been covered over. |
| N-11858 | No comment. Well found and measurement collected. |
| N-11859 | No comment. Well found and measurement collected. |
| N-11861 | Could not locate |
| N-11862 | Lid stuck could not open. Well labeled as water. |
| N-02602 | No comment. Well found and measurement collected. |
| N-08497 | No comment. Well found and measurement collected. |

**Table 2**
**Summary of Depth to Water Measurements**

| Well ID | Easting (NAD83) | Northing (NAD83) | Well Depth (feet) | Depth to Water (Feet) | Screen Depth (Feet) | | Measuring Point Elevation (feet) | Groundwater Elevation (amsl) | Comments |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | Top | Bottom | | | |
| EW-1B | 1106606.83 | 214139.02 | 164 | 41.73 | 154 | 164 | 113.84 | 72.11 | Location and elevation from OU1 RD Pre-Design Work Plan |
| EW-1C | 1106591.29 | 214133.38 | 516 | 41.89 | 506 | 516 | 113.99 | 72.1 | Location and elevation from OU1 RD Pre-Design Work Plan |
| EW-2B | 1105922.15 | 214176.02 | 142 | 42.43 | 132 | 142 | 114.88 | 72.45 | Location and elevation from OU1 RD Pre-Design Work Plan |
| EX-1 | 1107322.85 | 213894.38 | 205 | 35.49 | 185 | 205 | 107.71 | 72.22 | Location and elevation from OU1 RD Pre-Design Work Plan |
| EX-2 | 1103835.27 | 212587.22 | 285 | 35.87 | 265 | 285 | 105.47 | 69.6 | Location and elevation from OU1 RD Pre-Design Work Plan |
| FSMW-03B | 1107776.14 | 215785.17 | 143 | 51.6 | 135 | 145 | 126.23 | 74.63 | Location and elevation from 2019 Groundwater Monitoring for Frost Street Sites |
| FSMW-05B | 1107837.77 | 215030.61 | 137 | 44.02 | 130 | 140 | 117.99 | 73.97 | Location and elevation from 2019 Groundwater Monitoring for Frost Street Sites |
| FSMW-07B | 1107063.15 | 214816.77 | 145 | 48.13 | 136 | 146 | 121.44 | 73.31 | Location and elevation from 2019 Groundwater Monitoring for Frost Street Sites |
| FSMW-13A | 1107432.23 | 214665.46 | 79 | 44.81 | 69 | 79 | 118 | 73.19 | Location and elevation from 2019 Groundwater Monitoring for Frost Street Sites |
| FSMW-13B | 1107433.80 | 214659.28 | 129 | 44.75 | 119 | 129 | 117.94 | 73.19 | Location and elevation from 2019 Groundwater Monitoring for Frost Street Sites |
| FSMW-13C | 1107436.15 | 214651.61 | 249 | 44.83 | 239 | 249 | 117.81 | 72.98 | Location and elevation from 2019 Groundwater Monitoring for Frost Street Sites |
| FSMW-14A | 1107262.83 | 214580.13 | 129 | 44.04 | 119 | 129 | 117.16 | 73.12 | Location and elevation from 2019 Groundwater Monitoring for Frost Street Sites |
| FSMW-14B | 1107256.69 | 214582.56 | 169 | 44.4 | 159 | 169 | 117.36 | 72.96 | Location and elevation from 2019 Groundwater Monitoring for Frost Street Sites |
| FSMW-14C | 1107249.01 | 214584.35 | 249 | 44.2 | 239 | 110 | 117.19 | 72.99 | Location and elevation from 2019 Groundwater Monitoring for Frost Street Sites |
| MW-01 | 1105300.86 | 213450.19 | 110 | 42.15 | 90 | 130 | 113.67 | 71.52 | Location and elevation from OU1 RD Pre-Design Work Plan |
| MW-02 | 1105304.62 | 213453.60 | 130 | 42.19 | 110 | 150 | 113.69 | 71.5 | Location and elevation from OU1 RD Pre-Design Work Plan |
| MW-03 | 1105296.00 | 213451.20 | 150 | 42.1 | 130 | 200 | 113.67 | 71.57 | Location and elevation from OU1 RD Pre-Design Work Plan |
| MW-04 | 1105299.00 | 213460.70 | 200 | 42.42 | 180 | 110 | 113.76 | 71.34 | Location and elevation from OU1 RD Pre-Design Work Plan |
| MW-05 | 1105650.97 | 213806.40 | 110 | 43.73 | 90 | 130 | 115.64 | 71.91 | Location and elevation from OU1 RD Pre-Design Work Plan |
| MW-06 | 1105653.58 | 213802.99 | 130 | 43.78 | 110 | 110 | 115.7 | 71.92 | Location and elevation from OU1 RD Pre-Design Work Plan |
| MW-07 | 1104331.50 | 211946.79 | 110 | 36.72 | 90 | 140 | 105.92 | 69.2 | Location and elevation from OU1 RD Pre-Design Work Plan |
| MW-08 | 1104337.36 | 211947.25 | 140 | 36.84 | 120 | 315 | 105.85 | 69.01 | Location and elevation from OU1 RD Pre-Design Work Plan |
| MW-09 | 1105703.40 | 212954.47 | 315 | 39.31 | 310 | 285 | 109.94 | 70.63 | Location and elevation from OU1 RD Pre-Design Work Plan |
| MW-10 | 1105233.35 | 213449.23 | 285 | 41.93 | 275 | 285 | 113.05 | 71.12 | Location and elevation from OU1 RD Pre-Design Work Plan |
| MW-11D | 1104018.49 | 212056.64 | 285 | 38.13 | 275 | 285 | 106.96 | 68.83 | Location and elevation from OU1 RD Pre-Design Work Plan |
| MW-11S | 1104018.49 | 212056.64 | 225 | 37.99 | 215 | 225 | 106.96 | 68.97 | Location and elevation from OU1 RD Pre-Design Work Plan |
| MW-12 | 1103100.39 | 212461.12 | 225 | 35.6 | 215 | 225 | 104.7 | 69.1 | Location and elevation from OU1 RD Pre-Design Work Plan |
| MW-13 | 1103498.73 | 211667.02 | 210 | 36.98 | 200 | 210 | 105.26 | 68.28 | Location and elevation from OU1 RD Pre-Design Work Plan |
| MW-14 | 1107347.51 | 214120.66 | 205 | 39.36 | 185 | 205 | 111.85 | 72.49 | Location and elevation from OU1 RD Pre-Design Work Plan |
| MW-15 | 1106780.90 | 213749.98 | 205 | 39.07 | 185 | 205 | 111.03 | 71.96 | Location and elevation from OU1 RD Pre-Design Work Plan |
| MW-16D | 1106226.97 | 213313.45 | 285 | 37.83 | 275 | 285 | 109.07 | 71.24 | Location and elevation from OU1 RD Pre-Design Work Plan |
| MW-16S | 1106226.97 | 213313.45 | 225 | 37.7 | 215 | 225 | 109.04 | 71.34 | Location and elevation from OU1 RD Pre-Design Work Plan |
| MW-17D | 1107304.77 | 213282.84 | 285 | 42.55 | 215 | 285 | 113.87 | 71.32 | Location and elevation from OU1 RD Pre-Design Work Plan |
| MW-17S | 1107304.77 | 213282.84 | 225 | 42.48 | 275 | 225 | 113.9 | 71.42 | Location and elevation from OU1 RD Pre-Design Work Plan |
| N-02602 | 1101837.59 | 214627.43 | 805 | 63 | unknown | unknown | 114.88 | 51.875 | Location and elevation from USGS website |
| N-08497 | 1101884.37 | 214665.22 | 539 | 50 | unknown | unknown | 114.88 | 64.875 | Location and elevation from USGS website |
| N-09938 | 1106265.87 | 215612.61 | 79.6 | 48.95 | unknown | unknown | 123.88 | 74.925 | Location and elevation from USGS website |
| N-10319 | 1104729.89 | 215083.96 | 57 | 47.09 | unknown | unknown | 120.88 | 73.785 | Location and elevation from USGS website |
| N-10328 (NC-11) | 1106100.66 | 214615.14 | 58 | 43.84 | unknown | unknown | 118.23 | 74.39 | Location and elevation from USGS website |
| N-10478 | 1103353.06 | 213356.73 | 121 | 39.88 | 101 | 121 | 110.88 | 70.995 | Location and elevation from USGS website |
| N-11843 | 1104805.85 | 215286.76 | 55 | 46.93 | unknown | unknown | 120.88 | 73.945 | Location and elevation from USGS website |
| N-11851 | 1104810.85 | 214274.73 | 65 | 45.06 | unknown | unknown | 117.88 | 72.815 | Location and elevation from USGS website |
| N-11859 | 1104351.59 | 213766.46 | 60 | 42.44 | unknown | unknown | 114.88 | 72.435 | Location and elevation from USGS website |
| OU3-B1S | 1103576.80 | 210067.48 | 390 | 21.73 | 380 | 390 | 87.25 | 65.52 | Location and elevation from EPA OU3 investigation data |
| OU3-B2S | 1105237.59 | 210946.78 | 272.5 | 32.39 | 262.5 | 272.5 | 100.17 | 67.78 | Location and elevation from EPA OU3 investigation data |
| OU3-B3S | 1106996.37 | 211886.03 | 385 | 39.8 | 375 | 385 | 109.30 | 69.5 | Location and elevation from EPA OU3 investigation data |

**Table 3**
**Groundwater Sampling Results**

| | | Location ID | EW-1B | | EW-1C | | EW-2B | | EX-1 | | EX-2 | | FSMW-13B | | FSMW-13C | | FSMW-13C | | FSMW-14C | | MW-1 | | MW-10 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sample ID | EW-1B-20191126 | | EW-1C-20191126 | | EW-2B-20191203 | | EX-1-20191210 | | EX-2-20191204 | | FSMW-13B-20191202 | | FSMW-13C-20191202 | | FSMW-13C-20191202-1 | | FSMW-14C-20191202 | | MW-1-20191125 | | MW-10-20191205 | |
| | | Sample Date | 11/26/2019 | | 11/26/2019 | | 12/3/2019 | | 12/10/2019 | | 12/4/2019 | | 12/2/2019 | | 12/2/2019 | | 12/2/2019 | | 12/2/2019 | | 11/25/2019 | | 12/5/2019 | |
| | | Sample Type | N | | N | | N | | N | | N | | N | | N | | FD | | N | | N | | N | |
| **Analyte** | **Cas No.** | **NYSDEC GW Criteria (ug/l)** | **Result (ug/l)** | **Qual.** | **Result (ug/l)** | **Qual.** | **Result (ug/l)** | **Qual.** | **Result (ug/l)** | **Qual.** | **Result (ug/l)** | **Qual.** | **Result (ug/l)** | **Qual.** | **Result (ug/l)** | **Qual.** | **Result (ug/l)** | **Qual.** | **Result (ug/l)** | **Qual.** | **Result (ug/l)** | **Qual.** | **Result (ug/l)** | **Qual.** |
| 1,1,1-Trichloroethane | 71-55-6 | **5** | 0.35 | J | 0.5 | U | 0.12 | J | 0.5 | U | 0.79 | | 0.5 | U | 1.3 | | 1.3 | | 0.17 | J | 4.1 | | 0.61 | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 5 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1 | **5** | 0.5 | U | 0.5 | U | 0.88 | | 0.5 | U | 0.39 | J | 0.5 | U | 0.97 | | 0.95 | | 0.5 | U | 0.87 | | 0.5 | U |
| 1,1,2-Trichloroethane | 79-00-5 | 1 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.28 | J | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.3 | J | 0.5 | U |
| 1,1-Dichloroethane | 75-34-3 | **5** | 0.49 | J | 0.45 | J | 0.24 | J | 0.5 | U | 2.2 | | 0.5 | U | 0.91 | | 0.9 | | 0.19 | J | **9.5** | | **6.2** | |
| 1,1-Dichloroethene | 75-35-4 | **5** | 1.7 | | 0.5 | UJ | 0.5 | U | 0.5 | U | 3.7 | | 0.5 | U | **10** | | **9.9** | | 0.89 | | **49** | | 0.5 | U |
| 1,2,3-Trichlorobenzene | 87-61-6 | 5 | 0.5 | U | 0.5 | U | 0.5 | UJ | 0.5 | U | 0.5 | U | 0.5 | UJ | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,2,4-Trichlorobenzene | 120-82-1 | 5 | 0.5 | U | 0.5 | U | 0.5 | UJ | 0.5 | U | 0.5 | U | 0.5 | UJ | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,2-Dibromo-3-Chloropropane | 96-12-8 | 0.04 | 0.5 | U | 0.5 | U | 0.5 | UJ | 0.5 | U | 0.5 | U | 0.5 | UJ | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,2-Dibromoethane | 106-93-4 | **0.0006** | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,2-Dichlorobenzene | 95-50-1 | 3 | 0.5 | U | 0.5 | U | 0.5 | UJ | 0.5 | U | 0.11 | J | 0.5 | UJ | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,2-Dichloroethane | 107-06-2 | **0.6** | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.33 | J | 0.5 | U |
| 1,2-Dichloropropane | 78-87-5 | 1 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,3-Dichlorobenzene | 541-73-1 | 3 | 0.5 | U | 0.5 | U | 0.5 | UJ | 0.5 | U | 0.5 | U | 0.5 | UJ | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,4-Dichlorobenzene | 106-46-7 | 3 | 0.5 | U | 0.5 | U | 0.5 | UJ | 0.5 | U | 0.12 | J | 0.5 | UJ | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 2-Butanone | 78-93-3 | 50 | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U |
| 2-Hexanone | 591-78-6 | 50 | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U |
| 4-Methyl-2-Pentanone | 108-10-1 | | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U |
| Acetone | 67-64-1 | 50 | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U |
| Benzene | 71-43-2 | **1** | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.17 | J | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Bromochloromethane | 74-97-5 | 5 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Bromodichloromethane | 75-27-4 | 50 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Bromoform | 75-25-2 | 50 | 0.5 | U | 0.5 | U | 0.5 | UJ | 0.5 | U | 0.5 | U | 0.5 | UJ | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Bromomethane | 74-83-9 | 5 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Carbon Disulfide | 75-15-0 | 60 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.07 | J |
| Carbon Tetrachloride | 56-23-5 | 5 | 0.5 | U | 0.29 | J | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 4.4 | | 4.3 | | 0.95 | | 0.23 | J | 0.5 | U |
| Chlorobenzene | 108-90-7 | 5 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.12 | J | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Chloroethane | 75-00-3 | 5 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Chloroform | 67-66-3 | **7** | 0.87 | | 0.5 | U | 0.55 | | 0.5 | U | 0.58 | | 0.5 | U | 6.2 | | 6.2 | | 0.91 | | 2.1 | J | 0.5 | U |
| Chloromethane | 74-87-3 | 5 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.11 | J | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| cis-1,2-Dichloroethylene | 156-59-2 | **5** | 2.2 | | **8.3** | **J-** | 0.8 | | 1 | | **17** | | 0.69 | | **34** | | **32** | | 3.5 | | **54** | | 0.5 | U |
| cis-1,3-Dichloropropene | 10061-01-5 | | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Cyclohexane | 110-82-7 | | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Dibromochloromethane | 124-48-1 | 50 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Dichlorodifluoromethane | 75-71-8 | 5 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Ethylbenzene | 100-41-4 | 5 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Isopropylbenzene | 98-82-8 | 5 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| M, P Xylenes | 179601-23-1 | | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Methyl Acetate | 79-20-9 | | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Methyl tert-Butyl Ether | 1634-04-4 | 10 | 0.21 | J | 0.5 | U | 0.5 | U | 0.5 | U | 2.6 | | 0.5 | U | 1.2 | | 1.2 | | 0.19 | J | 0.56 | | 0.5 | U |
| Methylcyclohexane | 108-87-2 | | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Methylene Chloride | 75-09-2 | 5 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| o-Xylene | 95-47-6 | 5 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.11 | J | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Styrene | 100-42-5 | 5 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Tetrachloroethylene(PCE) | 127-18-4 | **5** | **38** | | 0.18 | J | 2.7 | | **47** | | **260** | | **26** | | **45** | | **44** | | **5.4** | | **48** | | 0.54 | |
| Toluene | 108-88-3 | 5 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| trans-1,2-Dichloroethene | 156-60-5 | 5 | 0.5 | U | 0.5 | UJ | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.26 | J | 0.23 | J | 0.5 | U | 0.25 | J+ | 0.5 | U |
| trans-1,3-Dichloropropene | 10061-02-6 | | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Trichloroethene (TCE) | 79-01-6 | **5** | **5.8** | | **33** | | **5.9** | | 2.5 | | **220** | | 1.3 | | **200** | | **190** | | **20** | | **140** | | 1.2 | |
| Trichlorofluoromethane | 75-69-4 | **5** | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.18 | J | 0.5 | U | 0.12 | J | 0.12 | J | 0.5 | U | 0.5 | U | 0.5 | U |
| Vinyl Chloride | 75-01-4 | 2 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |

Notes:
Greater than the NYS Groundwater Quality Standard
U - Nondetect
J - Estimated
J+ - potential bias high
J- - potential bias low
FD - field duplicate
N - normal

**Table 3**
**Groundwater Sampling Results**

| | | Location ID | MW-11D | | MW-11S | | MW-12 | | MW-13 | | MW-14 | | MW-15 | | MW-15 | | MW-16D | | MW-16S | | MW-17D | | MW-17S | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sample ID | MW-11D-20191204 | | MW-11S-20191204 | | MW-12-20191210 | | MW-13-20191204 | | MW-14-20191126 | | MW-15-20191209 | | MW-15-20191209-1 | | MW-16D-20191203 | | MW-16S-20191203 | | MW-17D-20191209 | | MW-17S-20191209 | |
| | | Sample Date | 12/4/2019 | | 12/4/2019 | | 12/10/2019 | | 12/4/2019 | | 11/26/2019 | | 12/9/2019 | | 12/9/2019 | | 12/3/2019 | | 12/3/2019 | | 12/9/2019 | | 12/9/2019 | |
| | | Sample Type | N | | N | | N | | N | | N | | N | | FD | | N | | N | | N | | N | |
| **Analyte** | **Cas No.** | **NYSDEC GW Criteria (ug/l)** | **Result (ug/l)** | **Qual.** | **Result (ug/l)** | **Qual.** | **Result (ug/l)** | **Qual.** | **Result (ug/l)** | **Qual.** | **Result (ug/l)** | **Qual.** | **Result (ug/l)** | **Qual.** | **Result (ug/l)** | **Qual.** | **Result (ug/l)** | **Qual.** | **Result (ug/l)** | **Qual.** | **Result (ug/l)** | **Qual.** | **Result (ug/l)** | **Qual.** |
| 1,1,1-Trichloroethane | 71-55-6 | **5** | **8** | | 3.6 | | 0.44 | J | 0.31 | J | 5 | U | 0.5 | U | 0.5 | U | **5.6** | | 0.5 | U | 200 | U | 0.5 | U |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 5 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 200 | U | 0.5 | U |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1 | **5** | **15** | | **9.5** | | 0.5 | U | 0.15 | J | 5 | U | 0.5 | U | 0.5 | U | 1.8 | | 0.5 | U | 200 | U | 0.5 | U |
| 1,1,2-Trichloroethane | 79-00-5 | 1 | 0.97 | | 0.78 | | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 200 | U | 0.5 | U |
| 1,1-Dichloroethane | 75-34-3 | **5** | **15** | | 4.1 | | 0.56 | | 1.8 | | 5 | U | 0.5 | U | 0.5 | U | 4.2 | | 0.5 | U | 200 | U | 0.5 | U |
| 1,1-Dichloroethene | 75-35-4 | **5** | **34** | | **21** | **J+** | 1.4 | | 0.5 | U | 5 | U | 0.5 | U | 0.5 | U | **18** | **J+** | 0.5 | U | 200 | U | 0.5 | U |
| 1,2,3-Trichlorobenzene | 87-61-6 | 5 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | UJ | 200 | U | 0.5 | U |
| 1,2,4-Trichlorobenzene | 120-82-1 | 5 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | UJ | 200 | U | 0.5 | U |
| 1,2-Dibromo-3-Chloropropane | 96-12-8 | 0.04 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | UJ | 200 | U | 0.5 | U |
| 1,2-Dibromoethane | 106-93-4 | **0.0006** | 0.5 | U | 0.5 | U | 0.5 | U | **0.19** | **J** | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 200 | U | 0.5 | U |
| 1,2-Dichlorobenzene | 95-50-1 | 3 | 0.26 | J | 0.1 | J | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | UJ | 200 | U | 0.5 | U |
| 1,2-Dichloroethane | 107-06-2 | **0.6** | **1.2** | | 0.36 | J | 0.5 | U | **1.1** | | 5 | U | 0.5 | U | 0.5 | U | 0.14 | J | 0.5 | U | 200 | U | 0.5 | U |
| 1,2-Dichloropropane | 78-87-5 | 1 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 200 | U | 0.5 | U |
| 1,3-Dichlorobenzene | 541-73-1 | 3 | 0.5 | U | 0.06 | J | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | UJ | 200 | U | 0.5 | U |
| 1,4-Dichlorobenzene | 106-46-7 | 3 | 0.55 | | 0.12 | J | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | UJ | 200 | U | 0.5 | U |
| 2-Butanone | 78-93-3 | 50 | 5 | U | 5 | U | 5 | U | 5 | U | 50 | U | 5 | U | 5 | U | 5 | U | 5 | U | 2000 | U | 5 | U |
| 2-Hexanone | 591-78-6 | 50 | 5 | U | 5 | U | 5 | U | 5 | U | 50 | U | 5 | U | 5 | U | 5 | U | 5 | U | 2000 | U | 5 | U |
| 4-Methyl-2-Pentanone | 108-10-1 | | 5 | U | 5 | U | 5 | U | 5 | U | 50 | U | 5 | U | 5 | U | 5 | U | 5 | U | 2000 | U | 5 | U |
| Acetone | 67-64-1 | 50 | 5 | U | 5 | U | 5 | U | 5 | U | 50 | U | 5 | U | 5 | U | 5 | U | 5 | U | 2000 | U | 5 | U |
| Benzene | 71-43-2 | **1** | **4.1** | | 0.18 | J | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 200 | U | 0.5 | U |
| Bromochloromethane | 74-97-5 | 5 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 200 | U | 0.5 | U |
| Bromodichloromethane | 75-27-4 | 50 | 0.06 | J | 0.5 | U | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 200 | U | 0.5 | U |
| Bromoform | 75-25-2 | 50 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | UJ | 200 | U | 0.5 | U |
| Bromomethane | 74-83-9 | 5 | 0.5 | U | 0.11 | J | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 200 | U | 0.5 | U |
| Carbon Disulfide | 75-15-0 | 60 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 200 | U | 0.5 | U |
| Carbon Tetrachloride | 56-23-5 | 5 | 1.3 | | 0.12 | J | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 200 | U | 0.5 | U |
| Chlorobenzene | 108-90-7 | 5 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 200 | U | 0.5 | U |
| Chloroethane | 75-00-3 | 5 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 200 | U | 0.5 | U |
| Chloroform | 67-66-3 | **7** | **7.2** | | 0.95 | | 0.5 | U | 0.93 | | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.61 | | 200 | U | 0.5 | U |
| Chloromethane | 74-87-3 | 5 | 0.16 | J | 0.24 | J | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 200 | U | 0.5 | U |
| cis-1,2-Dichloroethylene | 156-59-2 | **5** | **160** | | **35** | | 4.1 | | 0.95 | | 5 | U | 0.5 | U | 0.5 | U | **23** | | 0.5 | U | **950** | | 0.5 | U |
| cis-1,3-Dichloropropene | 10061-01-5 | | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 200 | U | 0.5 | U |
| Cyclohexane | 110-82-7 | | 0.14 | J | 0.5 | U | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 200 | U | 0.5 | U |
| Dibromochloromethane | 124-48-1 | 50 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 200 | U | 0.5 | U |
| Dichlorodifluoromethane | 75-71-8 | 5 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 200 | U | 0.5 | U |
| Ethylbenzene | 100-41-4 | 5 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 200 | U | 0.5 | U |
| Isopropylbenzene | 98-82-8 | 5 | 0.13 | J | 0.5 | U | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 200 | U | 0.5 | U |
| M, P Xylenes | 179601-23-1 | | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 200 | U | 0.5 | U |
| Methyl Acetate | 79-20-9 | | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 200 | U | 0.5 | U |
| Methyl tert-Butyl Ether | 1634-04-4 | 10 | 0.13 | J | 3 | | 0.48 | J | 0.42 | J | 5 | U | 0.5 | U | 0.5 | U | 0.9 | | 0.5 | U | 200 | U | 0.5 | U |
| Methylcyclohexane | 108-87-2 | | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 200 | U | 0.5 | U |
| Methylene Chloride | 75-09-2 | 5 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 200 | U | 0.5 | U |
| o-Xylene | 95-47-6 | 5 | 1.2 | | 0.5 | U | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 200 | U | 0.5 | U |
| Styrene | 100-42-5 | 5 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 200 | U | 0.5 | U |
| Tetrachloroethylene(PCE) | 127-18-4 | **5** | **1100** | | **1200** | | **28** | | **29** | | **160** | | 0.62 | | 0.54 | | **120** | | 0.5 | U | **7000** | | 0.9 | |
| Toluene | 108-88-3 | 5 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 200 | U | 0.5 | U |
| trans-1,2-Dichloroethene | 156-60-5 | 5 | 0.64 | J+ | 0.23 | J+ | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U | 0.5 | U | 0.31 | J+ | 0.5 | U | 200 | U | 0.5 | U |
| trans-1,3-Dichloropropene | 10061-02-6 | | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 200 | U | 0.5 | U |
| Trichloroethene (TCE) | 79-01-6 | **5** | **730** | | **220** | | **19** | | 2.4 | | **9.9** | | 0.5 | U | 0.5 | U | **53** | | 0.5 | U | **900** | | 0.5 | U |
| Trichlorofluoromethane | 75-69-4 | **5** | **11** | | 0.32 | J | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 200 | U | 0.5 | U |
| Vinyl Chloride | 75-01-4 | 2 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 200 | U | 0.5 | U |

Notes:
Greater than the NYS Groundwater Quality Standard
U - Nondetect
J - Estimated
J+ - potential bias high
J- - potential bias low
FD - field duplicate
N - normal

**Table 3**
**Groundwater Sampling Results**

| | | Location ID | MW-2 | | MW-3 | | MW-4 | | MW-5 | | MW-6 | | MW-7 | | MW-8 | | MW-9 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sample ID | MW-2-20191125 | | MW-3-20191125 | | MW-4-20191125 | | MW-5-20191205 | | MW-6-20191205 | | MW-7-20191206 | | MW-8-20191206 | | MW-9-20191203 | |
| | | Sample Date | 11/25/2019 | | 11/25/2019 | | 11/25/2019 | | 12/5/2019 | | 12/5/2019 | | 12/6/2019 | | 12/6/2019 | | 12/3/2019 | |
| | | Sample Type | N | | N | | N | | N | | N | | N | | N | | N | |
| **Analyte** | **Cas No.** | **NYSDEC GW Criteria (ug/l)** | **Result (ug/l)** | **Qual.** | **Result (ug/l)** | **Qual.** | **Result (ug/l)** | **Qual.** | **Result (ug/l)** | **Qual.** | **Result (ug/l)** | **Qual.** | **Result (ug/l)** | **Qual.** | **Result (ug/l)** | **Qual.** | **Result (ug/l)** | **Qual.** |
| 1,1,1-Trichloroethane | 71-55-6 | **5** | **5.4** | | 2 | | **18** | | 0.12 | J | 2.8 | | 0.5 | U | 0.5 | U | **7.5** | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 5 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1 | **5** | 0.6 | | 0.6 | | **10** | | 0.5 | U | 0.33 | J | 0.5 | U | 0.5 | U | 4.2 | |
| 1,1,2-Trichloroethane | 79-00-5 | 1 | 0.19 | J | 0.5 | | 0.24 | J | 0.5 | U | 0.16 | J | 0.5 | U | 0.5 | U | 0.16 | J |
| 1,1-Dichloroethane | 75-34-3 | **5** | **13** | | **38** | | **31** | | 0.5 | | **12** | | 0.11 | J | 0.26 | J | 3.3 | |
| 1,1-Dichloroethene | 75-35-4 | **5** | **35** | | **81** | | **62** | | 0.5 | U | **27** | | 0.5 | U | 0.5 | U | **18** | |
| 1,2,3-Trichlorobenzene | 87-61-6 | 5 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | UJ | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,2,4-Trichlorobenzene | 120-82-1 | 5 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | UJ | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,2-Dibromo-3-Chloropropane | 96-12-8 | 0.04 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | UJ | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,2-Dibromoethane | 106-93-4 | **0.0006** | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,2-Dichlorobenzene | 95-50-1 | 3 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | UJ | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,2-Dichloroethane | 107-06-2 | **0.6** | 0.21 | J | **1.2** | | 0.56 | | 0.5 | U | 0.3 | J | 0.5 | U | 0.5 | U | 0.33 | J |
| 1,2-Dichloropropane | 78-87-5 | 1 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,3-Dichlorobenzene | 541-73-1 | 3 | 0.5 | U | 0.5 | U | 0.1 | J | 0.5 | U | 0.5 | UJ | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,4-Dichlorobenzene | 106-46-7 | 3 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | UJ | 0.5 | U | 0.5 | U | 0.5 | U |
| 2-Butanone | 78-93-3 | 50 | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U |
| 2-Hexanone | 591-78-6 | 50 | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U |
| 4-Methyl-2-Pentanone | 108-10-1 | | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U |
| Acetone | 67-64-1 | 50 | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U |
| Benzene | 71-43-2 | **1** | 0.5 | U | 0.17 | J | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Bromochloromethane | 74-97-5 | 5 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Bromodichloromethane | 75-27-4 | 50 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Bromoform | 75-25-2 | 50 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | UJ | 0.5 | U | 0.5 | U | 0.5 | U |
| Bromomethane | 74-83-9 | 5 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Carbon Disulfide | 75-15-0 | 60 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Carbon Tetrachloride | 56-23-5 | 5 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.11 | J | 0.5 | U | 0.5 | U | 0.1 | J |
| Chlorobenzene | 108-90-7 | 5 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Chloroethane | 75-00-3 | 5 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Chloroform | 67-66-3 | **7** | 1.5 | J | 0.81 | J | 0.92 | J | 0.96 | | 0.65 | | 0.5 | U | 0.5 | U | 0.62 | |
| Chloromethane | 74-87-3 | 5 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| cis-1,2-Dichloroethylene | 156-59-2 | **5** | **19** | | **9.5** | **J+** | **11** | **J+** | 0.12 | J | **6.5** | **J+** | 0.93 | | 0.5 | U | **12** | **J+** |
| cis-1,3-Dichloropropene | 10061-01-5 | | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Cyclohexane | 110-82-7 | | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Dibromochloromethane | 124-48-1 | 50 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Dichlorodifluoromethane | 75-71-8 | 5 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.13 | J | 0.5 | U |
| Ethylbenzene | 100-41-4 | 5 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Isopropylbenzene | 98-82-8 | 5 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| M, P Xylenes | 179601-23-1 | | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Methyl Acetate | 79-20-9 | | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Methyl tert-Butyl Ether | 1634-04-4 | 10 | 0.88 | | 0.5 | U | 2 | | 0.5 | U | 0.28 | J | 0.18 | J | 0.5 | U | 0.55 | |
| Methylcyclohexane | 108-87-2 | | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Methylene Chloride | 75-09-2 | 5 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| o-Xylene | 95-47-6 | 5 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Styrene | 100-42-5 | 5 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Tetrachloroethylene(PCE) | 127-18-4 | **5** | **30** | **J-** | **14** | | **31** | | 0.68 | | **17** | | 0.78 | | 0.26 | J | **29** | |
| Toluene | 108-88-3 | 5 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| trans-1,2-Dichloroethene | 156-60-5 | 5 | 0.23 | J+ | 0.22 | J+ | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.13 | J+ |
| trans-1,3-Dichloropropene | 10061-02-6 | | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Trichloroethene (TCE) | 79-01-6 | **5** | **61** | **J-** | **110** | | **76** | | 1.3 | | **86** | | 0.27 | J | 0.18 | J | **140** | |
| Trichlorofluoromethane | 75-69-4 | **5** | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Vinyl Chloride | 75-01-4 | 2 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |

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J - Estimated
J+ - potential bias high
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FD - field duplicate
N - normal