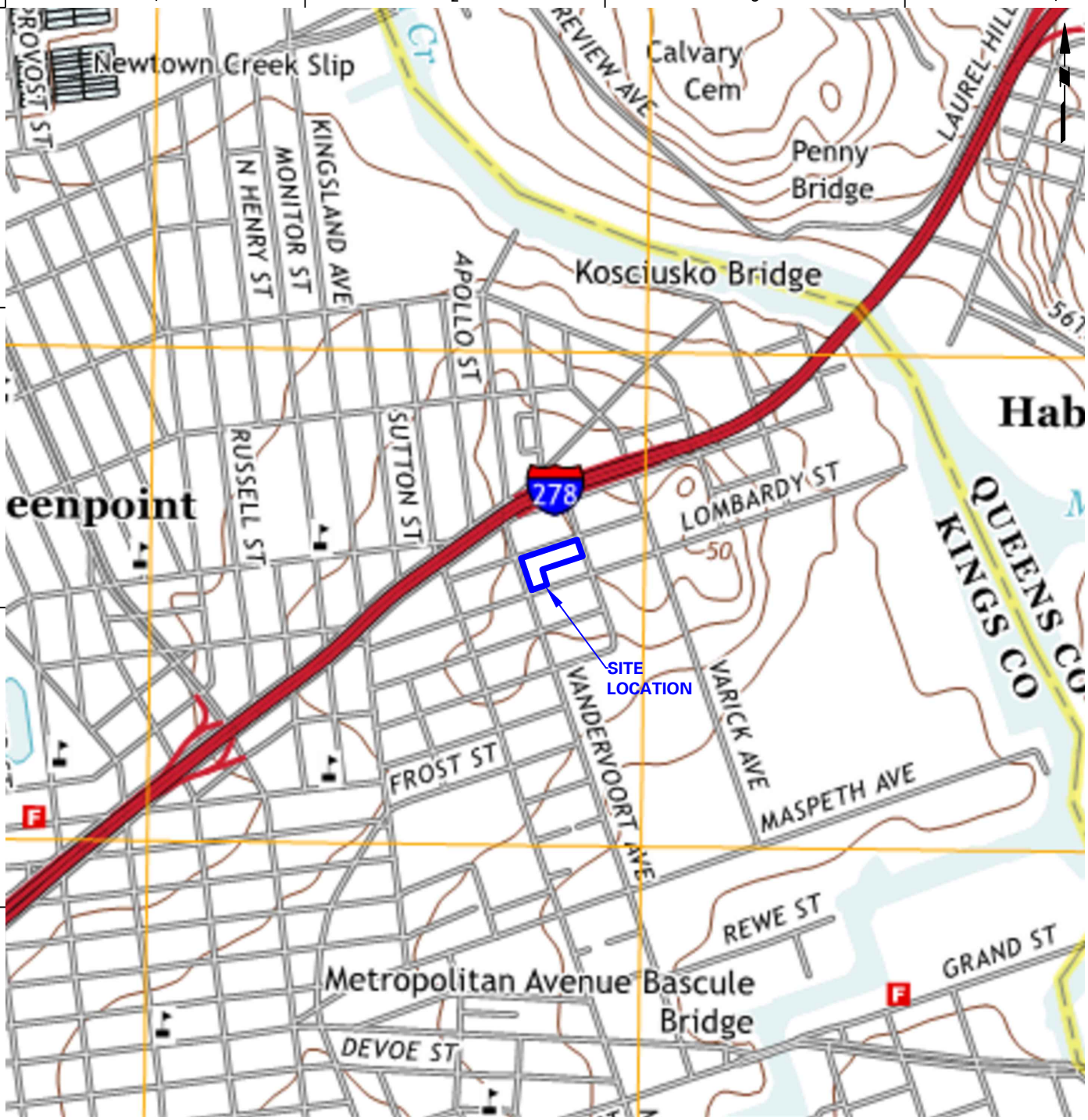
FIGURES



WARNING: IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

MAP REFERENCE: USGS BROOKLYN, N.Y. TOPOGRAPHIC QUADRANGLE

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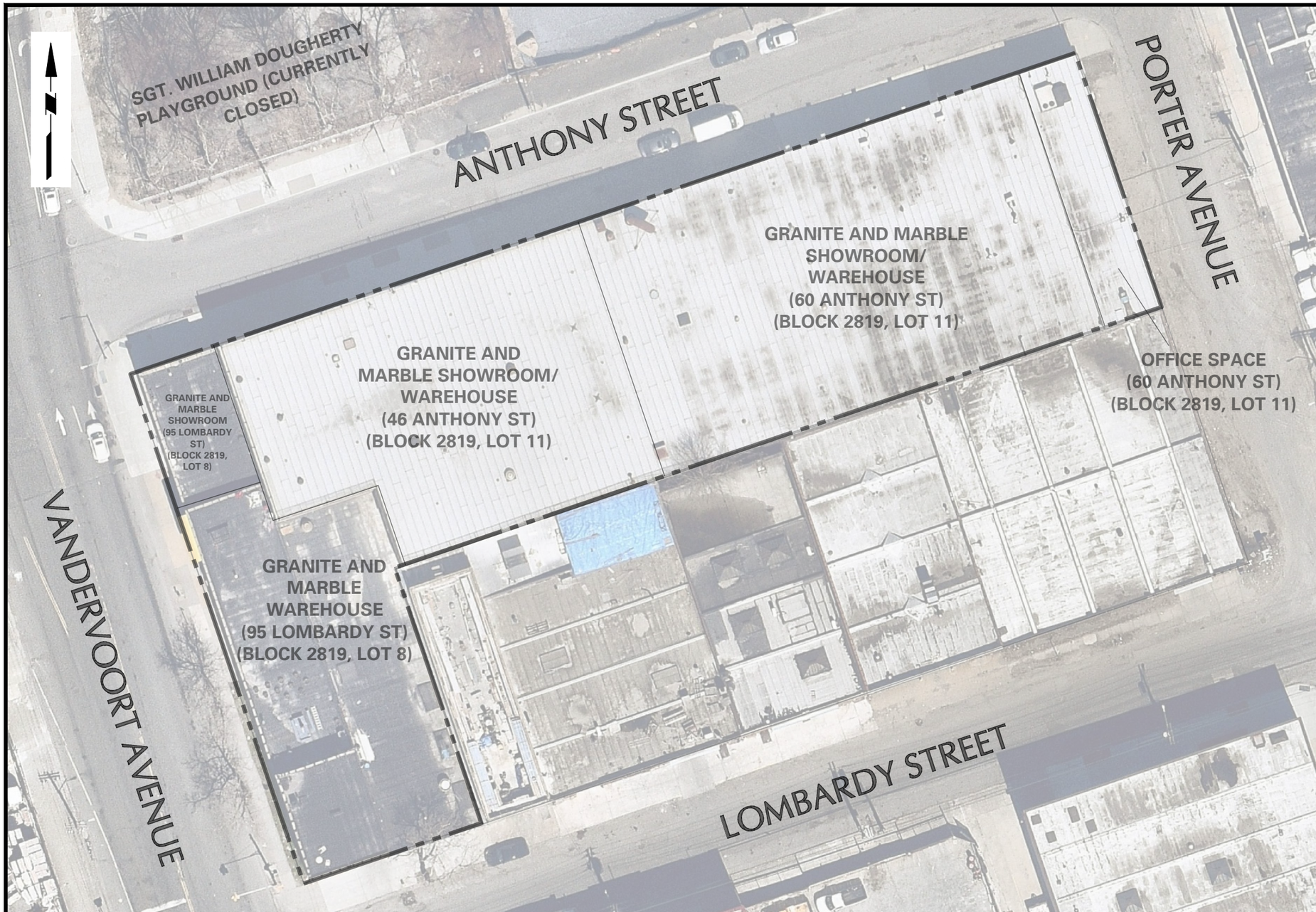
Project	Figure Title	Project No. 170157201	Figure
FORMER ACME STEEL/METAL WORKS NYSDEC SITE No. 224131 95 LOMBARDY STREET / 46 ANTHONY STREET BROOKLYN NEW YORK	SITE LOCATION MAP	Date 08/31/2017 Scale 1" = 1,000' Drawn By PTF / Checked By GN Submission Date	1 Sheet 1 of 21

Filename: \\langan.com\data\NYC\data2\170157201\Cadd Data - 170157201\SRIR\224131\Figure 1 - Site Location Map.dwg Date: 1/4/2018 Time: 13:19 User: nkung Style Table: Langan.stb Layout: ANSIA-BP



LEGEND:

SITE BOUNDARY

BUILDING OUTLINE

NOTES:

1. BASE MAP SOURCE: NEARMAP.COM AERIAL PHOTO DATED APRIL 9, 2017

40 0 10 25 40

SCALE IN FEET

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FORMER ACME STEEL/METAL WORKS

NYSDEC SITE No. 224131
95 LOMBARDY STREET/ 46 ANTHONY STREET

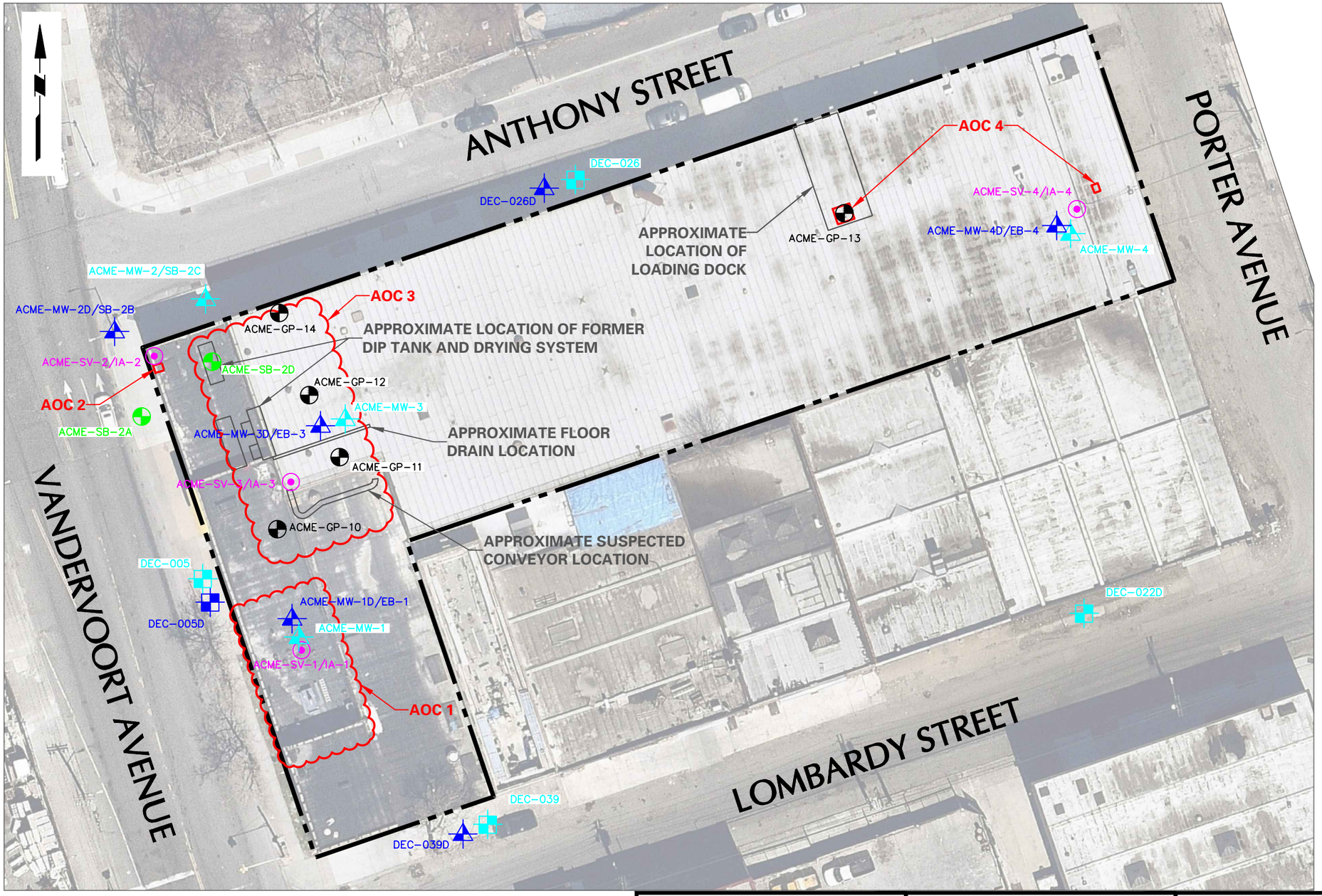
BROOKLYN **NEW YORK**

Figure Title

SITE PLAN

Project No. 170157201	Figure No. 2
Date 08/31/2017	
Scale 1" = 40'	
Drawn By PTF / Checked By GN	
Submission Date	SHEET 2 of 21

Filename: \\Langan.com\data\NY\data2\170157201\Cadd Data - 170157201\SRIR\224131\Figure 2 - Site Plan.dwg Date: 1/16/2018 Time: 16:24 User: pfarnham Style Table: Langan.stb Layout: ANSIB-BLI



LEGEND:

- SITE BOUNDARY
- SITE FEATURE
- ACME-SB-2A — RI SOIL BORING LOCATION
- ACME-MW-1D/EB-1 — RI SOIL BORING AND DEEP GROUNDWATER MONITORING WELL LOCATION
- ACME-MW-1 — RI SHALLOW GROUNDWATER MONITORING WELL LOCATION
- DEC-005D — EXISTING DEEP GROUNDWATER MONITORING WELL LOCATION
- DEC-005 — EXISTING SHALLOW GROUNDWATER MONITORING WELL LOCATION
- ACME-SV-2/IA-2 — RI SOIL VAPOR AND INDOOR AIR SAMPLING COUPLET LOCATION
- ACME-AA-1 — RI AMBIENT AIR LOCATION
- ACME-GP-12 — SUPPLEMENTAL RI BORING LOCATION TO GROUNDWATER

NOTES:

1. BASE MAP SOURCE: NEARMAP.COM AERIAL PHOTO DATED APRIL 9, 2017
2. THE REMEDIAL INVESTIGATION (RI) WAS CONDUCTED BY LANGAN BETWEEN SEPTEMBER AND DECEMBER 2012.
3. THE SUPPLEMENTAL REMEDIAL INVESTIGATION (SRI) WAS CONDUCTED BY LANGAN BETWEEN MARCH AND APRIL 2017.
4. AREA OF CONCERN (AOC) 1 - FORMER METAL FABRICATION AREA
5. AOC 2 - DRY WELL/UNDERGROUND INJECTION WELL (LOT 8)
6. AOC 3 - FORMER DIP TANK AND DRYING SYSTEM
7. AOC 4 - DRY WELL/UNDERGROUND INJECTION WELL (LOT 11)
8. THE APPROXIMATE LOCATION OF THE FORMER DIP TANK AND DRYING SYSTEM IS BASED ON MAPS INCLUDED AS PART OF THE 'IMPACT ENVIRONMENTAL 1998 PHASE I ESA REPORT'. THE DIP TANK AND DRYING SYSTEM ELEMENTS WERE NOT PRESENT AT THE TIME OF THE RI AND SRI.

40 0 10 25 40
SCALE IN FEET

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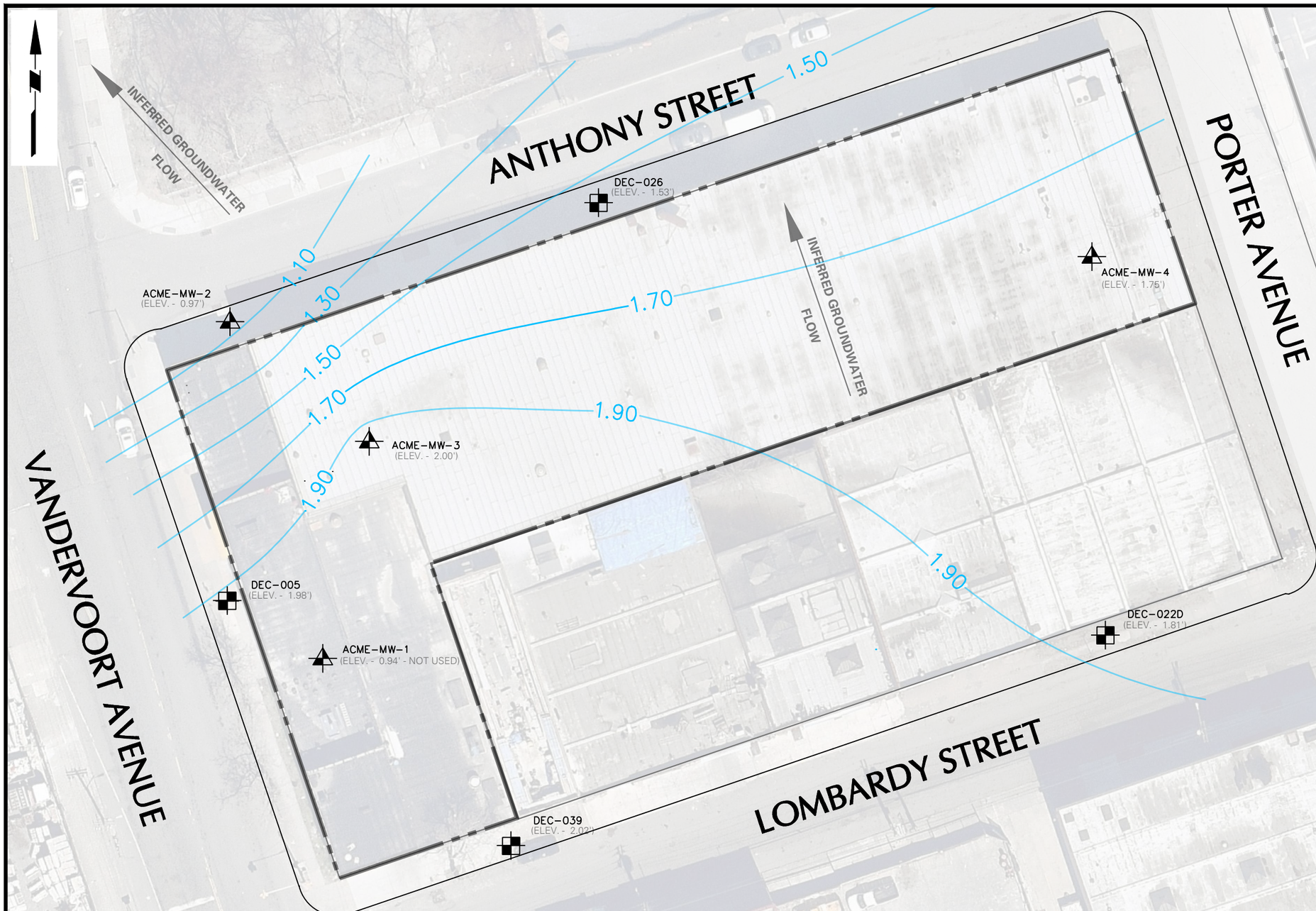
46 ANTHONY STREET
BROOKLYN NEW YORK

Figure Title
SAMPLE LOCATION PLAN

Project No. 170157201	Figure No. 3
Date 08/31/2017	
Scale 1"=40'	
Drawn By PTF / Checked By GN	
Submission Date	SHEET 3 of 21

Filename: \\langan.com\data\NYC\data2\170157201\Cadd Data - 170157201\SRIR\224131\Figure 3 - Sample Location Plan.dwg Date: 1/4/2018 Time: 13:22 User: nkung Style Table: Langan.stb Layout: SRIR - BLP



LEGEND:

- SITE BOUNDARY
- BUILDING OUTLINE
- ACME-MW-1 — RI SHALLOW GROUNDWATER MONITORING WELL LOCATION
- DEC-005 — SHALLOW NYSDEC GROUNDWATER MONITORING WELL LOCATION
- 1.90 — INFERRED GROUNDWATER ELEVATION CONTOUR (FEET)

NOTES:

1. BASE MAP SOURCE: NEARMAP.COM AERIAL PHOTO DATED APRIL 9, 2017
2. THE REMEDIAL INVESTIGATION (RI) WAS CONDUCTED BY LANGAN BETWEEN SEPTEMBER AND DECEMBER 2012. GROUNDWATER ELEVATIONS WERE MEASURED ON DECEMBER 3, 2012.
3. GROUNDWATER CONTOURS ARE INFERRED BASED ON THE SHALLOW MONITORING WELLS, WHICH STRADDLE THE WATER TABLE.
4. GROUNDWATER CONTOUR INTERVAL IS 0.20 FEET.
5. GROUNDWATER ELEVATION AT MONITORING WELL ACME-MW-1 WAS NOT INCLUDED IN THE GROUNDWATER CONTOUR MAP.
6. ELEVATIONS (ELEV.) ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

40 0 10 25 40
SCALE IN FEET

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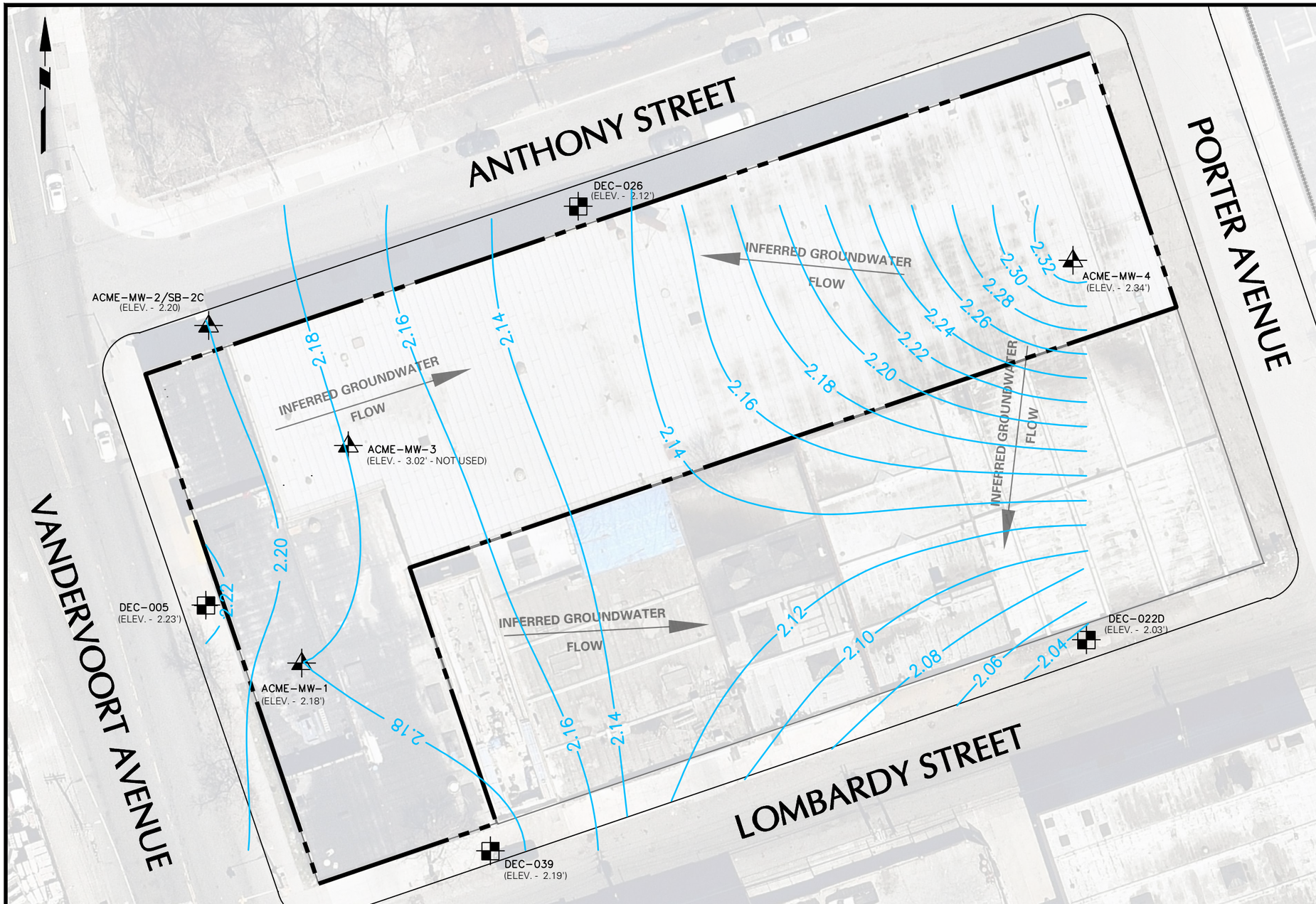
Figure Title
SHALLOW OVERBURDEN GROUNDWATER CONTOUR MAP - 2012

Project No. 170157201	Figure No. 4A
Date 08/31/2017	
Scale 1" = 40'	
Drawn By EB	
Submission Date	Sheet 4 of 21

Filename: \\Langan.com\data\NY\data2\170157201\Cadd Data - 170157201\SRIR\224131\Figure 4A - Shallow Overburden Groundwater Contour Map-2012.dwg Date: 1/19/2018 Time: 15:41 User: pfarnham Style Table: Langan.stb Layout: ANSIB-BLI



LEGEND:

- SITE BOUNDARY
- BUILDING OUTLINE
- ACME-MW-1 — RI SHALLOW GROUNDWATER MONITORING WELL LOCATION
- DEC-005 — SHALLOW NYSDEC GROUNDWATER MONITORING WELL LOCATION
- 2.12 — INFERRED GROUNDWATER ELEVATION CONTOUR (FEET)

NOTES:

1. BASE MAP SOURCE: NEARMAP.COM AERIAL PHOTO DATED APRIL 9, 2017
2. THE SUPPLEMENTAL REMEDIAL INVESTIGATION (SRI) WAS CONDUCTED BY LANGAN BETWEEN MARCH AND APRIL 2017. GROUNDWATER ELEVATIONS WERE MEASURED ON APRIL 19, 2017.
3. GROUNDWATER CONTOURS ARE INFERRED BASED ON THE SHALLOW MONITORING WELLS, WHICH STRADDLE THE WATER TABLE.
4. GROUNDWATER CONTOUR INTERVAL IS 0.02 FEET.
5. GROUNDWATER ELEVATION AT MONITORING WELL ACME-MW-3 WAS NOT INCLUDED IN THE GROUNDWATER CONTOUR MAP.
6. ELEVATIONS (ELEV.) ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

40 0 10 25 40
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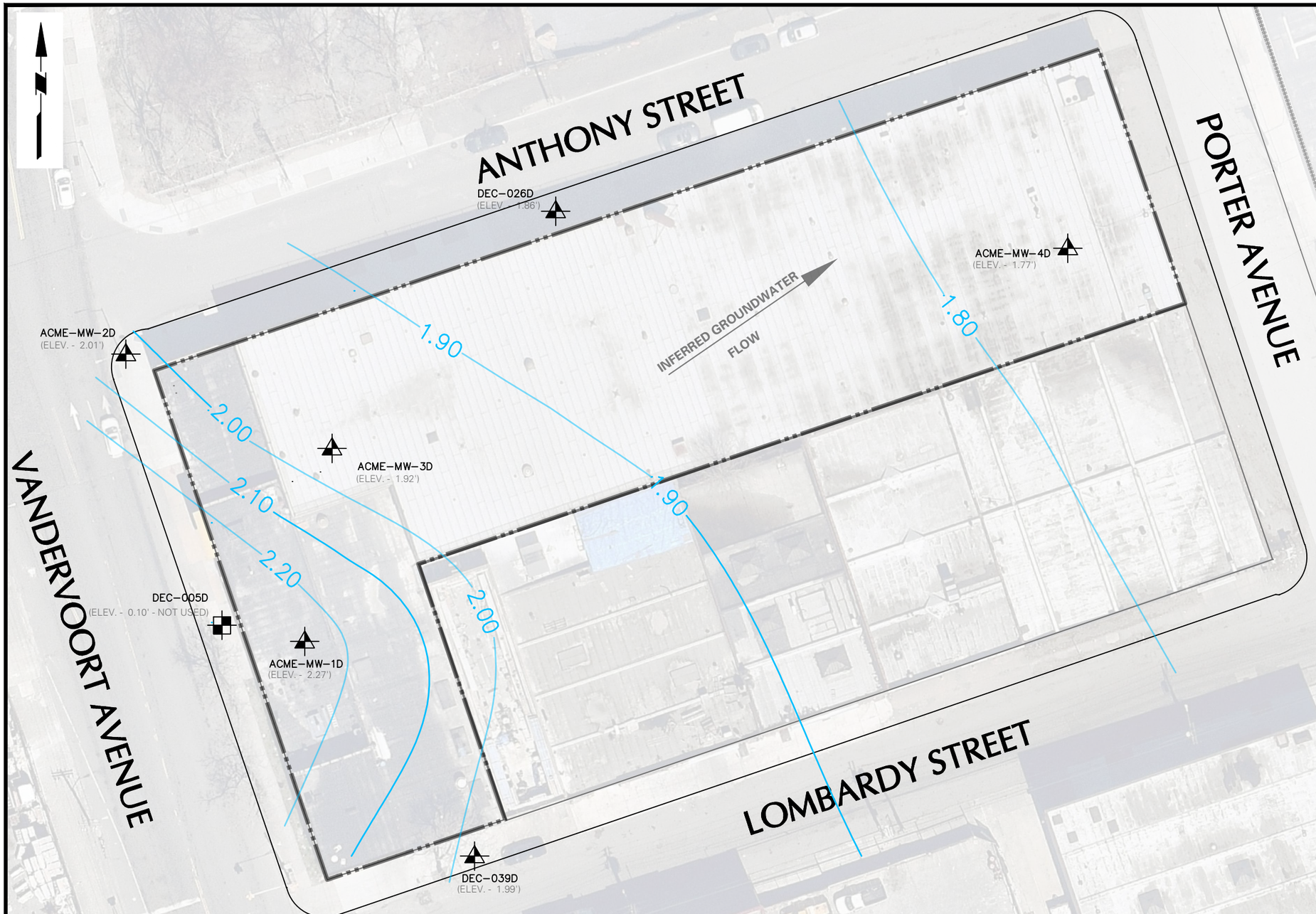
Figure Title
SHALLOW OVERBURDEN GROUNDWATER CONTOUR MAP - 2017

Project No. 170157201	Figure No. 4B
Date 9/28/2017	
Scale 1" = 40'	
Drawn By JFY	
Submission Date	Sheet 5 of 21

Filename: \\langan.com\data\NYC\data2\170157201\Cadd Data - 170157201\SRIR\224131\Figure 4B - Shallow Overburden Groundwater Contour Map-2017.dwg Date: 1/26/2018 Time: 11:07 User: jyanowitz Style Table: Langan.stb Layout: ANSIB-BLI



LEGEND:

- SITE BOUNDARY
- BUILDING OUTLINE
- ACME-MW-1D — RI DEEP GROUNDWATER MONITORING WELL LOCATION
- DEC-005D — DEEP NYSDEC GROUNDWATER MONITORING WELL LOCATION
- 1.90 — INFERRED GROUNDWATER ELEVATION CONTOUR (FEET)

NOTES:

1. BASE MAP SOURCE: NEARMAP.COM AERIAL PHOTO DATED APRIL 9, 2017
2. THE REMEDIAL INVESTIGATION (RI) WAS CONDUCTED BY LANGAN BETWEEN SEPTEMBER AND DECEMBER 2012. GROUNDWATER ELEVATIONS WERE MEASURED ON DECEMBER 3, 2012.
3. GROUNDWATER CONTOURS ARE INFERRED BASED ON THE DEEP MONITORING WELLS.
4. GROUNDWATER CONTOUR INTERVAL IS 0.10 FEET.
5. GROUNDWATER ELEVATION AT MONITORING WELL DEC-005D WAS NOT INCLUDED IN THE GROUNDWATER CONTOUR MAP.
6. ELEVATIONS (ELEV.) ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

40 0 10 25 40
SCALE IN FEET

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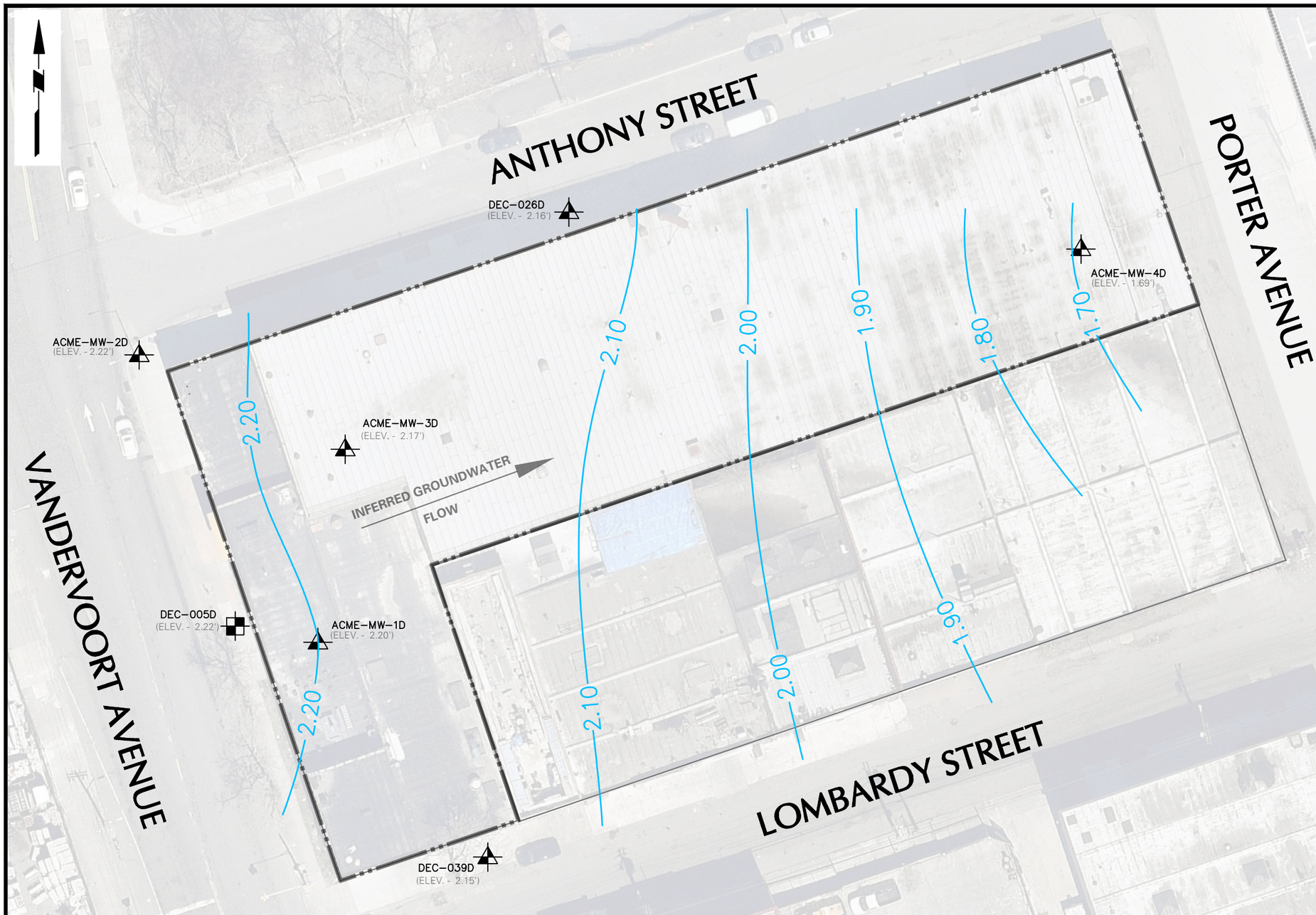
Figure Title
DEEP OVERBURDEN GROUNDWATER CONTOUR MAP - 2012

Project No. 170157201	Figure No. 5A
Date 09/21/2017	
Scale 1" = 40'	
Drawn By EB	
Submission Date	Sheet 6 of 21

Filename: \\Langan.com\data\NY\data2\170157201\Cadd Data - 170157201\SRIR\224131\Figure 5A - Deep Overburden Groundwater Contour Map-2012.dwg Date: 1/16/2018 Time: 10:57 User: knagotko Style Table: Langan.stb Layout: ANSIB-BLI



LEGEND:

- SITE BOUNDARY
- BUILDING OUTLINE
- ACME-MW-1D — RI DEEP GROUNDWATER MONITORING WELL LOCATION
- DEC-005D — DEEP NYSDEC GROUNDWATER MONITORING WELL LOCATION
- 1.90 — INFERRED GROUNDWATER ELEVATION CONTOUR (FEET)

NOTES:

1. BASE MAP SOURCE: NEARMAP.COM AERIAL PHOTO DATED APRIL 9, 2017
2. THE SUPPLEMENTAL REMEDIAL INVESTIGATION (SRI) WAS CONDUCTED BY LANGAN BETWEEN MARCH AND APRIL 2017. GROUNDWATER ELEVATIONS WERE MEASURED ON APRIL 19, 2017.
3. GROUNDWATER CONTOURS ARE INFERRED BASED ON THE DEEP MONITORING WELLS.
4. GROUNDWATER CONTOUR INTERVAL IS 0.10 FEET.
5. ELEVATIONS (ELEV.) ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

40 0 10 25 40

SCALE IN FEET

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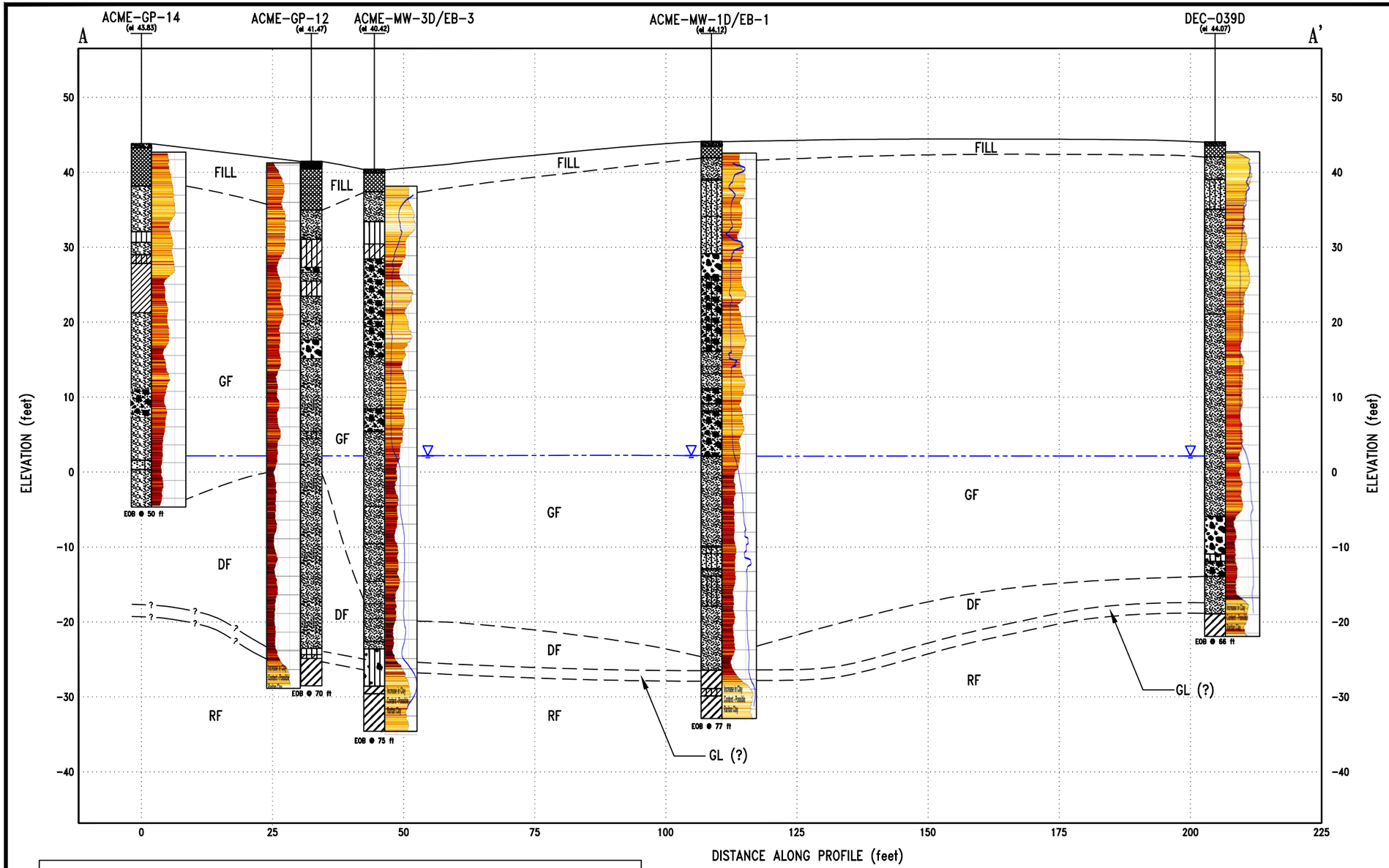
46 ANTHONY STREET
BROOKLYN NEW YORK

Figure Title
DEEP OVERBURDEN GROUNDWATER CONTOUR MAP - 2017

Project No. 170157201	Figure No. 5B
Date 09/21/2017	
Scale 1" = 40'	
Drawn By JFY	
Submission Date	Sheet 7 of 21

Filename: \\langan.com\data\NYC\data2\170157201\Cadd Data - 170157201\SRIR\224131\Figure 5B - Deep Overburden Groundwater Contour Map-2017.dwg Date: 1/26/2018 Time: 11:14 User: jyanowitz Style Table: Langan.stb Layout: ANSIB-BLI



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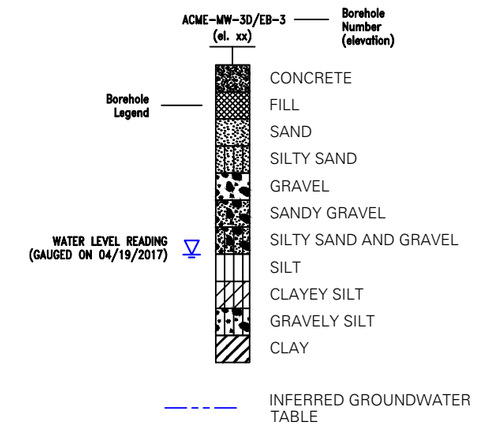
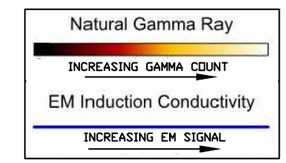


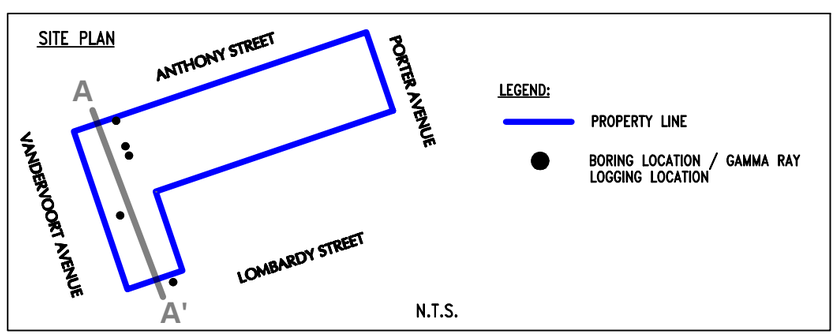


GEOLOGICAL UNIT ACRONYMS:

1. GF = GLACIOFLUVIAL-ALLUVIAL
2. DF = DELTAIC / FLUVIAL DEPOSITS
3. GL = GLACIOLACUSTRINE
4. RF = UPPER CONFINING MEMBER RARITAN FORMATION

NOTES:

1. GEOLOGIC CONDITIONS SHOWN ARE REPRESENTATIVE OF CONDITIONS ENCOUNTERED AT EACH BORING LOCATION TO THE DEPTH DRILLED. EXTRAPOLATIONS BETWEEN BORINGS HAVE BEEN INTERPRETED USING STANDARDLY ACCEPTED GEOLOGIC PRACTICE AND PRINCIPLES. ACTUAL CONDITIONS MAY VARY BETWEEN BORINGS FROM THOSE SHOWN.
2. ELEVATIONS ARE WITH RESPECT TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
3. DOWN-HOLE NATURAL GAMMA RAY AND ELECTROMAGNETIC (EM) INDUCTION READINGS WERE COLLECTED BY HAGER-RICHTER GEOSCIENCE, INC. ON MARCH 10, 2017.
4. EM DATA WERE NOT COLLECTED FROM ACME-GP-12 OR ACME-GP-14 BECAUSE BOTH BOREHOLES WERE CASED TO DEPTH WITH STEEL DRILL CASING.
5. SEE APPENDIX H FOR FULL NATURAL GAMMA RAY AND EM INDUCTION LOGS.



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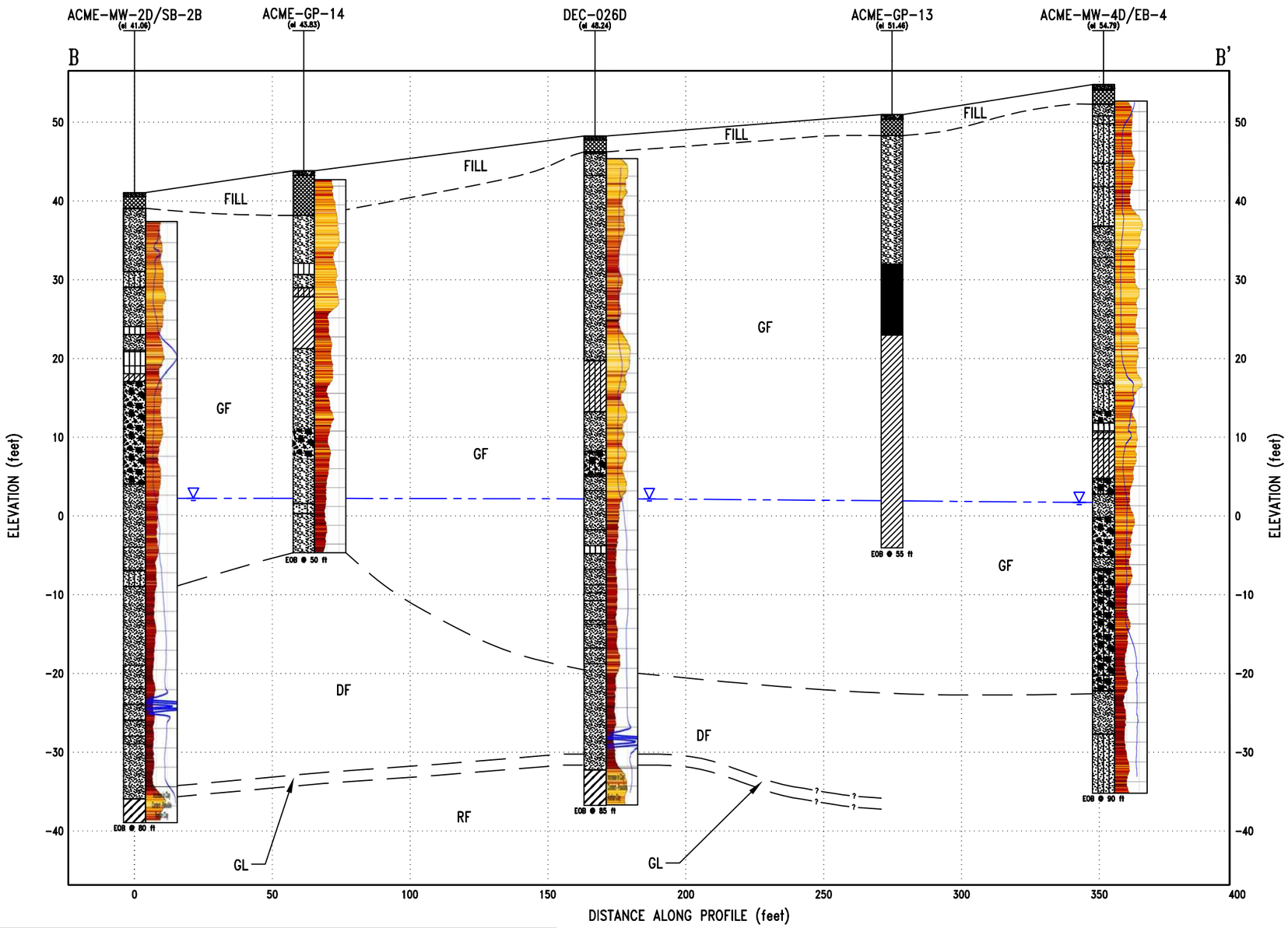
BROOKLYN NEW YORK

Figure Title
CROSS-SECTION A-A'

Project No. 170157201	Figure No. 6
Date 01/03/2018	
Scale AS SHOWN	
Drawn By JFY	
Submission Date	Sheet 8 of 21



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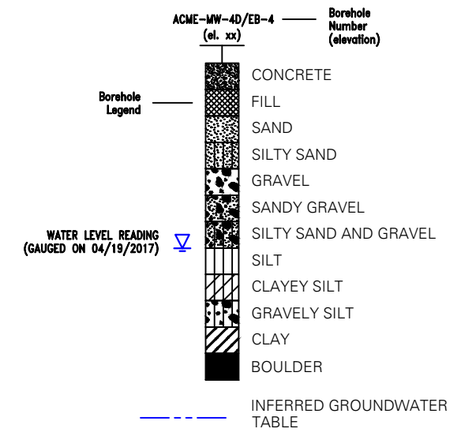

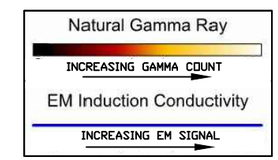

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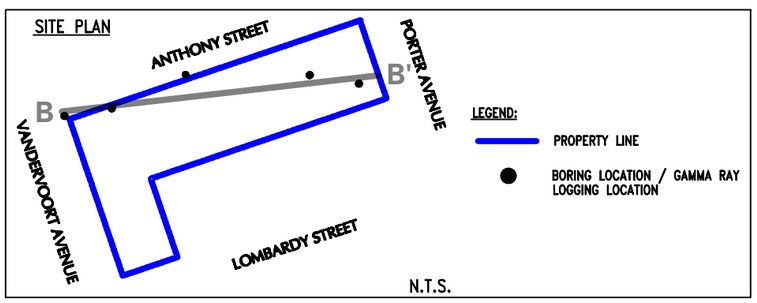
2. DF = DELTAIC / FLUVIAL DEPOSITS
3. GL = GLACIOLACUSTRINE
4. RF = UPPER CONFINING MEMBER RARITAN FORMATION

NOTES:

1. GEOLOGIC CONDITIONS SHOWN ARE REPRESENTATIVE OF CONDITIONS ENCOUNTERED AT EACH BORING LOCATION TO THE DEPTH DRILLED. EXTRAPOLATIONS BETWEEN BORINGS HAVE BEEN INTERPRETED USING STANDARDLY ACCEPTED GEOLOGIC PRACTICE AND PRINCIPLES. ACTUAL CONDITIONS MAY VARY BETWEEN BORINGS FROM THOSE SHOWN.
2. ELEVATIONS ARE WITH RESPECT TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
3. DOWN-HOLE NATURAL GAMMA RAY AND ELECTROMAGNETIC (EM) INDUCTION READINGS WERE COLLECTED BY HAGER-RICHTER GEOSCIENCE, INC. ON MARCH 10, 2017.
4. NEITHER EM NOR GAMMA RAY DATA WERE COLLECTED FROM ACME-GP-13. EM DATA WERE NOT COLLECTED FROM ACME-GP-14 BECAUSE THE BOREHOLE WAS CASED TO DEPTH WITH STEEL DRILL CASING.
5. SEE APPENDIX H FOR FULL NATURAL GAMMA RAY AND EM INDUCTION LOGS.



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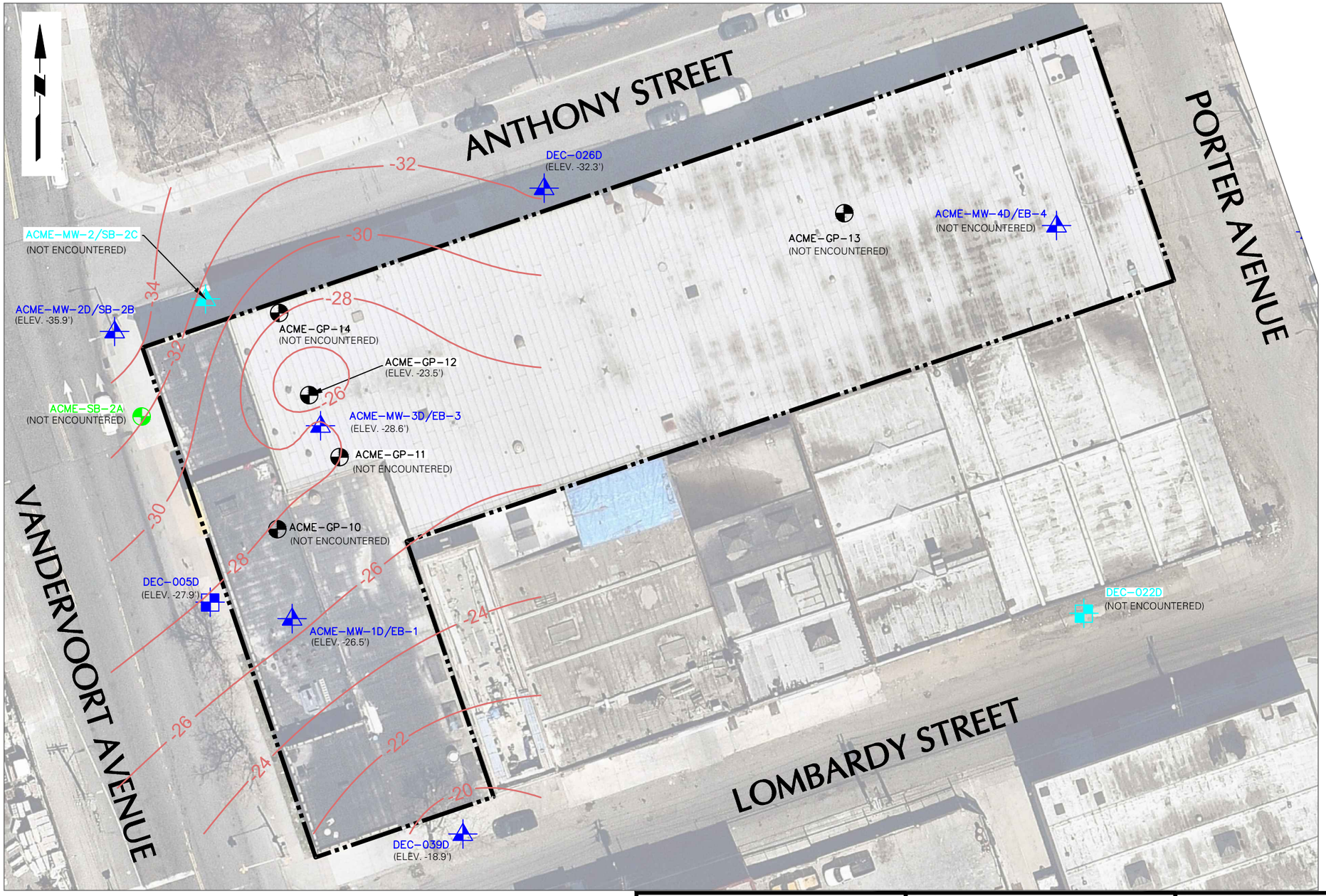
BROOKLYN NEW YORK

Figure Title
CROSS-SECTION B-B'

Project No. 170157201	Figure No. 7
Date 01/05/2018	
Scale AS SHOWN	
Drawn By JFY	
Submission Date	Sheet 9 of 21



LEGEND:

- SITE BOUNDARY
- BUILDING OUTLINE
- ACME-SB-2A — RI SOIL BORING LOCATION
- ACME-MW-1D/EB-1 — RI SOIL BORING AND DEEP GROUNDWATER MONITORING WELL LOCATION
- ACME-MW-2/SB-2C — RI SHALLOW GROUNDWATER MONITORING WELL LOCATION
- DEC-005D — DEEP NYSDEC GROUNDWATER MONITORING WELL LOCATION
- DEC-022D — SHALLOW NYSDEC GROUNDWATER MONITORING WELL LOCATION
- ACME-GP-12 — SUPPLEMENTAL RI BORING LOCATION TO GROUNDWATER
- -30 — INFERRED TOP OF CLAY LAYER SURFACE ELEVATION (FEET)

NOTES:

1. BASE MAP SOURCE: NEARMAP.COM AERIAL PHOTO DATED APRIL 9, 2017
2. THE REMEDIAL INVESTIGATION (RI) WAS CONDUCTED BY LANGAN BETWEEN SEPTEMBER AND DECEMBER 2012. THE SUPPLEMENTAL RI WAS CONDUCTED BY LANGAN BETWEEN MARCH AND APRIL 2017.
3. CONTOUR INTERVAL IS 2.0 FEET.
4. DEEP CLAY WAS NOT ENCOUNTERED IN SAMPLE LOCATIONS ACME-SB-2A, ACME-GP-10, ACME-GP-11, ACME-GP-13, ACME-GP-14, ACME-MW-2D/SB-2B, OR ACME-MW-4D/EB-4.
5. ELEVATIONS (ELEV.) ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

40 0 10 25 40
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NYSDEC SITE No. 224131
95 LOMBARDY STREET/
46 ANTHONY STREET
BROOKLYN NEW YORK

Figure Title
TOP OF DEEP CLAY LAYER CONTOUR MAP

Project No. 170157201	Figure No. 8
Date 09/21/2017	
Scale 1"=40'	
Drawn By JFY / Checked By PF	
Submission Date	SHEET 10 of 21

ACME-SB-2D		
Sample ID	ACME-SB-2D (4-5)	
Lab Sample ID	12J0187-02	
Sample Date	10/01/2012	
Sampling Depth (feet)	4 to 5	
VOC (mg/kg)		
1,1,1-TCA	0.00012	U
1,1,2-TCA	0.00071	U
1,2-DCA	0.00047	U
Chloroethane	0.00052	U
cDCE	0.00027	U
PCE	**0.0022**	J
tDCE	0.00049	U
TCE	0.00046	U
Vinyl chloride	0.00026	U

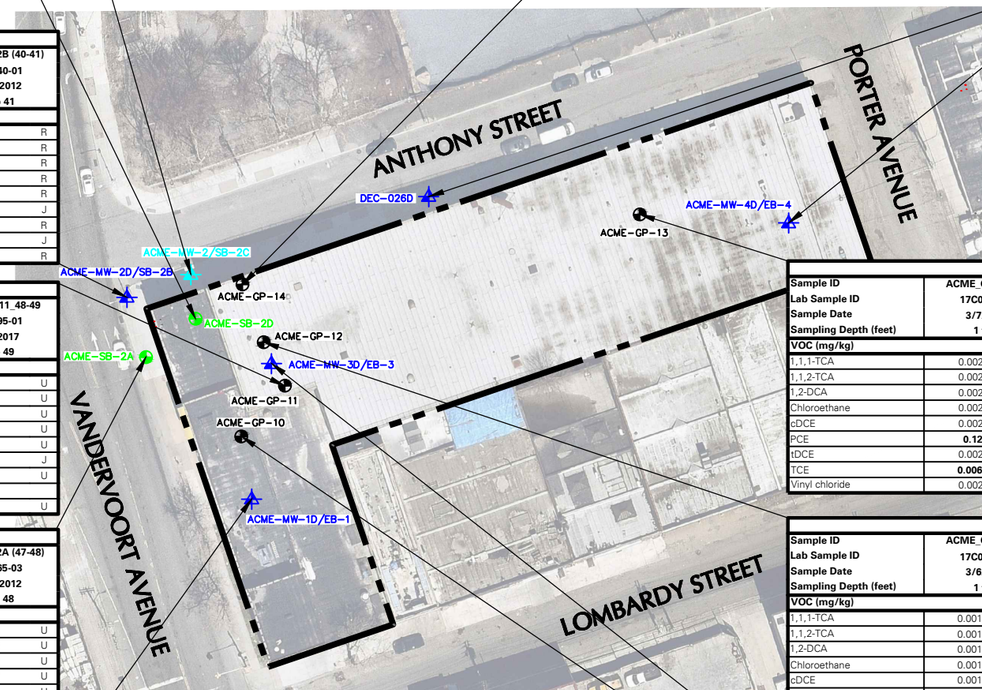
ACME-MW-2/SB-2C				
Sample ID	ACME-SB-2C (2-3)		ACME-SB-2C (41-42)	
Lab Sample ID	12I0819-02		12K0740-02	
Sample Date	09/24/2012		11/26/2012	
Sampling Depth (feet)	2 to 3		41 to 42	
VOC (mg/kg)				
1,1,1-TCA	0.00013	U	0.0025	U
1,1,2-TCA	0.00076	U	0.0025	U
1,2-DCA	0.00051	U	0.0025	U
Chloroethane	0.00056	U	0.0025	U
cDCE	0.00029	U	0.0025	U
PCE	**0.023**		**0.0081**	
tDCE	0.00052	U	0.0025	U
TCE	**0.001**	J	**0.12**	
Vinyl chloride	0.00028	U	0.0025	U

ACME-GP-14						
Sample ID	ACME_GP-14_1-2		ACME_GP-14_17-18		ACME_GP14_45-46	
Lab Sample ID	17C0231-03		17C0231-04		17C0440-02	
Sample Date	3/6/2017		3/6/2017		3/10/2017	
Sampling Depth (feet)	1 to 2		17 to 18		45 to 46	
VOC (mg/kg)						
1,1,1-TCA	0.0021	U	0.0025	U	0.0021	U
1,1,2-TCA	0.0021	U	0.0025	U	0.0021	U
1,2-DCA	0.0021	U	0.0025	U	0.0021	U
Chloroethane	0.0021	U	0.0025	U	0.0021	U
cDCE	0.0021	U	0.0025	U	0.0021	U
PCE	**0.0061**		**0.026**		0.0021	U
tDCE	0.0021	U	0.0025	U	0.0021	U
TCE	0.0021	U	**0.072**		**0.051**	
Vinyl chloride	0.0021	U	0.0025	U	0.0021	U

DEC-026D		
Sample ID	EB-DEC-026D(43-44)	
Lab Sample ID	12K0465-01	
Sample Date	11/12/2012	
Sampling Depth (feet)	43 to 44	
VOC (mg/kg)		
1,1,1-TCA	0.00014	UJ
1,1,2-TCA	0.00081	UJ
1,2-DCA	0.00054	UJ
Chloroethane	0.00059	UJ
cDCE	0.00031	UJ
PCE	**0.0015**	J
tDCE	0.00056	UJ
TCE	**0.011**	J
Vinyl chloride	0.00029	UJ

ACME-MW-2D/SB-2B						
Sample ID	ACME-SB-2B (1-2)		ACME-SB-2B (10-11)		ACME-SB-2B (40-41)	
Lab Sample ID	12I0819-03		12K0644-04		12K0740-01	
Sample Date	09/24/2012		11/19/2012		11/21/2012	
Sampling Depth (feet)	1 to 2		10 to 11		40 to 41	
VOC (mg/kg)						
1,1,1-TCA	0.00012	U	0.00013	U	0.0024	R
1,1,2-TCA	0.0007	U	0.00076	U	0.0024	R
1,2-DCA	0.00047	U	0.00051	U	0.0024	R
Chloroethane	0.00051	U	0.00056	U	0.0024	R
cDCE	0.00027	U	0.00029	U	0.0024	R
PCE	**0.054**		**0.012**		**0.0055**	J
tDCE	0.00048	U	0.00053	U	0.0024	R
TCE	**0.0008**	J	0.0005	U	**0.027**	J
Vinyl chloride	0.00025	U	0.00028	U	0.0024	R

ACME-MW-4D/EB-4				
Sample ID	ACME-EB-4 (1-2)		ACME-EB-4 (49-50)	
Lab Sample ID	12I0819-01		12J0945-02	
Sample Date	09/21/2012		10/23/2012	
Sampling Depth (feet)	1 to 2		49 to 50	
VOC (mg/kg)				
1,1,1-TCA	0.00013	UJ	0.000091	UJ
1,1,2-TCA	0.00079	UJ	0.00054	UJ
1,2-DCA	0.00053	UJ	0.00036	UJ
Chloroethane	0.00058	UJ	0.0004	UJ
cDCE	0.00031	UJ	0.00021	UJ
PCE	**0.06**	J	0.00038	UJ
tDCE	0.00055	UJ	0.00037	UJ
TCE	0.00052	UJ	0.00035	UJ
Vinyl chloride	0.00029	UJ	0.0002	UJ



ACME-GP-11						
Sample ID	ACME_GP11_1-2		ACME_GP11_11.5-12.5		ACME_GP11_48-49	
Lab Sample ID	17C0186-01		17C0186-02		17C0495-01	
Sample Date	3/3/2017		3/3/2017		3/13/2017	
Sampling Depth (feet)	1 to 2		11.5 to 12.5		48 to 49	
VOC (mg/kg)						
1,1,1-TCA	0.002	U	0.0023	U	0.0022	U
1,1,2-TCA	0.002	U	0.0023	U	0.0022	U
1,2-DCA	0.002	U	0.0023	U	0.0022	U
Chloroethane	0.002	U	0.0023	U	0.0022	U
cDCE	0.002	U	0.0023	U	0.0022	U
PCE	**0.011**		**0.014**		**0.0024**	J
tDCE	0.002	U	0.0023	U	0.0022	U
TCE	**0.017**		**0.051**		**0.023**	
Vinyl chloride	0.002	U	0.0023	U	0.0022	U

ACME-GP-13								
Sample ID	ACME_GP-13_1-2		ACME_GP-13_18-19		ACME_GP-13_32-33		ACME_GP-13_54-55	
Lab Sample ID	17C0266-01		17C0266-02		17C1127-01		17C1127-02	
Sample Date	3/7/2017		3/7/2017		3/28/2017		3/28/2017	
Sampling Depth (feet)	1 to 2		18 to 19		32 to 33		54 to 55	
VOC (mg/kg)								
1,1,1-TCA	0.0021	U	0.0024	U	0.0023	U	0.0021	U
1,1,2-TCA	0.0021	U	0.0024	U	0.0023	U	0.0021	U
1,2-DCA	0.0021	U	0.0024	U	0.0023	U	0.0021	U
Chloroethane	0.0021	U	0.0024	U	0.0023	U	0.0021	U
cDCE	0.0021	U	0.0024	U	0.0023	U	0.0021	U
PCE	**0.12**		**0.0068**		**0.0054**		0.0021	U
tDCE	0.0021	U	0.0024	U	0.0023	U	0.0021	U
TCE	**0.0069**		0.0024	U	0.0023	U	0.0021	U
Vinyl chloride	0.0021	U	0.0024	U	0.0023	U	0.0021	U

ACME-SB-2A						
Sample ID	ACME-SB-2A (3-4)		ACME-SB-2A (40-41)		ACME-SB-2A (47-48)	
Lab Sample ID	12I0819-04		12K0465-02		12K0465-03	
Sample Date	09/24/2012		11/13/2012		11/13/2012	
Sampling Depth (feet)	3 to 4		40 to 41		47 to 48	
VOC (mg/kg)						
1,1,1-TCA	0.00014	U	0.00014	U	0.00013	U
1,1,2-TCA	0.00082	U	0.00083	U	0.00078	U
1,2-DCA	0.00055	U	0.00055	U	0.00052	U
Chloroethane	0.00061	U	0.00061	U	0.00057	U
cDCE	0.00032	U	0.00032	U	0.0003	U
PCE	0.00058	U	**0.0029**	J	0.00055	U
tDCE	0.00057	U	0.00057	U	0.00054	U
TCE	0.00054	U	**0.04**		**0.03**	
Vinyl chloride	0.0003	U	0.0003	U	0.00028	U

ACME-GP-12								
Sample ID	ACME_GP-12_1-2		ACME_GP-12_15-16		ACME_GP-12_40-42		ACME_GP12_65.5-66.5	
Lab Sample ID	17C0231-01		17C0231-02		17C0415-01		17C0440-01	
Sample Date	3/6/2017		3/6/2017		3/8/2017		3/9/2017	
Sampling Depth (feet)	1 to 2		15 to 16		40 to 42		65.5 to 66.5	
VOC (mg/kg)								
1,1,1-TCA	0.0019	U	0.0024	U	0.0023	U	0.0016	U
1,1,2-TCA	0.0019	U	0.0024	U	0.0023	U	0.0016	U
1,2-DCA	0.0019	U	0.0024	U	0.0023	U	0.0016	U
Chloroethane	0.0019	U	0.0024	U	0.0023	U	0.0016	U
cDCE	0.0019	U	0.0024	U	0.0023	U	**0.052**	
PCE	0.0019	U	**0.0068**		0.0023	U	0.0019	J
tDCE	0.0019	U	0.0024	U	0.0023	U	**0.0034**	
TCE	**0.0019**	J	**0.005**		**0.012**		**2.3**	D
Vinyl chloride	0.0019	U	0.0024	U	0.0023	U	0.0016	U

ACME-MW-1D/EB-1						
Sample ID	ACME-EB-1 (1-2)		ACME-EB-1 (26-27)		ACME-EB-1 (37-38)	
Lab Sample ID	12I0721-01		12J0014-04		12J0014-05	
Sample Date	09/19/2012		09/26/2012		09/26/2012	
Sampling Depth (feet)	1 to 2		26 to 27		37 to 38	
VOC (mg/kg)						
1,1,1-TCA	0.00012	U	0.00012	U	0.00012	U
1,1,2-TCA	0.0007	U	0.00072	U	0.00071	U
1,2-DCA	0.00047	U	0.00048	U	0.00048	U
Chloroethane	0.00051	U	0.00053	U	0.00053	U
cDCE	0.00027	U	0.00028	U	0.00027	U
PCE	0.0005	U	0.00051	U	**0.0019**	J
tDCE	0.00048	U	0.0005	U	0.00049	U
TCE	0.00046	U	**0.00096**	J	**0.0053**	
Vinyl chloride	0.00025	U	0.00026	U	0.00026	U

ACME-GP-10								
Sample ID	ACME_GP-10_1-2		ACME_GP-10_11-12		ACME_GP-10_47-48		SODUP01_030217	
Lab Sample ID	17C0126-01		17C0126-02		17C0126-03		17C0126-04	
Sample Date	3/2/2017		3/2/2017		3/2/2017		3/2/2017	
Sampling Depth (feet)	1 to 2		11 to 12		47 to 48		47 to 48	
VOC (mg/kg)								
1,1,1-TCA	0.002	U	0.0021	U	0.0026	U	0.0024	U
1,1,2-TCA	0.002	U	0.0021	U	0.0026	U	0.0024	U
1,2-DCA	0.002	U	0.0021	U	0.0026	U	0.0024	U
Chloroethane	0.002	U	0.0021	U	0.0026	U	0.0024	U
cDCE	0.002	U	0.0021	U	0.0026	U	0.0024	U
PCE	0.002	U	**0.0024**	J	0.0026	U	**0.0029**	J
tDCE	0.002	U	0.0021	U	0.0026	U	0.0024	U
TCE	0.002	U	**0.0039**	J	**0.009**		**0.0097**	
Vinyl chloride	0.002	U	0.0021	U	0.0026	U	0.0024	U

ACME-MW-3D/EB-3								
Sample ID	ACME-EB-3 (3-4)		ACME-EB-3 (20-21)		ACME-EB-3 (36-37)		ACME-DUP-3	
Lab Sample ID	12I0721-02		12K0465-06		12K0465-04		12K0465-05	
Sample Date	09/20/2012		11/14/2012		11/14/2012		11/14/2012	
Sampling Depth (feet)	3 to 4		20 to 21		36 to 37		36 to 37	
VOC (mg/kg)								
1,1,1-TCA	0.00019	U	0.00013	U	0.00014	U	0.00011	U
1,1,2-TCA	0.0011	U	0.00074	U	0.00083	U	0.00066	U
1,2-DCA	0.00077	U	0.0005	U	0.00055	U	0.00044	U
Chloroethane	0.00085	U	0.00055	U	0.00061	U	0.00049	U
cDCE	0.00044	U	0.00029	U	0.00032	U	0.00025	U
PCE	**0.013**		0.00053	U	**0.0016**	J	**0.0014**	J
tDCE	0.00079	U	0.00051	U	0.00057	U	0.00046	U
TCE	**0.01**		**0.0028**	J	**0.012**		**0.0077**	
Vinyl chloride	0.00042	U	0.00027	U	0.0003	U	0.00024	U

LEGEND:

- SITE BOUNDARY
- SITE FEATURE
- ACME-SB-2A — RI SOIL BORING LOCATION
- ACME-MW-1D/EB-1 — RI SOIL BORING AND DEEP GROUNDWATER MONITORING WELL LOCATION
- ACME-MW-2/SB-2C — RI SOIL BORING AND SHALLOW GROUNDWATER MONITORING WELL LOCATION
- ACME-GP-12 — SUPPLEMENTAL RI BORING LOCATION TO GROUNDWATER

NOTES:

1. BASE MAP SOURCE: NEARMAP.COM AERIAL PHOTO DATED APRIL 9, 2017.
2. THE REMEDIAL INVESTIGATION (RI) WAS CONDUCTED BY LANGAN BETWEEN SEPTEMBER AND DECEMBER 2012.
3. THE SUPPLEMENTAL REMEDIAL INVESTIGATION (SRI) WAS CONDUCTED BY LANGAN BETWEEN MARCH AND APRIL 2017.
4. SOIL SAMPLE ANALYTICAL RESULTS ARE COMPARED TO THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYCDEC) TITLE 6 OF THE OFFICIAL COMPILATION OF NEW YORK CODES, RULES, AND REGULATIONS (NYCRR) PART 375 UNRESTRICTED USE AND COMMERCIAL USE SOIL CLEANUP OBJECTIVES (SCO).
5. DETECTIONS ARE IN BOLD.
6. NYSDEC UNRESTRICTED USE SCO EXCEEDANCES ARE HIGHLIGHTED AND BOLD. THERE WERE NO SOIL SAMPLE RESULTS THAT EXCEED THE COMMERCIAL USE SCOs.
7. VOC = VOLATILE ORGANIC COMPOUNDS
8. mg/kg = MILLIGRAMS PER KILOGRAM
9. ~ = STANDARD NOT AVAILABLE
8. J = DETECTED ABOVE THE METHOD DETECTION LIMIT BUT BELOW THE REPORTING LIMIT; THEREFORE, RESULT IS AN ESTIMATED CONCENTRATION.
9. U = ANALYTE INCLUDED IN THE ANALYSIS, BUT NOT DETECTED.
10. UJ = THE ANALYTE WAS NOT DETECTED AT A LEVEL GREATER THAN OR EQUAL TO THE REPORTING LIMIT (RL); HOWEVER, THE REPORTED RL IS APPROXIMATE AND MAY BE INACCURATE OR IMPRECISE.
11. R = THE SAMPLE RESULTS ARE UNUSABLE DUE TO THE QUALITY OF THE DATA GENERATED BECAUSE CERTAIN CRITERIA WERE NOT MET. THE ANALYTE MAY OR MAY NOT BE PRESENT IN THE SAMPLE.
12. D = THE RESULT IS FROM AN ANALYSIS THAT REQUIRED A DILUTION.

STANDARDS	NYSDEC Part 375 Unrestricted Use SCO	NYSDEC Part 375 Commercial Use SCO
VOC (mg/kg)		
1,1,1-Trichloroethane (1,1,1-TCA)	0.68	500
1,1,2-Trichloroethane (1,1,2-TCA)	~	~
1,2-Dichloroethane (1,2-DCA)	0.02	30
Chloroethane (Ethyl Chloride)	~	~
cis-1,2-Dichloroethylene (cDCE)	0.25	500
Tetrachloroethylene (PCE)	1.3	150
trans-1,2-Dichloroethene (tDCE)	0.19	500
Trichloroethylene (TCE)	0.47	200
Vinyl chloride	0.02	13

80 0 40 80
SCALE IN FEET

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Langan CT, Inc.
Langan International LLC
Collectively known as Langan

Project
FORMER ACME STEEL/METAL WORKS
NYSDEC SITE No. 224131
95 LOMBARDY STREET/
46 ANTHONY STREET
BROOKLYN NEW YORK

Figure Title
SOIL SAMPLE VOC RESULTS MAP

Project No. 170157201
Date 09/28/2017
Scale 1"=80'
Drawn By WK
Checked By PF
Submission Date

Figure No. 9

SHEET 11 of 21

ACME-MW-2/SB-2C				
Sample ID	ACME-MW-2-20121207		ACME-MW-2-041117	
Lab Sample ID	12L0401-04		17D0403-01	
Sample Date	12/07/2012		4/11/2017	
VOC (µg/L)				
1,1,1-TCA	0.23	U	0.2	U
1,1,2-TCA	**2.3**	J	**3.6**	
1,2-DCA	0.36	U	**0.3**	J
1,1-DCE	**1.2**	J	**2.1**	
Chloroethane	2.8	U	0.2	U
cDCE	**140**		**270**	E
PCE	**9.8**		**14**	
tDCE	**5**		**5.4**	
TCE	**2500**		**3500**	E
Trichlorofluoromethane	0.54	U	0.2	U
Vinyl chloride	0.68	U	**10**	

ACME-MW-3D/EB-3				
Sample ID	ACME-MW-3D-20121203		ACME-MW-3D-041317	
Lab Sample ID	12L0194-02		17D0566-02	
Sample Date	12/03/2012		4/13/2017	
VOC (µg/L)				
1,1,1-TCA	0.23	U	0.2	U
1,1,2-TCA	**1.3**	J	**0.44**	J
1,2-DCA	0.36	U	0.2	U
1,1-DCE	**12**		**13**	
Chloroethane	2.8	U	0.2	U
cDCE	**620**		**590**	D
PCE	**11**		**6.3**	
tDCE	**44**		**27**	
TCE	**11000**		**4000**	DE
Trichlorofluoromethane	0.54	U	0.2	U
Vinyl chloride	**7.6**	J	**10**	

DEC-026D						
Sample ID	DEC-026D-20121204		ACME-DUP-1-20121204		DEC-026D-041017	
Lab Sample ID	12L0194-04		12L0194-05		17D0337-01	
Sample Date	12/04/2012		12/04/2012		4/10/2017	
VOC (µg/L)						
1,1,1-TCA	0.23	U	0.23	U	0.2	U
1,1,2-TCA	**4.9**	J	**4.8**	J	0.2	U
1,2-DCA	0.36	U	0.36	U	0.2	U
1,1-DCE	**6.8**		**7.2**		**9.6**	
Chloroethane	2.8	U	2.8	U	0.2	U
cDCE	**1100**	J	**770**	J	**94**	D
PCE	**33**		**32**		**6.3**	
tDCE	**80**		**87**		**8.8**	
TCE	**13000**		**13000**		**1600**	D
Trichlorofluoromethane	0.54	U	0.54	U	0.2	U
Vinyl chloride	**12**	J	**12**	J	**1.2**	

DEC-026				
Sample ID	DEC-026-20121204		DEC-026-041117	
Lab Sample ID	12L0194-03		17D0403-05	
Sample Date	12/04/2012		4/11/2017	
VOC (µg/L)				
1,1,1-TCA	0.23	U	1	U
1,1,2-TCA	**11**		1	U
1,2-DCA	0.36	U	1	U
1,1-DCE	**1.8**	J	1	U
Chloroethane	2.8	U	1	U
cDCE	**440**		**37**	D
PCE	**63**		**9.4**	D
tDCE	**6.3**		1	U
TCE	**7300**		**590**	DE
Trichlorofluoromethane	0.54	U	1	U
Vinyl chloride	**3**	J	1	U

ACME-MW-2D/SB-2B				
Sample ID	ACME-MW-2D-20121207		ACME-MW-2D-041117	
Lab Sample ID	12L0401-03		17D0403-02	
Sample Date	12/07/2012		4/11/2017	
VOC (µg/L)				
1,1,1-TCA	0.23	U	2	U
1,1,2-TCA	**1.5**	J	2	U
1,2-DCA	0.36	U	2	U
1,1-DCE	**8.1**		2	U
Chloroethane	2.8	U	2	U
cDCE	**240**	J	**280**	D
PCE	**11**		2	U
tDCE	**32**		**3.9**	JD
TCE	**5200**		**550**	DE
Trichlorofluoromethane	0.54	U	2	U
Vinyl chloride	**4.8**	J	2	U

ACME-MW-4D/EB-4				
Sample ID	ACME-MW-4D-20121205		ACME-MW-4D-041317	
Lab Sample ID	12L0227-02		17D0566-04	
Sample Date	12/05/2012		4/13/2017	
VOC (µg/L)				
1,1,1-TCA	0.23	U	**0.26**	J
1,1,2-TCA	1.3	U	0.2	U
1,2-DCA	0.36	U	0.2	U
1,1-DCE	**2.4**	J	**2.2**	
Chloroethane	2.8	U	0.2	U
cDCE	**43**		**45**	D
PCE	**1.8**	J	**2.5**	
tDCE	**2.7**	J	**5.5**	
TCE	**630**		**460**	DE
Trichlorofluoromethane	**0.99**	J	**0.37**	J
Vinyl chloride	**1**	J	**1.5**	

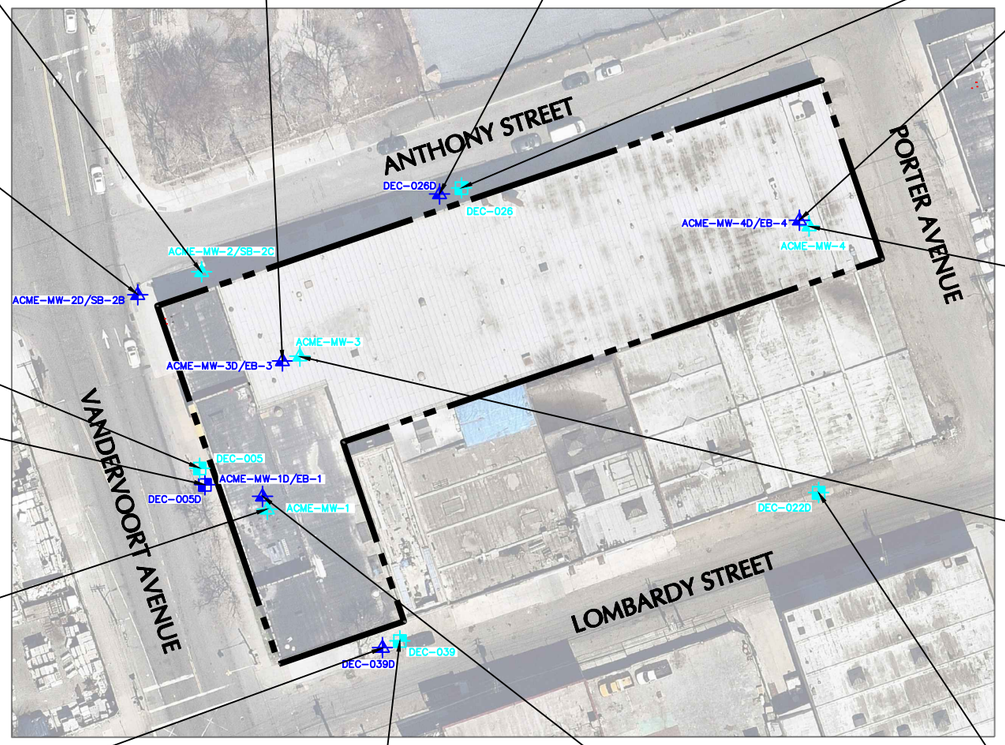
DEC-005				
Sample ID	DEC-005-20121204		DEC-005-041117	
Lab Sample ID	12L0194-06		17D0403-03	
Sample Date	12/04/2012		4/11/2017	
VOC (µg/L)				
1,1,1-TCA	0.23	U	2	U
1,1,2-TCA	1.3	U	2	U
1,2-DCA	0.36	U	0.2	U
1,1-DCE	0.52	U	2	U
Chloroethane	2.8	U	2	U
cDCE	**8.2**		**9.6**	D
PCE	**8.3**		**6.8**	D
tDCE	0.52	U	2	U
TCE	**210**		**130**	D
Trichlorofluoromethane	**0.91**	J	2	U
Vinyl chloride	0.68	U	2	U

ACME-MW-4				
Sample ID	ACME-MW-4-20121205		ACME-MW-4-041317	
Lab Sample ID	12L0227-01		17D0566-03	
Sample Date	12/05/2012		4/13/2017	
VOC (µg/L)				
1,1,1-TCA	0.23	U	**0.99**	
1,1,2-TCA	1.3	U	0.2	U
1,2-DCA	0.36	U	0.2	U
1,1-DCE	0.52	U	**0.5**	
Chloroethane	2.8	U	0.2	U
cDCE	0.43	U	**2.2**	
PCE	0.41	U	**9.2**	
tDCE	0.52	U	0.2	U
TCE	**1.6**	J	**62**	D
Trichlorofluoromethane	0.54	U	**0.91**	
Vinyl chloride	0.68	U	0.2	U

DEC-005D				
Sample ID	DEC-005D-20121204		DEC-005D-041117	
Lab Sample ID	12L0194-07		17D0403-04	
Sample Date	12/04/2012		4/11/2017	
VOC (µg/L)				
1,1,1-TCA	0.23	U	5	U
1,1,2-TCA	1.3	U	5	U
1,2-DCA	0.36	U	5	U
1,1-DCE	**6.6**		5	U
Chloroethane	2.8	U	5	U
cDCE	**170**		**130**	D
PCE	**7.6**		5	U
tDCE	**9.6**		**8.5**	JD
TCE	**2600**		**2700**	D
Trichlorofluoromethane	0.54	U	5	U
Vinyl chloride	**4.1**	J	5	U

ACME-MW-3				
Sample ID	ACME-MW-3-20121203		ACME-MW-3-041317	
Lab Sample ID	12L0194-01		17D0566-01	
Sample Date	12/03/2012		4/13/2017	
VOC (µg/L)				
1,1,1-TCA	0.23	U	**0.56**	
1,1,2-TCA	1.3	U	0.2	U
1,2-DCA	0.36	U	0.2	U
1,1-DCE	**0.88**	J	**0.72**	
Chloroethane	2.8	U	0.2	U
cDCE	**25**		**27**	
PCE	**5.3**		**13**	
tDCE	0.52	U	**0.97**	
TCE	**530**		**130**	E
Trichlorofluoromethane	0.54	U	0.2	U
Vinyl chloride	0.68	U	0.2	U

ACME-MW-1				
Sample ID	ACME-MW-1-20121204		ACME-MW-1-041217	
Lab Sample ID	12L0194-09		17D0478-01	
Sample Date	12/04/2012		4/12/2017	
VOC (µg/L)				
1,1,1-TCA	0.23	U	4	U
1,1,2-TCA	1.3	U	4	U
1,2-DCA	0.36	U	4	U
1,1-DCE	0.52	U	4	U
Chloroethane	2.8	U	4	U
cDCE	**22**		4	U
PCE	**12**		4	U
tDCE	**1.5**	J	4	U
TCE	**220**		**180**	D
Trichlorofluoromethane	**1.8**	J	4	U
Vinyl chloride	0.68	U	4	U



LEGEND:

- SITE BOUNDARY
- ACME-MW-1D/EB-1 — RI SOIL BORING AND DEEP GROUNDWATER MONITORING WELL LOCATION
- ACME-MW-1 — RI SHALLOW GROUNDWATER MONITORING WELL LOCATION
- DEC-005D — NYSDEC DEEP GROUNDWATER MONITORING WELL LOCATION
- DEC-005 — NYSDEC SHALLOW GROUNDWATER MONITORING WELL LOCATION

NOTES:

1. BASE MAP SOURCE: NEARMAP.COM AERIAL PHOTO DATED APRIL 9, 2017.
2. THE REMEDIAL INVESTIGATION (RI) WAS CONDUCTED BY LANGAN BETWEEN SEPTEMBER AND DECEMBER 2012.
3. THE SUPPLEMENTAL REMEDIAL INVESTIGATION (SRI) WAS CONDUCTED BY LANGAN BETWEEN MARCH AND APRIL 2017.
4. GROUNDWATER SAMPLE ANALYTICAL RESULTS ARE COMPARED TO THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC) TECHNICAL AND OPERATIONAL GUIDANCE SERIES (TOGS) 1.1.1 AMBIENT WATER QUALITY STANDARDS (AWQS) AND GUIDANCE VALUES FOR DRINKING WATER (CLASS GA).
5. DETECTIONS ARE IN BOLD.
6. NYSDEC TOGS 1.1.1 AWQS EXCEEDANCES ARE HIGHLIGHTED.
7. VOC = VOLATILE ORGANIC COMPOUNDS
8. µg/L = MICROGRAMS PER LITER
9. J = DETECTED ABOVE THE METHOD DETECTION LIMIT BUT BELOW THE REPORTING LIMIT; THEREFORE, THE RESULT IS AN ESTIMATED CONCENTRATION.
10. U = ANALYTE INCLUDED IN THE ANALYSIS BUT NOT DETECTED.
11. D = THE RESULT IS FROM AN ANALYSIS THAT REQUIRED A DILUTION.
12. E = THE RESULT IS ESTIMATED AND CANNOT BE ACCURATELY REPORTED DUE TO LEVELS ENCOUNTERED OR INTERFERENCES.

DEC-039D				
Sample ID	DEC-039D-20121204		DEC-039D-041217	
Lab Sample ID	12L0194-12		17D0478-03	
Sample Date	12/04/2012		4/12/2017	
VOC (µg/L)				
1,1,1-TCA	2.3	U	20	U
1,1,2-TCA	13	U	20	U
1,2-DCA	3.6	U	20	U
1,1-DCE	5.2	U	20	U
Chloroethane	28	U	20	U
cDCE	**90**		20	U
PCE	**11**	J	**28**	JD
tDCE	**12**	J	20	U
TCE	**1500**		**560**	D
Trichlorofluoromethane	5.4	U	20	U
Vinyl chloride	6.8	U	20	U

DEC-039				
Sample ID	DEC-039-20121204		DEC-039-041217	
Lab Sample ID	12L0194-11		17D0478-02	
Sample Date	12/04/2012		4/12/2017	
VOC (µg/L)				
1,1,1-TCA	**8.2**		**2.1**	JD
1,1,2-TCA	1.3	U	1	U
1,2-DCA	0.36	U	1	U
1,1-DCE	**1.9**	J	**2.4**	JD
Chloroethane	2.8	U	1	U
cDCE	**16**		**6.8**	D
PCE	**43**		**52**	D
tDCE	0.52	U	1	U
TCE	**93**		**62**	D
Trichlorofluoromethane	**6.3**		1	U
Vinyl chloride	0.68	U	1	U

ACME-MW-1D/EB-1						
Sample ID	ACME-MW-1D-20121204		ACME-MW-1D-041217		ACME-GWDUP01-041217	
Lab Sample ID	12L0194-10		17D0478-04		17D0478-05	
Sample Date	12/04/2012		4/12/2017		4/12/2017	
VOC (µg/L)						
1,1,1-TCA	0.23	U	4	U	4	U
1,1,2-TCA	1.3	U	4	U	4	U
1,2-DCA	0.36	U	4	U	4	U
1,1-DCE	**8.1**		**7.2**	JD	**7.2**	JD
Chloroethane	2.8	U	4	U	4	U
cDCE	**190**		**230**	D	**210**	D
PCE	**8.8**		**13**	D	**14**	D
tDCE	**7.9**		**12**	D	**12**	D
TCE	**2100**		**2400**	D	**2400**	D
Trichlorofluoromethane	0.54	U	4	U	4	U
Vinyl chloride	**1.3**	J	4	U	4	U

DEC-022D				
Sample ID	DEC-022D-20121204		DEC-022D-041317	
Lab Sample ID	12L0194-08		17D0566-05	
Sample Date	12/04/2012		4/13/2017	
VOC (µg/L)				
1,1,1-TCA	**0.92**	J	**0.91**	
1,1,2-TCA	**23**		0.2	U
1,2-DCA	0.36	U	0.2	U
1,1-DCE	0.52	U	**0.48**	J
Chloroethane	2.8	U	0.2	U
cDCE	**35**		**26**	
PCE	**600**		**160**	E
tDCE	0.52	U	**1.2**	
TCE	**74**		**35**	E
Trichlorofluoromethane	0.54	U	0.2	U
Vinyl chloride	0.68	U	0.2	U

STANDARD	NYSDEC TOGS 1.1.1 AWQS GA
VOC (µg/L)	
1,1,1-Trichloroethane (1,1,1-TCA)	5
1,1,2-Trichloroethane (1,1,2-TCA)	1
1,2-Dichloroethane (1,2-DCA)	0.6
1,1-Dichloroethene (1,1-DCE)	5
Chloroethane	5
cis-1,2-dichloroethylene (cDCE)	5
Tetrachloroethylene (PCE)	5
Trans-1,2-dichloroethene (tDCE)	5
Trichloroethylene (TCE)	5
Trichlorofluoromethane	5
Vinyl chloride	2

80 0 40 80

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Figure Title

GROUNDWATER SAMPLE VOC RESULTS MAP

Project No. 170157201

Date 10/2/2017

Scale 1"=80'

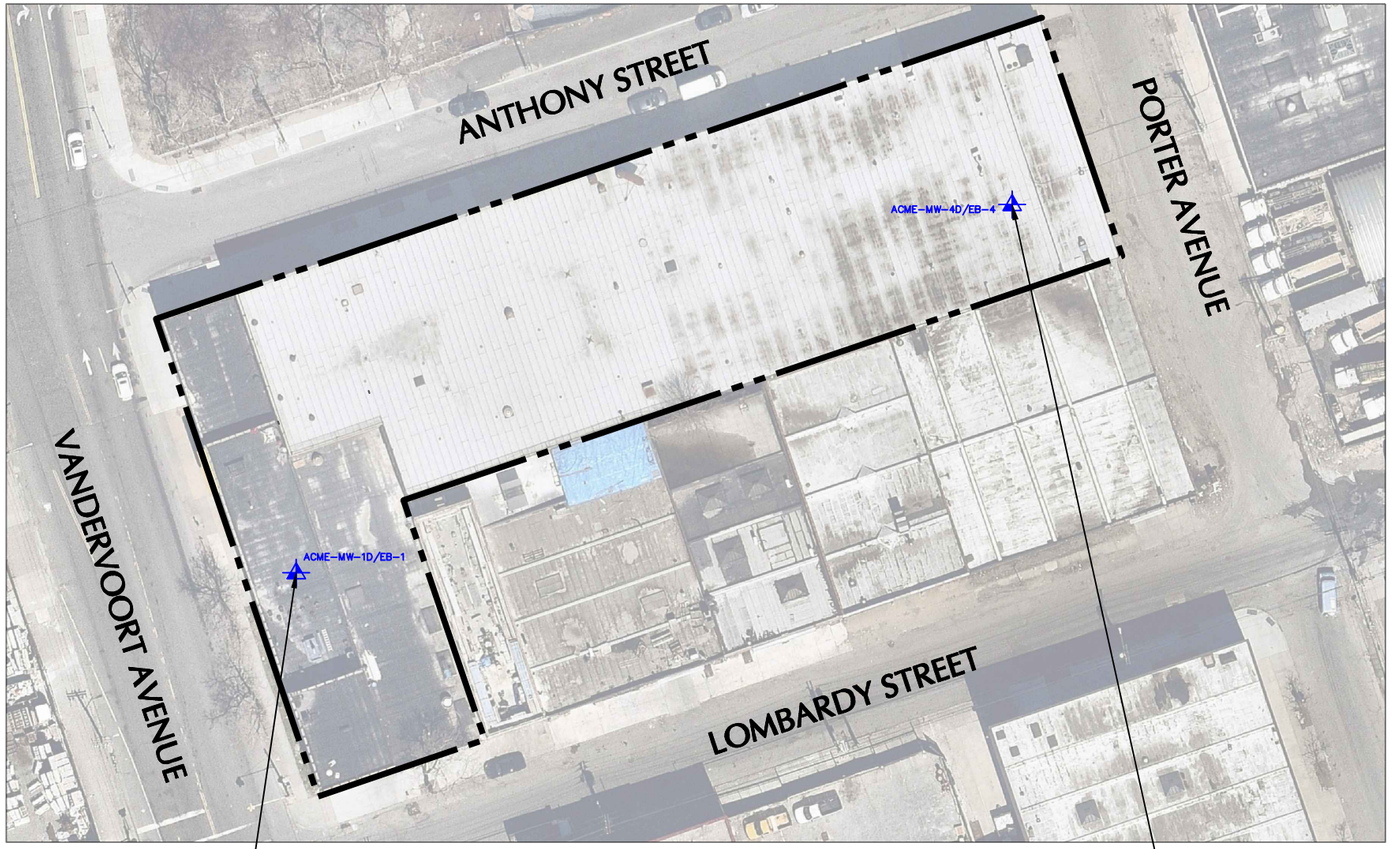
Drawn By WK

Checked By PTF

Submission Date

Figure No. 10

SHEET 12 of 21



LEGEND:

SITE BOUNDARY

ACME-MW-4D/EB-4 — RI SOIL BORING AND DEEP GROUNDWATER MONITORING WELL LOCATION

STANDARDS	NYSDEC TOGS Standards and Guidance Values - GA
Semivolatile Organic Compounds (µg/L)	
Total SVOCs	~
Pesticides (µg/L)	
Total Pesticides	~
Polychlorinated Biphenyls (µg/L)	
Total PCBs	0.09
Total Metals (µg/L)	
Magnesium	35,000
Manganese	300
Sodium	20,000
General Chemistry (µg/L)	
Total Cyanide	200

Sample ID	ACME-MW-1D-041217		ACME-GWDUP01-041217	
Lab Sample ID	17D0478-04		17D0478-05	
Sampling Date	4/12/2017		4/12/2017	
Semivolatile Organic Compounds (µg/L)				
Total SVOCs	ND		ND	
Pesticides (µg/L)				
Total Pesticides	ND		ND	
Polychlorinated Biphenyls (µg/L)				
Total PCBs	ND		ND	
Total Metals (µg/L)				
Magnesium	**43,900**	B	**42,200**	B
Manganese	**1,290**		**1,160**	
Sodium	**128,000**		**123,000**	
General Chemistry (µg/L)				
Total Cyanide	ND		ND	

Sample ID	ACME-MW-4D-041317
Lab Sample ID	17D0566-04
Sampling Date	4/13/2017
Semivolatile Organic Compounds (µg/L)	
Total SVOCs	ND
Pesticides (µg/L)	
Total Pesticides	ND
Polychlorinated Biphenyls (µg/L)	
Total PCBs	ND
Total Metals (µg/L)	
Magnesium	**43,600**
Manganese	**2,710**
Sodium	**143,000**
General Chemistry (µg/L)	
Total Cyanide	ND

NOTES:
1. BASE MAP SOURCE: NEARMAP.COM AERIAL PHOTO DATED APRIL 9, 2017.
2. THE REMEDIAL INVESTIGATION (RI) WAS CONDUCTED BY LANGAN BETWEEN SEPTEMBER AND DECEMBER 2012.
3. THE SUPPLEMENTAL REMEDIAL INVESTIGATION (SRI) WAS CONDUCTED BY LANGAN BETWEEN MARCH AND APRIL 2017.
4. GROUNDWATER SAMPLE ANALYTICAL RESULTS ARE COMPARED TO THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC) TECHNICAL AND OPERATIONAL GUIDANCE SERIES (TOGS) 1.1.1 AMBIENT WATER QUALITY STANDARDS (AWQS) AND GUIDANCE VALUES FOR DRINKING WATER (CLASS GA).
5. DETECTED CONCENTRATIONS EXCEEDING TOGS 1.1.1 AWQS ARE IN BOLD AND HIGHLIGHTED.
6. PCB = POLYCHLORINATED BIPHENYL
7. SVOC = SEMIVOLATILE ORGANIC COMPOUND
8. µg/L = MICROGRAMS PER LITER
9. ND = NOT DETECTED
10. U = ANALYTE INCLUDED IN ANALYSIS, BUT NOT DETECTED
11. B = ANALYTE FOUND IN THE ANALYSIS BATCH BLANK
12. D = RESULT IS FROM AN ANALYSIS THAT REQUIRED A DILUTION
13. ~ = TOGS 1.1.1 AWQS CRITERION DOES NOT EXIST FOR THIS ANALYTE

60 0 60
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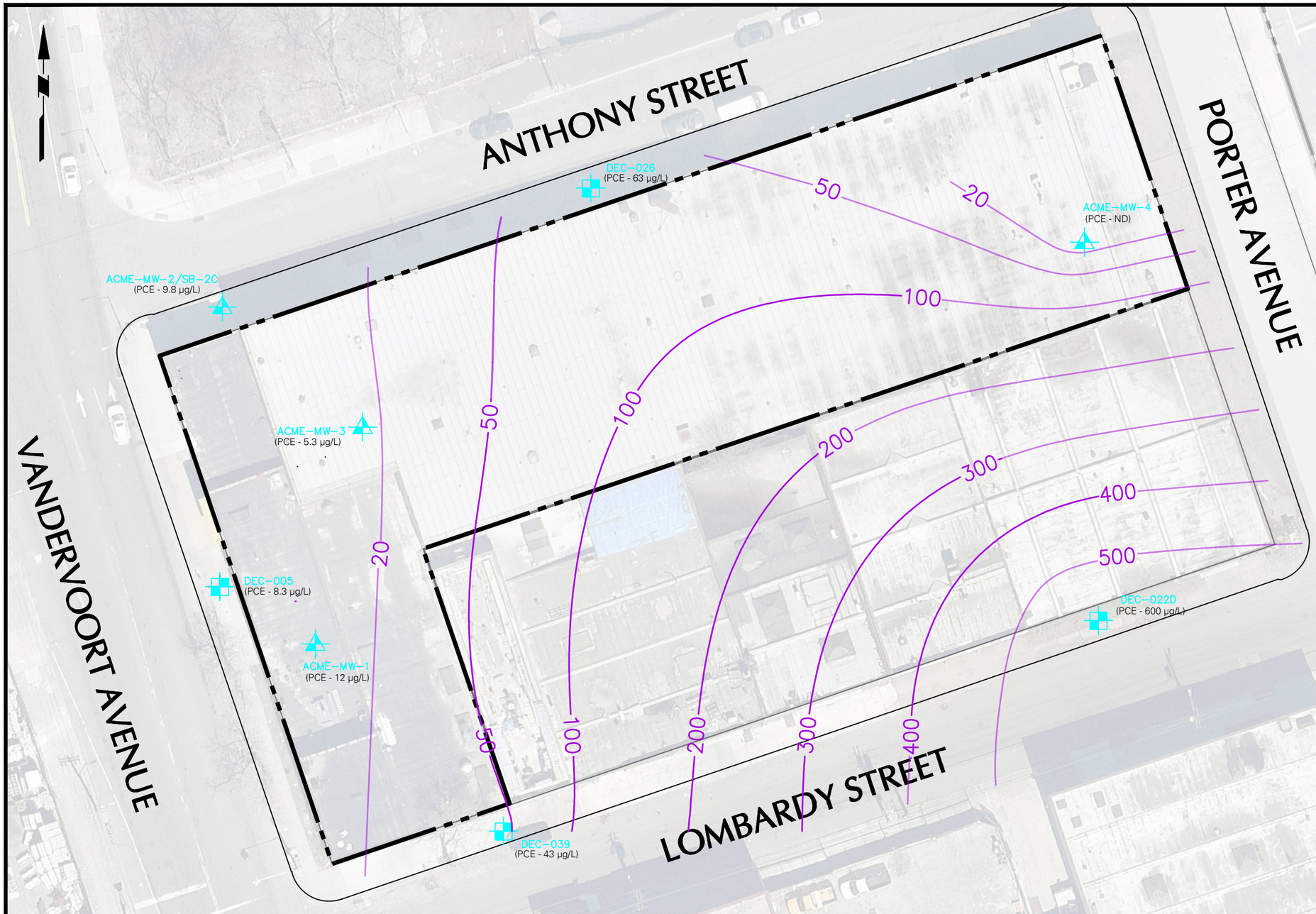
Figure Title
GROUNDWATER SAMPLE SVOC, PESTICIDES, PCB, AND METALS RESULTS MAP

Project No.	Figure No.
170157201	11
Date 10/3/2017	
Scale 1"=60'	
Drawn By WK / Checked By PF	
Submission Date	SHEET 13 of 21

Filename: \\langan.com\data\NYC\data2\170157201\Cadd Data - 170157201\SRIR\224131\Figure 11 - Groundwater Sample SVOC, Pest, PCB, Metals Results Map.dwg Date: 1/4/2018 Time: 13:49 User: nkung Style Table: Langan.stb Layout: SRIR - BLP



LEGEND:

- SITE BOUNDARY
- BUILDING OUTLINE
- ACME-MW-1 — RI SHALLOW GROUNDWATER MONITORING WELL LOCATION
- DEC-005 — SHALLOW NYSDEC GROUNDWATER MONITORING WELL LOCATION
- 50 — PCE ISOCONCENTRATION CONTOUR (µgLl)

NOTES:

1. BASE MAP SOURCE: NEARMAP.COM AERIAL PHOTO DATED APRIL 9, 2017
2. THE REMEDIAL INVESTIGATION (RI) WAS CONDUCTED BY LANGAN BETWEEN SEPTEMBER AND DECEMBER 2012. GROUNDWATER SAMPLES WERE COLLECTED IN DECEMBER 2012.
3. PCE = TETRACHLOROETHENE
4. µg/L = MICROGRAMS PER LITER
5. PCE CONCENTRATION AT EACH SHALLOW MONITORING WELL IS INDICATED IN PARENTHESIS.
6. ND = NOT DETECTED

40 0 10 25 40
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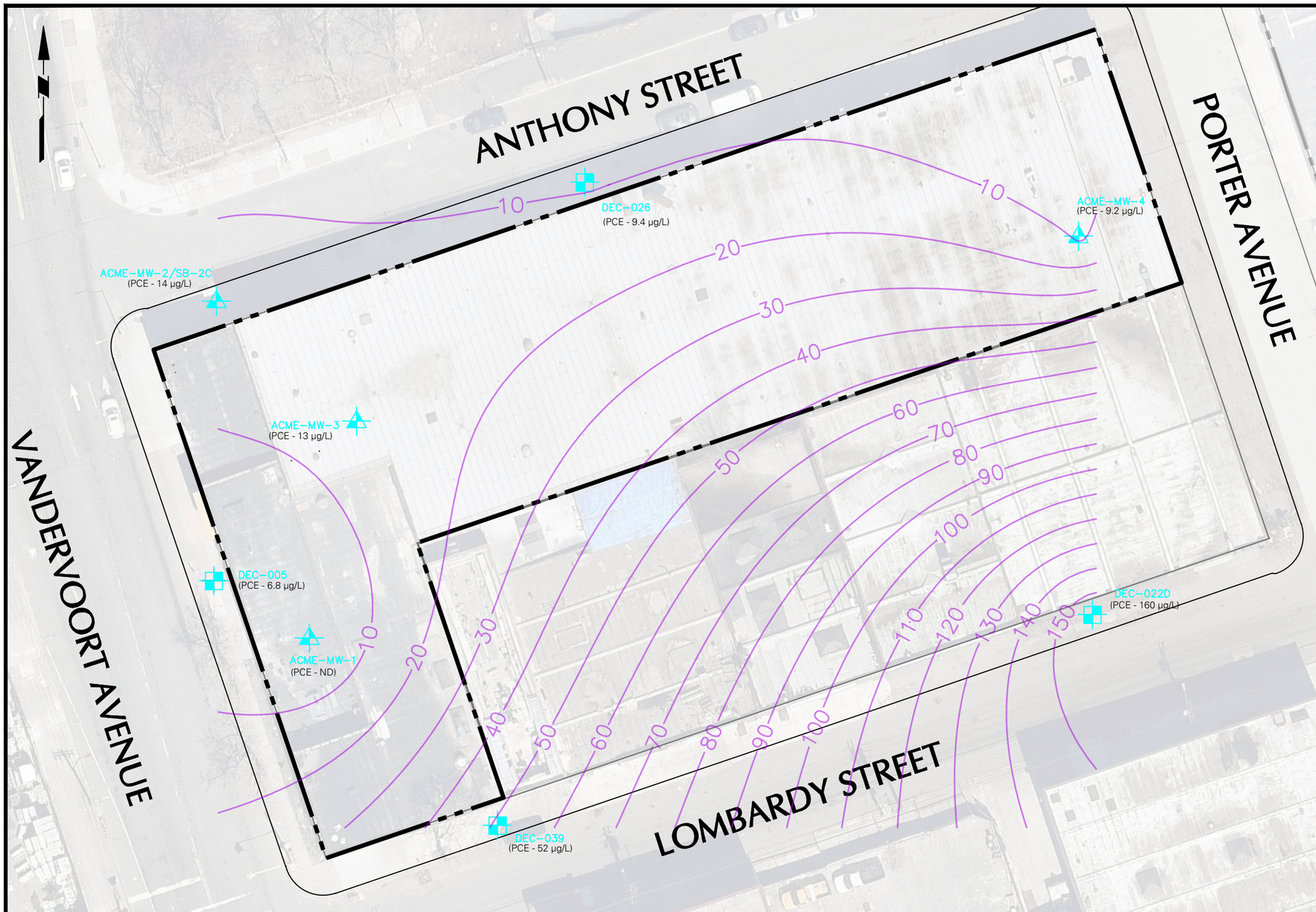
Figure Title
SHALLOW OVERBURDEN GROUNDWATER PCE ISOCONCENTRATION MAP - 2012

Project No. 170157201	Figure No. 12A
Date 9/29/2017	
Scale 1" = 40'	
Drawn By EB	
Submission Date	Sheet 14 of 21

Filename: \\langan.com\data\NYC\data2\170157201\Cadd Data - 170157201\SRIR\224131\Figure 12A - Shallow Overburden Groundwater PCE Isoconcentration Map-2012.dwg Date: 1/21/2018 Time: 19:10 User: jyanowitz Style Table: Langan.stb Layout: ANSIB-BLI



LEGEND:

- SITE BOUNDARY
- BUILDING OUTLINE
- ACME-MW-1 — RI SHALLOW GROUNDWATER MONITORING WELL LOCATION
- DEC-005 — SHALLOW NYSDEC GROUNDWATER MONITORING WELL LOCATION
- 50 — PCE ISOCONCENTRATION CONTOUR (µg/L)

NOTES:

1. BASE MAP SOURCE: NEARMAP.COM AERIAL PHOTO DATED APRIL 9, 2017
2. THE REMEDIAL INVESTIGATION (RI) WAS CONDUCTED BY LANGAN BETWEEN SEPTEMBER AND DECEMBER 2012. GROUNDWATER SAMPLES WERE COLLECTED IN APRIL 2017.
3. PCE = TETRACHLOROETHENE
4. µg/L = MICROGRAMS PER LITER
5. PCE CONCENTRATION AT EACH SHALLOW MONITORING WELL IS INDICATED IN PARENTHESIS.
6. ND = NOT DETECTED

40 0 10 25 40

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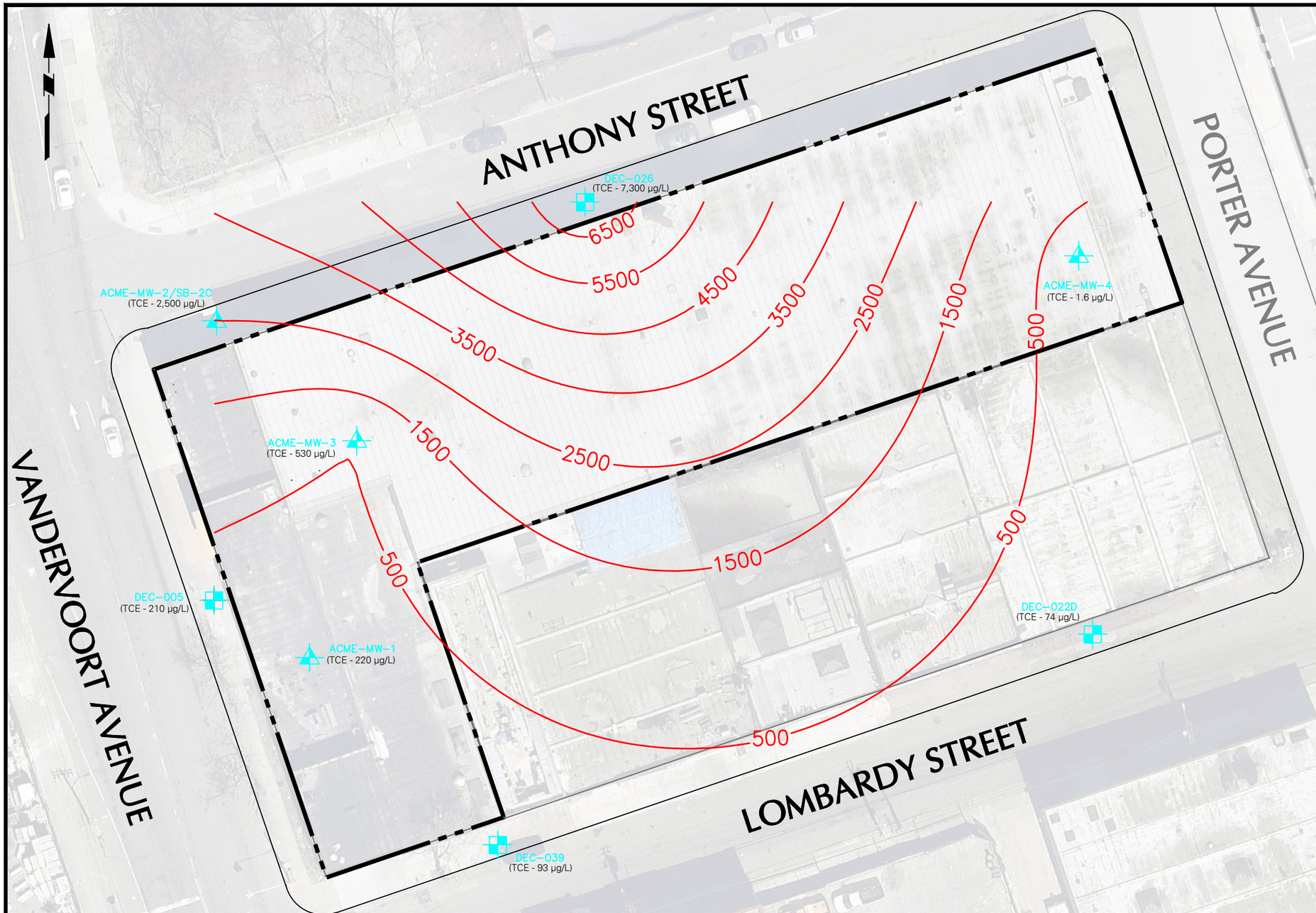
Figure Title
SHALLOW OVERBURDEN GROUNDWATER PCE ISOCONCENTRATION MAP - 2017

Project No. 170157201	Figure No. 12B
Date 9/29/2017	
Scale 1" = 40'	
Drawn By JFY	
Submission Date	Sheet 15 of 21

Filename: \\Langan.com\data\NY\data2\170157201\Cadd Data - 170157201\SRIR\224131\Figure 12B - Shallow Overburden Groundwater PCE Isoconcentration Map-2017.dwg Date: 1/16/2018 Time: 10:04 User: knagotko Style Table: Langan.stb Layout: ANSIB-BLI



LEGEND:

- SITE BOUNDARY
- BUILDING OUTLINE
- ACME-MW-1 — RI SHALLOW GROUNDWATER MONITORING WELL LOCATION
- DEC-005 — SHALLOW NYSDEC GROUNDWATER MONITORING WELL LOCATION
- 1000 — TCE ISOCONCENTRATION CONTOUR (µg/L)

NOTES:

1. BASE MAP SOURCE: NEARMAP.COM AERIAL PHOTO DATED APRIL 9, 2017
2. THE REMEDIAL INVESTIGATION (RI) WAS CONDUCTED BY LANGAN BETWEEN SEPTEMBER AND DECEMBER 2012. GROUNDWATER SAMPLES WERE COLLECTED IN DECEMBER 2012.
3. TCE = TRICHLOROETHENE
4. µg/L = MICROGRAMS PER LITER
5. TCE CONCENTRATION AT EACH SHALLOW MONITORING WELL IS INDICATED IN PARENTHESIS.

40 0 10 25 40

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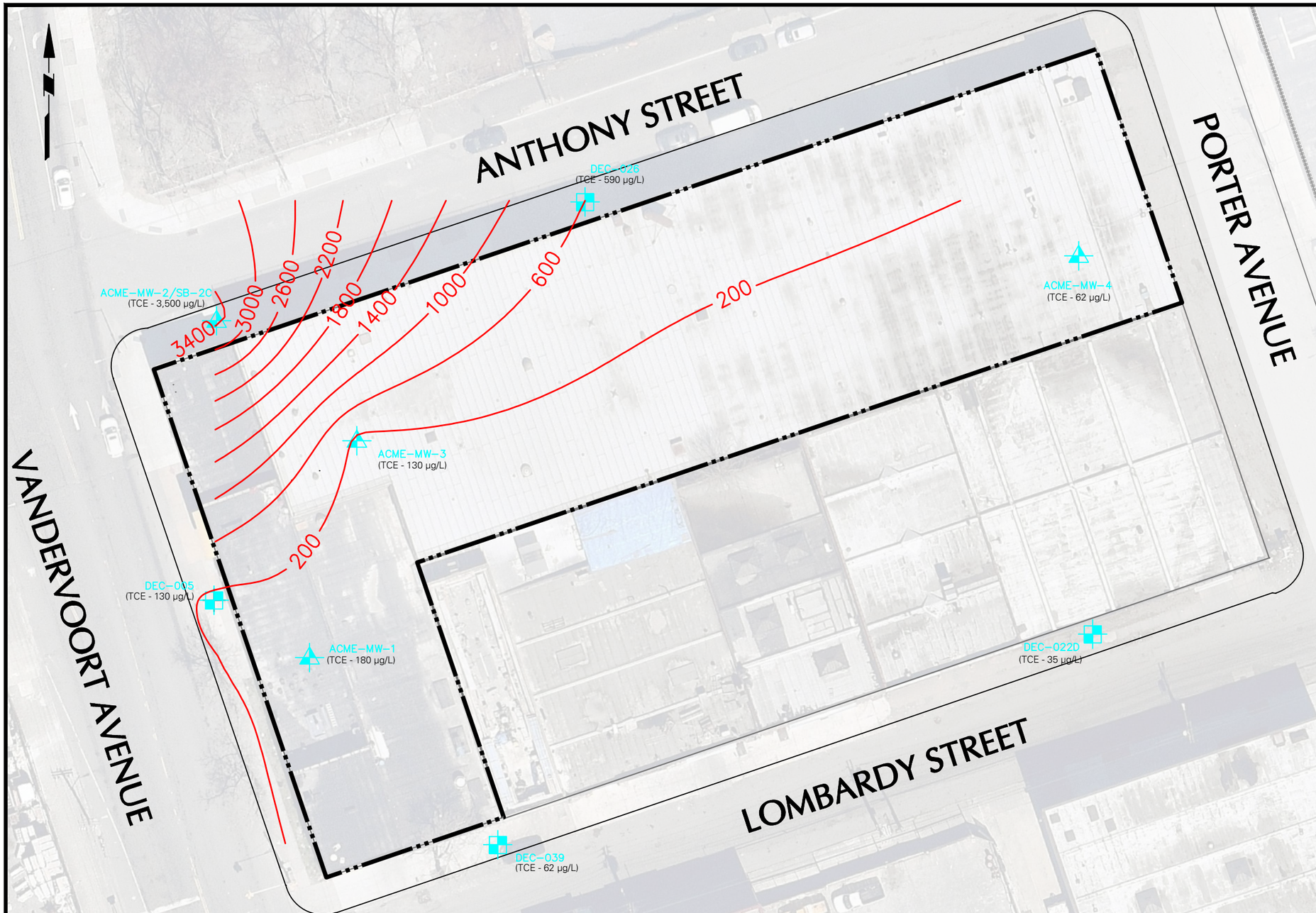
Figure Title
SHALLOW OVERBURDEN GROUNDWATER TCE ISOCONCENTRATION MAP - 2012

Project No. 170157201	Figure No. 13A
Date 9/29/2017	
Scale 1" = 40'	
Drawn By JFY	
Submission Date	Sheet 16 of 21

Filename: \\langan.com\data\NYC\data2\170157201\Cadd Data - 170157201\SRIR\224131\Figure 13A - Shallow Overburden Groundwater TCE Isoconcentration Map.dwg Date: 1/22/2018 Time: 11:08 User: jyanowitz Style Table: Langan.stb Layout: ANSIB-BLI



LEGEND:

- SITE BOUNDARY
- BUILDING OUTLINE
- ACME-MW-1 — RI SHALLOW GROUNDWATER MONITORING WELL LOCATION
- DEC-005 — SHALLOW NYSDEC GROUNDWATER MONITORING WELL LOCATION
- 1000 — TCE ISOCONCENTRATION CONTOUR (µg/L)

NOTES:

1. BASE MAP SOURCE: NEARMAP.COM AERIAL PHOTO DATED APRIL 9, 2017
2. THE REMEDIAL INVESTIGATION (RI) WAS CONDUCTED BY LANGAN BETWEEN SEPTEMBER AND DECEMBER 2012. GROUNDWATER SAMPLES WERE COLLECTED IN APRIL 2017.
3. TCE = TRICHLOROETHENE
4. µg/L = MICROGRAMS PER LITER
5. TCE CONCENTRATION AT EACH SHALLOW MONITORING WELL IS INDICATED IN PARENTHESIS.

40 0 10 25 40
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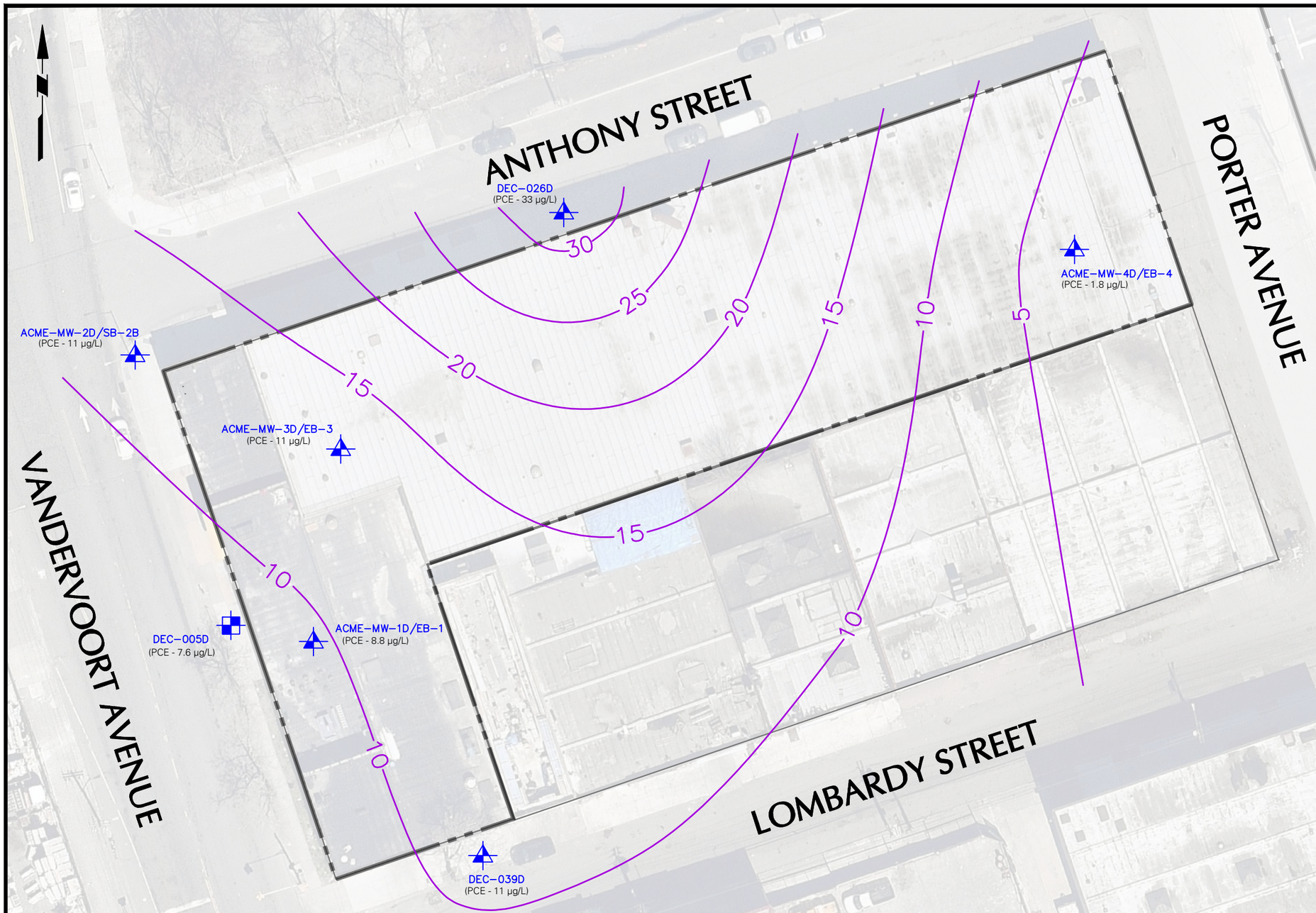
Figure Title
SHALLOW OVERBURDEN GROUNDWATER TCE ISOCONCENTRATION MAP - 2017

Project No. 170157201	Figure No. 13B
Date 9/29/2017	
Scale 1" = 40'	
Drawn By EB	
Submission Date	Sheet 17 of 21

Filename: \\Langan.com\data\NY\data2\170157201\Cadd Data - 170157201\SRIR\224131\Figure 13B - Shallow Overburden Groundwater TCE Isoconcentration Map-2017.dwg Date: 1/16/2018 Time: 10:08 User: knagotko Style Table: Langan.stb Layout: ANSIB-BLI



LEGEND:

- SITE BOUNDARY
- BUILDING OUTLINE
- ME-MW-1D/EB-1 — RI SOIL BORING AND DEEP GROUNDWATER MONITORING WELL LOCATION
- DEC-005D — DEEP NYSDEC GROUNDWATER MONITORING WELL LOCATION
- 15 — PCE ISOCONCENTRATION CONTOUR (µg/L)

NOTES:

1. BASE MAP SOURCE: NEARMAP.COM AERIAL PHOTO DATED APRIL 9, 2017
2. THE REMEDIAL INVESTIGATION (RI) WAS CONDUCTED BY LANGAN BETWEEN SEPTEMBER AND DECEMBER 2012. GROUNDWATER SAMPLES WERE COLLECTED IN DECEMBER 2012.
3. PCE = TETRACHLOROETHENE
4. µg/L = MICROGRAMS PER LITER
5. PCE CONCENTRATION AT EACH DEEP MONITORING WELL IS INDICATED IN PARENTHESIS.

40 0 10 25 40

SCALE IN FEET

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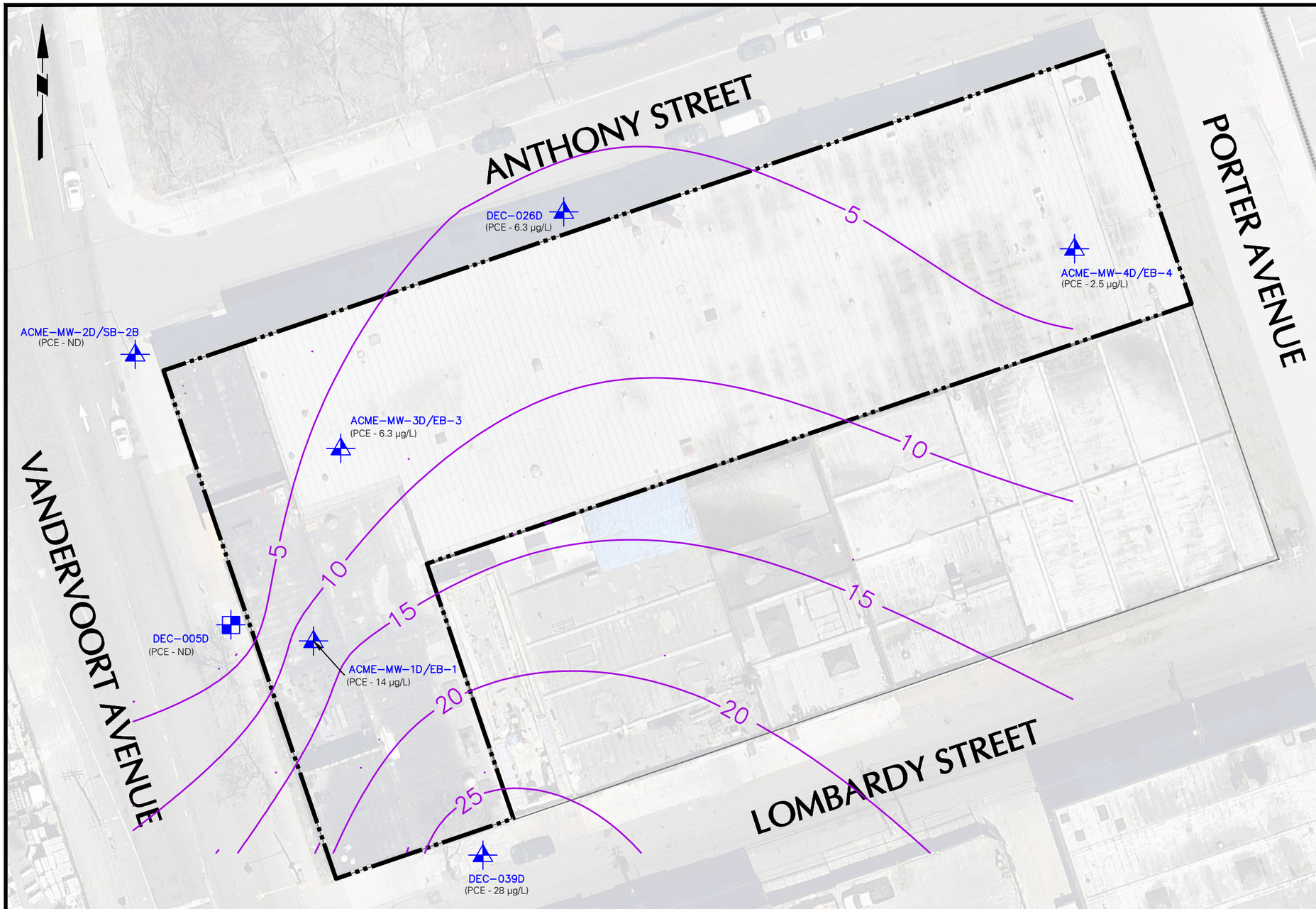
Figure Title

DEEP OVERBURDEN GROUNDWATER PCE ISOCONCENTRATION MAP - 2012

Project No. 170157201	Figure No. 14A
Date 9/29/2017	
Scale 1" = 40'	
Drawn By EB	
Submission Date	Sheet 18 of 21

Filename: \\Langan.com\data\NY\data2\170157201\Cadd Data - 170157201\SRIR\224131\Figure 14A - Deep Overburden Groundwater PCE Isoconcentration Map - 2012.dwg Date: 1/16/2018 Time: 10:10 User: knagotko Style Table: Langan.stb Layout: ANSIB-BLI



LEGEND:

- SITE BOUNDARY
- BUILDING OUTLINE
- ME-MW-1D/EB-1 — RI SOIL BORING AND DEEP GROUNDWATER MONITORING WELL LOCATION
- DEC-005D — DEEP NYSDEC GROUNDWATER MONITORING WELL LOCATION
- 15 — PCE ISOCONCENTRATION CONTOUR (µg/L)

NOTES:

1. BASE MAP SOURCE: NEARMAP.COM AERIAL PHOTO DATED APRIL 9, 2017
2. THE REMEDIAL INVESTIGATION (RI) WAS CONDUCTED BY LANGAN BETWEEN SEPTEMBER AND DECEMBER 2012. GROUNDWATER SAMPLES WERE COLLECTED IN APRIL 2017.
3. PCE = TETRACHLOROETHENE
4. µg/L = MICROGRAMS PER LITER
5. PCE CONCENTRATION AT EACH DEEP MONITORING WELL IS INDICATED IN PARENTHESIS.

40 0 10 25 40
SCALE IN FEET

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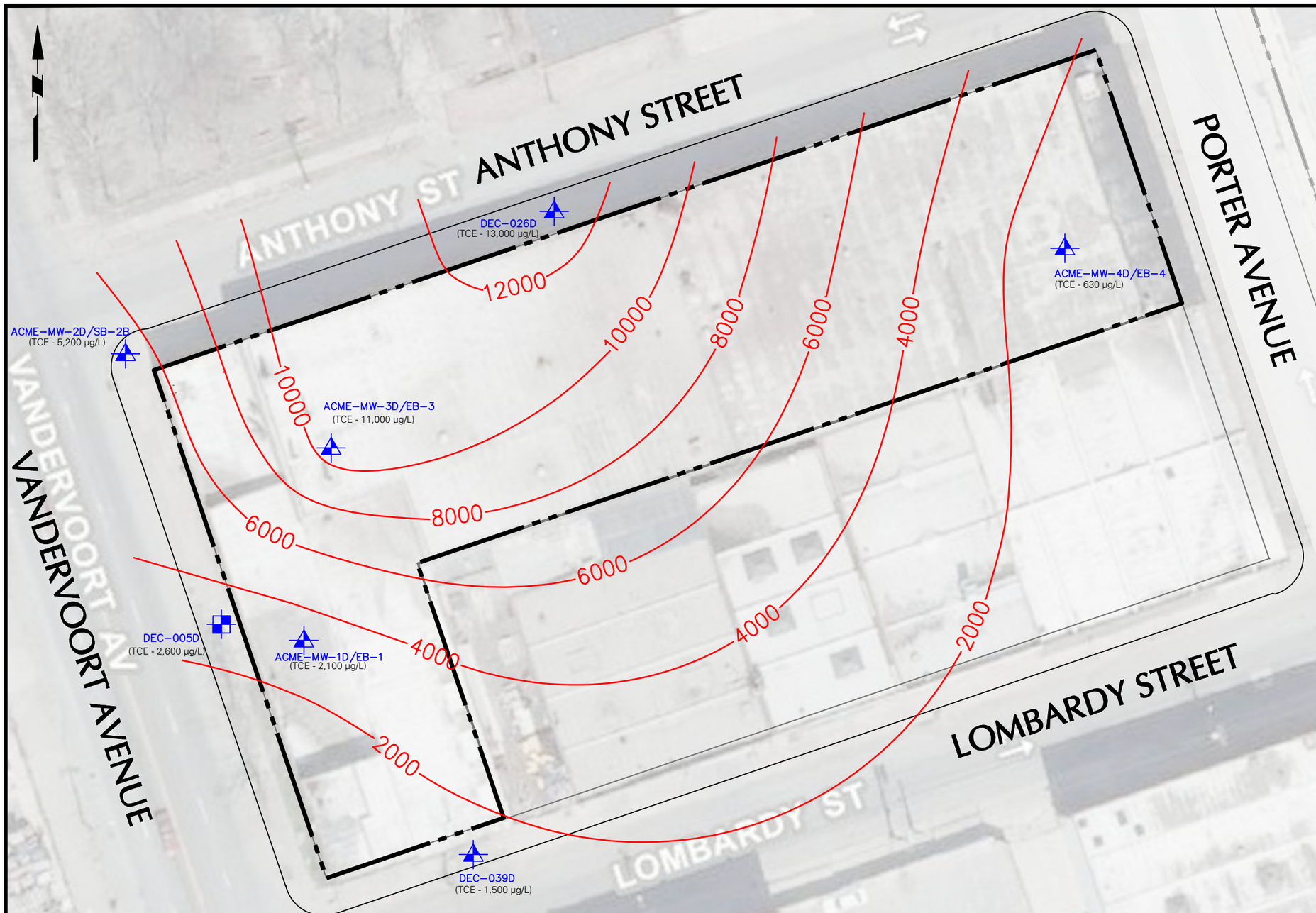
Figure Title
DEEP OVERBURDEN GROUNDWATER PCE ISOCONCENTRATION MAP - 2017

Project No. 170157201	Figure No. 14B
Date 9/29/2017	
Scale 1" = 40'	
Drawn By JFY	
Submission Date	Sheet 19 of 21

Filename: \\Langan.com\data\NY\data2\170157201\Cadd Data - 170157201\SRIR\224131\Figure 14B - Deep Overburden Groundwater PCE Isoconcentration Map - 2017.dwg Date: 1/16/2018 Time: 10:14 User: knagotko Style Table: Langan.stb Layout: ANSIB-BLI



LEGEND:

- SITE BOUNDARY
- BUILDING OUTLINE
- ACME-MW-1D/EB-1 — SOIL BORING AND DEEP GROUNDWATER MONITORING WELL LOCATION
- DEC-005D — DEEP NYSDEC GROUNDWATER MONITORING WELL LOCATION
- 6000 — TCE ISOCONCENTRATION CONTOUR (µg/L)

NOTES:

1. BASE MAP SOURCE: NEARMAP.COM AERIAL PHOTO DATED APRIL 9, 2017
2. THE REMEDIAL INVESTIGATION (RI) WAS CONDUCTED BY LANGAN BETWEEN SEPTEMBER AND DECEMBER 2012. GROUNDWATER SAMPLES WERE COLLECTED IN DECEMBER 2012.
3. TCE = TRICHLOROETHENE
4. µg/L = MICROGRAMS PER LITER
5. TCE CONCENTRATION AT EACH DEEP MONITORING WELL IS INDICATED IN PARENTHESIS.

40 0 10 25 40
SCALE IN FEET

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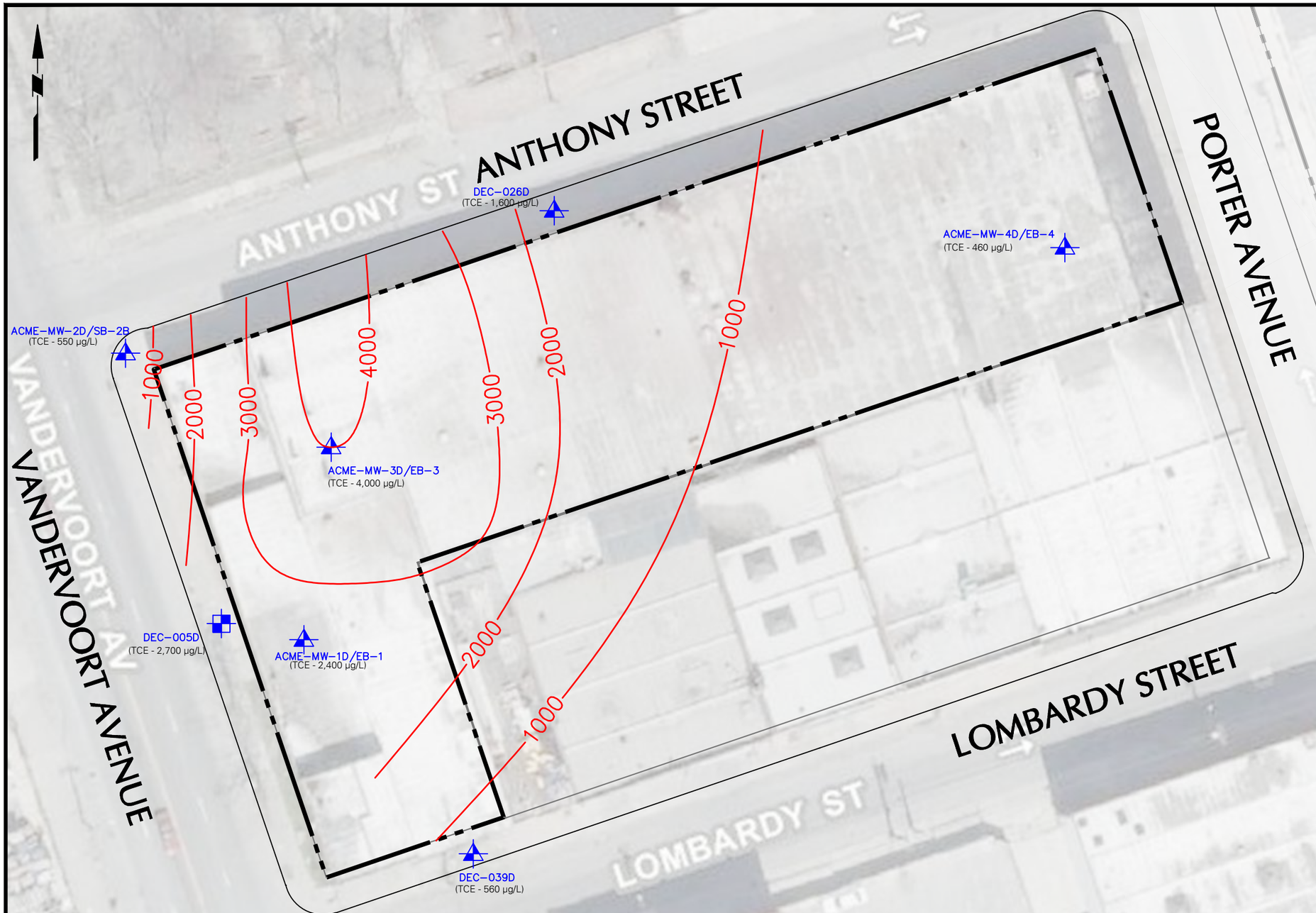
Figure Title
DEEP OVERBURDEN GROUNDWATER TCE ISOCONCENTRATION MAP - 2012

Project No. 170157201	Figure No. 15A
Date 9/29/2017	
Scale 1" = 40'	
Drawn By EB	
Submission Date	Sheet 20 of 21

Filename: \\langan.com\data\NYC\data2\170157201\Cadd Data - 170157201\SRIR\224131\Figure 15A - Deep Overburden Groundwater TCE Isoconcentration Map - 2012.dwg Date: 1/21/2018 Time: 20:17 User: jyanowitz Style Table: Langan.stb Layout: ANSIB-BLI



LEGEND:

- SITE BOUNDARY
- BUILDING OUTLINE
- ACME-MW-1D/EB-1 — SOIL BORING AND DEEP GROUNDWATER MONITORING WELL LOCATION
- DEC-005D — DEEP NYSDEC GROUNDWATER MONITORING WELL LOCATION
- 2000 — TCE ISOCONCENTRATION CONTOUR (µg/L)

NOTES:

1. BASE MAP SOURCE: NEARMAP.COM AERIAL PHOTO DATED APRIL 9, 2017
2. THE REMEDIAL INVESTIGATION (RI) WAS CONDUCTED BY LANGAN BETWEEN SEPTEMBER AND DECEMBER 2012. GROUNDWATER SAMPLES WERE COLLECTED IN APRIL 2017.
3. TCE = TRICHLOROETHENE
4. µg/L = MICROGRAMS PER LITER
5. TCE CONCENTRATION AT EACH DEEP MONITORING WELL IS INDICATED IN PARENTHESIS.

40 0 10 25 40
SCALE IN FEET

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Figure Title
DEEP OVERBURDEN GROUNDWATER TCE ISOCONCENTRATION MAP - 2017

Project No. 170157201	Figure No. 15B
Date 1/26/2018	
Scale 1" = 40'	
Drawn By JFY	
Submission Date	Sheet 21 of 21

Filename: \\langan.com\data\NYC\data2\170157201\Cadd Data - 170157201\SRIR\224131\Figure 15B - Deep Overburden Groundwater TCE Isoconcentration Map - 2017.dwg Date: 1/26/2018 Time: 10:42 User: jyanowitz Style Table: Langan.stb Layout: ANSIB-BLI