APPENDIX J SURVEY INFORMATION

31 TONAWANDA STREET OFF-SITE SITE NO. C915299A

As part of the NYSDEC Remedial Investigation of the 31 Tonawanda Street Off-Site Area, GES retained Clear Creek Land Surveying, LLC of Caneadea, New York, a surveyor licensed in the State of New York, to complete surveying activities at the site. The scope of the surveying is summarized in Section 3.12 of the Remedial Investigation Report.

The coordinates and elevations obtained during this survey are summarized in Tables J-1 through J-4 that follow. The point numbers that are referenced are shown on Figure J-1.

Please note that most of the survey information shown on Figure J-1 for the 31 Tonawanda Street property is from the survey completed at that site. Information concerning that survey is discussed in the 31 Tonawanda Street below.

Table J-1 Summary of the Survey Data Obtained for the 31 Tonawanda Street Off-Site Area NYSDEC Remedial Investigation 31 Tonawanda Street Off-Site Area, Site No. C915299A Buffalo, New York



| Point | Survey | Survey | Elevation | | Latitude | Longitude | | | |
|-------|--------------|---------------------|------------|--------------------------------|----------------|--------------|----------|----------------|---------|
| No. | Northing (y) | Easting (x) | (ft. amsl) | Description | (Dec Deg) | (Dec Deg) | Geoid | Ellipsoid Elev | Notes |
| | | | | Soil Borings, Monitoring Wells | & Staff Gauges | | | | |
| 200 | 1067674.9308 | 1063939.5209 | 578.016 | CONC EG MW 1660 MW-5R | 42.92987186 | -78.89830376 | -115.703 | 462.313 | |
| 201 | 1067675.2249 | 1063939.7597 | 577.611 | TOP RISER MW 1660 MW-5R | 42.92987267 | -78.89830288 | -115.703 | 461.908 | |
| | | TOR Stickup: | -0.40 | | | | | | |
| 202 | 1067647.9331 | 1063898.0775 | 577.094 | TBM COR CONC | 42.92979735 | -78.89845813 | -115.703 | 461.391 | SC-1660 |
| | | | | | | | | | |
| 203 | 1067748.3405 | 1063876.4407 | 579.008 | CONC EG MW 1660 MW-3R | 42.93007263 | -78.89854033 | -115.705 | 463.303 | |
| 204 | 1067748.5530 | 1063876.6478 | 578.630 | TOP RISER MW 1660 MW-3R | 42.93007322 | -78.89853956 | -115.705 | 462.925 | |
| | | TOR Stickup: | -0.38 | | | | | | |
| 205 | 1067781.7922 | 1063824.6568 | 576.674 | EG MW 1660 RI-MW-2 | 42.93016388 | -78.89873416 | -115.707 | 460.967 | |
| 206 | 1067781.6975 | 1063824.2562 | 579.530 | TOP CASING MW 1660 RI-MW-2 | 42.93016362 | -78.89873565 | -115.707 | 463.823 | |
| 207 | 1067781.5073 | 1063824.0844 | 578.502 | TOP RISER MW 1660 RI-MW-2 | 42.93016310 | -78.89873629 | -115.707 | 462.795 | |
| | | TOR Stickup: | 1.83 | | | | | | |
| | | Pro Casing Stickup: | 2.86 | | | | | | |
| 208 | 1067844.5921 | 1063787.5345 | 580.672 | CONC EG MW 1660 RI-MW-1 | 42.93033581 | -78.89887365 | -115.708 | 464.964 | |
| 209 | 1067844.3516 | 1063787.1321 | 580.396 | TOP RISER MW 1660 RI-MW-1 | 42.93033515 | -78.89887515 | -115.708 | 464.688 | |
| | | TOR Stickup: | -0.28 | | | | | | |
| 210 | 1067609.3406 | 1063998.9143 | 577.644 | EG MW 1660 MW-7 | 42.92969250 | -78.89808108 | -115.701 | 461.943 | |
| 211 | 1067609.5292 | 1063998.6500 | 580.525 | TOP CASING MW 1660 MW-7 | 42.92969301 | -78.89808207 | -115.701 | 464.824 | |
| 212 | 1067609.4297 | 1063998.3554 | 579.908 | TOP RISER MW 1660 MW-7 | 42.92969274 | -78.89808316 | -115.701 | 464.207 | |
| | | TOR Stickup: | 2.26 | | | | | | |
| | | Pro Casing Stickup: | 2.88 | | | | | | |
| 213 | 1067582.4380 | 1063993.3430 | 578.881 | NYSDEC B-1 | 42.92961862 | -78.89810150 | -115.701 | 463.180 | |
| | | | | | | | | | |
| 214 | 1067565.5997 | 1063969.7912 | 578.273 | CONC EG MW 1660 MW-8 | 42.92957218 | -78.89818921 | -115.701 | 462.572 | |
| 215 | 1067565.8054 | 1063969.9223 | 580.977 | TOP CASING MW 1660 MW-8 | 42.92957275 | -78.89818872 | -115.701 | 465.276 | |
| 216 | 1067565.9350 | 1063969.8407 | 580.800 | TOP RISER MW 1660 MW-8 | 42.92957310 | -78.89818903 | -115.701 | 465.099 | |
| | | TOR Stickup: | 2.53 | | | | | | |
| | | Pro Casing Stickup: | 2.70 | | | | | | |
| 217 | 1067585.1841 | 1063959.4237 | 577.624 | EG MW 1660 MW-6 | 42.92962581 | -78.89822819 | -115.701 | 461.923 | |
| 218 | 1067584.9662 | 1063959.1893 | 580.759 | TOP CASING MW 1660 MW-6 | 42.92962521 | -78.89822907 | -115.701 | 465.058 | |
| 219 | 1067585.0004 | 1063959.0103 | 579.914 | TOP RISER MW 1660 MW-6 | 42.92962530 | -78.89822974 | -115.701 | 464.213 | |
| | | TOR Stickup: | 2.29 | | | | | | |
| | | Pro Casing Stickup: | 3.13 | | | | | | |

Table J-1 Summary of the Survey Data Obtained for the 31 Tonawanda Street Off-Site Area NYSDEC Remedial Investigation 31 Tonawanda Street Off-Site Area, Site No. C915299A Buffalo, New York



| Point | Survey | Survey | Elevation | | Latitude | Longitude | | | |
|-------|--------------|--------------|------------|--|-------------------|--------------|----------|----------------|--------------|
| No. | Northing (y) | Easting (x) | (ft. amsl) | Description | (Dec Deg) | (Dec Deg) | Geoid | Ellipsoid Elev | Notes |
| | | | | Soil Borings, Monitoring Wells & Staff | Gauges (continued | | | | |
| 220 | 1067612.2477 | 1063936.7100 | 577.202 | EG MW 1660 TPMW-1 | 42.92969984 | -78.89831338 | -115.702 | 461.500 | |
| 221 | 1067612.2055 | 1063936.8070 | 582.196 | TOP RISER TEMP MW 1660 TPMW-1 | 42.92969972 | -78.89831302 | -115.702 | 466.494 | |
| | | TOR Stickup: | 4.99 | | | | | | |
| 229 | 1067337.1905 | 1063998.2733 | 578.959 | TBM COR PED BRIDGE | 42.92894576 | -78.89807967 | -115.696 | 463.263 | SC-Bike Path |
| | | | | | | | | | |
| 263 | 1067771.7548 | 1063991.4065 | 578.097 | CONC EG MW 1675 MW-1 | 42.93013806 | -78.89811138 | -115.704 | 462.393 | |
| 264 | 1067772.0231 | 1063991.6953 | 577.513 | TOP RISER MW 1675 MW-1 | 42.93013880 | -78.89811031 | -115.704 | 461.809 | |
| | | TOR Stickup: | -0.58 | | | | | | |
| 265 | 1067867.0050 | 1063955.1932 | 580.584 | CONC EG MW 1675 MW-2 | 42.93039903 | -78.89824793 | -115.707 | 464.877 | |
| 266 | 1067867.2189 | 1063955.4582 | 580.289 | TOP RISER MW 1675 MW-2 | 42.93039962 | -78.89824694 | -115.707 | 464.582 | |
| | | TOR Stickup: | -0.29 | | | | | | |
| 301 | 1067775.6384 | 1064617.7335 | 583.612 | TOP CENTER HEADWALL | 42.93015512 | -78.89577276 | -115.697 | 467.915 | SC-West Ave |
| | | | | | | | | | |
| 302 | 1067946.6049 | 1064731.2782 | 578.824 | CONC EG MW MW-100 | 42.93062538 | -78.89535115 | -115.700 | 463.124 | |
| 303 | 1067946.8962 | 1064730.9733 | 578.557 | TOP RISER MW MW-100 | 42.93062617 | -78.89535230 | -115.700 | 462.857 | |
| | | TOR Stickup: | -0.27 | | | | | | |
| 304 | 1068055.5500 | 1064847.6224 | 578.810 | CONC EG MW MW-103 | 42.93092549 | -78.89491823 | -115.700 | 463.110 | |
| 305 | 1068055.9210 | 1064847.3382 | 578.374 | TOP RISER MW MW-103 | 42.93092650 | -78.89491930 | -115.700 | 462.674 | |
| | | TOR Stickup: | -0.44 | | | | | | |
| 306 | 1068182.3311 | 1065043.0543 | 580.258 | CONC EG MW MW-106 | 42.93127534 | -78.89419024 | -115.701 | 464.557 | |
| 307 | 1068182.8885 | 1065042.8495 | 579.837 | TOP RISER MW MW-106 | 42.93127686 | -78.89419101 | -115.701 | 464.136 | |
| | | TOR Stickup: | -0.42 | | | | | | |
| 316 | 1067688.4651 | 1064464.5768 | 581.539 | MW COVER MW 31-MW-4R | 42.92991437 | -78.89634343 | -115.697 | 465.842 | |
| | | | | | | | | | |
| 319 | 1067536.8973 | 1064389.5276 | 579.777 | MW COVER MW 31-MW-3R | 42.92949773 | -78.89662155 | -115.695 | 464.082 | |

Notes:

Table J-2
Summary of the Survey Data Obtained for the 31 Tonawanda Street Off-Site Area
NYSDEC Remedial Investigation
31 Tonawanda Street Off-Site Area, Site No. C915299A
Buffalo, New York



| Point | Survey | Survey | Elevation | | Latitude | Longitude | | | |
|-------|--------------|--------------|------------|--------------------------|-------------|--------------|----------|----------------|--------------|
| No. | Northing (y) | Easting (x) | (ft. amsl) | Description | (Dec Deg) | (Dec Deg) | Geoid | Ellipsoid Elev | Notes |
| | | | | Buil | dings | | | | |
| 222 | 1067553.4952 | 1063973.1676 | 578.700 | COR BLOCK BLDG | 42.92953900 | -78.89817643 | -115.700 | 463.000 | Pump House |
| 223 | 1067543.9921 | 1063973.1309 | 580.692 | TOP HEADWALL OVER OUTLET | 42.92951293 | -78.89817644 | -115.700 | 464.992 | PH Outfall |
| 224 | 1067555.9210 | 1063996.1103 | 578.623 | COR BLOCK BLDG | 42.92954590 | -78.89809080 | -115.700 | 462.923 | Pump House |
| 225 | 1067566.1506 | 1063986.5843 | 578.681 | COR BLOCK BLDG | 42.92957387 | -78.89812651 | -115.700 | 462.981 | Pump House |
| 226 | 1067561.5467 | 1063991.3744 | 578.730 | TOP CONC SW FF+/- | 42.92956128 | -78.89810856 | -115.700 | 463.030 | Pump House |
| 228 | 1067544.1145 | 1063972.8547 | 576.234 | INV OUTFALL PIPE | 42.92951326 | -78.89817747 | -115.700 | 460.534 | PH Outfall |
| | | | | | | | | | |
| 267 | 1067749.2482 | 1064017.5947 | 579.449 | COR BLOCK BLDG | 42.93007657 | -78.89801328 | -115.704 | 463.745 | 1675 Niagara |
| 268 | 1067820.2110 | 1063952.4077 | 578.574 | COR BLOCK BLDG | 42.93027061 | -78.89825768 | -115.706 | 462.868 | 1675 Niagara |
| 269 | 1067849.9932 | 1063984.9935 | 580.913 | COR BLOCK BLDG | 42.93035266 | -78.89813642 | -115.706 | 465.207 | 1675 Niagara |
| 270 | 1067876.8450 | 1063929.2181 | 580.944 | COR BLOCK BLDG | 42.93042577 | -78.89834506 | -115.707 | 465.237 | 1675 Niagara |
| 271 | 1067876.1890 | 1063914.7235 | 580.444 | COR BLOCK BLDG | 42.93042382 | -78.89839917 | -115.707 | 464.737 | 1675 Niagara |
| 272 | 1067899.3839 | 1063893.2881 | 580.591 | COR BLOCK BLDG | 42.93048724 | -78.89847953 | -115.708 | 464.883 | 1675 Niagara |
| 273 | 1067923.1798 | 1063919.1566 | 581.098 | FACE BLDG | 42.93055280 | -78.89838328 | -115.708 | 465.390 | 1675 Niagara |
| 400 | 1067926.2376 | 1064024.9260 | 588.690 | BLDG COR | 42.93056227 | -78.89798838 | -115.707 | 472.983 | 1675 Niagara |
| 401 | 1067886.2410 | 1064025.9172 | 588.134 | BLDG COR | 42.93045254 | -78.89798412 | -115.706 | 472.428 | 1675 Niagara |
| 402 | 1067870.5935 | 1064029.3037 | 587.774 | BLDG COR | 42.93040964 | -78.89797125 | -115.706 | 472.068 | 1675 Niagara |
| 403 | 1067982.9745 | 1064013.6844 | 584.565 | GAR COR | 42.93071783 | -78.89803115 | -115.708 | 468.857 | 1675 Niagara |
| 404 | 1067997.7694 | 1063999.9489 | 584.632 | GAR COR | 42.93075829 | -78.89808264 | -115.709 | 468.923 | 1675 Niagara |
| 405 | 1067977.5964 | 1063977.9602 | 588.584 | BLDG COR | 42.93070271 | -78.89816446 | -115.709 | 472.875 | 1675 Niagara |
| | | | | | | | | | |
| 308 | 1067829.7241 | 1064440.4369 | 584.713 | BRICK BLDG COR | 42.93030171 | -78.89643553 | -115.701 | 469.012 | 31 Tonawanda |
| 311 | 1067848.2519 | 1064260.0165 | 585.619 | COR BLDG | 42.93035070 | -78.89710947 | -115.703 | 469.916 | 31 Tonawanda |
| 315 | 1067818.5382 | 1064549.1345 | 585.350 | EXIP 1/2 PROP COR | 42.93027213 | -78.89602950 | -115.699 | 469.651 | 31 Tonawanda |
| 318 | 1067587.0468 | 1064416.0680 | 580.635 | BLDG COR | 42.92963560 | -78.89652314 | -115.696 | 464.939 | 31 Tonawanda |
| 320 | 1067468.9456 | 1064342.6593 | 580.254 | CM (Property Line ?) | 42.92931080 | -78.89679560 | -115.694 | 464.560 | 31 Tonawanda |
| 321 | 1067471.0308 | 1064338.5646 | 580.421 | BLDG COR | 42.92931648 | -78.89681092 | -115.694 | 464.727 | 31 Tonawanda |
| | | | | | | | | | |
| 309 | 1067897.1109 | 1064431.0384 | 584.277 | COR BLDG | 42.93048651 | -78.89647156 | -115.702 | 468.575 | 57 Tonawanda |
| 310 | 1067914.2290 | 1064266.7906 | 585.253 | COR BLDG | 42.93053180 | -78.89708509 | -115.704 | 469.549 | 57 Tonawanda |

Notes:

Table J-3
Summary of the Survey Data Obtained for the 31 Tonawanda Street Off-Site Area
NYSDEC Remedial Investigation
31 Tonawanda Street Off-Site Area, Site No. C915299A
Buffalo, New York



| Point | Survey | Survey | Elevation | | Latitude | Longitude | | | |
|-------|--------------|--------------|------------|-------------|------------------|--------------|----------|----------------|----------------|
| No. | Northing (y) | Easting (x) | (ft. amsl) | Description | (Dec Deg) | (Dec Deg) | Geoid | Ellipsoid Elev | Notes |
| | | | | | Edge of Pavement | | | | |
| 232 | 1067541.9889 | 1064098.7104 | 576.942 | EP | 42.92950872 | -78.89770751 | -115.699 | 461.243 | Niagara Street |
| 233 | 1067562.7396 | 1064079.6046 | 575.140 | EP | 42.92956546 | -78.89777913 | -115.699 | 459.441 | Niagara Street |
| 234 | 1067580.4487 | 1064063.2763 | 573.934 | EP | 42.92961388 | -78.89784035 | -115.700 | 458.234 | Niagara Street |
| 235 | 1067596.0180 | 1064049.1808 | 573.185 | EP | 42.92965646 | -78.89789320 | -115.700 | 457.485 | Niagara Street |
| 238 | 1067613.8957 | 1064032.6608 | 572.878 | EP | 42.92970534 | -78.89795513 | -115.701 | 457.177 | Niagara Street |
| 240 | 1067640.6710 | 1064008.0236 | 572.983 | EP | 42.92977856 | -78.89804750 | -115.702 | 457.281 | Niagara Street |
| 242 | 1067670.7367 | 1063980.5601 | 573.723 | EP | 42.92986077 | -78.89815047 | -115.703 | 458.020 | Niagara Street |
| 243 | 1067696.5682 | 1063956.9261 | 575.183 | EP | 42.92993140 | -78.89823908 | -115.703 | 459.480 | Niagara Street |
| 244 | 1067721.4132 | 1063934.2172 | 576.407 | EP | 42.92999934 | -78.89832422 | -115.704 | 460.703 | Niagara Street |
| 245 | 1067751.3417 | 1063906.8110 | 577.097 | EP | 42.93008118 | -78.89842697 | -115.705 | 461.392 | Niagara Street |
| 246 | 1067781.5602 | 1063879.0701 | 577.750 | EP | 42.93016381 | -78.89853098 | -115.706 | 462.044 | Niagara Street |
| 247 | 1067804.9320 | 1063857.7187 | 578.227 | EP | 42.93022772 | -78.89861103 | -115.707 | 462.520 | Niagara Street |
| 248 | 1067835.5923 | 1063829.4825 | 578.827 | EP | 42.93031155 | -78.89871689 | -115.708 | 463.119 | Niagara Street |
| | | | | | | | | | |
| 249 | 1067879.1728 | 1063870.8655 | 578.903 | EP | 42.93043155 | -78.89856298 | -115.708 | 463.195 | Niagara Street |
| 250 | 1067841.9209 | 1063905.0748 | 578.103 | EP | 42.93032969 | -78.89843472 | -115.707 | 462.396 | Niagara Street |
| 251 | 1067811.6165 | 1063932.8569 | 577.609 | EP | 42.93024683 | -78.89833056 | -115.706 | 461.903 | Niagara Street |
| 252 | 1067775.7575 | 1063965.7083 | 576.766 | EP | 42.93014878 | -78.89820739 | -115.705 | 461.061 | Niagara Street |
| 253 | 1067739.5889 | 1063999.0363 | 575.425 | EP | 42.93004988 | -78.89808244 | -115.704 | 459.721 | Niagara Street |
| 254 | 1067710.6274 | 1064025.5270 | 573.862 | EP | 42.92997068 | -78.89798312 | -115.703 | 458.159 | Niagara Street |
| 256 | 1067680.1059 | 1064053.5033 | 573.057 | EP | 42.92988723 | -78.89787823 | -115.702 | 457.355 | Niagara Street |
| 258 | 1067653.1231 | 1064078.3107 | 573.191 | EP | 42.92981344 | -78.89778523 | -115.701 | 457.490 | Niagara Street |
| 260 | 1067623.3734 | 1064105.5949 | 574.501 | EP | 42.92973210 | -78.89768293 | -115.700 | 458.801 | Niagara Street |
| 261 | 1067602.8721 | 1064124.3300 | 576.165 | EP | 42.92967604 | -78.89761269 | -115.700 | 460.465 | Niagara Street |
| 262 | 1067590.4204 | 1064135.7696 | 577.240 | EP | 42.92964199 | -78.89756980 | -115.699 | 461.541 | Niagara Street |

Notes:

Table J-4 Summary of the Survey Data Obtained for the 31 Tonawanda Street Off-Site Area NYSDEC Remedial Investigation 31 Tonawanda Street Off-Site Area, Site No. C915299A Buffalo, New York



| Point | Survey | Survey | Elevation | | Latitude | Longitude | | | | | |
|-------|--|--------------|------------|------------------------|-----------------------|--------------|----------|----------------|-----------------|--|--|
| No. | Northing (y) | Easting (x) | (ft. amsl) | Description | (Dec Deg) | (Dec Deg) | Geoid | Ellipsoid Elev | Notes | | |
| | | | | Manholes in Sidewalk I | eading to the Pump Ho | use | | | | | |
| 227 | 1067576.3563 | 1064004.3623 | 578.681 | SAN MH | 42.92960205 | -78.89806027 | -115.700 | 462.981 | | | |
| 231 | 1067607.9287 | 1064010.0558 | 578.336 | SAN MH | 42.92968874 | -78.89803946 | -115.701 | 462.635 | | | |
| | Catch Basins on the South Side of Niagara Street Under the Railraod Bridge | | | | | | | | | | |
| 236 | 1067601.4006 | 1064044.2579 | 572.924 | DI RIM SCB | 42.92967118 | -78.89791166 | -115.700 | 457.224 | | | |
| 239 | 1067628.7234 | 1064018.9895 | 572.731 | DI RIM SCB | 42.92974589 | -78.89800639 | -115.701 | 457.030 | | | |
| 239A | 1067628.7501 | 1064019.0401 | 572.689 | DI NO OFFSET | 42.92974596 | -78.89800620 | -115.701 | 456.988 | | | |
| 239A2 | 1067629.2352 | 1064019.2800 | 568.693 | SUMP INVERT | 42.92974729 | -78.89800531 | -115.701 | 452.992 | | | |
| 241 | 1067655.0701 | 1063994.9015 | 573.247 | DI RIM SCB | 42.92981793 | -78.89809670 | -115.702 | 457.545 | | | |
| | Catch Basins on the North Side of Niagara Street Under the Railraod Bridge | | | | | | | | | | |
| 255 | 1067695.6197 | 1064039.3242 | 573.271 | DI RIM SCB | 42.92992965 | -78.89793139 | -115.702 | 457.569 | | | |
| 257 | 1067668.9049 | 1064063.8220 | 572.767 | DI RIM SCB | 42.92985660 | -78.89783955 | -115.702 | 457.065 | | | |
| 257A | 1067668.5128 | 1064063.2067 | 569.450 | SUMP INVERT | 42.92985552 | -78.89784184 | -115.702 | 453.748 | | | |
| 259 | 1067642.3745 | 1064088.1236 | 573.596 | DI RIM SCB | 42.92978405 | -78.89774844 | -115.701 | 457.895 | | | |
| | | | | Miscellaneo | us Survey Points | | | | | | |
| 300 | 1067790.3405 | 1064599.4963 | 583.635 | TBM COR CONC HEADWALL | 42.93019527 | -78.89584106 | -115.698 | 467.937 | West Ave Bridge | | |
| 312 | 1067858.2475 | 1064239.1872 | 582.222 | WV | 42.93037792 | -78.89718738 | -115.703 | 466.519 | 31 Tonawanda | | |
| 313 | 1067858.0248 | 1064246.2186 | 582.218 | TOP RAIL | 42.93037738 | -78.89716112 | -115.703 | 466.515 | 31 Tonawanda | | |
| 314 | 1067857.5580 | 1064251.1032 | 582.252 | TOP RAIL | 42.93037615 | -78.89714288 | -115.703 | 466.549 | 31 Tonawanda | | |
| 317 | 1067651.9678 | 1064461.1744 | 578.178 | EXRB 5/8 SCHUTT | 42.92981419 | -78.89635562 | -115.697 | 462.481 | 31 Tonawanda | | |
| 322 | 1067684.0785 | 1064482.0466 | 576.231 | EXRB 5/8 SCHUTT | 42.92990251 | -78.89627813 | -115.697 | 460.534 | 31 Tonawanda | | |
| 230 | 1067497.8155 | 1064128.3489 | 580.238 | SCRIBE IN SW | 42.92938782 | -78.89759622 | -115.697 | 464.541 | Niagara Street | | |
| 237 | 1067601.3959 | 1064043.9457 | 573.431 | TOP CURB | 42.92967116 | -78.89791282 | -115.700 | 457.731 | Niagara Street | | |

Notes:

31 TONAWANDA STREET SITE NO. C915299

Coordinates are not available for the soil borings completed during the 2014 Phase II Investigation or the 2015 Limited Sub-Slab Soil Subsurface Assessment, nor are coordinates available for soil borings SBH-1 through SBH-8 that were completed during the BCP Remedial Investigation. However, the coordinates provided in Table 6 of the BCP Remedial Investigation Report are suspect as they plot at different locations at Google Maps than shown on Figure 3 of the Remedial Investigation Report. Ground surface elevations are not available for any of the soil borings completed at the site.

In order to obtain coordinates and ground surface elevations for the soil borings completed at the site, I needed to first produce a composite map for the site. This composite map included Figure 3 (Soil Analytical Results) from the 31 Tonawanda Street BCP RI Report, Figure 3A (2019 Crawlspace Investigation) from the 31 Tonawanda Street BCP RI Report, and the AutoCAD file of the property survey that I obtained from the BCP applicant. In addition to the RI soil borings, Figure 3 includes the soil borings completed during the 2014 Phase II Investigation and the 2015 Limited Sub-Slab Soil Subsurface Assessment.

This process began on July 20, 2022 and was completed on August 4, 2022. Each drawing was first converted to an AutoCAD drawing, then the two (2) drawings were merged to produce a single composite AutoCAD drawing of the two (2) BCP RI Report figures. This drawing was then imported into the 31 Tonawanda Street property survey AutoCAD drawing. It is important to note that I had difficulty aligning the two (2) drawings because the building dimensions shown on Figure 3 didn't match those of the survey. I ultimately aligned the drawings so that the west and south building walls were aligned, which also aligned the southern portion of the east wall. The majority of the soil borings completed at the site were at this location. Further north, the east wall from Figure 3 and the property survey differed by up to 5 feet. This indicates, therefore, that the locations of the soil borings at the northeast portion of the property will also differ by up to 5 feet.

At this point I was able to obtain the coordinates for the soil borings completed at the site. In addition, using spot elevations and TIN lines from the 31 Tonawanda Street property survey, I was able to estimate ground surface elevations. These coordinates and elevations are summarized in Table J-5, while the elevation worksheet is provided as Table J-6.

Table J-5
Survey Data for the 31 Tonawanda Street Property
NYSDEC Remedial Investigation
31 Tonawanda Street Off-Site Area, Site No. C915299A
Buffalo, New York



| Soil | | State Plane | Ground | | |
|----------|--------------|------------------------|---------------|--------------------------|----------------------------------|
| Boring | | inates Northing (y) | Surface Elev. | Description | Notes |
| No. | Easting (x) | Northing (y) | (ft. amsl) | oil Borings | Notes |
| DII 1 | 1064217.9910 | 1007400 0004 | | | |
| BH-1 | | 1067499.0884 | 581.37 | 2014 Phase II boring | |
| BH-2 | 1064228.3809 | 1067598.0061 | 581.77 | 2014 Phase II boring | |
| BH-3 | 1064239.1106 | 1067708.9305 | 581.87 | 2014 Phase II boring | |
| BH-4 | 1064251.8953 | 1067835.5478 | 582.36 | 2014 Phase II boring | |
| BH-5 | 1064393.2477 | 1067551.0285 | 579.37 | 2014 Phase II boring | |
| BH-6 | 1064433.8057 | 1067655.9908 | 580.09 | 2014 Phase II boring | |
| BH-7 | 1064451.8642 | 1067678.4780 | 581.44 | 2014 Phase II boring | |
| BH-8 | N/A | N/A | NE | 2014 Phase II boring | See Note 1 |
| BH-9 | N/A | N/A | NE | 2014 Phase II boring | See Note 2 |
| BH-10 | 1064280.0116 | 1067682.0907 | NS/NE | 2014 Phase II boring | Boring completed within building |
| BH5-1S | 1064386.9681 | 1067540.6368 | 579.49 | 2014 Phase II boring | |
| BH5-2S | 1064380.1703 | 1067529.8407 | 579.62 | 2014 Phase II boring | |
| BH5-3S | 1064371.3829 | 1067518.1964 | 579.77 | 2014 Phase II boring | |
| BH5-4S | 1064362.5694 | 1067504.6377 | 580.09 | 2014 Phase II boring | |
| BH5-1N | 1064400.6832 | 1067557.3839 | 579.26 | 2014 Phase II boring | |
| BH5-2N | 1064407.3525 | 1067567.0859 | 579.28 | 2014 Phase II boring | |
| BH5-3N | 1064415.4051 | 1067582.0397 | 579.53 | 2014 Phase II boring | |
| C-1 | 1064375.0246 | 1067557.2032 | NS/NE | 2015 Sub-Slab Assessment | Boring completed within building |
| C-2 | 1064352.7592 | 1067508.0354 | NS/NE | 2015 Sub-Slab Assessment | Boring completed within building |
| C-3 | 1064313.7412 | 1067516.9793 | NS/NE | 2015 Sub-Slab Assessment | Boring completed within building |
| C-4 | 1064333.8570 | 1067562.4290 | NS/NE | 2015 Sub-Slab Assessment | Boring completed within building |
| 31-BH-1 | 1064351.8784 | 1067489.9277 | 580.46 | BCP RI boring | |
| 31-BH-2 | 1064422.9137 | 1067601.7197 | 579.48 | BCP RI boring | |
| 31-BH-3S | 1064468.4197 | 1067672.7918 | 579.08 | BCP RI boring | |
| 31-BH-4 | 1064486.9033 | 1067731.8162 | 580.32 | BCP RI boring | |
| 31-BH-5 | 1064506.6842 | 1067798.9144 | 582.18 | BCP RI boring | |
| 31-BH-6 | N/A | N/A | NE | BCP RI boring | See Note 1 |
| SBH-1 | 1064298.5068 | 1067494.6802 | NS/NE | BCP RI boring | Boring completed within building |
| SBH-2 | 1064334.8644 | 1067475.7838 | NS/NE | BCP RI boring | Boring completed within building |
| SBH-3 | 1064346.6209 | 1067496.9724 | NS/NE | BCP RI boring | Boring completed within building |
| SBH-4 | 1064316.0139 | 1067534.0300 | NS/NE | BCP RI boring | Boring completed within building |

Table J-5 Survey Data for the 31 Tonawanda Street Property NYSDEC Remedial Investigation 31 Tonawanda Street Off-Site Area, Site No. C915299A Buffalo, New York



| Boring | | State Plane | Ground | | |
|--------|--------------|--------------|---------------|-----------------------------|-------------------------------------|
| & Well | | inates | Surface Elev. | | |
| No. | Easting (x) | Northing (y) | (ft. amsl) | Description | Notes |
| | | | Soil Boi | rings (continued) | |
| SBH-5 | 1064358.1285 | 1067520.5947 | NS/NE | BCP RI boring | Boring completed within building |
| SBH-6 | 1064380.6034 | 1067564.8143 | NS/NE | BCP RI boring | Boring completed within building |
| SBH-7 | 1064393.0714 | 1067558.6605 | NS/NE | BCP RI boring | Boring completed within building |
| SBH-8 | 1064337.7635 | 1067507.6623 | NS/NE | BCP RI boring | Boring completed within building |
| | | | Mor | nitoring Wells | |
| MW-1 | 1064222.4943 | 1067571.1353 | 581.20 | BCP RI well (ground) | Well destroyed during redevelopment |
| " | II . | п | 580.66 | BCP RI well (top of riser) | п |
| " | n . | п | 581.24 | BCP RI well (top of casing) | п |
| MW-2 | 1064251.3780 | 1067829.9518 | 582.30 | BCP RI well (ground) | |
| ıı ı | II . | II | 581.89 | BCP RI well (top of riser) | |
| ıı ı | II . | II | 582.31 | BCP RI well (top of casing) | |
| MW-3 | 1064389.5276 | 1067536.8973 | 579.30 | BCP RI well (ground) | |
| " | " | II | 578.96 | BCP RI well (top of riser) | |
| ıı ı | II . | II | 579.30 | BCP RI well (top of casing) | |
| MW-4 | 1064464.5768 | 1067688.4651 | 580.90 | BCP RI well (ground) | Well destroyed during redevelopment |
| " | 11 | II . | 580.60 | BCP RI well (top of riser) | п |
| " | II . | 11 | 580.95 | BCP RI well (top of casing) | п |
| MW-5 | 1064516.1718 | 1067782.2664 | 581.40 | BCP RI well (ground) | Well removed during remediation |
| " | n . | п | 583.14 | BCP RI well (top of riser) | п |
| " | 11 | II | 583.38 | BCP RI well (top of casing) | п |

Notes:

Horizontal coordinates are relative to the State Plane New York West Zone of the North American Datum (NAD) of 1983.

The worksheet utilized to estimate ground surface elevations is given as Table J-6.

N/A = Not Applicable.

NS = Not Surveyed.

NE = Not Estimated. Soil boring was completed within the building. Floor elevations are not available so estimates could not be made.

ft. amsl = feet above mean sea level.

Green shaded elevations are the original surveyed elevations prior to the installation of a cover system during remediation.

Orange shaded elevations were estimated from the spot elevations and TIN lines of the 31 Tonawanda Street AutoCAD survey drawing.

Yellow shaded coordinates were surveyed by the DEC in 2020 as part of the 31 Tonawanda Street Off-Site Investigation.

Table J-5

Survey Data for the 31 Tonawanda Street Property NYSDEC Remedial Investigation 31 Tonawanda Street Off-Site Area, Site No. C915299A Buffalo, New York



Notes (continued):

Note 1: Soil boring plots on slope to Scajaquada Creek. This boring location is not correct so coordinates are not given.

Note 2: Soil boring plots at base of slope near Scajaquada Creek. This boring location is not correct so coordinates are not given.

Table J-6 Worksheet to Estimate Ground Surface Elevations at the 31 Tonawanda Street Property NYSDEC Remedial Investigation 31 Tonawanda Street Off-Site Area, Site No. C915299A Buffalo, New York



| Boring | | Elevations (feet |) | Average | Maximum * | Estimated | |
|----------|----------|------------------|----------|-----------|------------|-----------|--|
| No. | Pt 1 | Pt 2 | Pt 3 | Elev (ft) | Diff. (in) | Elev (ft) | Notes |
| | | | | | Soil Bo | orings | |
| BH-1 | 580.9115 | 581.4050 | 581.3436 | 581.2200 | 5.9220 | 581.37 | Near TIN line (pts 2 & 3). Interpolated. |
| BH-2 | 580.9479 | 582.0239 | 581.6896 | 581.5538 | 12.9120 | 581.77 | Near TIN line (pts 2 & 3). Interpolated. |
| BH-3 | 582.2755 | 581.3561 | 581.9806 | 581.8707 | 11.0328 | 581.87 | Near center of triangle. Used average elevation. |
| BH-4 | 582.3026 | 582.1872 | 582.5591 | 582.3496 | 4.4628 | 582.36 | Near TIN line (pts 1 & 3). Interpolated. |
| BH-5 | 579.2602 | 578.8693 | 579.7690 | 579.2995 | 10.7964 | 579.37 | On TIN line (pts 1 & 3). Interpolated. |
| BH-6 | 580.0587 | 580.2141 | 579.9954 | 580.0894 | 2.6244 | 580.09 | 2.41 feet from center of triangle. Used average elevation. |
| BH-7 | 580.8985 | 582.2472 | 579.8825 | 581.0094 | 28.3764 | 581.44 | Interpolated bewteen 581 & 582 contour lines |
| BH-8 | N/A | N/A | N/A | N/A | N/A | N/A | Not within a triangle. Shown on slope to creek. This boring |
| ВН-9 | N/A | N/A | N/A | N/A | N/A | N/A | location is not correct. Not within a triangle. At base of slope to creek. This boring location is not correct. |
| BH-10 | N/A | N/A | N/A | N/A | N/A | N/A | Within building. Floor elevations are not available. |
| BH5-1S | 579.2602 | 578.8693 | 579.7690 | 579.2995 | 10.7964 | 579.49 | Near TIN line (pts 1 & 3). Interpolated. |
| BH5-2S | 579.2602 | 578.8693 | 579.7690 | 579.2995 | 10.7964 | 579.62 | Near TIN line (pts 1 & 3). Interpolated. |
| BH5-3S | N/A | N/A | N/A | N/A | N/A | 579.77 | Boring 0.30 feet from 579.769. Used rounded elevation. |
| BH5-4S | 579.5198 | 580.6180 | 579.7690 | 579.9689 | 13.1784 | 580.09 | On TIN line (pts 2 & 3). Interpolated. |
| BH5-1N | 578.8693 | 578.8864 | 579.2602 | 579.0053 | 4.6908 | 579.26 | Boring 3.37 feet from 579.2602. Used rounded elevation. |
| BH5-2N | 579.6914 | 578.8864 | 579.2602 | 579.2793 | 9.6600 | 579.28 | 3.15 feet from center of triangle. Used average elevation. |
| BH5-3N | 579.6914 | 578.8864 | 579.0758 | 579.2179 | 9.6600 | 579.53 | Near TIN line (pts 1 & 2). Interpolated. |
| C-1 | N/A | N/A | N/A | N/A | N/A | N/A | Within building. Floor elevations are not available. |
| C-2 | N/A | N/A | N/A | N/A | N/A | N/A | Within building. Floor elevations are not available. |
| C-3 | N/A | N/A | N/A | N/A | N/A | N/A | Within building. Floor elevations are not available. |
| C-4 | N/A | N/A | N/A | N/A | N/A | N/A | Within building. Floor elevations are not available. |
| 31-BH-1 | 579.5198 | 580.6180 | 579.7690 | 579.9689 | 13.1784 | 580.46 | Near TIN line (pts 2 & 3). Interpolated. |
| 31-BH-2 | 579.0758 | 579.6758 | 579.6914 | 579.4810 | 7.3872 | 579.48 | 3.77 feet from center of triangle. Used average elevation. |
| 31-BH-3S | N/A | N/A | N/A | N/A | N/A | 579.08 | Not within a triangle. Estimated from contour lines. |
| 31-BH-4 | 579.3728 | 581.4002 | 580.2013 | 580.3248 | 24.3288 | 580.32 | 2.17 feet from center of triangle. Used average elevation. |
| 31-BH-5 | 581.4209 | 582.2523 | 582.8766 | 582.1833 | 17.4684 | 582.18 | 4.48 feet from center of triangle. Used average elevation. |
| 31-BH-6 | N/A | N/A | N/A | N/A | N/A | N/A | Not within a triangle. Shown on slope to creek. This boring location is not correct. |

Table J-6 Worksheet to Estimate Ground Surface Elevations at the 31 Tonawanda Street Property NYSDEC Remedial Investigation 31 Tonawanda Street Off-Site Area, Site No. C915299A Buffalo, New York



| Boring | | Elevations (feet) | | Average | Maximum * | Estimated | |
|--------|------|-------------------|------|-----------|------------|-----------|--|
| No. | Pt 1 | Pt 2 | Pt 3 | Elev (ft) | Diff. (in) | Elev (ft) | Notes |
| | | | | | | | |
| SBH-1 | N/A | N/A | N/A | N/A | N/A | N/A | Within building. Floor elevations are not available. |
| SBH-2 | N/A | N/A | N/A | N/A | N/A | N/A | Within building. Floor elevations are not available. |
| SBH-3 | N/A | N/A | N/A | N/A | N/A | N/A | Within building. Floor elevations are not available. |
| SBH-4 | N/A | N/A | N/A | N/A | N/A | N/A | Within building. Floor elevations are not available. |
| SBH-5 | N/A | N/A | N/A | N/A | N/A | N/A | Within building. Floor elevations are not available. |
| SBH-6 | N/A | N/A | N/A | N/A | N/A | N/A | Within building. Floor elevations are not available. |
| SBH-7 | N/A | N/A | N/A | N/A | N/A | N/A | Within building. Floor elevations are not available. |
| SBH-8 | N/A | N/A | N/A | N/A | N/A | N/A | Within building. Floor elevations are not available. |

Notes:

The 31 & 150 Tonawanda Street AutoCAD survey drawing contains spot elevations for the ground surface. I drew TIN lines between the elevations to envelope the soil borings completed at the site. For each boring shown on Figures 3 & 3A of the BCP RI Report, I have tabulated the 3 closest ground surface elevations. From these data I estimated the ground surface elevation for each boring.

N/A = Not Applicable.

Pink Shaded Values = Difference between the highest and lowest elevation differ by 6 inches or more.

^{* =} Elevation difference between the highest and lowest elevations.

57-71 TONAWANDA STREET SITE NO. C915024

Coordinates are not available for the soil borings and monitoring wells completed during the 1990 DEC Phase II Investigation, nor for the soil borings completed by RETEC in 1998 along what is now the bike path. However, the coordinates provided in Table 7 of the BCP Remedial Investigation Report are suspect as they plot at different locations at Google Maps than shown on Figure 3 of the Remedial Investigation Report. In addition, the monitoring wells do not plot over the flush mounts, which can clearly be observed on the aerial photo of Google Maps. Ground surface elevations are also lacking as they are not available for the soil boring completed during the 1990 DEC Phase II Investigation nor for the soil borings and test pits completed during the BCP Remedial Investigation.

In order to obtain coordinates and ground surface elevations for the soil borings and test pits completed at the site, I needed to produce a composite map of the site. This composite map included the 1992 Phase II Report site survey map showing the soil boring and well locations, the 1998 survey map showing the RETEC soil boring locations, Figure 2 (Phase II Sample Locations) from the 57-71 Tonawanda Street BCP RI Report, Figure 3 (RI Investigation Plan) from the 57-71 Tonawanda Street BCP RI Report, Figure 5 (RI GW Contours and Analytical Results) from the 57-71 Tonawanda Street BCP RI Report, and the AutoCAD file of the property survey that I obtained from the BCP applicant.

This process began on July 20, 2022 and was completed on October 10, 2022. Each drawing was first converted to an AutoCAD drawing, then the six (6) AutoCAD drawings were merged to produce a single drawing for the 57-71 Tonawanda Street BCP Site. Unfortunately, the AutoCAD file of the property survey was not in the State Plane New York West coordinate system. As a result, I added the DEC survey coordinates for the buildings at 31 & 57-71 Tonawanda Street, then moved the composite drawing to those locations. I used the NW corner of the building at 31 Tonawanda Street as the insertion point. A slight rotation of the drawing produced a nearly perfect fit with the other surveyed locations. In fact, a comparison of the coordinates for manholes common to the 31, 57-71, and 68 Tonawanda Street property surveys matched to within 2.4 inches or less.

At this point I was able to obtain the coordinates for the soil borings and test pits completed at the site. In addition, using spot elevations and the TIN lines from the 57-71 property survey, I was able to estimate ground surface elevations. These coordinates and elevations are summarized in Table J-7, while the elevation worksheet is provided as Table J-8.

Table J-7 Survey Data for the 57-71 Tonawanda Street BCP Site NYSDEC Remedial Investigation 31 Tonawanda Street Off-Site Area, Site No. C915299A Buffalo, New York



| Boring & | New York S | | Ground | | |
|----------|--------------|--------------|---------------|------------------------|--|
| Test Pit | | inates | Surface Elev. | | |
| No. | Easting (x) | Northing (y) | (ft. amsl) | Description | Notes |
| | | | | Soil Borings | |
| B-1 | 1064499.8888 | 1067899.2073 | 580.86 | Phase II Investigation | |
| BH-01 | 1064628.7170 | 1067883.2798 | 578.04 | BCP RI boring | |
| BH-02 | 1064725.6733 | 1067956.0556 | 578.34 | BCP RI boring | |
| BH-03 | 1064811.3564 | 1068035.5053 | 578.58 | BCP RI boring | |
| BH-04 | 1064703.8300 | 1068009.4551 | 578.98 | BCP RI boring | |
| BH-05 | 1064689.7450 | 1068060.4365 | 580.09 | BCP RI boring | |
| BH-06 | 1064637.2436 | 1068073.2004 | 581.42 | BCP RI boring | |
| BH-07 | 1064602.2389 | 1068034.3671 | 580.52 | BCP RI boring | |
| BH-08 | 1064602.0713 | 1067969.3216 | 579.70 | BCP RI boring | |
| BH-09 | 1064540.4512 | 1067953.4555 | 580.56 | BCP RI boring | |
| BH-10 | 1064461.1391 | 1067922.6996 | 582.09 | BCP RI boring | |
| BH-11 | 1064451.3078 | 1068012.5568 | 582.56 | BCP RI boring | |
| BH-12 | 1064487.3361 | 1067927.4465 | 581.61 | BCP RI boring | |
| BH-13 | 1064471.6367 | 1068092.9856 | 585.67 | BCP RI boring | |
| SSB-1 | 1064410.8289 | 1067941.8397 | NS | BCP RI boring | Within building. Floor elevations are not available. |
| SSB-2 | 1064354.7816 | 1067968.8540 | NS | BCP RI boring | Within building. Floor elevations are not available. |
| SSB-3 | 1064297.7097 | 1067953.1947 | NS | BCP RI boring | Within building. Floor elevations are not available. |
| SSB-4 | 1064302.7172 | 1068003.0792 | NS | BCP RI boring | Within building. Floor elevations are not available. |
| SSB-5 | 1064415.8364 | 1067991.7242 | NS | BCP RI boring | Within building. Floor elevations are not available. |
| SB-01 | 1064706.3811 | 1067905.2750 | ≈ 579 | RETEC boring | |
| SB-02 | 1064722.5720 | 1067929.7261 | ≈ 579 | RETEC boring | |
| SB-03 | 1064748.7884 | 1067945.8566 | ≈ 579 | RETEC boring | |
| SB-04 | 1064772.7696 | 1067975.0637 | ≈ 579 | RETEC boring | |
| | | | | Test Pits | |
| TP-14 | 1064448.7918 | 1068119.1063 | 587.51 | BCP RI test pit | |
| TP-15 | 1064402.0081 | 1068149.1719 | 587.88 | BCP RI test pit | |
| TP-16 | 1064359.9565 | 1068164.9457 | 587.60 | BCP RI test pit | |
| TP-17 | 1064334.5017 | 1068099.5506 | 587.21 | BCP RI test pit | |
| TP-18 | 1064398.3751 | 1068096.2613 | 587.20 | BCP RI test pit | |

Table J-7 Survey Data for the 57-71 Tonawanda Street BCP Site NYSDEC Remedial Investigation 31 Tonawanda Street Off-Site Area, Site No. C915299A Buffalo, New York



| | | State Plane | Ground | | |
|--------|--------------|--------------|---------------|-------------------------------|------------------------------------|
| Well | | inates | Surface Elev. | Donasis ties | Makas |
| No. | Easting (x) | Northing (y) | (ft. amsl) | Description | Notes |
| | | | ı | Monitoring Wells | |
| GW-1 | 1064530.1320 | 1068038.0412 | 581.00 | Phase II well (ground) | Well destroyed prior to the BCP RI |
| " | II | II | 580.69 | Phase II well (top of riser) | " |
| " | II | II | 581.01 | Phase II well (top of casing) | " |
| GW-2 | 1064771.9945 | 1068003.6534 | 577.10 | Phase II well (ground) | Well destroyed prior to the BCP RI |
| " | II | 11 | 579.46 | Phase II well (top of riser) | п |
| ıı ıı | п | п | 579.58 | Phase II well (top of casing) | п |
| GW-3 | 1064670.7584 | 1067915.6807 | 577.30 | Phase II well (ground) | Well destroyed prior to the BCP RI |
| " | п | п | 579.52 | Phase II well (top of riser) | п |
| " | п | п | 579.61 | Phase II well (top of casing) | п |
| MW-1 | 1064624.8444 | 1067886.9812 | 578.22 | BCP RI well (ground) | |
| " | II . | п | 577.70 | BCP RI well (top of riser) | |
| MW-2 | 1064773.0547 | 1068013.3477 | 578.53 | BCP RI well (ground) | |
| " | п | п | 578.33 | BCP RI well (top of riser) | |
| MW-3 | 1064613.9569 | 1067978.2588 | 579.65 | BCP RI well (ground) | |
| " | II . | п | 579.15 | BCP RI well (top of riser) | |
| MW-4 | 1064251.8012 | 1067973.9167 | 582.79 | BCP RI well (ground) | |
| " | II . | " | 582.75 | BCP RI well (top of riser) | |
| MW-5 | 1064277.7818 | 1068176.0533 | 584.80 | BCP RI well (ground) | |
| " | II . | II . | 584.00 | BCP RI well (top of riser) | |
| MW-100 | 1064730.9733 | 1067946.8962 | 578.82 | DEC RI well (ground) | Also in Table J-1 |
| " | 11 | " | 578.56 | DEC RI well (top of riser) | " |
| MW-103 | 1064847.3382 | 1068055.9210 | 578.81 | DEC RI well (ground) | Also in Table J-1 |
| " | II | II . | 578.37 | DEC RI well (top of riser) | ш |
| MW-106 | 1065042.8495 | 1068182.8885 | 580.26 | DEC RI well (ground) | Also in Table J-1 |
| " | п | " | 579.84 | DEC RI well (top of riser) | п |

Notes:

Horizontal coordinates are relative to the State Plane New York West Zone of the North American Datum (NAD) of 1983.

N/A = Not Applicable.

NS = Not Surveyed.

ft. amsl = feet above mean sea level.

Blue shaded elevations are from the DEC Phase II Investigation Report dated February 1992.

Green shaded elevations are listed on the soil boring logs prepared by RETEC in December 1998.

Table J-7

Survey Data for the 57-71 Tonawanda Street BCP Site NYSDEC Remedial Investigation 31 Tonawanda Street Off-Site Area, Site No. C915299A Buffalo, New York



Notes (continued):

Grey shaded elevations are from Table 8 (Groundwater Elevations) of the BE3 RI Report dated May 2019.

Orange shaded elevations were estimated from the TIN lines on the 57-71 Tonawanda Street AutoCAD property survey drawing.

Yellow shaded coordinates and elevations were survyed by the DEC in 2020 as part of the 31 Tonawanda Street Off-Site Investigation.

A worksheet to estimate ground surface elevations was not prepared for this site.

Table J-8 Worksheet to Estimate Ground Surface Elevations at the 57-71 Tonawanda Street BCP Site NYSDEC Remedial Investigation 31 Tonawanda Street Off-Site Area, Site No. C915299A Buffalo, New York



| Point | E | Elevations (feet |) | Average | Maximum * | Estimated | |
|-------|----------|------------------|----------|-----------|------------|-------------|--|
| No. | Pt 1 | Pt 2 | Pt 3 | Elev (ft) | Diff. (in) | Elev (ft) | Notes |
| | | | | | Soil | Borings | |
| B-1 | 579.8850 | 581.1680 | 581.4300 | 580.8277 | 18.5400 | 580.86 | Closest to TIN line (pts 1 & 2). Interpolated. |
| BH-01 | 577.9660 | 578.2360 | 578.1900 | 578.1307 | 3.2400 | 578.04 | Near TIN line (pts 1 & 2). Interpolated. |
| BH-02 | 578.2690 | 578.3810 | 578.5660 | 578.4053 | 3.5640 | 578.34 | Near TIN line (pts 1 & 3). Interpolated. |
| BH-03 | 578.4890 | 578.6510 | 578.9790 | 578.7063 | 5.8800 | 578.58 | Near TIN line (pts 1 & 2). Interpolated. |
| BH-04 | 578.5660 | 578.9780 | 578.3810 | 578.6417 | 7.1640 | 578.98 | 5.67 feet from pt 2. Used rounded elevation. |
| BH-05 | 580.2740 | 580.3330 | 579.6570 | 580.0880 | 8.1120 | 580.09 | 2.11 feet from center of triangle. Used average elevation. |
| BH-06 | 581.3220 | 581.5270 | 580.3330 | 581.0607 | 14.3280 | 581.42 | Near TIN line (pts 1 & 2). Interpolated. |
| BH-07 | 580.3830 | 580.6150 | 581.6880 | 580.8953 | 15.6600 | 580.52 | Near TIN line (pts 1 & 2). Interpolated. |
| BH-08 | 579.0190 | 579.9740 | 579.0050 | 579.3327 | 11.6280 | 579.70 | Near TIN line (pts 1 & 2). Interpolated. |
| BH-09 | 580.1890 | 580.8550 | 581.8220 | 580.9553 | 19.5960 | 580.56 | Near TIN line (pts 1 & 3). Interpolated. |
| BH-10 | 581.1680 | 582.6010 | 581.4300 | 581.7330 | 17.1960 | 582.09 | Near TIN line (pts 1 & 2). Interpolated. |
| BH-11 | 582.4500 | 582.5790 | 582.8650 | 582.6313 | 4.9800 | 582.56 | Near TIN line (pts 1 & 2). Interpolated. |
| BH-12 | 581.4300 | 581.8280 | 582.6010 | 581.9530 | 14.0520 | 581.61 | Near TIN line (pts 1 & 2). Interpolated. |
| BH-13 | 585.2960 | 586.9950 | 584.7130 | 585.6680 | 27.3840 | 585.67 | 3.69 feet from center of triangle. Used average elevation. |
| SSB-1 | N/A | N/A | N/A | N/A | N/A | N/A | Within building. Floor elevations are not available. |
| SSB-2 | N/A | N/A | N/A | N/A | N/A | N/A | Within building. Floor elevations are not available. |
| SSB-3 | N/A | N/A | N/A | N/A | N/A | N/A | Within building. Floor elevations are not available. |
| SSB-4 | N/A | N/A | N/A | N/A | N/A | N/A | Within building. Floor elevations are not available. |
| SSB-5 | N/A | N/A | N/A | N/A | N/A | N/A | Within building. Floor elevations are not available. |
| | | | | | Te | est Pits | |
| TP-14 | 587.4410 | 587.7130 | 586.9950 | 587.3830 | 8.6160 | 587.51 | Near TIN line (pts 1 & 2). Interpolated. |
| TP-15 | 587.6040 | 587.9980 | 587.2630 | 587.6217 | 8.8200 | 587.88 | Near TIN line (pts 1 & 2). Interpolated. |
| TP-16 | 587.2010 | 587.9710 | 587.5390 | 587.5703 | 9.2400 | 587.60 | Near TIN line (pts 1 & 2). Interpolated. |
| TP-17 | 587.0780 | 587.2540 | 587.2660 | 587.1993 | 2.2560 | 587.21 | Near TIN line (pts 1 & 2). Interpolated. |
| TP-18 | 587.2560 | 586.9950 | 587.6040 | 587.2850 | 7.3080 | 587.20 | Closest to TIN line (pts 1 & 2). Interpolated. |
| | | | | | Monito | oring Wells | |
| MW-1 | 578.1900 | 578.2360 | 577.9660 | 578.1307 | 3.2400 | 578.22 | Near TIN line (pts 1 & 2). Interpolated. |
| MW-2 | 578.4890 | 578.5220 | 578.5780 | 578.5297 | 1.0680 | 578.53 | Due to the small maximum difference, I used average elevation. |
| MW-3 | 579.0050 | 579.9740 | 579.0190 | 579.3327 | 11.6280 | 579.65 | Near TIN line (pts 1 & 2). Interpolated. |
| MW-4 | 582.5070 | 582.8860 | 582.9380 | 582.7770 | 5.1720 | 582.79 | Near TIN line (pts 1 & 2). Interpolated. |
| MW-5 | 584.8110 | 585.0820 | 584.5200 | 584.8043 | 6.7440 | 584.80 | 1.26 feet from center of triangle. Used average elevation. |

Table J-8



Notes:

The 57-71 Tonawanda Street AutoCAD survey drawing contained the TIN lines used to generate the topographic contours. Elevations are not shown for any of the TIN grid nodes, but elevations are attached to the associated TIN lines. For each boring, test pit & monitoring well shown on Figure 3 of the BCP RI Report, I have tabulated the 3 closest ground surface elevations. From these data I estimated the ground surface elevation for each boring, test pit & monitoring well.

* = Elevation difference between the highest and lowest elevations.

N/A = Not Applicable.

Pink Shaded Values = Difference between the highest and lowest elevation differ by 6 inches or more.

68 TONAWANDA STREET SITE NO. C915316

Coordinates and ground surface elevations are not available for the soil borings completed during the 2014 & 2017 Phase II Investigations, while ground surface elevations are not available for the soil borings and test pits completed during the BCP Remedial Investigation. However, the coordinates provided in Table 2 of the BCP Remedial Investigation Report are suspect as they plot at different locations at Google Maps than shown on Figure 2 of the Remedial Investigation Report. Figure 2 shows all of the soil borings, test pits, and monitoring wells completed at the site.

On July 19, 2022 I imported Figure 2 into AutoCAD to reproduce the figure and completed this task the following day. The base map for this figure was an aerial photo, so I also digitized buildings, roads and fences that were near the 68 Tonawanda Street BCP Site that were not included in the Regional Base Map.

On January 9, 2023 I emailed the BCP Applicant for this site about obtaining the AutoCAD file for the property survey. The BCP applicant sent me this file On January 11, 2023. This drawing was in the State Plane New York West coordinate system and contained many features at and near the site (e.g., buildings, Tonawanda Street, property lines, monitoring wells, railroad tracks, utilities, and fences).

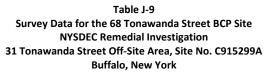
On January 18, 2023 I imported the Figure 2 AutoCAD drawing into the 68 Tonawanda Street property survey using the SE corner of the building as the insertion point. At this point I was able to obtain the coordinates for the soil borings and test pits completed at the site along with utility manholes, the building corners, and the property lines. In addition, using spot elevations and the TIN lines from the property survey, I was able to estimate ground surface elevations. These coordinates and elevations are summarized in Tables J-9 and J-10, while the elevation worksheet is provided as Table J-11.

It is important note that on November 8, 2018 I received the following email from BE3: "Some new information has come to our attention regarding groundwater and well elevations at the 68 Tonawanda St property. Yesterday, in reviewing the well survey elevations taken at the adjacent property, 150 Tonawanda St, we noticed that there was an elevation difference of almost ten feet between the well elevations at 68 and 150 Tonawanda St. Looking more into this, we contacted both surveyors (surveyors are different for each site) to determine how this could be possible. We found that the surveyor for 68 had miscalculated in their survey and all elevations associated with 68 Tonawanda are actually 9.84 ft low." The corrected elevations are also provided in Tables J-9 and J-10.

Table J-9
Survey Data for the 68 Tonawanda Street BCP Site
NYSDEC Remedial Investigation
31 Tonawanda Street Off-Site Area, Site No. C915299A
Buffalo, New York



| Soil | | State Plane | Original | Revised | | |
|---------------|--------------|------------------------|------------------------|------------------------|----------------------|-----------------------------------|
| Boring No. | Easting (x) | inates Northing (y) | GS Elev. (ft. amsl) | GS Elev. (ft. amsl) | Description | Notes |
| 140. | Lasting (x) | reor trining (y) | (it. aiiisi) | Soil Borings | • | Notes |
| BH-1 | 1064162.6811 | 1068380.6714 | 581.15 | 590.99 | 2014 Phase II boring | |
| BH-2 | 1064152.3575 | 1068282.8110 | 580.84 | 590.68 | 2014 Phase II boring | |
| BH-3 | 1064145.4820 | 1068196.7751 | 580.93 | 590.77 | 2014 Phase II boring | |
| BH-4 | 1064123.3695 | 1068052.2817 | 580.77 | 590.61 | 2014 Phase II boring | |
| BH-5 | 1064155.0665 | 1067994.6268 | 577.88 | 587.72 | 2014 Phase II boring | |
| BH-9 | 1064222.1099 | 1068859.2796 | 582.00 | 591.84 | 2014 Phase II boring | |
| BH-10 | N/A | N/A | N/A | N/A | N/A | Boring not shown on BCP RI figure |
| BH-11 | 1064190.8699 | 1068659.9466 | 582.69 | 592.53 | 2014 Phase II boring | |
| BH-1A | 1064235.5158 | 1068821.8699 | 581.30 | 591.14 | 2017 Phase II boring | |
| BH-2A | 1064216.5114 | 1068803.9588 | 582.23 | 592.07 | 2017 Phase II boring | |
| BH-3A | 1064194.5077 | 1068750.7560 | 582.41 | 592.25 | 2017 Phase II boring | |
| BH-4A | 1064193.1125 | 1068700.6765 | 582.58 | 592.42 | 2017 Phase II boring | |
| BH-5A | 1064165.6948 | 1068667.1310 | 582.74 | 592.58 | 2017 Phase II boring | |
| BH-6A | 1064155.8862 | 1068522.2421 | 582.49 | 592.33 | 2017 Phase II boring | |
| BH-7A | 1064157.4735 | 1068333.3629 | 580.97 | 590.81 | 2017 Phase II boring | |
| BH-8A | 1064142.1864 | 1068152.8984 | 580.65 | 590.49 | 2017 Phase II boring | |
| BH-9A | 1064123.0508 | 1068024.9998 | 580.17 | 590.01 | 2017 Phase II boring | |
| RI-01 | 1064153.5863 | 1068033.2625 | 578.47 | 588.31 | BCP RI boring | |
| RI-02 | 1064138.4181 | 1068112.6472 | 579.72 | 589.56 | BCP RI boring | |
| RI-03 | 1064120.0250 | 1068127.4550 | 580.18 | 590.02 | BCP RI boring | |
| RI-04 | 1064131.9295 | 1068271.1020 | 581.18 | 591.02 | BCP RI boring | |
| RI-05 | 1064139.2987 | 1068371.2554 | 581.68 | 591.52 | BCP RI boring | |
| RI-06 | 1064173.8083 | 1068512.3953 | 582.15 | 591.99 | BCP RI boring | |
| RI-07 | 1064183.7608 | 1068618.9369 | 582.44 | 592.28 | BCP RI boring | |
| RI-08 | 1064166.6142 | 1068639.4664 | 582.62 | 592.46 | BCP RI boring | |
| RI-09 | 1064224.0649 | 1068738.6059 | 582.62 | 592.46 | BCP RI boring | |
| RI-10 | 1064245.4481 | 1068831.4927 | 580.92 | 590.76 | BCP RI boring | |
| RI-11 | 1064249.6511 | 1068916.2917 | 581.68 | 591.52 | BCP RI boring | |
| RI-12 | 1064199.0190 | 1068934.1905 | 583.05 | 592.89 | BCP RI boring | |
| RI-13 | 1064195.2231 | 1068870.7589 | 582.86 | 592.70 | BCP RI boring | |
| RI-14 | 1064180.5386 | 1068795.7979 | 582.60 | 592.44 | BCP RI boring | |





| Test Pit | New York | State Plane | Original | Revised | | | | | | |
|----------|------------------|--------------|------------|------------|-----------------------------|------------|--|--|--|--|
| & Well | | inates | GS Elev. | GS Elev. | | | | | | |
| No. | Easting (x) | Northing (y) | (ft. amsl) | (ft. amsl) | Description | Notes | | | | |
| | | <u> </u> | • | Test Pits | • | | | | | |
| TP-1 | 1064235.7464 | 1068935.4343 | 582.77 | 592.61 | BCP RI test pit | | | | | |
| TP-2 | 1064229.9686 | 1068889.9389 | 582.16 | 592.00 | BCP RI test pit | | | | | |
| TP-3 | 1064176.9687 | 1068762.0807 | 582.44 | 592.28 | BCP RI test pit | | | | | |
| TP-4 | 1064130.7790 | 1068025.3254 | 580.29 | 590.13 | BCP RI test pit | | | | | |
| TP-5 | 1064132.8139 | 1068051.9375 | 580.86 | 590.70 | BCP RI test pit | | | | | |
| TP-6 | 1064126.0949 | 1068039.5441 | 580.54 | 590.38 | BCP RI test pit | | | | | |
| | Monitoring Wells | | | | | | | | | |
| MW-1 | 1064209.6817 | 1068956.2871 | N/A | 595.75 | BCP RI well (top of casing) | See Note 1 | | | | |
| II | II . | " | N/A | 595.41 | BCP RI well (top of riser) | " | | | | |
| II | II . | " | N/A | 592.62 | BCP RI well (ground) | " | | | | |
| MW-2 | 1064255.4506 | 1068951.6819 | N/A | 595.77 | BCP RI well (top of casing) | See Note 1 | | | | |
| II | II . | " | N/A | 595.39 | BCP RI well (top of riser) | " | | | | |
| II | II . | " | N/A | 592.62 | BCP RI well (ground) | " | | | | |
| MW-3 | 1064146.5464 | 1068433.6323 | N/A | 594.46 | BCP RI well (top of casing) | See Note 1 | | | | |
| " | n . | " | N/A | 594.10 | BCP RI well (top of riser) | " | | | | |
| " | II . | 11 | N/A | 591.92 | BCP RI well (ground) | п | | | | |
| MW-4 | 1064171.5705 | 1067991.1804 | N/A | 589.42 | BCP RI well (top of casing) | See Note 1 | | | | |
| " | п | 11 | N/A | 589.06 | BCP RI well (top of riser) | п | | | | |
| " | п | п | N/A | 586.72 | BCP RI well (ground) | п | | | | |

Notes:

Horizontal coordinates are relative to the State Plane New York West Zone of the North American Datum (NAD) of 1983.

The worksheet utilized to estimate ground surface elevations is given as Table J-10.

N/A = Not Applicable.

Coordinates and elevations were obtained by GMM in January 2023 from the AutoCAD file of the property survey after Figure 2 of the BCP RI Report was imported into the drawing.

Revised elevations were calculated by adding 9.84 feet to the elevations shown on the AutoCAD survey drawing. See discussion on the previous page for details.

Orange shaded elevations were estimated from the spot elevations and TIN lines of the 68 Tonawanda Street AutoCAD property survey drawing.

Note 1: Elevations are from a PDF drawing of an ALTA survey dated November 8, 2018. These elevations have been adjusted to account for the calculation error.

Table J-10
Survey Data for the 68 Tonawanda Street BCP Site
NYSDEC Remedial Investigation
31 Tonawanda Street Off-Site Area, Site No. C915299A
Buffalo, New York



| | New York S | State Plane | Original | Revised | | |
|-------|--------------|--------------|------------|----------------|------------------------|-------------------------------|
| Point | Coord | inates | GS Elev. | GS Elev. | | |
| No. | Easting (x) | Northing (y) | (ft. amsl) | (ft. amsl) | Description | Notes |
| | | | Manhol | es along Tonav | vanda Street | |
| 140 | 1064328.3670 | 1068873.7040 | 578.235 | 588.075 | San MH (Rim Elev) | |
| " | II | II . | 565.040 | 574.880 | South Invert Elevation | |
| 149 | 1064302.3190 | 1068623.5440 | 578.295 | 588.135 | San MH (Rim Elev) | |
| " | II | II . | 564.190 | 574.030 | N/S Invert Elevation | |
| " | II | II . | 573.390 | 583.230 | East Invert Elevation | |
| 152 | 1064270.3050 | 1068381.1480 | 577.966 | 587.806 | San MH (Rim Elev) | |
| " | II | II . | 563.290 | 573.130 | N/S Invert Elevation | |
| 157 | 1064247.4070 | 1068146.7560 | 575.093 | 584.933 | San MH (Rim Elev) | |
| " | II | II . | 562.390 | 572.230 | N/S Invert Elevation | |
| 164 | 1064246.0380 | 1067886.7540 | 572.429 | 582.269 | San MH (Rim Elev) | West Ave. at Tonawanda St. |
| 165 | 1064239.3130 | 1067884.0080 | 572.493 | 582.333 | WV (Surface Elev) | Tonawanda St. at West Ave. |
| 166 | 1064235.8640 | 1067877.4230 | 572.484 | 582.324 | WV (Surface Elev) | West Ave. at Tonawanda St. |
| 167 | 1064226.9220 | 1067887.6590 | 572.830 | 582.670 | Elec MH (Rim Elev) | West Ave. at Tonawanda St. |
| 168 | 1064222.6570 | 1067914.4320 | 572.887 | 582.727 | San MH (Rim Elev) | Tonawanda St. near West Ave. |
| 170 | 1064199.3850 | 1067879.6380 | 572.784 | 582.624 | Elec MH (Rim Elev) | Tonawanda St. at Dearborn St. |
| 172 | 1064173.5870 | 1067913.1870 | 574.403 | 584.243 | Elec MH (Rim Elev) | Dearborn Street |
| | | | | Building | | |
| N/A | 1064177.2816 | 1068015.9551 | N/A | N/A | SE Corner | |
| N/A | 1064137.6233 | 1068019.9247 | N/A | N/A | SW Corner | |
| N/A | 1064211.9528 | 1068758.0639 | N/A | N/A | NW Corner | |
| N/A | 1064251.9641 | 1068754.0380 | N/A | N/A | NE Corner | |
| | | | | Property Lin | es | |
| N/A | 1064172.5522 | 1067969.2677 | N/A | N/A | SE Corner | |
| N/A | 1064103.6551 | 1068044.4861 | N/A | N/A | SW Corner | |
| N/A | 1064189.6144 | 1068962.5968 | N/A | N/A | NW Corner | |
| N/A | 1064272.2226 | 1068954.2376 | N/A | N/A | NE Corner | |
| N/A | 1064203.4239 | 1068961.1994 | N/A | N/A | At 150 Property Line | |

Notes:

Horizontal coordinates are relative to the State Plane New York West Zone of the North American Datum (NAD) of 1983. N/A = Not Applicable. Elevations are not included in the 68 Tonawanda Street property survey AutoCAD drawing. WV = Water Valve.

Table J-10 Survey Data for the 68 Tonawanda Street BCP Site NYSDEC Remedial Investigation 31 Tonawanda Street Off-Site Area, Site No. C915299A Buffalo, New York



Notes (continued):

Revised elevations were calculated by adding 9.84 feet to the elevations shown on the AutoCAD survey drawing.

Green shaded elevations are the original surveyed elevations included in the 68 Tonawanda Street AutoCAD property survey drawing.

Table J-11 Worksheet to Estimate Ground Surface Elevations at the 68 Tonawanda Street BCP Site NYSDEC Remedial Investigation 31 Tonawanda Street Off-Site Area, Site No. C915299A Buffalo, New York



| Boring | Е | levations (feet |) | Average | Maximum * | Estimated | |
|--------|----------|-----------------|----------|-----------|------------|--------------|---|
| No. | Pt 1 | Pt 2 | Pt 3 | Elev (ft) | Diff. (in) | Elev (ft) | Notes |
| | | | | | : | Soil Borings | |
| BH-1 | 581.5810 | 580.6974 | 581.4033 | 581.2272 | 10.6032 | 581.15 | Near center of TIN line (pts 1 & 2). Interpolated. |
| BH-2 | 580.6929 | 581.8750 | 579.9577 | 580.8419 | 23.0076 | 580.84 | In center of triangle. Used average elevation. |
| BH-3 | 580.5650 | 581.1513 | N/A | 580.8582 | 7.0356 | 580.93 | Boring near TIN line. Interpolated. |
| BH-4 | 580.6660 | 581.0445 | 580.6120 | 580.7742 | 5.1900 | 580.77 | In center of triangle. Used average elevation. |
| BH-5 | 577.8808 | 578.1641 | N/A | 578.0225 | 3.3996 | 577.88 | Boring 6.16 feet from 577.8808. Used rounded elevation. |
| BH-9 | 581.8940 | 582.1600 | N/A | 582.0270 | 3.1920 | 582.00 | Boring near TIN line. Interpolated. |
| BH-10 | N/A | N/A | N/A | N/A | N/A | N/A | Boring not shown on BCP RI figure. |
| BH-11 | 582.7156 | 582.6050 | N/A | 582.6603 | 1.3272 | 582.69 | Boring 10.05 feet from 582.7156. Interpolated. |
| BH-1A | 580.1090 | 581.8940 | N/A | 581.0015 | 21.4200 | 581.30 | Boring near TIN line. Slightly closer to 581.894. Interpolated. |
| BH-2A | 580.1090 | 581.8940 | 582.4500 | 581.4843 | 28.0920 | 582.23 | In triangle but closer to TIN line (pts 2 & 3). Interpolated. |
| BH-3A | 582.3940 | 582.4584 | N/A | 582.4262 | 0.7728 | 582.41 | Boring 10.06 from 582.394. Interpolatede. |
| BH-4A | 582.7050 | 582.4584 | N/A | 582.5817 | 2.9592 | 582.58 | Boring near TIN line in the center. Interpolated. |
| BH-5A | 582.8640 | 582.6050 | N/A | 582.7345 | 3.1080 | 582.74 | Boring near TIN line in the center. Interpolated. |
| BH-6A | 582.5530 | 582.4285 | N/A | 582.4908 | 1.4940 | 582.49 | Not within a triangle. Closest elevs shown. Used average elev. |
| BH-7A | 581.2750 | 580.2439 | 581.4033 | 580.9741 | 13.9128 | 580.97 | Near center of triangle. Used average elevation. |
| BH-8A | 580.9810 | 580.5460 | N/A | 580.7635 | 5.2200 | 580.65 | Boring 5.18 feet from 580.546. Interpolated. |
| BH-9A | 581.0445 | 579.9000 | 580.6660 | 580.5368 | 13.7340 | 580.17 | Near TIN line (pts 1 & 2). Boring near test pit 4. Interpolated. |
| RI-01 | 578.4700 | N/A | N/A | N/A | N/A | 578.47 | In building; closest floor elevation. Used rounded elevation. |
| RI-02 | 580.9810 | 580.3790 | 579.0792 | 580.1464 | 22.8216 | 579.72 | Near center of TIN line (pts 2 & 3). Interpolated. |
| RI-03 | 580.1800 | N/A | N/A | N/A | N/A | 580.18 | Boring 2.25 feet from spot elevation. Used rounded elevation. |
| RI-04 | 581.8750 | 580.7440 | 580.1660 | 580.9283 | 20.5080 | 581.18 | In center of large triangle. Closest to TIN line (pts 1 & 3). Interpolated. |
| RI-05 | 581.7180 | 581.5810 | N/A | 581.6495 | 1.6440 | 581.68 | Boring on TIN line; closer to 581.718. Interpolated. |
| RI-06 | 581.7377 | 582.4285 | N/A | 582.0831 | 8.2896 | 582.15 | Boring on TIN line near center. Interpolated. |
| RI-07 | 582.7290 | 581.9089 | N/A | 582.3190 | 9.8412 | 582.44 | Boring near TIN line; slightly closer to 582.729. Interpolated. |
| RI-08 | 582.7156 | 582.6050 | 582.7290 | 582.6832 | 1.4880 | 582.62 | Boring 7.37 feet from 582.605. Near TIN line (pts 2 & 3). Interpolated. |
| RI-09 | 582.5800 | 582.6600 | N/A | 582.6200 | 0.9600 | 582.62 | In building; closest floor elevations. Used average elevation. |
| RI-10 | 581.8940 | 579.8600 | 580.3620 | 580.7053 | 24.4080 | 580.92 | Near TIN line (pts 1 & 2). Interpolated. |
| RI-11 | 580.1242 | 582.1600 | 582.7700 | 581.6847 | 31.7496 | 581.68 | 5.52 feet from center of triangle. Used average elevation. |
| RI-12 | 583.3290 | 582.1600 | 582.7700 | 582.7530 | 1.1690 | 583.05 | Boring near TIN line (pts 1 & 2). Interpolated. |
| RI-13 | 583.3290 | 582.1600 | 583.1000 | 582.8630 | 14.0280 | 582.86 | 14.41 feet from center of large triangle. Used average elevation. |
| RI-14 | 582.4500 | 583.1000 | 582.2540 | 582.6013 | 10.1520 | 582.60 | 6.56 feet from center of triangle. Used average elevation. |

Table J-11 Worksheet to Estimate Ground Surface Elevations at the 68 Tonawanda Street BCP Site NYSDEC Remedial Investigation 31 Tonawanda Street Off-Site Area, Site No. C915299A Buffalo, New York



| Test Pit | Elevations (feet) | | Average | Maximum * | Estimated | | | | | |
|----------|-------------------|----------|----------|-----------|------------|-----------|---|--|--|--|
| No. | Pt 1 | Pt 2 | Pt 3 | Elev (ft) | Diff. (in) | Elev (ft) | Notes | | | |
| | Test Pits | | | | | | | | | |
| TP-1 | 582.7700 | N/A | N/A | N/A | N/A | 582.77 | Test pit 2.44 feet from spot elevation. Used rounded elevation. | | | |
| TP-2 | 582.1600 | N/A | N/A | N/A | N/A | 582.16 | Test pit 4.18 feet from spot elevation. Used rounded elevation. | | | |
| TP-3 | 582.3940 | 582.2540 | 582.7301 | 582.4594 | 1.6800 | 582.44 | Test pit near TIN line (pts 2 & 3). Interpolated. | | | |
| TP-4 | 581.0445 | 579.9000 | 579.9300 | 580.2915 | 13.7340 | 580.29 | 2.60 feet from center of triangle. Used average elevation. | | | |
| TP-5 | 581.0445 | 580.6120 | 580.6660 | 580.7742 | 5.1900 | 580.86 | Near TIN line (pts 1 & 2). Interpolated. | | | |
| TP-6 | 581.0445 | 579.9000 | 580.6660 | 580.5368 | 13.7340 | 580.54 | 3.76 feet from center of triangle. Used average elevation. | | | |

Notes:

The 68 Tonawanda Street AutoCAD drawing contains spot elevations for numerous features of the site including ground surface. The drawing also includes the TIN lines used to generate the topographic contours. Some of the TIN grid nodes, however, do not have spot elevations shown for them, but elevations are attached to the associated TIN lines. For each boring & test pit shown on Figure 2 of the BCP RI Report, I have tabulated the 3 closest ground surface elevations unless otherwise noted. From these data I estimated the ground surface elevation for each boring and test pit.

* = Elevation difference between the highest and lowest elevations.

N/A = Not Applicable.

Orange Shaded Elevations = Spot elevations shown on the drawing and should have greater weight than other elevations.

Green Shaded Elevations = Spot elevations that are listed as FL. One of these points is listed as Floor, but they are outside the building.

Blue Shaded Elevation = Elevation for a gate post. Presummed to be ground surface.

Yellow Shaded Values = Difference between average and closest elevations differ by 6 inches or more.

Pink Shaded Values = Difference between the highest and lowest elevation differ by 6 inches or more.

150 TONAWANDA STREET SITE NO. C915299

Coordinates and ground surface elevations are not available for the test pits completed during the 2016 Phase II Investigation, while ground surface elevations are not available for the soil borings completed during the BCP Remedial Investigation. However, the coordinates provided in Table 6 of the BCP Remedial Investigation Report are suspect as they plot at vastly different locations at Google Maps than shown on Figure 2 of the Remedial Investigation Report.

In order to obtain coordinates and ground surface elevations for the soil borings and test pits completed at the site, I needed to first produce a composite map for the site. This composite map included the Figure 2 (Soil Analytical Results) from the 31 Tonawanda Street BCP RI Report, and the AutoCAD file of the property survey that I obtained from the BCP applicant. In addition to the RI soil borings, Figure 2 includes the test pits completed during the 2016 Phase II Investigation.

This process began on July 19, 2022 and was completed the following day. I first converted Figure 2 to an AutoCAD drawing, then imported it into the 150 Tonawanda Street property survey AutoCAD drawing. Since the base map for Figure 2 was a property survey, the fit of the property lines of the merged drawing was perfect.

At this point I was able to obtain the coordinates for the soil borings and test pits completed at the site. In addition, using spot elevations and TIN lines from the 150 Tonawanda Street property survey, I was able to estimate ground surface elevations. These coordinates and elevations are summarized in Table J-12, while the elevation worksheet is provided as Table J-13.

Table J-12
Survey Data for the 150 Tonawanda Street Property
NYSDEC Remedial Investigation
31 Tonawanda Street Off-Site Area, Site No. C915299A
Buffalo, New York



| Boring, | New York | | Ground | | |
|-----------|--------------|--------------------------|-----------------------------|-----------------------------|---------------------------------|
| TP & Well | | inates | Surface Elev. (ft. amsl) | | |
| No. | Easting (x) | Easting (x) Northing (y) | | Description | Notes |
| | | | Soil | Borings | |
| BH-1 | 1064262.0968 | 1069019.2112 | 592.95 | BCP RI boring | |
| BH-2 | 1064248.0373 | 1069102.1686 | 593.65 | BCP RI boring | |
| BH-3 | 1064239.5349 | 1069237.4853 | 595.13 | BCP RI boring | |
| BH-4 | 1064272.8664 | 1069380.1171 | 593.28 | BCP RI boring | |
| BH-5 | 1064287.7916 | 1069453.5964 | 592.96 | BCP RI boring | |
| BH-6 | 1064318.5216 | 1069520.1149 | 593.00 | BCP RI boring | |
| | | | Te | st Pits | |
| TP-1 | 1064219.8574 | 1069053.7049 | 593.68 | Phase II ESA | |
| TP-2 | 1064225.9799 | 1069116.2200 | 594.16 | Phase II ESA | |
| TP-3 | 1064233.8807 | 1069164.9947 | 594.78 | Phase II ESA | |
| TP-4 | 1064276.1097 | 1069158.9873 | 593.73 | Phase II ESA | |
| TP-5 | 1064271.0659 | 1069217.8906 | 593.47 | Phase II ESA | |
| TP-6 | 1064258.9672 | 1069265.9796 | 595.18 | Phase II ESA | |
| TP-7 | 1064254.5049 | 1069315.9226 | 595.40 | Phase II ESA | |
| TP-8 | 1064297.5785 | 1069319.1150 | 591.33 | Phase II ESA | |
| TP-9 | 1064305.9962 | 1069408.7073 | 592.64 | Phase II ESA | |
| | | | Monito | oring Wells | |
| MW-1 | 1064219.8648 | 1069031.3881 | 593.20 | BCP RI well (ground) | Well removed during remediation |
| п | II . | п | 594.62 | BCP RI well (top of riser) | п |
| " | п | п | 595.75 | BCP RI well (top of casing) | п |
| MW-2 | 1064307.3693 | 1069383.1616 | 592.50 | BCP RI well (ground) | Well removed during remediation |
| " | п | п | 594.65 | BCP RI well (top of riser) | п |
| " | п | п | 594.93 | BCP RI well (top of casing) | п |
| MW-3 | 1064259.3787 | 1069436.2754 | 593.50 | BCP RI well (ground) | Well removed during remediation |
| 11 | п | п | 596.57 | BCP RI well (top of riser) | п |
| 11 | п | п | 596.80 | BCP RI well (top of casing) | п |
| MW-4 | 1064271.2277 | 1069087.6629 | 593.50 | BCP RI well (ground) | Well removed during remediation |
| " | п | п | 595.65 | BCP RI well (top of riser) | п |
| " | п | п | 595.81 | BCP RI well (top of casing) | п |

Table J-12

Survey Data for the 150 Tonawanda Street Property NYSDEC Remedial Investigation 31 Tonawanda Street Off-Site Area, Site No. C915299A Buffalo, New York



Notes:

Horizontal coordinates are relative to the State Plane New York West Zone of the North American Datum (NAD) of 1983. The worksheet utilized to estimate ground surface elevations is given as Table J-13.

N/A = Not Applicable.

NS = Not Surveyed.

Green shaded elevations are the original surveyed elevations prior to the installation of a cover system during remediation.

Orange shaded elevations were estimated from the spot elevations and TIN lines of the 150 Tonawanda Street AutoCAD property survey drawing.

Table J-13 Worksheet to Estimate Ground Surface Elevations at the 150 Tonawanda Street Property NYSDEC Remedial Investigation 31 Tonawanda Street Off-Site Area, Site No. C915299A Buffalo, New York



| Point | E | levations (feet |) | Average | Maximum * | Estimated | |
|-------|----------|-----------------|----------|-----------|------------|-----------|--|
| No. | Pt 1 | Pt 2 | Pt 3 | Elev (ft) | Diff. (in) | Elev (ft) | Notes |
| | | | | | Soil | Borings | |
| BH-1 | 592.8152 | 593.1747 | 592.8652 | 592.9517 | 4.3140 | 592.95 | Near center of triangle. Closer to TIN line (pts 1 & 2). Used avg. |
| BH-2 | 593.6463 | N/A | N/A | N/A | N/A | 593.65 | Boring 0.86 feet from 593.6463. Used rounded elevation. |
| BH-3 | 596.5601 | 594.4048 | 595.4571 | 595.4740 | 25.8636 | 595.13 | Boring near TIN line (pts 1 & 2). Interpolated. |
| BH-4 | 595.1168 | 592.0888 | 595.8332 | 594.3463 | 44.9328 | 593.28 | Boring 6.08 feet from 595.1168 & 5.57 feet from 592.0888. Note 1. |
| BH-5 | 592.7107 | 593.1531 | 592.4369 | 592.7669 | 8.5944 | 592.96 | Boring in triangle. Closest to 593.1531. Interpolated pts 2 & 3. |
| BH-6 | 592.6978 | 594.1838 | 592.0480 | 592.9765 | 25.6296 | 593.00 | Boring near TIN line (pts 1 & 2). Interpolated. |
| | | | | | Te | st Pits | |
| TP-1 | 594.6093 | 593.2422 | 593.1747 | 593.6754 | 17.2152 | 593.68 | Near center of triangle. Closer to TIN line (pts 1 & 2). Used avg. |
| TP-2 | 593.6463 | 594.6093 | 594.7597 | 594.3384 | 13.3608 | 594.16 | Near center of TIN line (pts 1 & 3). Interpolated. |
| TP-3 | 595.5280 | 594.0549 | 594.7597 | 594.7809 | 17.6772 | 594.78 | In center of triangle. Closer to 594.0549. Used average elevation. |
| TP-4 | 594.0549 | 593.6222 | N/A | 593.8386 | 5.1924 | 593.73 | On TIN line (pts 1 & 2). Interpolated. |
| TP-5 | 592.4931 | 594.4048 | 593.5903 | 593.4961 | 22.9404 | 593.47 | Test pit near TIN line (pts 1 & 2). Interpolated. |
| TP-6 | 595.3306 | 594.4048 | 593.5903 | 594.4419 | 20.8836 | 595.18 | Test pit near TIN line (pts 1 & 2). Interpolated. |
| TP-7 | 596.5601 | 595.0079 | 596.9578 | 596.1753 | 23.3988 | 595.40 | Test pit near TIN line (pts 1 & 2). Interpolated. |
| TP-8 | 591.1717 | 591.4214 | 591.9437 | 591.5123 | 9.2640 | 591.33 | Test pit near TIN line (pts 1 & 2). Interpolated. |
| TP-9 | 592.4792 | 592.4489 | 593.4619 | 592.7967 | 12.1560 | 592.64 | Test pit near TIN line (pts 2 & 3). Interpolated. |

Notes:

The 31 & 150 Tonawanda Street AutoCAD survey drawing contains spot elevations for the ground surface. I drew TIN lines between the elevations to envelope the soil borings and test pits completed at the site. For each boring & test pit shown on Figure 5 of the BCP RI Report, I have tabulated the 3 closest ground surface elevations. From these data I estimated the ground surface elevation for each boring & test pit.

N/A = Not Applicable.

Pink Shaded Values = Difference between the highest and lowest elevation differ by 6 inches or more.

Note 1: I Interploated the ground surface elevation from the contour lines.

^{* =} Elevation difference between the highest and lowest elevations.

1660 NIAGARA STREET SITE NO. C915311

Coordinates and ground surface elevations are not available for the soil borings and test pits completed during the 2015 Phase II Investigation. The three (3) soil borings completed as microwells, however, are the exception as coordinates and ground surface elevations are available for these borings. Coordinates for the monitoring wells installed during the BCP Remedial Investigation, and most of the test pits, are contained in an EDD file that was submitted to the NYSDEC for upload to EQuIS. Ground surface elevations for the monitoring wells and test pits are estimated. These coordinates and elevations are summarized in Table J-14.

In order to obtain coordinates and ground surface elevations for the soil borings and test pits completed during the 2015 Phase II Investigation, and the remaining test pits completed during the BCP Remedial Investigation, I needed to first produce a composite map for the site. This composite map included the Figure 2 (Sample Location Map) from the draft 1660 Niagara Street BCP RI Report, and the AutoCAD file of the property survey that I obtained from the BCP applicant. In addition to the RI soil borings, Figure 2 includes the soil borings and test pits completed during the 2015 Phase II Investigation.

This process began on March 3, 2023 and was completed the same day. I first copied Figure 2 into a new AutoCAD drawing. As I had previously added the BCP Remedial Investigation test pits to the 1660 Niagara Street AutoCAD drawing using the EDD coordinates, I copied and pasted these test pits into the Figure 2 drawing. I needed to scale and rotate this layer but found that the test pits overlaid perfectly. As a result, I added symbols for the Phase II ESA test pits and those without EDD coordinates. I also added symbols for the Phase II ESA soil borings.

At this point I was able to obtain the coordinates for the remaining soil borings and test pits completed at the site. In addition, using spot elevations and TIN lines from the 1660 Niagara Street property survey, I was able to estimate ground surface elevations. These coordinates and elevations are summarized in Table J-14, while the elevation worksheet is provided as Table J-15.

Table J-14 Survey Data for the 1660 Niagara Street BCP Site NYSDEC Remedial Investigation 31 Tonawanda Street Off-Site Area, Site No. C915299A Buffalo, New York

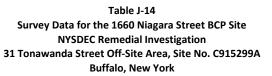


| Soil Boring | New York State Plane Coordinates | | Ground | | |
|-------------|-------------------------------------|--------------|---------------|------------------------|------------|
| & Test Pit | | | Surface Elev. | | |
| No. | Easting (x) | Northing (y) | (ft. amsl) | Description | Notes |
| | | | Borings | | |
| SB-1/TPMW1 | 1063936.9473 | 1067612.5070 | 576.77 | 2015 Phase II boring | See Note 1 |
| SB-2 | 1063968.0902 | 1067635.8189 | 577.33 | 2015 Phase II boring | |
| SB-3 | 1063941.6631 | 1067670.0514 | 577.40 | 2015 Phase II boring | |
| SB-4/TPMW2 | 1063901.2899 | 1067674.0202 | 576.85 | 2015 Phase II boring | |
| SB-5 | 1063826.0238 | 1067785.6640 | 579.05 | 2015 Phase II boring | |
| SB-5A | 1063820.4927 | 1067790.4753 | 578.85 | 2015 Phase II boring | |
| SB-6 | 1063838.7299 | 1067786.2812 | 578.25 | 2015 Phase II boring | |
| SB-7 | 1063851.6430 | 1067759.6605 | 578.14 | 2015 Phase II boring | |
| SB-8/TPMW3 | 1063823.5031 | 1067802.7557 | 578.14 | 2015 Phase II boring | |
| SB-1 | 1063993.3430 | 1067582.4380 | 578.88 | 2020 DEC boring | |
| | | | Tes | st Pits | |
| TP-1 | 1063773.3377 | 1067843.0620 | 578.71 | 2015 Phase II test pit | |
| TP-2 | 1063833.3144 | 1067793.5590 | 578.41 | 2015 Phase II test pit | |
| TP-3 | 1063835.2592 | 1067767.7675 | 578.02 | 2015 Phase II test pit | |
| TP-4 | 1063897.6660 | 1067702.3867 | 577.06 | 2015 Phase II test pit | |
| TP-5 | 1063963.3580 | 1067615.9444 | 577.14 | 2015 Phase II test pit | |
| TP-6 | 1063916.2224 | 1067661.8888 | 577.19 | 2015 Phase II test pit | |
| TP-7 | 1063872.4756 | 1067736.5641 | 576.98 | 2015 Phase II test pit | |
| TP-8 | 1063805.0532 | 1067798.5623 | 578.03 | 2015 Phase II test pit | |
| RI-TP-1 | 1063783.4682 | 1067829.4023 | 578.73 | BCP RI test pit | |
| RI-TP-2 | 1063868.9305 | 1067732.3687 | 576.98 | BCP RI test pit | |
| RI-TP-3 | 1063886.8770 | 1067712.6611 | 577.21 | BCP RI test pit | |
| RI-TP-4 | 1063894.2604 | 1067719.7116 | 577.29 | BCP RI test pit | |
| RI-TP-5 | 1063909.1743 | 1067702.4222 | 577.28 | BCP RI test pit | |
| RI-TP-6 | 1063901.8303 | 1067710.6042 | 577.19 | BCP RI test pit | |
| RI-TP-7 | 1063900.3925 | 1067691.1601 | 576.78 | BCP RI test pit | |
| RI-TP-8 | 1063938.7507 | 1067646.0515 | 577.24 | BCP RI test pit | |
| RI-TP-9 | 1063966.4677 | 1067604.3658 | 577.32 | BCP RI test pit | |
| RI-TP-10 | 1063946.2693 | 1067618.2864 | 576.94 | BCP RI test pit | |
| RI-TP-11 | 1063958.9533 | 1067585.5148 | 577.02 | BCP RI test pit | |
| RI-TP-12 | 1063931.2951 | 1067673.9425 | 577.40 | BCP RI test pit | |
| RI-TP-13 | 1063959.4507 | 1067646.9591 | 577.33 | BCP RI test pit | |

Table J-14 Survey Data for the 1660 Niagara Street BCP Site NYSDEC Remedial Investigation 31 Tonawanda Street Off-Site Area, Site No. C915299A Buffalo, New York



| Test Pit | New York S | State Plane | Ground | | |
|-----------|--------------|--------------|---------------|------------------------------|--|
| & Well | Coord | inates | Surface Elev. | | |
| No. | Easting (x) | Northing (y) | (ft. amsl) | Description | Notes |
| | | | Test Pits | (continued) | |
| RI-TP-14 | 1063956.9410 | 1067636.6505 | 577.30 | BCP RI test pit | |
| RI-TP-15 | 1063979.3363 | 1067620.8891 | 577.33 | BCP RI test pit | |
| RI-TP-8RE | NS | NS | N/A | BCP RI test pit | |
| RI-TP-16 | 1063931.5158 | 1067653.6124 | 577.23 | BCP RI test pit | |
| RI-TP-17 | 1063931.8442 | 1067664.9058 | 577.29 | BCP RI test pit | |
| RI-TP-18 | 1063940.2903 | 1067660.1317 | 577.35 | BCP RI test pit | |
| RI-TP-19 | 1063947.2511 | 1067653.8400 | 577.33 | BCP RI test pit | |
| RI-TP-20 | 1063929.4077 | 1067637.0803 | 577.17 | BCP RI test pit | |
| RI-TP-21 | 1063948.9254 | 1067634.3607 | 577.12 | BCP RI test pit | |
| RI-TP-22 | 1063966.3329 | 1067629.2866 | 577.33 | BCP RI test pit | |
| RI-TP-23 | 1063938.5003 | 1067615.7056 | 576.77 | BCP RI test pit | |
| RI-TP-24 | 1063922.4713 | 1067644.8536 | 577.04 | BCP RI test pit | |
| RI-TP-25 | 1063973.3116 | 1067635.4776 | 577.36 | BCP RI test pit | |
| RI-TP-26 | 1063915.7104 | 1067651.9085 | 577.01 | BCP RI test pit | |
| | | | Monito | ring Wells | |
| TPMW1 | 1063936.9473 | 1067612.5070 | 576.77 | Phase II well (ground) | See Note 2 |
| " | п | п | 581.17 | Phase II well (top of riser) | " |
| " | 1063936.8070 | 1067612.2055 | 577.20 | Phase II well (ground) | 2020 DEC survey |
| " | " | п | 582.20 | Phase II well (top of riser) | " |
| TPMW2 | 1063901.2899 | 1067674.0202 | 576.85 | Phase II well (ground) | Well destroyed during cover system |
| " | " | п | 581.55 | Phase II well (top of riser) | installation. See Note 2. |
| TPMW3 | 1063823.5031 | 1067802.7557 | 578.14 | Phase II well (ground) | Well destroyed during UST removal |
| п | п | п | 581.04 | Phase II well (top of riser) | IRM. See Note 2. |
| MW-1 | 1063784.7617 | 1067843.9939 | 578.29 | BCP RI well (ground) | See Note 2 |
| II . | " | " | 578.79 | BCP RI well (top of riser) | II . |
| " | 1063787.1321 | 1067844.3516 | 580.67 | BCP RI well (ground) | DEC survey after cover system install. |
| " | 11 | п | 580.40 | BCP RI well (top of riser) | Flush mount installed by DEC in 2020. |
| MW-2 | 1063819.0973 | 1067778.7528 | 577.15 | BCP RI well (ground) | See Note 2 |
| " | " | п | 577.65 | BCP RI well (top of riser) | п |
| " | 1063824.0844 | 1067781.5073 | 576.67 | BCP RI well (ground) | DEC survey after cover system install. |
| " | " | п | 578.50 | BCP RI well (top of riser) | Protective casing installed by DEC in |
| п | п | п | 579.53 | BCP RI well (top of casing) | 2020 |





| Well | | State Plane linates | Ground Surface Elev. | | |
|------------|--------------|------------------------|-------------------------|-----------------------------|--|
| No. | Easting (x) | Northing (y) | (ft. amsl) Description | | Notes |
| | | | Monitoring W | 'ells (continued) | |
| MW-3 | 1063873.5453 | 1067749.4565 | 576.82 | BCP RI well (ground) | Well destroyed during cover system |
| II | = | II | 577.32 | BCP RI well (top of riser) | installation. See Note 2. |
| 1660-MW-3R | 1063876.6478 | 1067748.5530 | 579.01 | DEC RI well (ground) | DEC replacement well. Flush mount |
| II | 11 | " | 578.63 | DEC RI well (top of riser) | installed. |
| MW-4 | 1063890.5111 | 1067687.7889 | 575.05 | BCP RI well (ground) | Well destroyed during cover system |
| II | II | u u | 575.55 | BCP RI well (top of riser) | installation. See Note 2. |
| MW-5 | 1063945.4002 | 1067667.4287 | 576.75 | BCP RI well (ground) | Well destroyed during cover system |
| II | II | " | 577.25 | BCP RI well (top of riser) | installation. See Note 2. |
| 1660-MW-5R | 1063939.7597 | 1067675.2249 | 578.02 | DEC RI well (ground) | DEC replacement well. Flush mount |
| II | II | u | 577.61 | DEC RI well (top of riser) | installed. |
| MW-6 | 1063956.1857 | 1067580.9129 | 576.70 | BCP RI well (ground) | See Note 2 |
| " | II | u | 577.20 | BCP RI well (top of riser) | " |
| " | 1063959.0103 | 1067585.0004 | 577.62 | DEC RI well (ground) | DEC survey after cover system install. |
| II | II . | II . | 579.91 | DEC RI well (top of riser) | Protective casing installed by DEC in |
| 11 | " | " | 580.76 | DEC RI well (top of casing) | 2020 |
| MW-7 | 1063995.7415 | 1067605.5823 | 577.21 | BCP RI well (ground) | See Note 2 |
| " | II | II . | 578.21 | BCP RI well (top of riser) | " |
| " | 1063998.3554 | 1067609.4297 | 577.64 | DEC RI well (ground) | DEC survey after cover system install. |
| " | " | " | 579.91 | DEC RI well (top of riser) | Protective casing installed by DEC in |
| " | п | II | 580.53 | DEC RI well (top of casing) | 2020 |
| MW-8 | 1063969.8407 | 1067565.9350 | 578.27 | DEC RI well (ground) | New DEC well. Protective casing |
| 11 | " | " | 580.80 | DEC RI well (top of riser) | installed. |
| п | п | 11 | 580.98 | DEC RI well (top of casing) | п |

Notes:

Horizontal coordinates are relative to the State Plane New York West Zone of the North American Datum (NAD) of 1983.

NS = Not Surveyed.

ft. amsl = feet above mean sea level.

Coordinates:

Blue shaded coordinates are from the EDD file that was submitted to the DEC for upload to EQuIS.

Orange shaded coordinates were surveyed by the BCP applicant and were obtained from the AutoCAD file that was provided to the DEC. Yellow shaded coordinates were surveyed by the DEC in 2020 as part of the 31 Tonawanda Street Off-Site Investigation.

Table J-14

Survey Data for the 1660 Niagara Street BCP Site NYSDEC Remedial Investigation 31 Tonawanda Street Off-Site Area, Site No. C915299A Buffalo, New York



Notes (continued):

Coordinates (continued):

Unshaded coordinates were obtained by GMM in March 2023 from the AutoCAD file of the property survey after Figure 2 of the BCP RI Report was imported into the drawing.

Elevations:

Blue shaded elevations are from the EDD file that was submitted to the DEC for upload to EQuIS.

Gray shaded elevations were calculated by adding the stickup to the ground surface elevation. Top of riser elevations were not surveyed.

Green shaded elevations were surveyed by the BCP applicant prior to the installation of a cover system during remediation.

Orange shaded elevations were surveyed by the BCP applicant and were obtained from the AutoCAD file that was provided to the DEC.

Pink shaded elevations were calculated by subtracting the stickup from the top of riser elevations. Ground surface was not surveyed.

Yellow shaded elevations were surveyed by the DEC in 2020 as part of the 31 Tonawanda Street Off-Site Investigation.

Unshaded elevations were estimated from the TIN lines on the 1660 Niagara Street AutoCAD property survey drawing.

Note 1: Coordinates are different from the EDD file and the DEC survey.

Note 2: The wells installed by LaBella were not completed with protective casings or flush mounts, so there are no top of casing elevations.

Table J-15 Worksheet to Estimate Ground Surface Elevations at the 1660 Niagara Street BCP Site NYSDEC Remedial Investigation 31 Tonawanda Street Off-Site Area, Site No. C915299A Buffalo, New York



| Point | | Elevations (feet |) | Average | Maximum * | Estimated | | | | |
|------------|-----------|------------------|----------|-----------|------------|-----------|--|--|--|--|
| No. | Pt 1 | Pt 2 | Pt 3 | Elev (ft) | Diff. (in) | Elev (ft) | Notes | | | |
| | | | | | Soil Borin | gs | | | | |
| SB-1/TPMW1 | N/A | N/A | N/A | N/A | N/A | 576.77 | Surface elevation was surveyed. | | | |
| SB-2 | 577.3953 | 577.3369 | 577.2614 | 577.3312 | 1.6068 | 577.33 | Maximum difference is small. Used average elevation. | | | |
| SB-3 | 577.4770 | 577.4251 | 577.3106 | 577.4042 | 1.9968 | 577.40 | Maximum difference is small. Used average elevation. | | | |
| SB-4/TPMW2 | N/A | N/A | N/A | N/A | N/A | 576.85 | Surface elevation was surveyed. | | | |
| SB-5 | 579.0178 | 579.0899 | N/A | 579.0539 | 0.8652 | 579.05 | Boring on TIN Line. Maximum difference is small. Used average elevation. | | | |
| SB-5A | 579.0178 | 579.0899 | 578.4318 | 578.8465 | 7.8972 | 578.85 | Boring 0.57 feet from center of TIN. Used average elevation. | | | |
| SB-6 | 578.3015 | 578.2000 | N/A | 578.2508 | 1.2180 | 578.25 | Boring near TIN Line. Maximum difference is small. Used average elevation. | | | |
| SB-7 | 578.2099 | 578.1046 | 577.9780 | 578.0975 | 2.7828 | 578.14 | Near TIN line (pts 1 & 2). Interpolated. | | | |
| SB-8/TPMW3 | N/A | N/A | N/A | N/A | N/A | 578.14 | Surface elevation was surveyed. | | | |
| SB-1 | N/A | N/A | N/A | N/A | N/A | 578.88 | Surface elevation was surveyed. | | | |
| | Test Pits | | | | | | | | | |
| TP-1 | 579.0678 | 578.5625 | 579.6254 | 579.0852 | 12.7548 | 578.71 | Near TIN line (pts 1 & 2). Interpolated. | | | |
| TP-2 | 578.3544 | 578.5875 | 578.3015 | 578.4145 | 3.4320 | 578.41 | Test pit 1.24 feet from center of TIN. Used average elevation. | | | |
| TP-3 | 577.9034 | 578.0787 | 578.2635 | 578.0819 | 4.3212 | 578.02 | Near TIN line (pts 1 & 2). Interpolated. | | | |
| TP-4 | 577.1420 | 577.0429 | N/A | 577.0925 | 1.1892 | 577.06 | Test pit is almost on TIN line. Interpolated. | | | |
| TP-5 | 577.3369 | 577.3000 | 576.7742 | 577.1370 | 6.7524 | 577.14 | Test pit 6.20 feet from center of TIN. Used average elevation. | | | |
| TP-6 | 577.1881 | 577.2614 | 576.9515 | 577.1337 | 3.7188 | 577.19 | Test pit 2.51 feet from pt 1. Used that elevation. | | | |
| TP-7 | 577.3290 | 576.7770 | 576.8272 | 576.9777 | 6.6240 | 576.98 | Test pit 3.03 feet from center of TIN. Used average elevation. | | | |
| TP-8 | 578.3977 | 577.9587 | 578.5639 | 578.3068 | 7.2624 | 578.03 | Near TIN line (pts 1 & 2). Interpolated. | | | |
| RI-TP-1 | 577.8206 | 579.0777 | 577.8762 | 578.2582 | 15.0852 | 578.73 | Near TIN line (pts 1 & 2). Interpolated. | | | |
| RI-TP-2 | 577.3290 | 576.7770 | 576.8272 | 576.9777 | 6.6240 | 576.98 | Test pit 2.57 feet from center of TIN. Used average elevation. | | | |
| RI-TP-3 | 577.2122 | 577.2896 | 577.3290 | 577.2769 | 1.4016 | 577.21 | Test pit 0.67 feet from pt 1. Used that elevation. | | | |
| RI-TP-4 | 577.2122 | 577.2896 | 577.0429 | 577.1816 | 2.9604 | 577.29 | Test pit 1.69 feet from pt 2. Used that elevation. | | | |
| RI-TP-5 | 577.1420 | 577.0429 | 577.3675 | 577.1841 | 3.8952 | 577.28 | Near TIN line (pts 1 & 3). Interpolated. | | | |
| RI-TP-6 | 577.2896 | 577.0429 | 577.3675 | 577.2333 | 3.8952 | 577.19 | Near TIN line (pts 2 & 3). Interpolated. | | | |
| RI-TP-7 | 577.1420 | 577.0429 | 576.6873 | 576.9574 | 5.4564 | 576.78 | Near TIN line (pts 1 & 3). Interpolated. | | | |
| RI-TP-8 | 577.1566 | 577.2614 | 576.9515 | 577.1232 | 3.7188 | 577.24 | Near TIN line (pts 1 & 2). Interpolated. | | | |
| RI-TP-9 | 577.3369 | 577.3000 | N/A | 577.3185 | 0.4428 | 577.32 | Test pit is almost on TIN line. Maximum difference is small. Used average elevation. | | | |
| RI-TP-10 | 577.3369 | 577.2614 | 576.7742 | 577.1242 | 6.7524 | 576.94 | Near TIN line (pts 1 & 3). Interpolated. | | | |

Table J-15 Worksheet to Estimate Ground Surface Elevations at the 1660 Niagara Street BCP Site NYSDEC Remedial Investigation 31 Tonawanda Street Off-Site Area, Site No. C915299A Buffalo, New York



| Point | E . | Elevations (feet | | Average | Maximum * | Estimated | |
|-----------|----------|------------------|----------|-----------|-----------------|-----------|---|
| No. | Pt 1 | Pt 2 | Pt 3 | Elev (ft) | Diff. (in) | Elev (ft) | Notes |
| | | | | | Test Pits (cont | inued) | |
| RI-TP-11 | 577.3000 | 577.0506 | 576.7090 | 577.0199 | 7.0920 | 577.02 | Test pit 3.29 feet from center of TIN. Used average elevation. |
| RI-TP-12 | 577.4770 | 577.4251 | 577.3106 | 577.4042 | 1.9968 | 577.40 | Maximum difference is small. Used average elevation. |
| RI-TP-13 | 577.3953 | 577.3369 | 577.2614 | 577.3312 | 1.6068 | 577.33 | Maximum difference is small. Used average elevation. |
| RI-TP-14 | 577.3369 | 577.2614 | 576.7742 | 577.1242 | 6.7524 | 577.30 | Near TIN line (pts 1 & 2). Interpolated. |
| RI-TP-15 | 577.3369 | 577.3174 | 577.4118 | 577.3554 | 1.1328 | 577.33 | Near center of TIN line (pts 1 & 2). Used average line elevation. |
| RI-TP-8RE | N/A | N/A | N/A | N/A | N/A | N/A | Test pit is not shown on Figure 2 of the LaBella BCP RI Report. |
| RI-TP-16 | 577.1881 | 577.2614 | 576.9515 | 577.1337 | 3.7188 | 577.23 | Near TIN line (pts 1 & 2). Interpolated. |
| RI-TP-17 | 577.3106 | 577.4770 | 577.2614 | 577.3497 | 2.5872 | 577.29 | Near TIN line (pts 1 & 3). Interpolated. |
| RI-TP-18 | 577.3106 | 577.4770 | 577.2614 | 577.3497 | 2.5872 | 577.35 | Test pit 2.14 feet from center of TIN. Used average elevation. |
| RI-TP-19 | 577.3106 | 577.4770 | 577.2614 | 577.3497 | 2.5872 | 577.33 | Near TIN line (pts 2 & 3). Interpolated. |
| RI-TP-20 | 577.1566 | 577.2614 | 576.9515 | 577.1232 | 3.7188 | 577.17 | Near TIN line (pts 1 & 2). Interpolated. |
| RI-TP-21 | 577.3369 | 577.2614 | 576.7742 | 577.1242 | 6.7524 | 577.12 | Test pit 5.10 feet from center of TIN. Used average elevation. |
| RI-TP-22 | 577.3369 | 577.2614 | 576.7742 | 577.1242 | 6.7524 | 577.33 | Near TIN line (pts 1 & 2). Interpolated. |
| RI-TP-23 | 577.3369 | 577.2614 | 576.7742 | 577.1242 | 6.7524 | 576.77 | Test pit 3.56 feet from pt 3. Used that elevation. |
| RI-TP-24 | 577.1566 | 577.2614 | 576.9515 | 577.1232 | 3.7188 | 577.04 | Equidistant between two Tin lines. Interpolated twice. Same |
| DI TD 25 | F77 2474 | F77 2266 | F77 444C | F77 255 4 | 4 4220 | 577.26 | elevation to 2 decimal places. |
| RI-TP-25 | 577.3174 | 577.3369 | 577.4118 | 577.3554 | 1.1328 | 577.36 | Maximum difference is small. Used average elevation. |
| RI-TP-26 | 577.1881 | 577.2614 | 576.9515 | 577.1337 | 3.7188 | 577.01 | Near TIN line (pts 1 & 3). Interpolated. |

Notes:

The 1660 Niagara Street AutoCAD survey drawing contains spot elevations for the ground surface. I drew TIN lines between the elevations to envelope the soil borings & test pits completed at the site. For each boring & test pit shown on Figure 2 of the Draft BCP RI Report, I have tabulated the 3 closest ground surface elevations. From these data I estimated the ground surface elevation for each boring.

N/A = Not Applicable.

Orange shaded elevations were surveyed by the BCP applicant and were obtained from the AutoCAD file that was provided to the DEC.

Pink Shaded Values = Difference between the highest and lowest elevation differ by 6 inches or more.

Yellow shaded elevations were surveyed by the DEC in 2020 as part of the 31 Tonawanda Street Off-Site Investigation.

^{* =} Elevation difference between the highest and lowest elevations.