

National Grid
Former Metropolitan Works MGP Site
Brooklyn, NY

Location Map



AECOM

Source: Bing Maps Aerial 2010 Microsoft

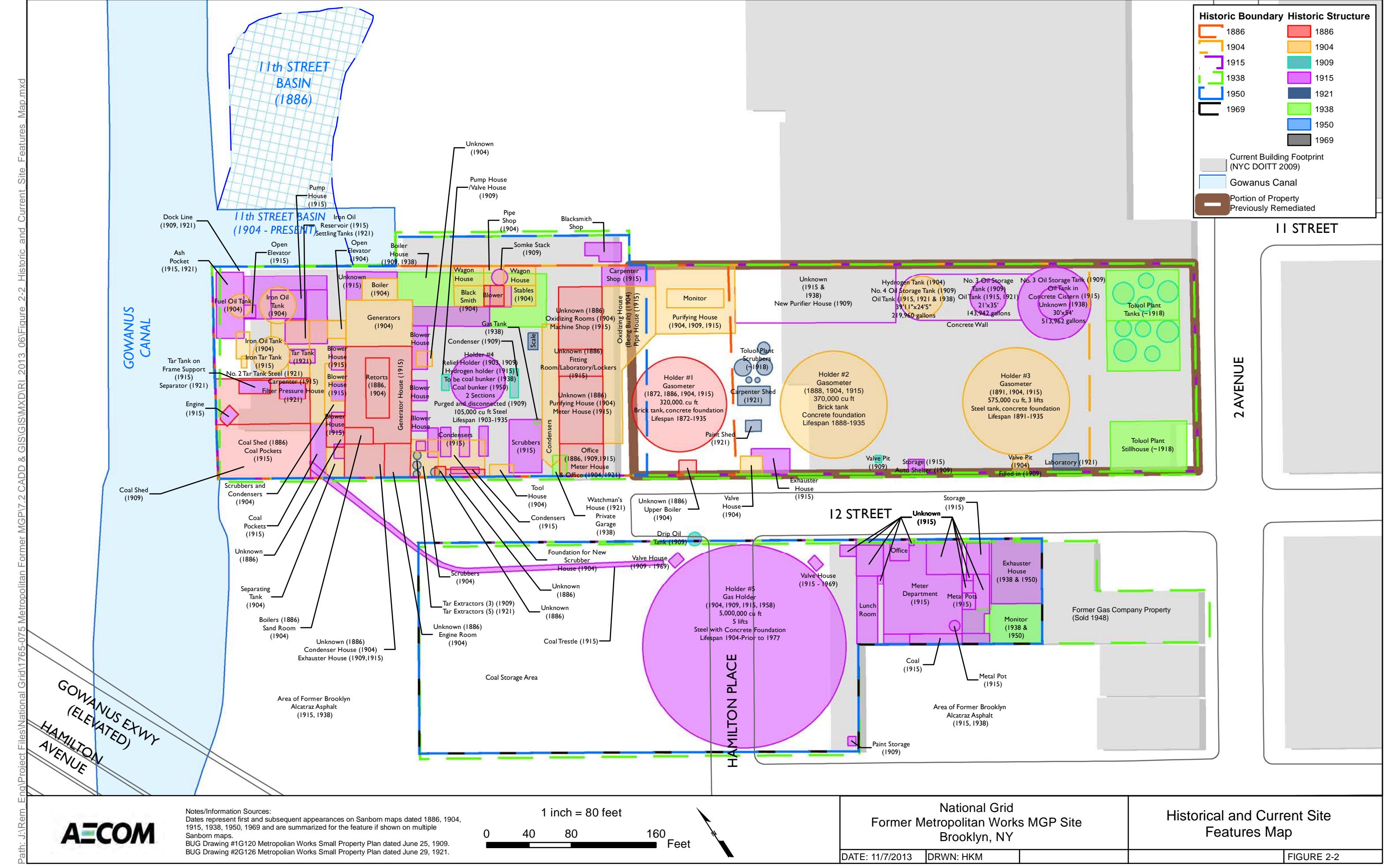
1 inch = 100 feet
0 50 100 200 Feet

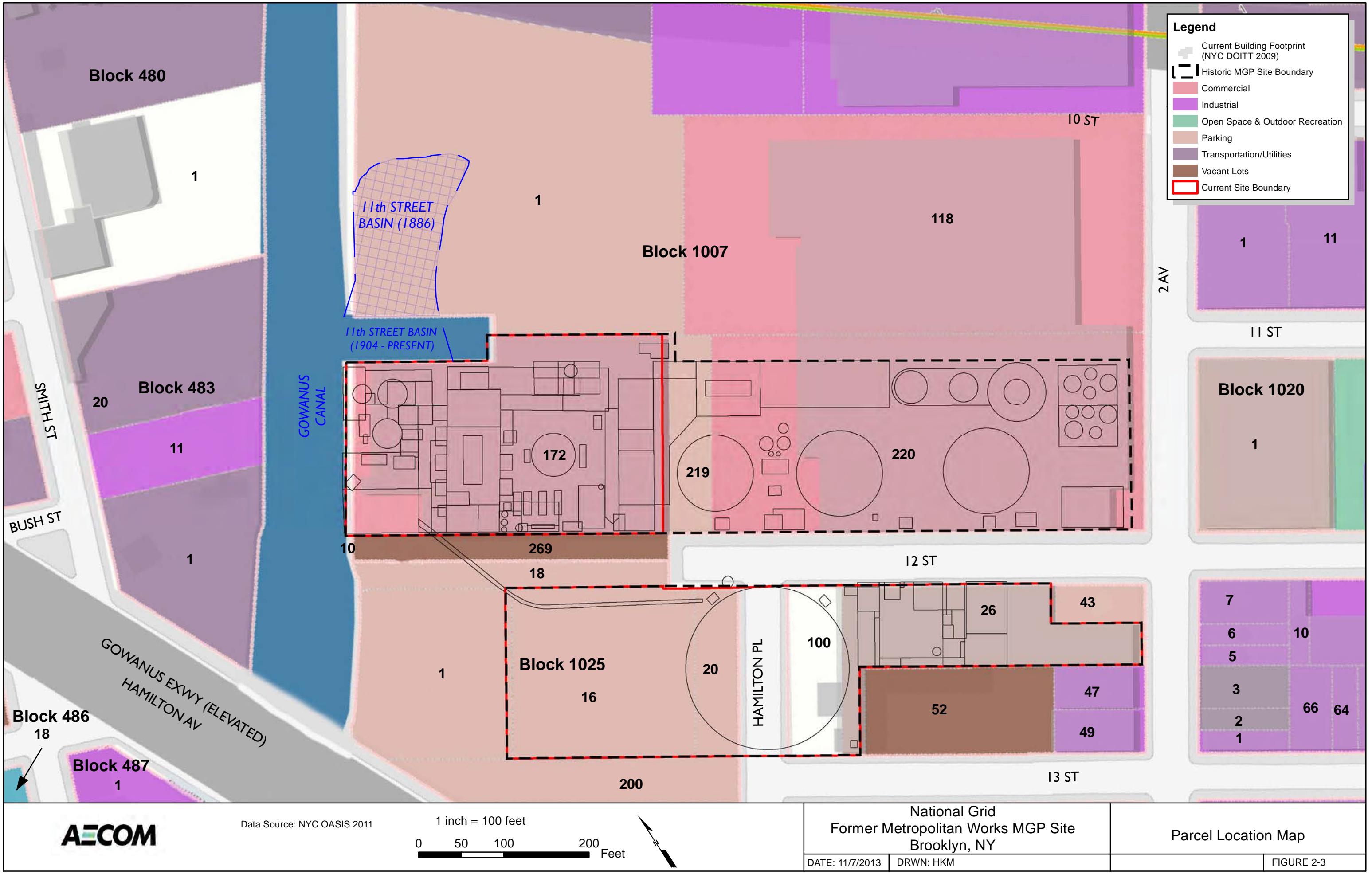
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Brooklyn, NY

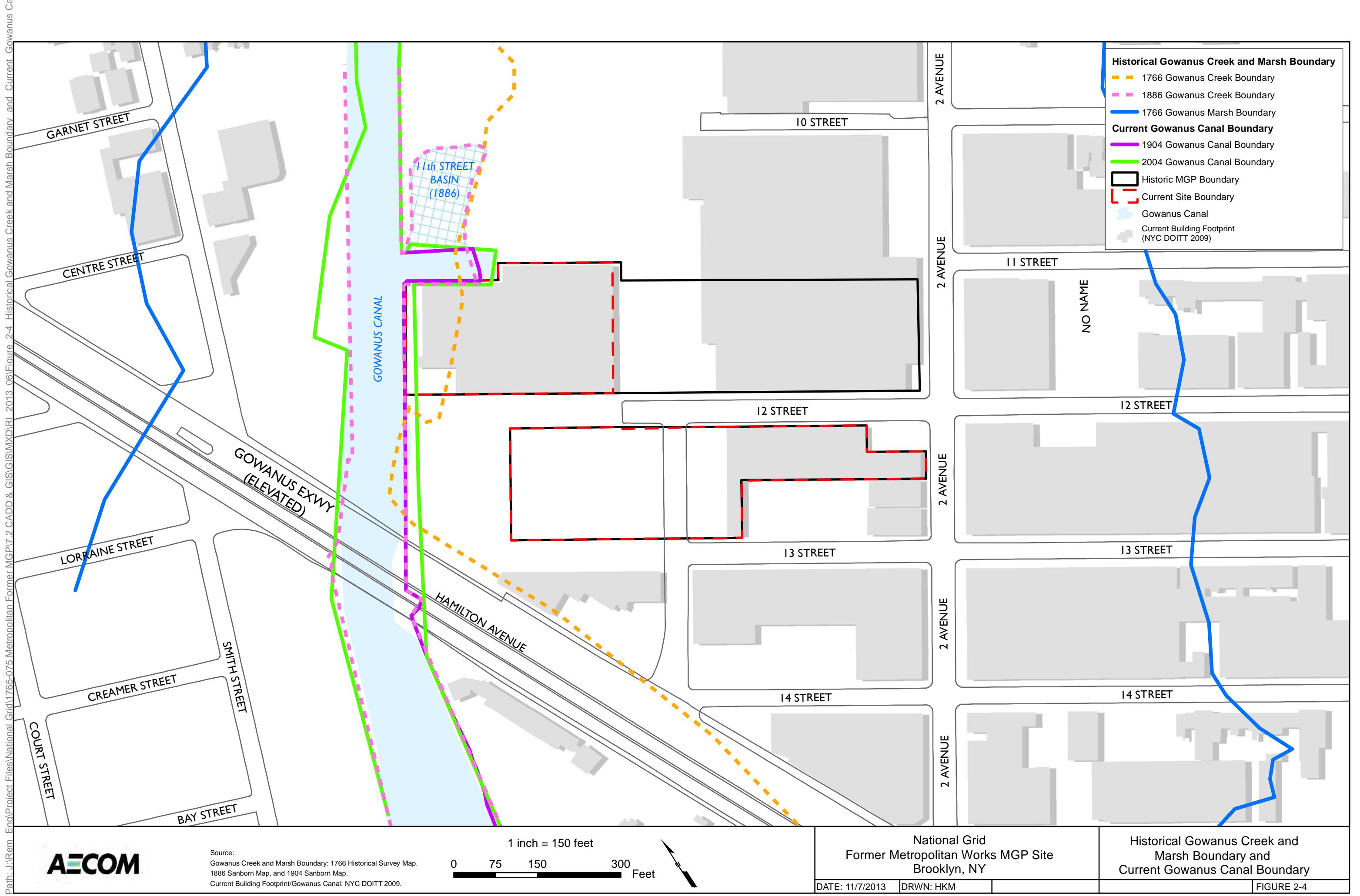
DATE: 11/7/2013 DRWN: HKM

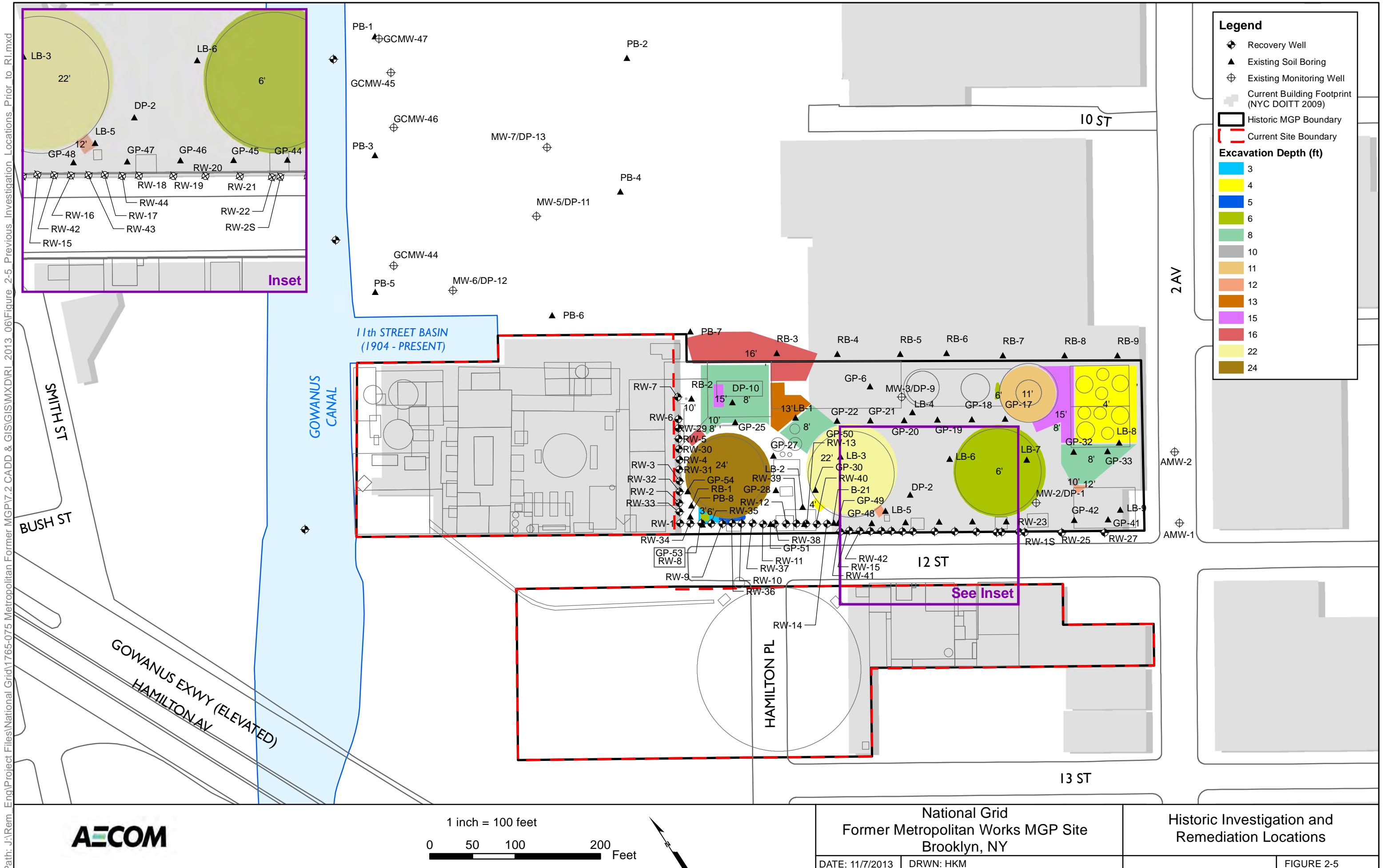
Aerial Site Location Map

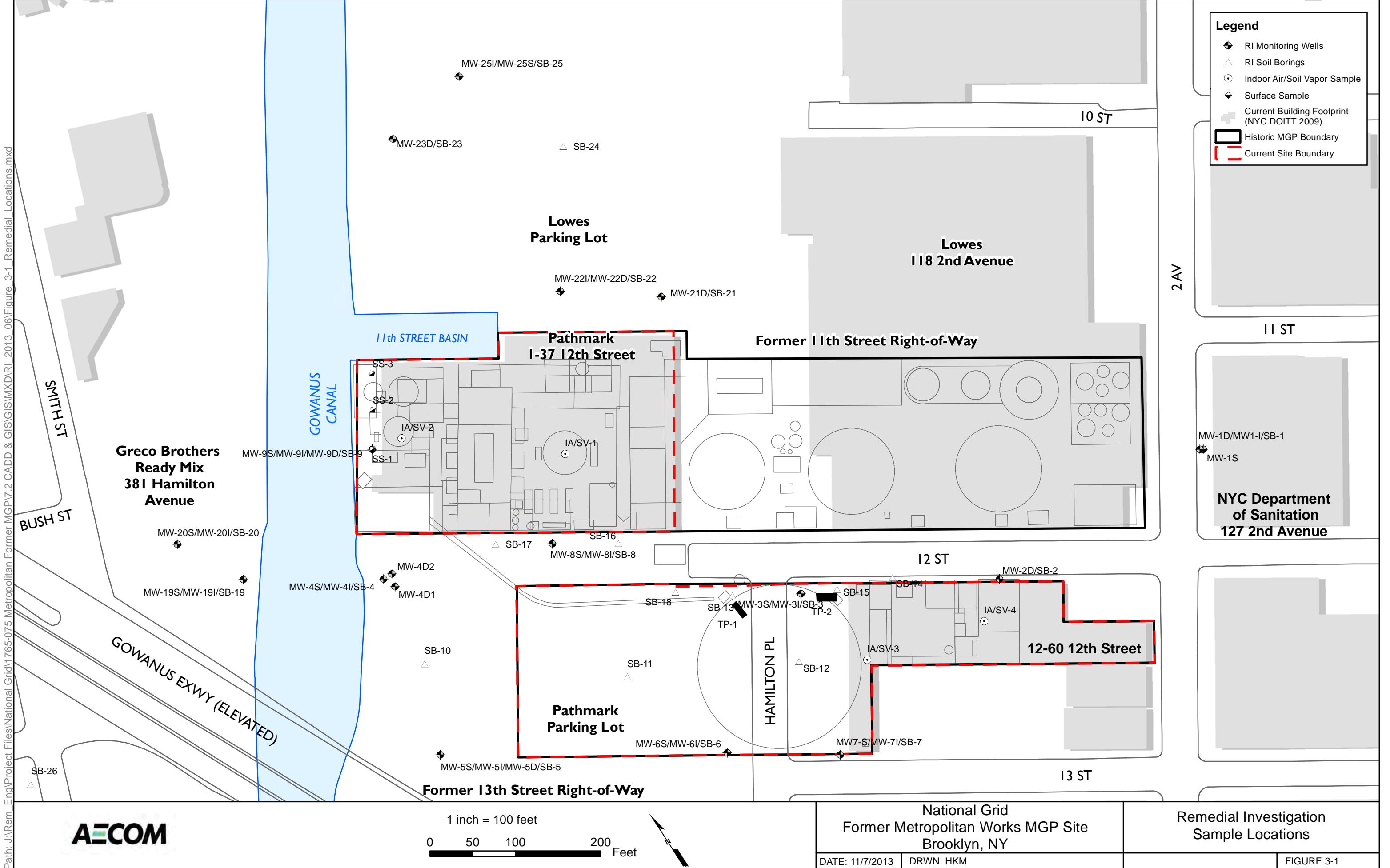
FIGURE 2-1

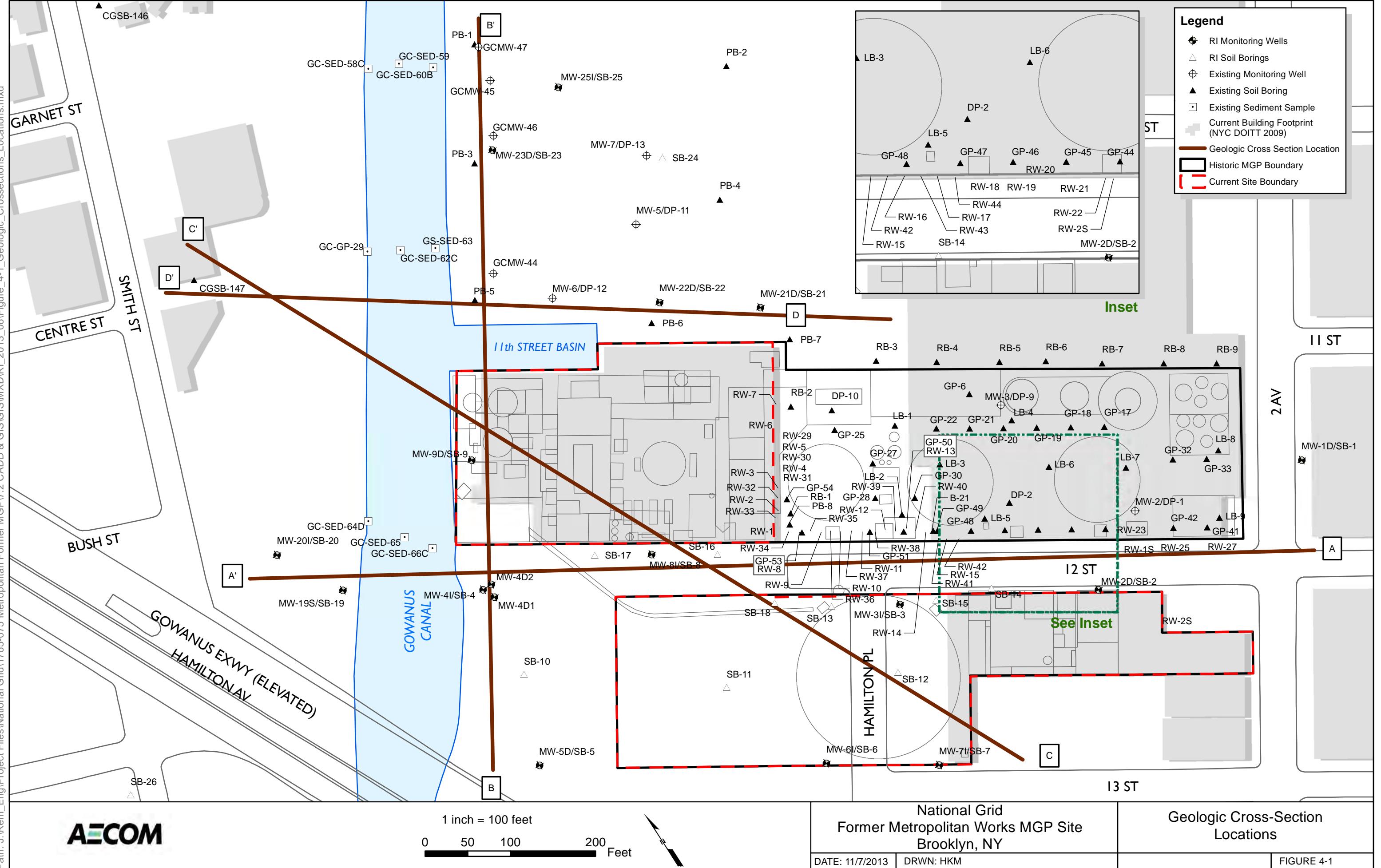


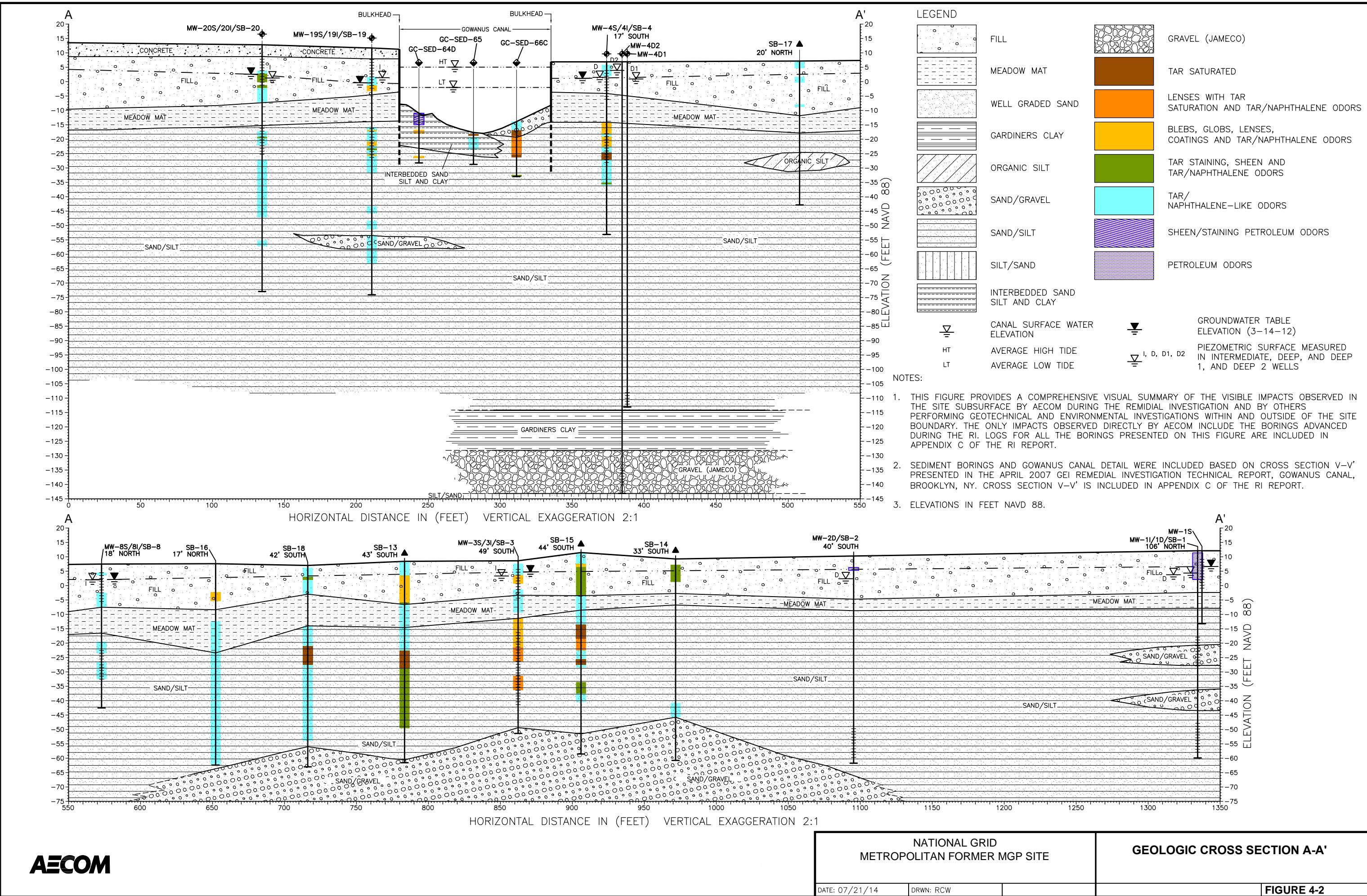


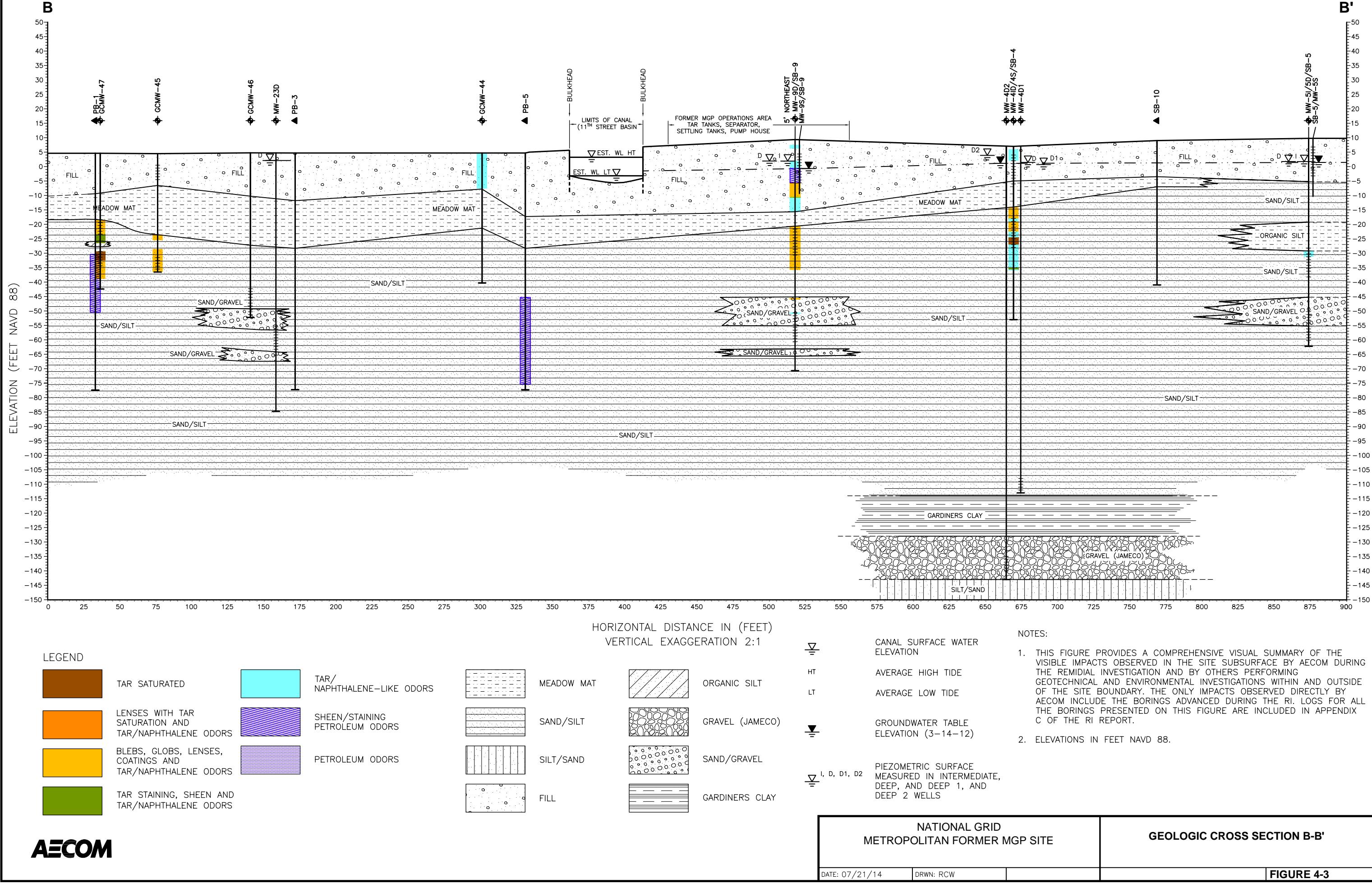


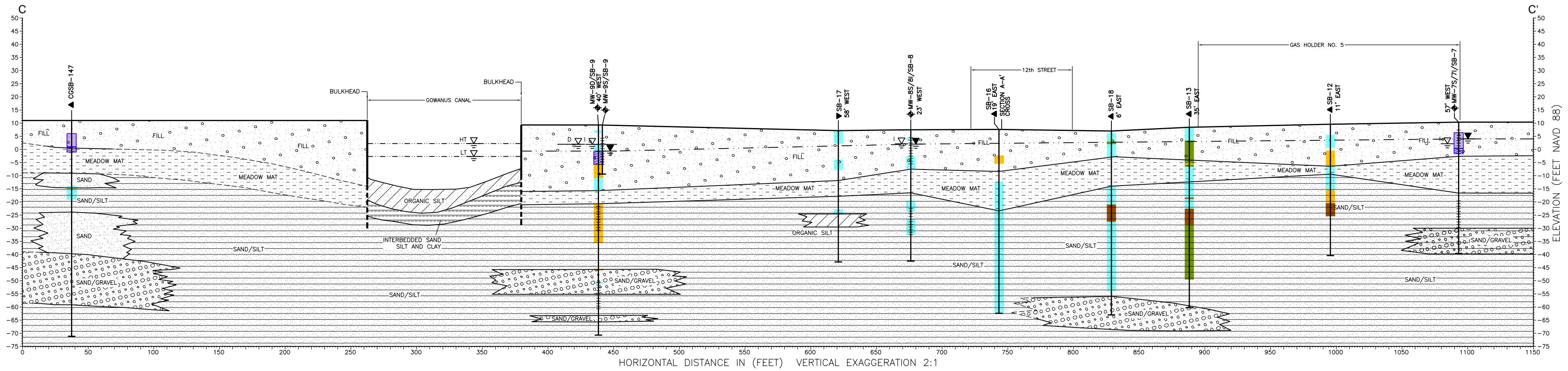










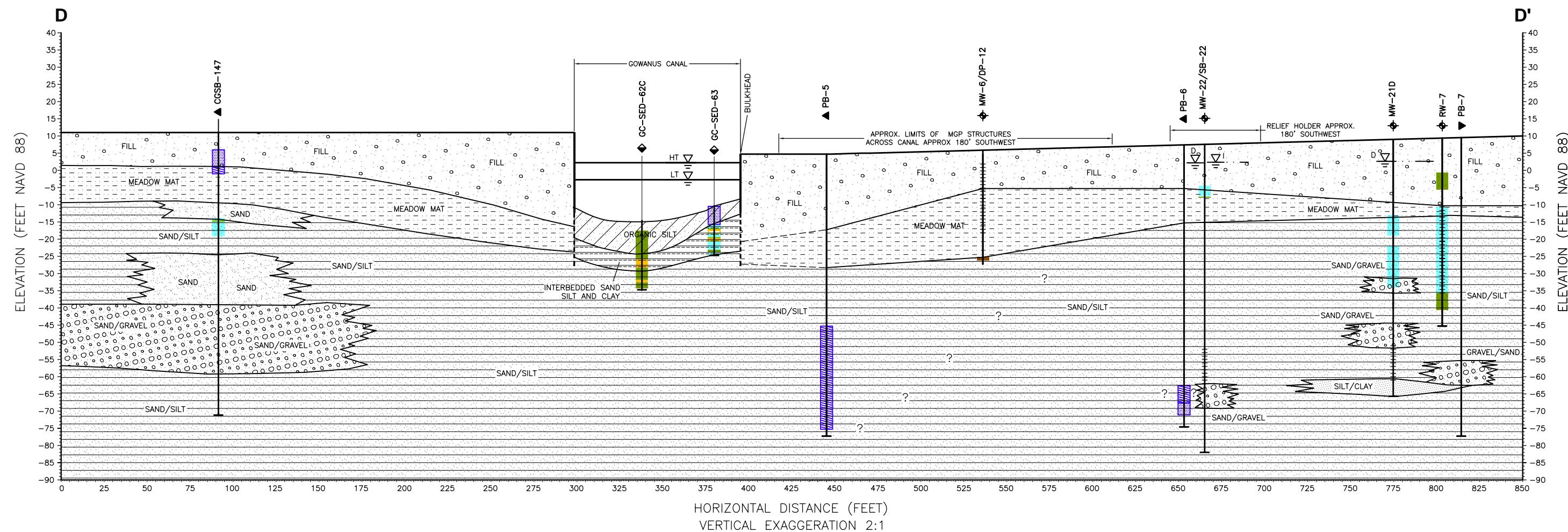


LEGEND

TAR SATURATED	TAR/NAPHTHALENE-LIKE ODORS	FILL	ORGANIC SILT	CANAL SURFACE WATER ELEVATION
LENSES WITH TAR SATURATION AND TAR/NAPHTHALENE ODORS	SHEEN/STAINING PETROLEUM ODORS	MEADOW MAT	SAND	GROUNDWATER TABLE ELEVATION (3-14-12)
BLEBS, GLOBS, LENSES, COATINGS AND TAR/NAPHTHALENE ODORS	PETROLEUM ODORS	SAND/GRAVEL	INTERBEDDED SAND, SILT AND CLAY	AVERAGE HIGH TIDE (HT)
TAR STAINING, SHEEN AND TAR/NAPHTHALENE ODORS		SAND/SILT		AVERAGE LOW TIDE (LT)

NOTES:

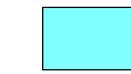
1. THIS FIGURE PROVIDES A COMPREHENSIVE VISUAL SUMMARY OF THE VISIBLE IMPACTS OBSERVED IN THE SITE SUBSURFACE BY AECOM DURING THE REMEDIAL INVESTIGATION AND BY OTHERS PERFORMING GEOTECHNICAL AND ENVIRONMENTAL INVESTIGATIONS WITHIN AND OUTSIDE OF THE SITE BOUNDARY. THE ONLY IMPACTS OBSERVED DIRECTLY BY AECOM INCLUDE THE BORINGS ADVANCED DURING THE RI. LOGS FOR ALL THE BORINGS PRESENTED ON THIS FIGURE ARE INCLUDED IN APPENDIX C OF THE RI REPORT.
2. GOWANUS CANAL DETAIL WAS APPROXIMATED BASED ON CROSS SECTIONS U-U' AND V-V' PRESENTED IN THE APRIL 2007 GEI REMEDIAL INVESTIGATION TECHNICAL REPORT, GOWANUS CANAL, BROOKLYN, NY. CROSS SECTIONS U-U' AND V-V' ARE INCLUDED IN APPENDIX C OF THE RI REPORT.
3. ELEVATIONS IN FEET NAVD 88.



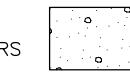
LEGEND



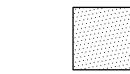
TAR SATURATE



TAR/
NAPHTHALENE-LIKE ODC



1



SILT/

HT AVERAGE HIGH TIDE

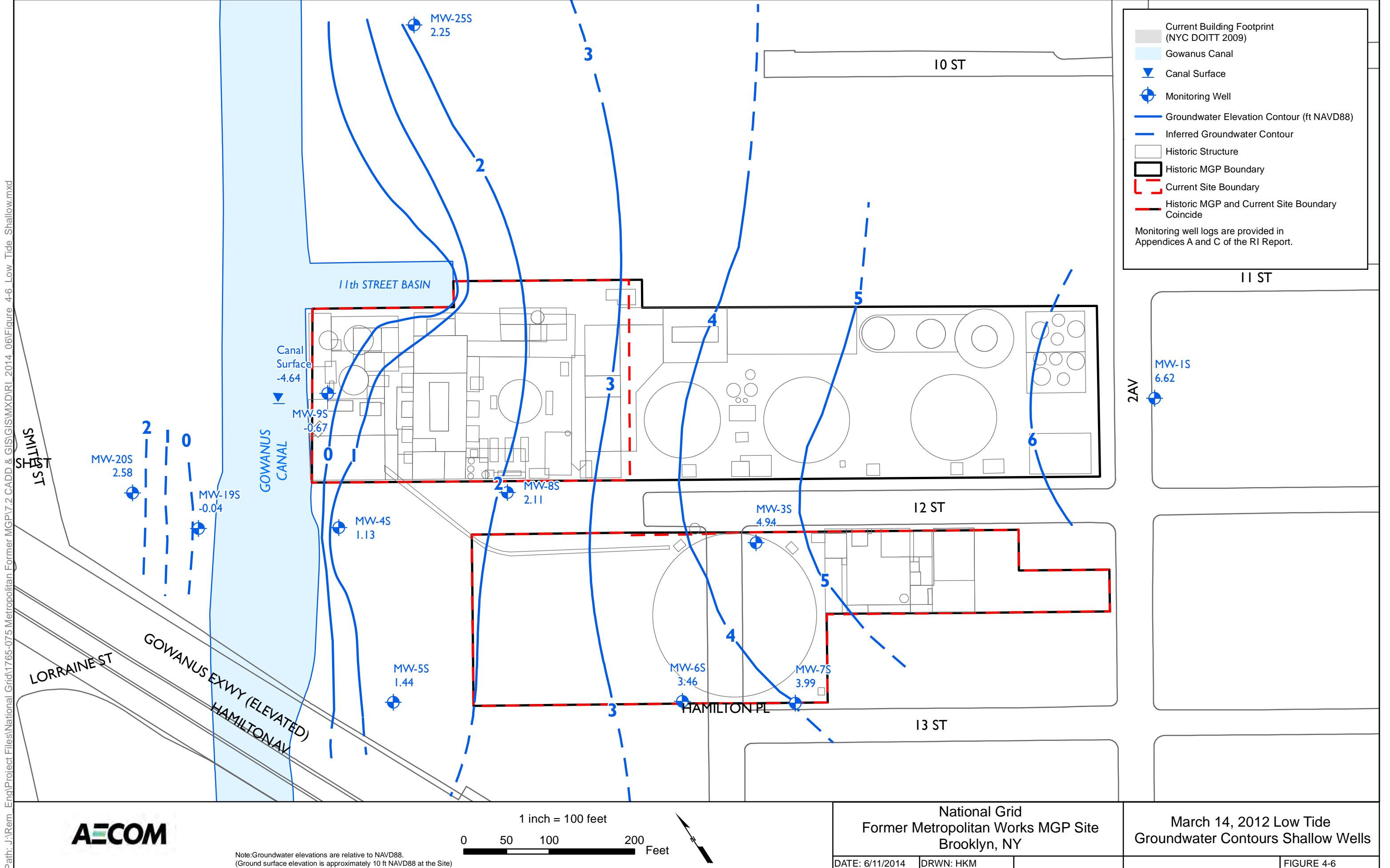
LT AVERAGE LOW TIDE

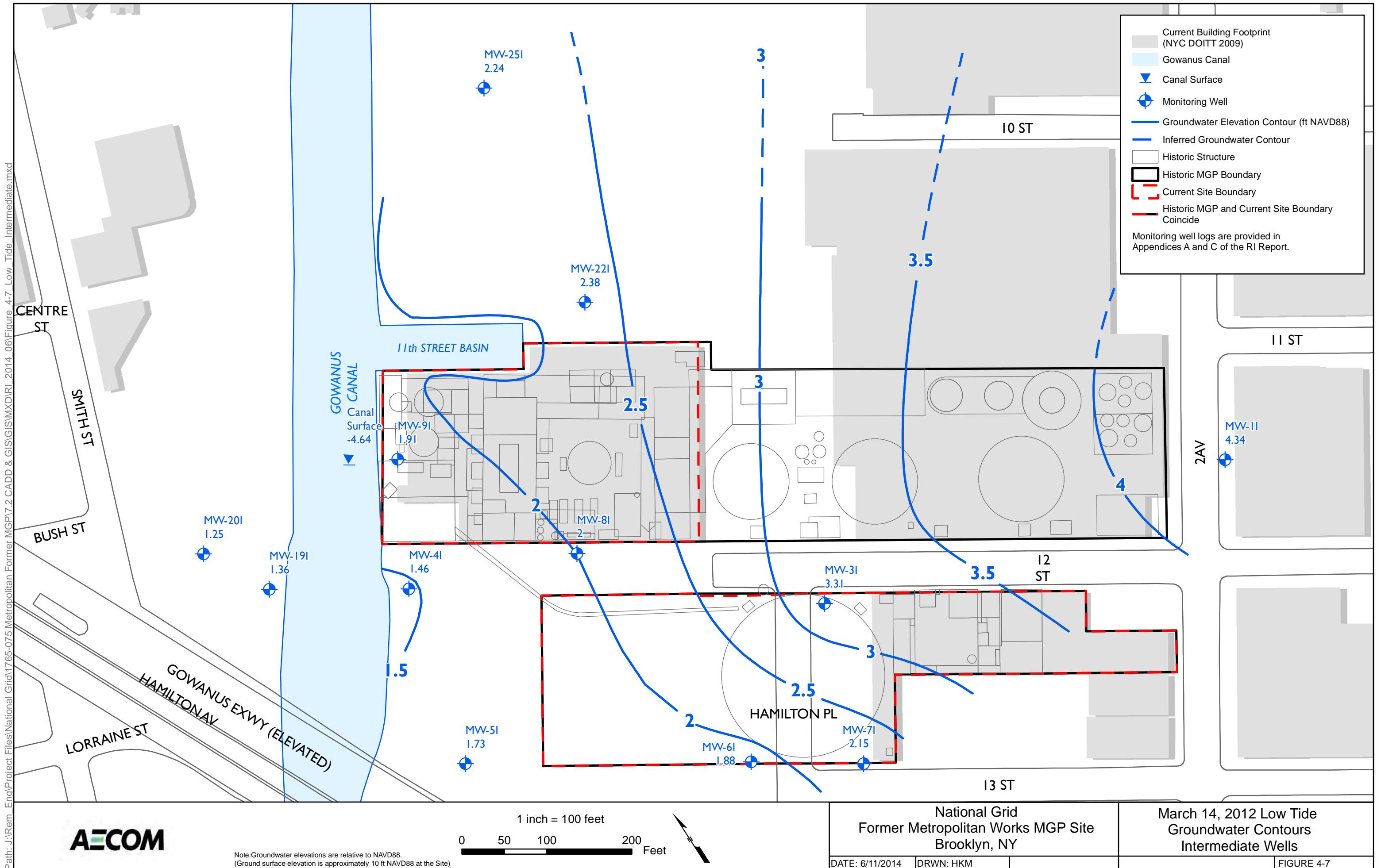
GROUNDWATER TABLE

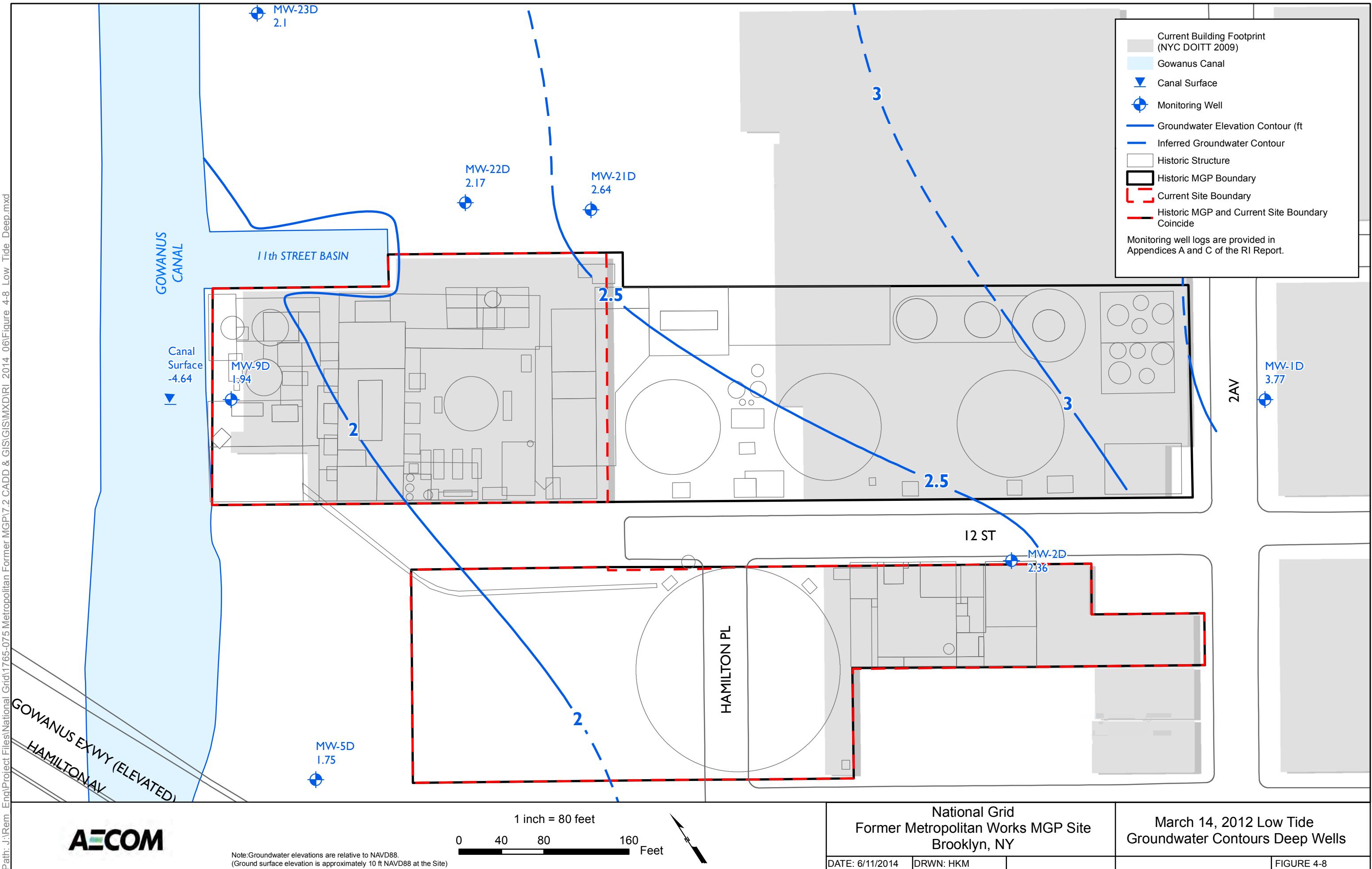
 ORGANIC SILT  I, D ELEVATION (3-14-12)
 PIEZOMETRIC SURFACE
MEASURED IN INTERMEDIATE
AND DEEP WELLS

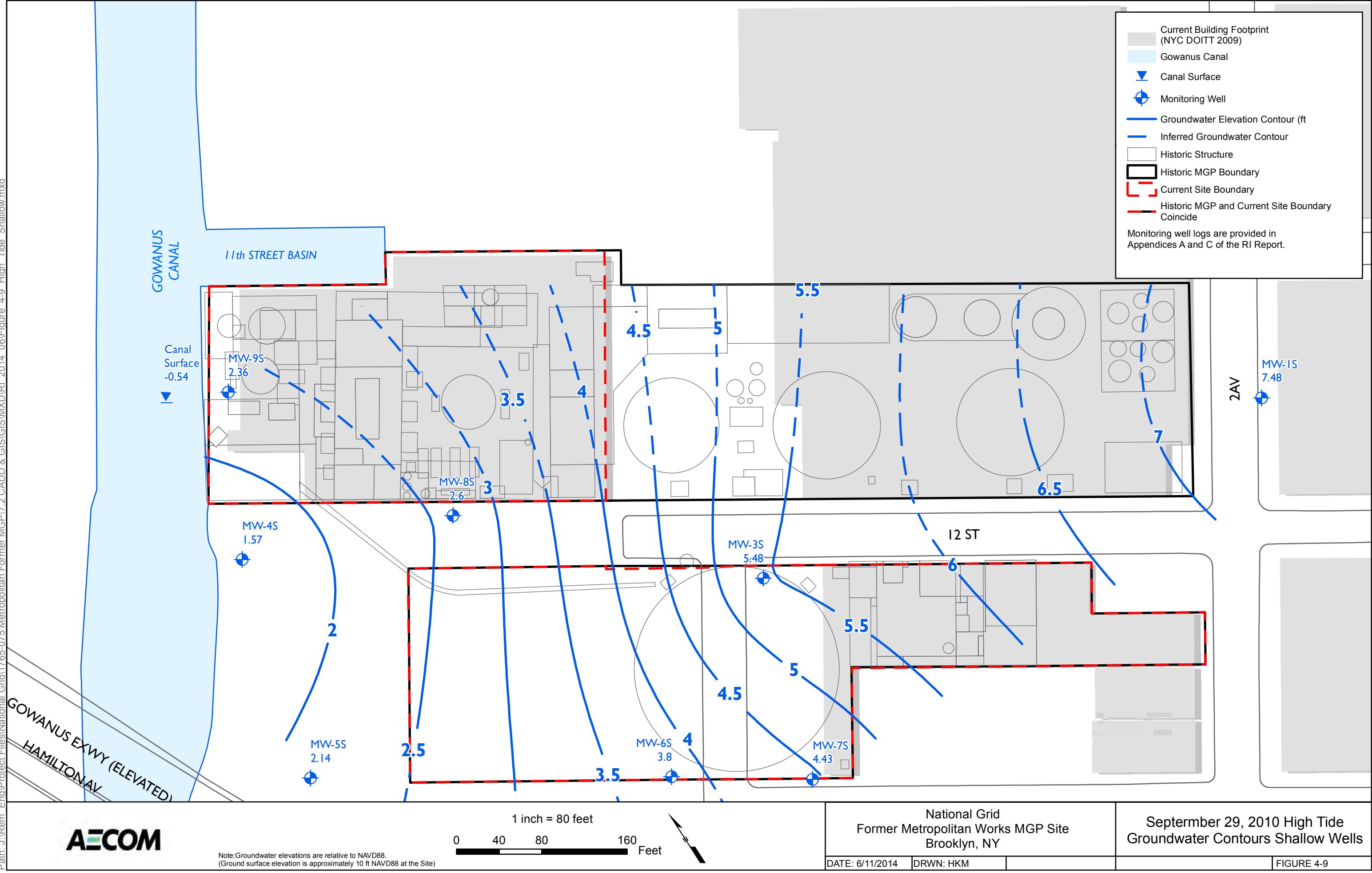
NOTES:

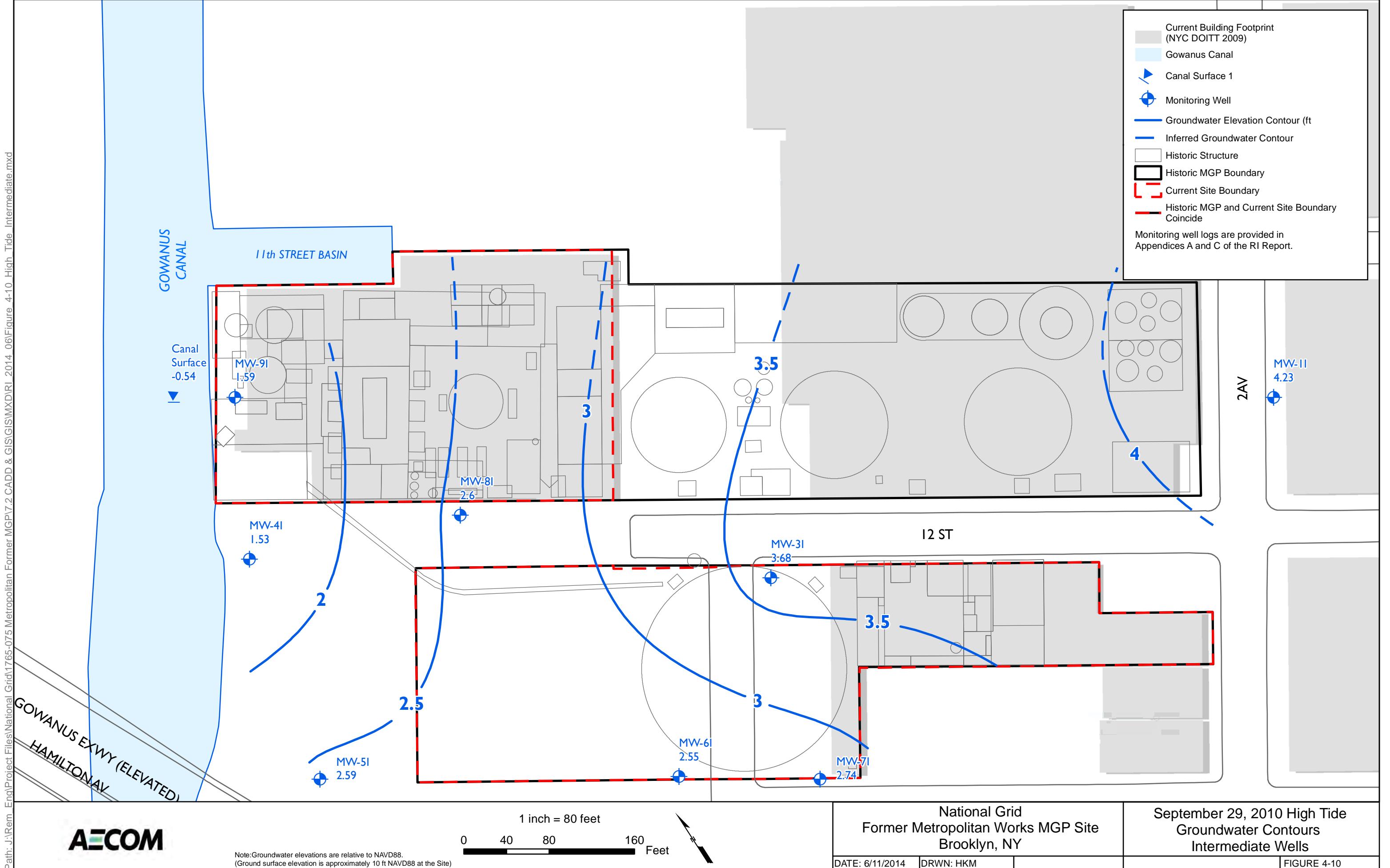
1. THIS FIGURE PROVIDES A COMPREHENSIVE VISUAL SUMMARY OF THE VISIBLE IMPACTS OBSERVED IN THE SITE SUBSURFACE BY AECOM DURING THE REMIDIAL INVESTIGATION AND BY OTHERS PERFORMING GEOTECHNICAL AND ENVIRONMENTAL INVESTIGATIONS WITHIN AND OUTSIDE OF THE SITE BOUNDARY. THE ONLY IMPACTS OBSERVED DIRECTLY BY AECOM INCLUDE THE BORINGS ADVANCED DURING THE RI. LOGS FOR ALL THE BORINGS PRESENTED ON THIS FIGURE ARE INCLUDED IN APPENDIX C OF THE RI REPORT.
 2. SEDIMENT BORINGS AND GOWANUS CANAL DETAIL WERE INCLUDED BASED ON CROSS SECTION U-U' PRESENTED IN THE APRIL 2007 GEI REMEDIAL INVESTIGATION TECHNICAL REPORT, GOWANUS CANAL, BROOKLYN, NY. CROSS SECTION U-U' IS INCLUDED IN APPENDIX C OF THE RI REPORT.
 3. ELEVATIONS IN FEET NAVD 88.











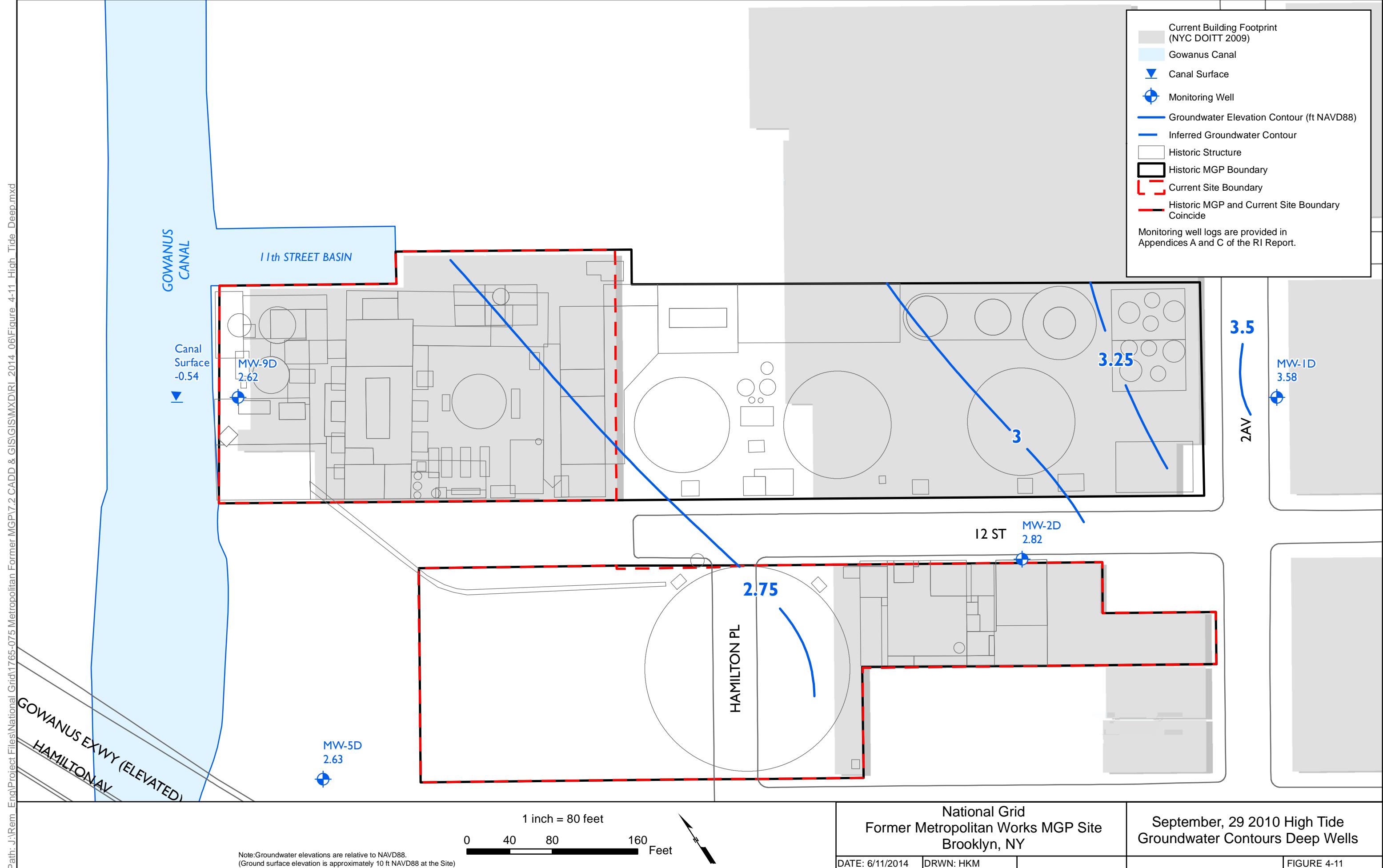


Figure 4-12
October 8 and 9, 2010 Groundwater Elevation Tidal Cycle Monitoring Results Shallow Wells

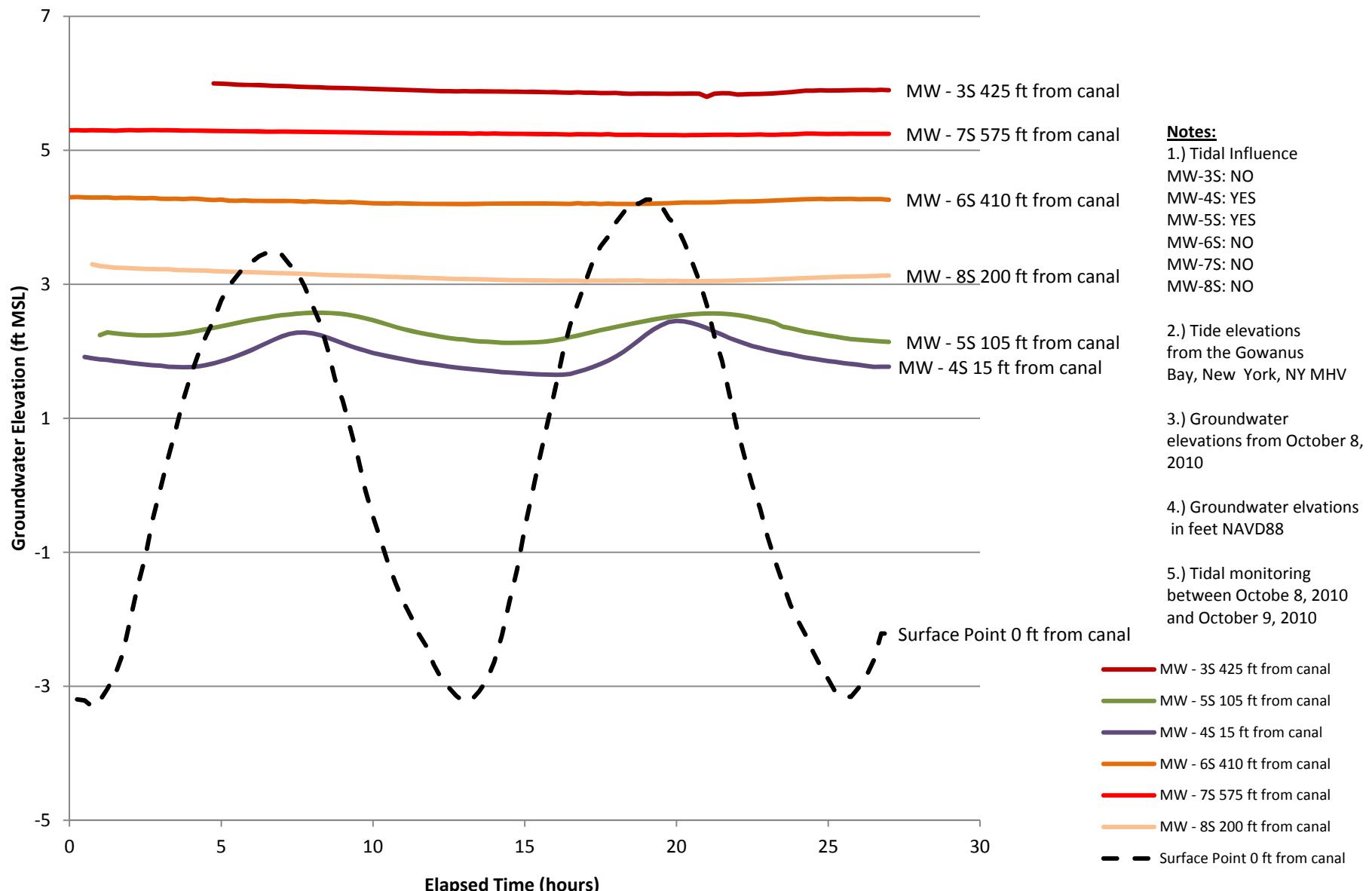


Figure 4-13
October 8 and 9, 2010 Groundwater Elevation Tidal Cycle Monitoring Results Intermediate Wells

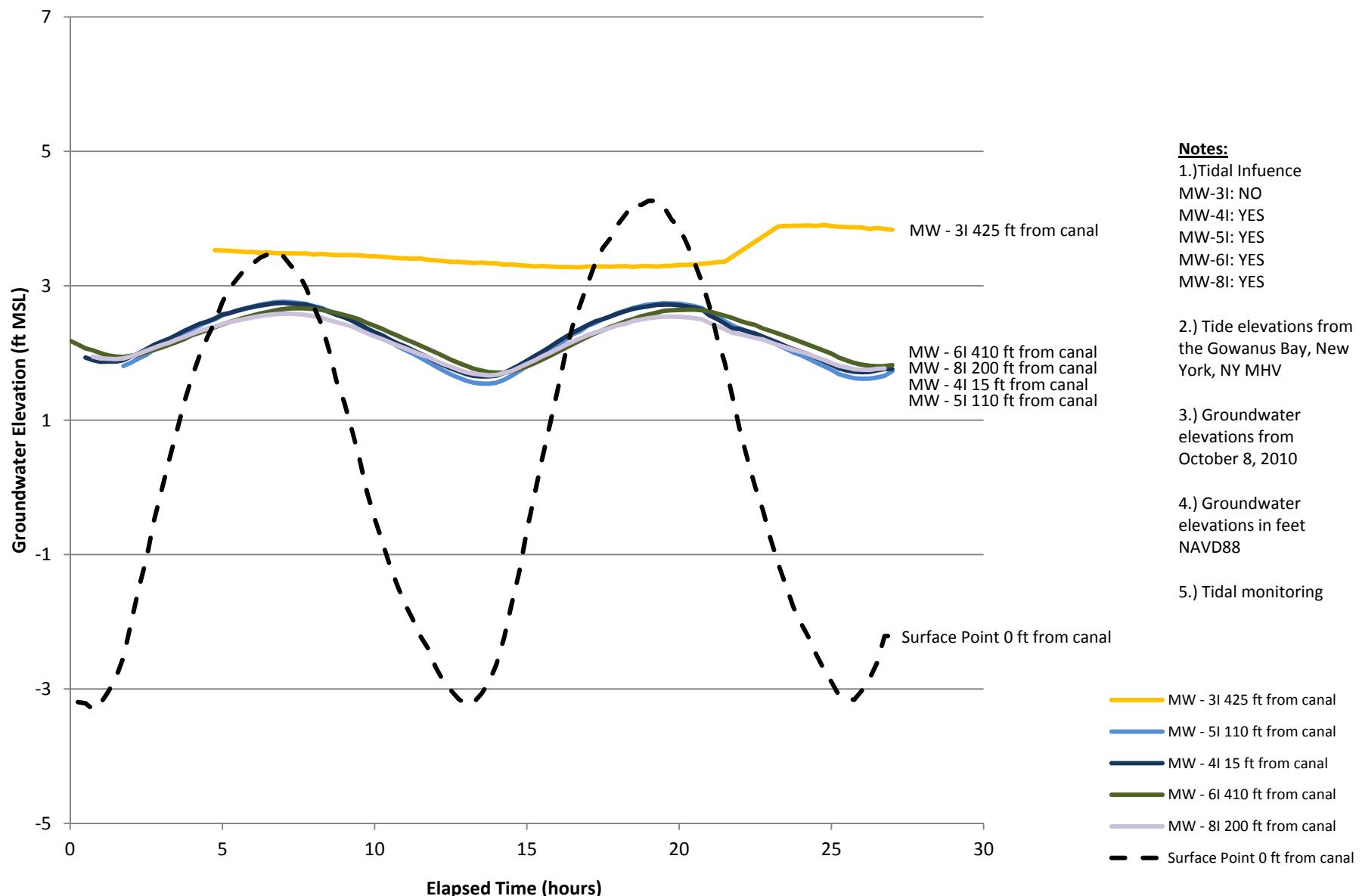
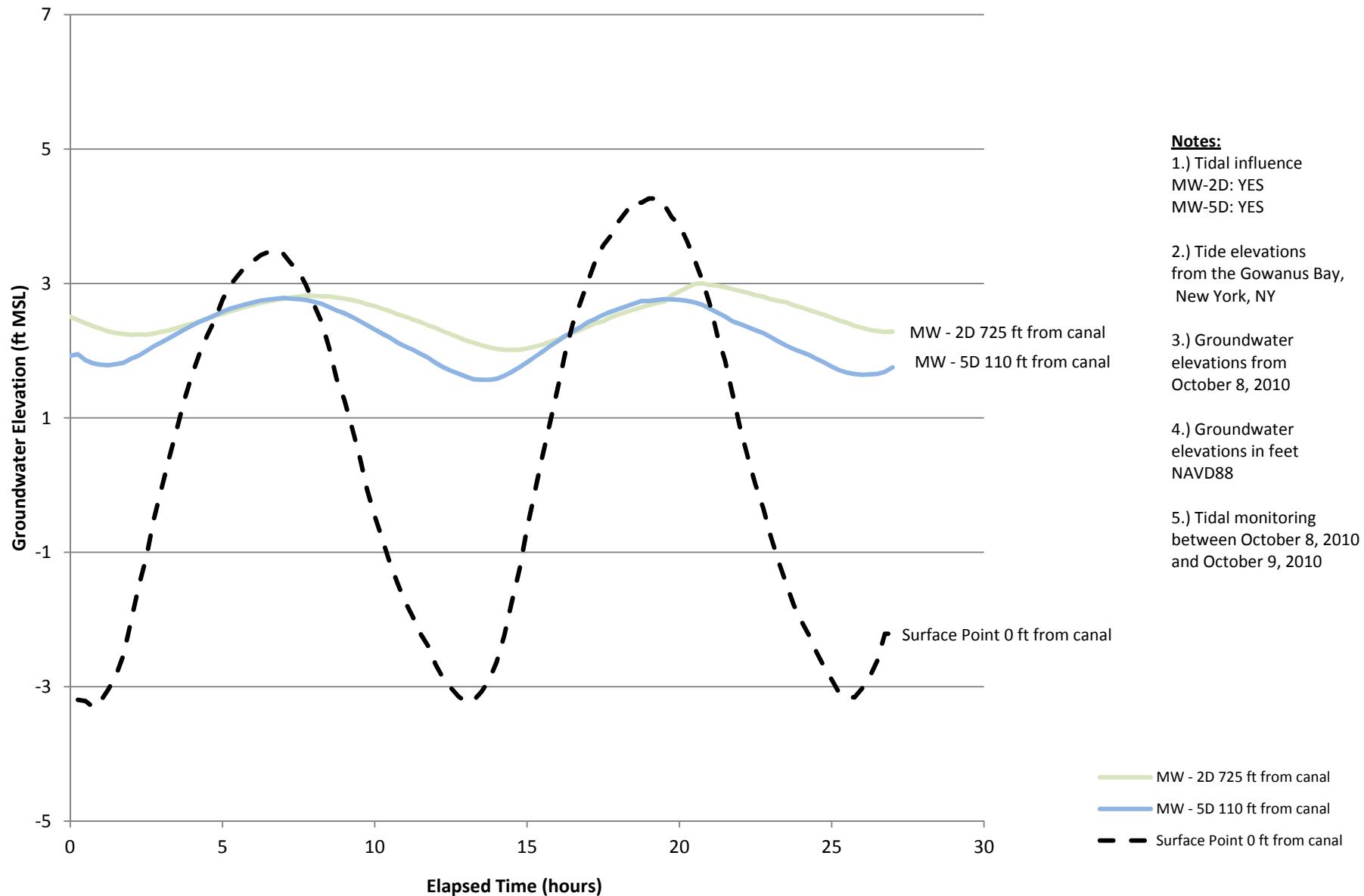
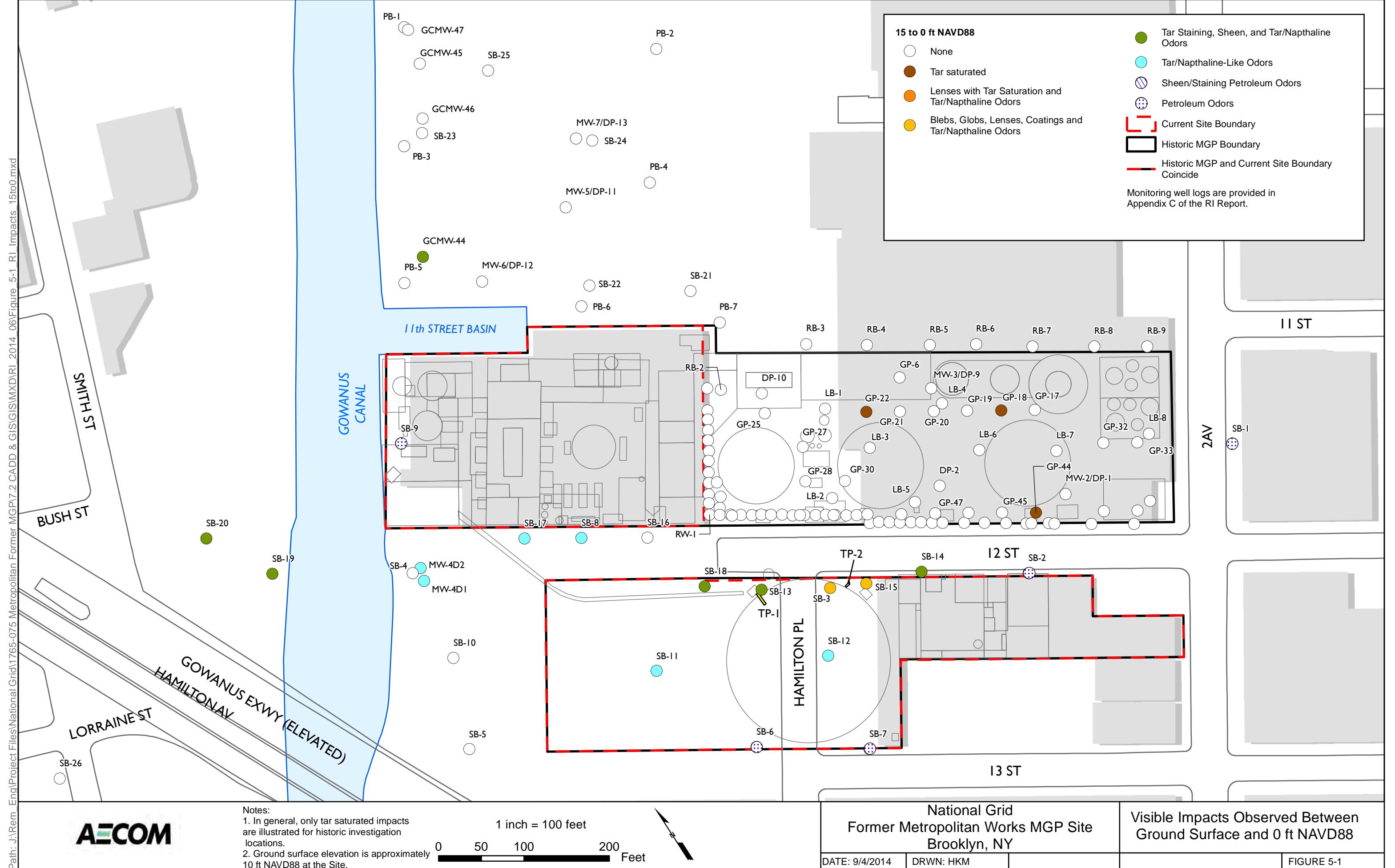
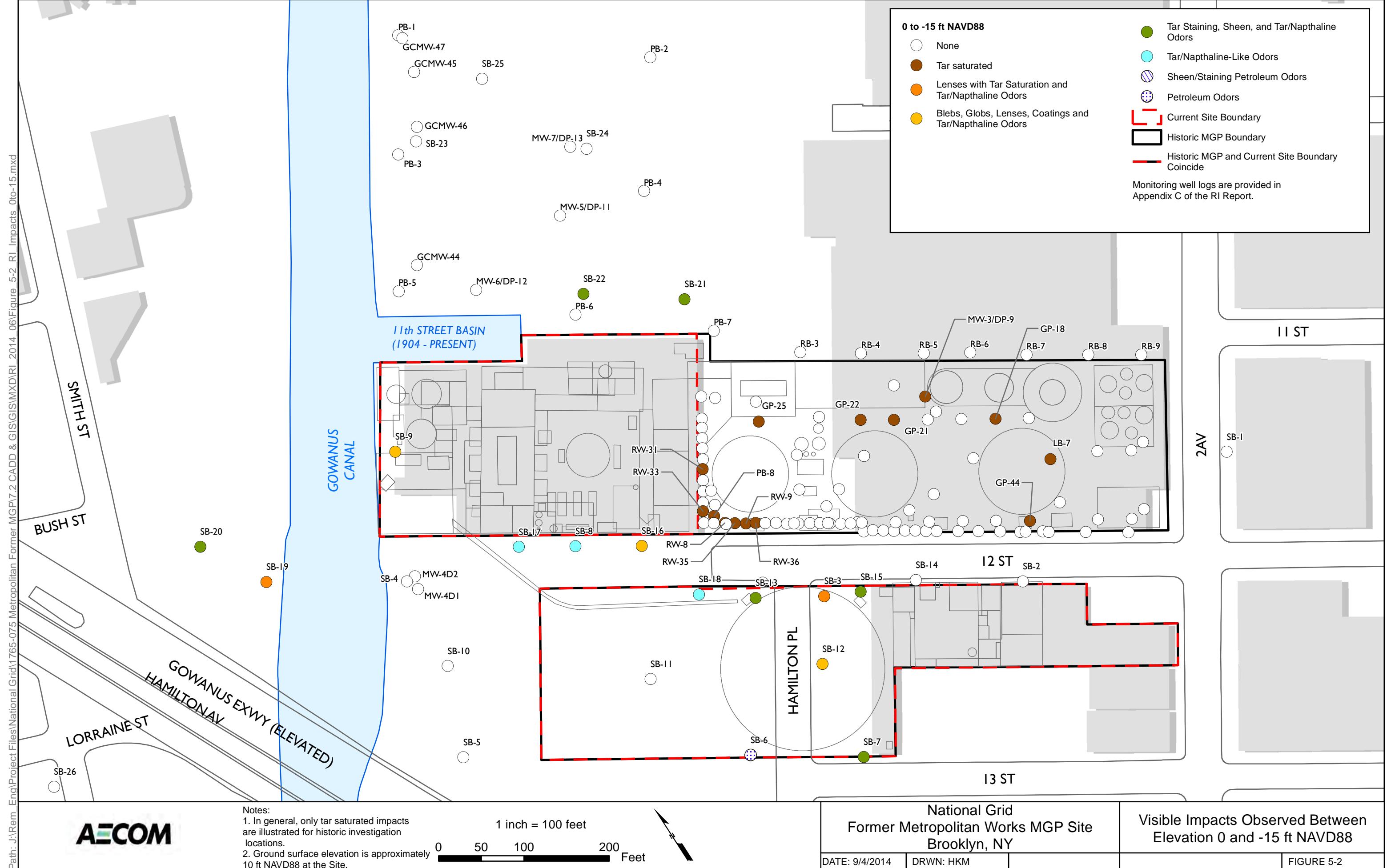
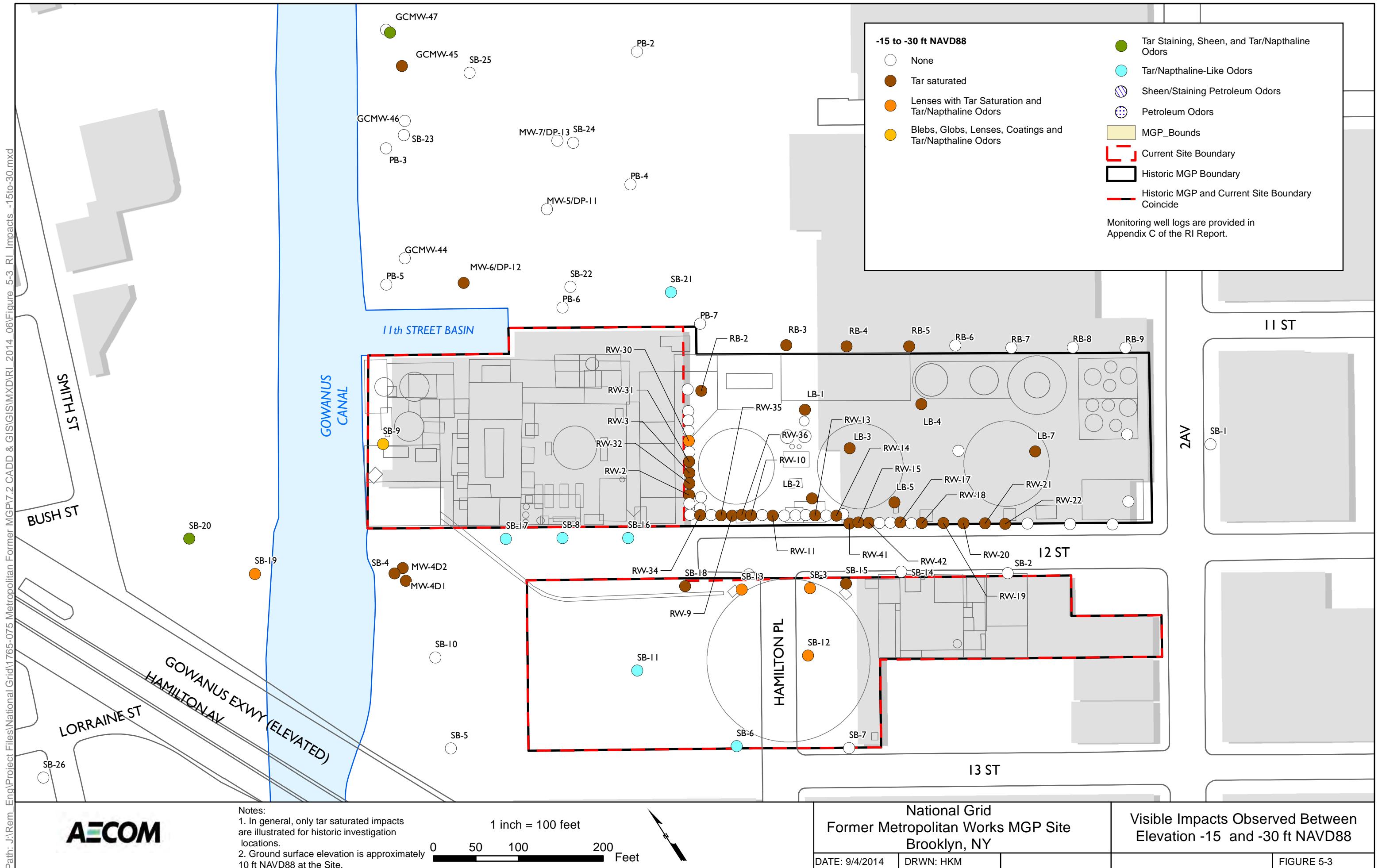


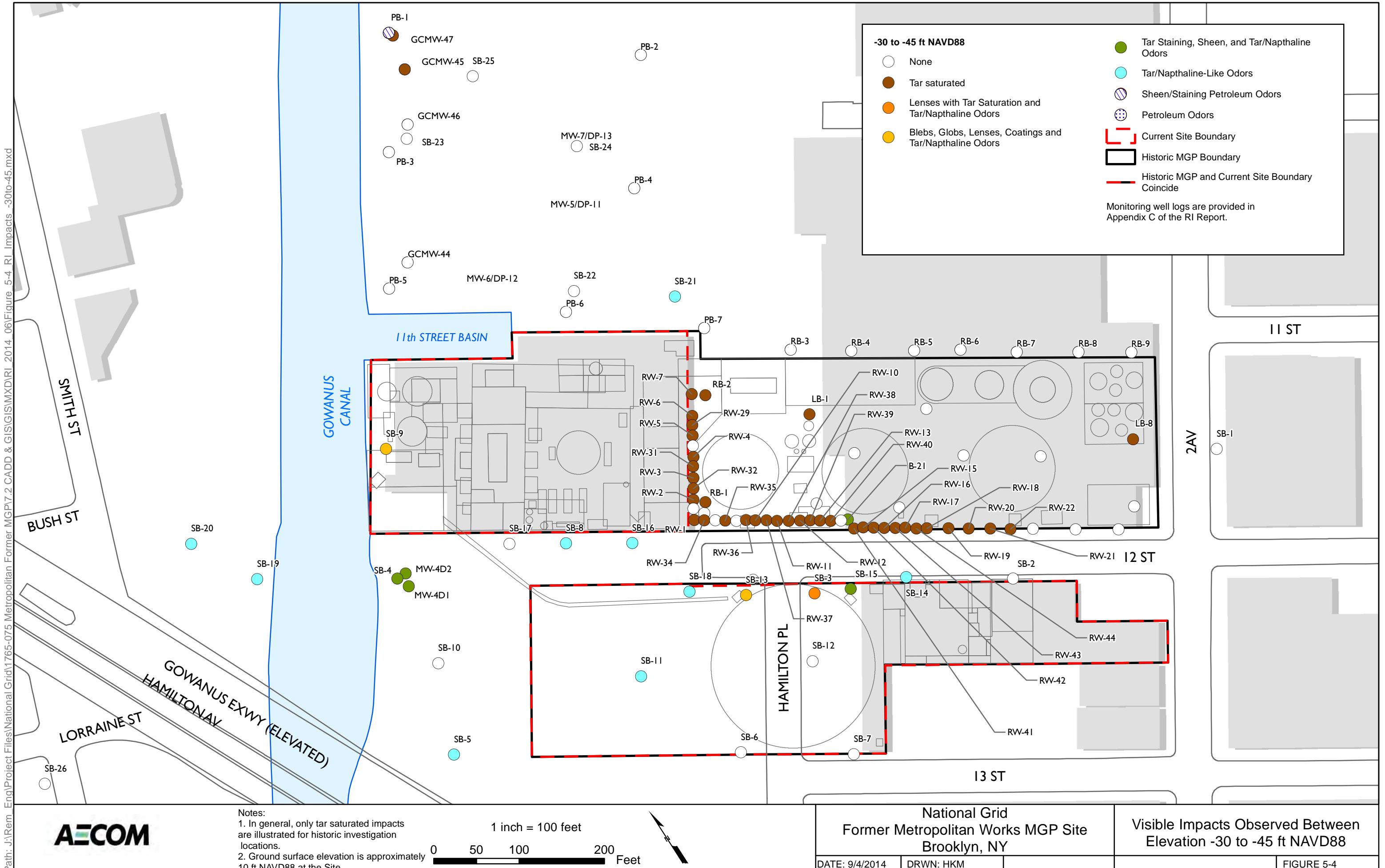
Figure 4-14
October 8 and 9, 2010 Groundwater Elevation Tidal Cycle Monitoring Results Deep Wells

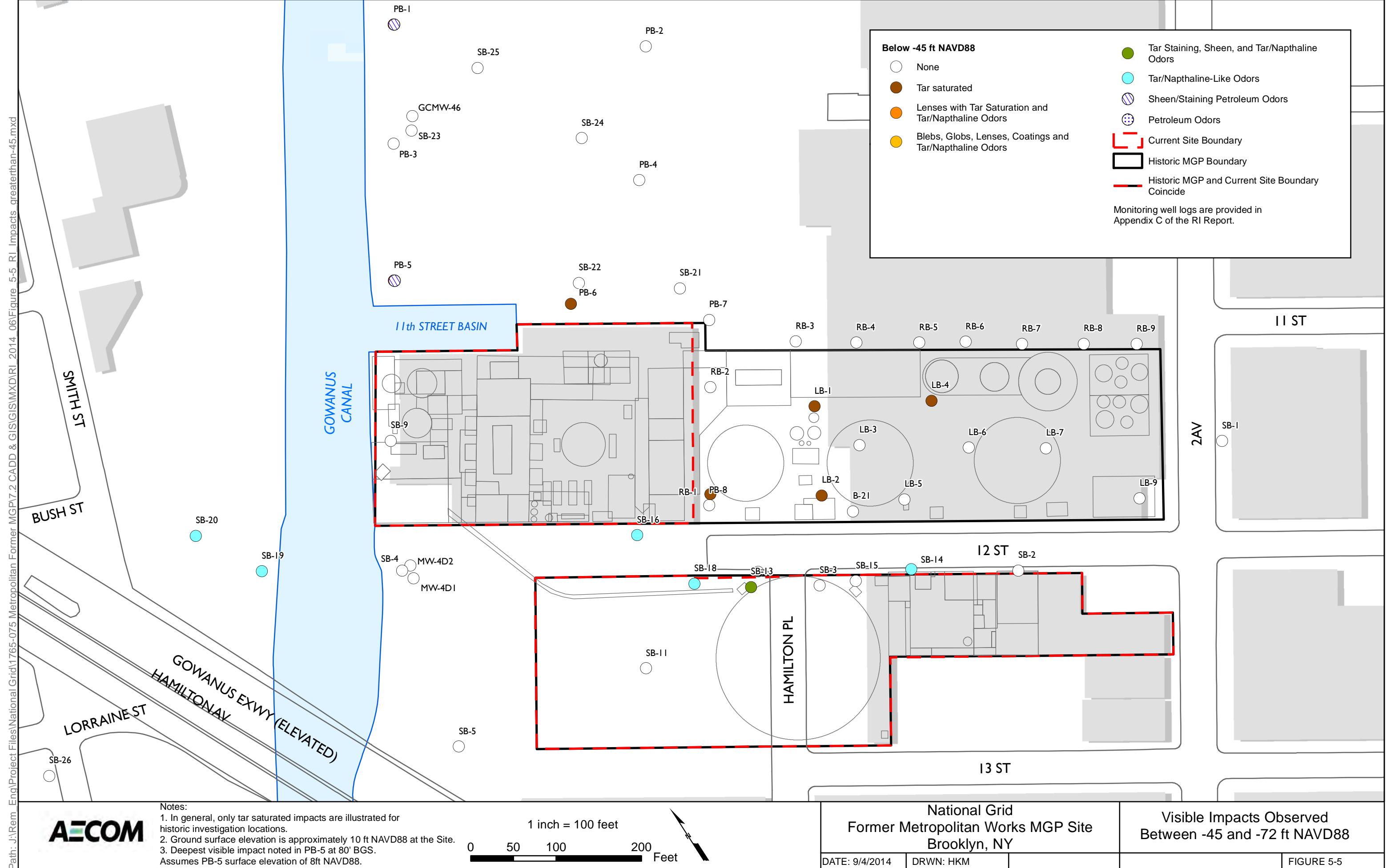








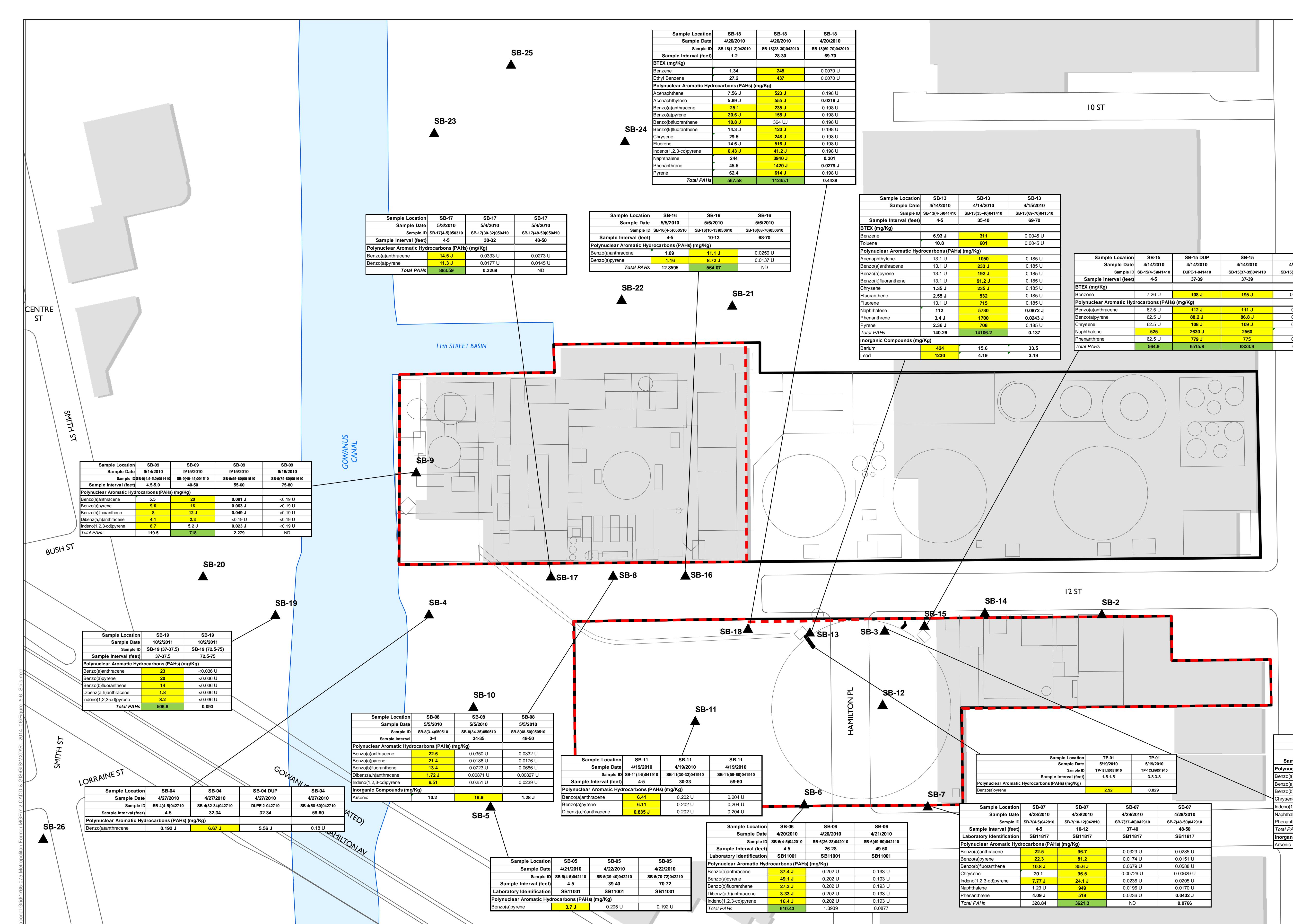




Current Building Footprint (NYC DOITT 2009)
 Gowanus Canal
 Historic Structure
 Historic MGP Boundary
 Current Site Boundary
 Soil Boring
 Historic MGP and Current Site Boundary Coincide
 Notes:
 mg/Kg - milligrams per kilogram
 ND = Not Detected
 J = The associated numerical value is an estimated quantity.
 U = The material was analyzed for but not detected at, or above, the reporting limit. The associated numerical value is the sample quantitation limit.
 Bold indicates compound detected at a concentration greater than the reporting limit.
 Yellow highlight indicates above the NYSDEC Part 375-6.8(b) Restricted Use Soil Cleanup Objective Commercial
 Green highlight indicates above the NYSDEC CP-51 Alternate Criteria of 500 mg/Kg for Total PAHs.
 Monitoring well logs are provided in Appendices A and C of the RI Report.

SAMPLE	NYSDEC Part 375-6 Commercial
BTEX (mg/Kg)	
Benzene	44
Toluene	500
Ethyl Benzene	390
Polymer Aromatic Hydrocarbons (PAHs) (mg/Kg)	
Acenaphthene	500
Acenaphthylene	50
Benz(a)anthracene	5.6
Benz(a)pyrene	1
Benz(b)fluoranthene	5.6
Benz(k)fluoranthene	56
Chrysene	56
Dibenz(a,h)anthracene	0.56
Fluoranthene	500
Indeno(1,2,3-cd)pyrene	5.6
Naphthalene	500
Phenanthrene	500
Pyrene	500
Total PAHs	500 ^a
Inorganic Compounds (mg/Kg)	
Arsenic	16
Barium	400
Lead	1000

Sample Location	SB-03	SB-03	SB-03
Sample Date	4/1/2010	4/1/2010	4/1/2010
Sample ID	SB-3(4-5)041310	SB-3(30-35)041310	SB-3(59-60)041310
Polymer Aromatic Hydrocarbons (PAHs) (mg/Kg)			
Benz(a)anthracene			
Benz(a)anthracene	0.733 J	100 J	0.26 U
Benz(a)pyrene	0.661 J	74.1 J	0.26 U
Benz(b)fluoranthene	2.95 U	38.3 J	0.26 U
Chrysene	0.762 J	97.5 J	0.26 U
Indeno(1,2,3-cd)pyrene	0.381 J	22.3 J	0.26 U
Naphthalene	30.1	1720	0.0951 J
Phenanthrene	2.18 J	690	0.26 U
Total PAHs	47.755	5142.8	0.1224
Inorganic Compounds (mg/Kg)			
Arsenic	1.62 J	2.82 J	66.8



1 inch = 50 feet
0 25 50 100 Feet

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Brooklyn, NY

DATE: 7/21/2014 DRWN: HKM

Analytical Detections Summary
Subsurface Soil Samples

FIGURE 5-6

