

December 19, 2016

Mr. Henry Willems  
New York State Department of Environmental Conservation  
MGP Remedial Section, Division of Environmental Remediation  
Bureau of Western Remedial Action, 11<sup>th</sup> Floor  
625 Broadway  
Albany, New York 12233-7017

Re: Additional Investigation Work Plan  
Phase 2/3 Remedial Investigation  
Greenpoint Energy Center Former Manufactured Gas Plant  
287 Maspeth Avenue, Brooklyn, New York  
Site No. 224052

Dear Mr. Willems:

The Greenpoint Energy Center Remedial Investigation is being implemented following the New York State Department of Environmental Conservation (NYSDEC)-approved Phase 2/3 Remedial Investigation Work Plan (RIWP) for the Greenpoint Energy Center Former Manufactured Gas Plant (MGP) site (Site), dated October 31, 2013. Phase 2 of the RI program has been completed. GEI Consultants, Inc., P.C. (GEI) is currently conducting Phase 3 of the investigation.

As part of National Grid's ongoing effort to increase our understanding of geologic and hydrogeologic conditions at, and in the immediate vicinity of the Site, additional investigation is proposed. The proposed additional investigation includes:

- The installation of 17 additional monitoring wells,
- Gauging of new and existing wells,
- Sampling of the newly installed wells on-Site,
- Slug testing at select monitoring wells.

The investigation locations are shown on **Figures 1** and **2**, for the on-Site and off-Site areas, respectively. The proposed monitoring well locations and construction details are provided in **Table 1**.

The on-Site wells will be installed using rotary sonic techniques and the soil will be logged during casing advancement. Several shallow monitoring wells (total of six) will be installed within the Maspeth Avenue Right-of-Way in an effort to determine the influence of the 60-inch sewer main on groundwater flow in the area. The wells within Maspeth Avenue will be installed using Geoprobe<sup>®</sup> direct-push methods. The soil will be logged at the two deeper boring locations (GPEC-SIS102I and GPEC-SIS104I).

Mr. Henry Willems  
New York State Department of Environmental Conservation  
December 19, 2016  
Page 2

The on-Site monitoring well installations, as well as the development and sampling of the wells will be done in accordance with the RIWP. Investigative-derived waste (IDW) management and the implementation of a community air monitoring program (CAMP) will also be conducted in accordance with the RIWP.

One-inch monitoring wells are planned for installation for the sewer infiltration study on Maspeth Avenue. The wells will be installed using direct-push technology and 3.25-inch casing. The shallow wells will be completed with a sand pack to approximately 1 foot above top-of-screen and the deeper wells will have the sand pack installed to 2 feet above the top of the screen followed by 2 feet of wetted bentonite pellets, and tremie-grout to the surface.

A monitoring well gauging event is planned at new and existing accessible wells on and near the Site. In addition to on-Site wells, the gauging event would ideally include wells at the Equity former MGP site and the BCF Oil site, if access can be obtained. Gauging will be performed across the tidal cycle.

Slug testing will be performed utilizing similar methods to those utilized during the December 2015 slug testing event. The methods utilized and testing results were summarized in the Slug Test Summary Letter submitted to NYSDEC on April 12, 2016.

### **Schedule**

The field program will be scheduled upon approval of the work plan and will be based on subcontractor availability. We will provide notification of the start of the field program a minimum of one week prior to mobilization.

If you have any questions or require additional information, please feel free to contact me at 516-545-2586 or by e-mail at [william.ryan@nationalgrid.com](mailto:william.ryan@nationalgrid.com).

Sincerely,



William J. Ryan  
Project Manager

Enclosures

cc: D. Hetrick (NYSDOH)  
G. Cross (NYSDEC)

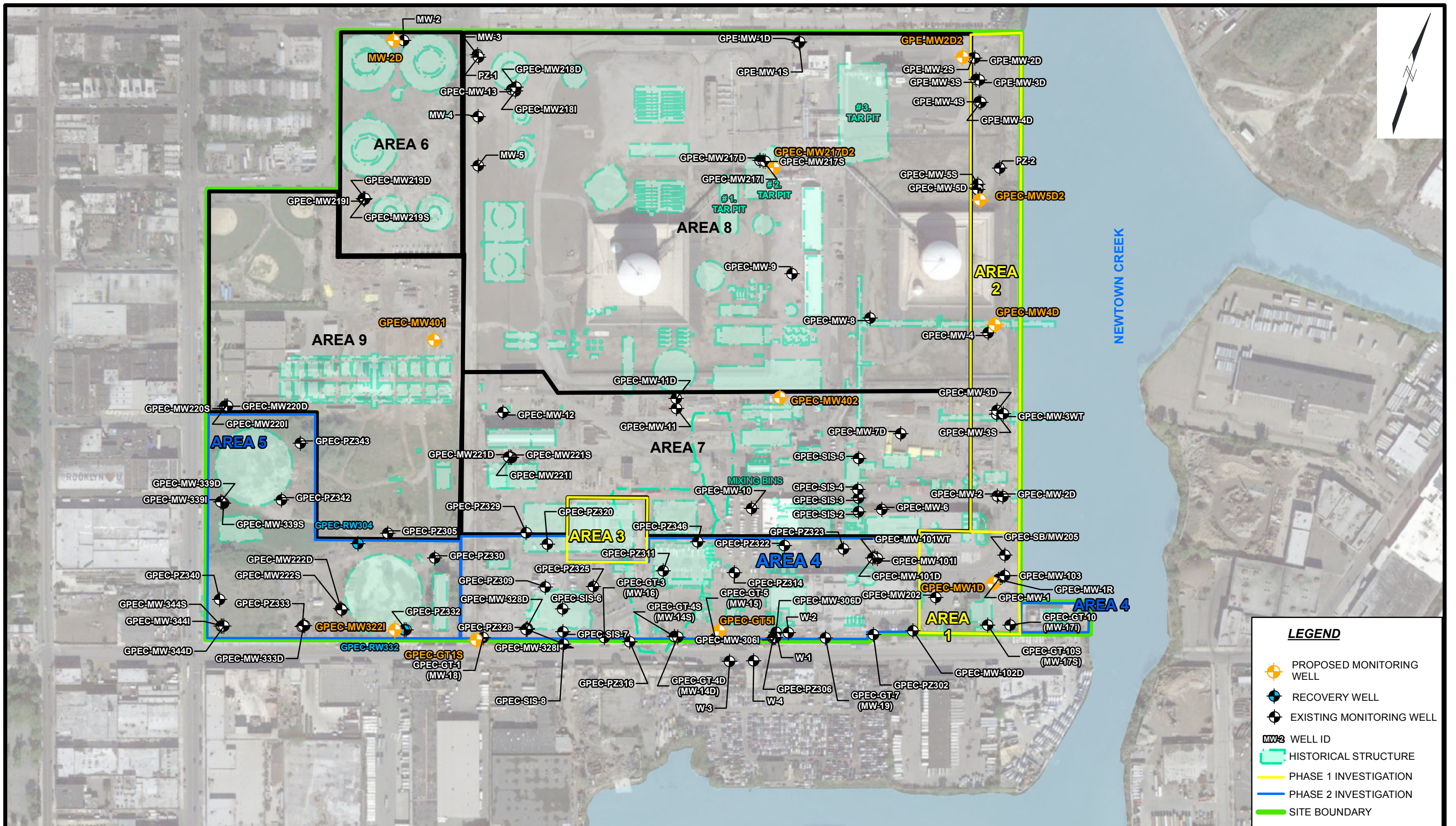
\\mcl1v-fs01\Data2\Tech\Projects\National Grid\Greenpoint\INVESTIGATIONS\Add'l Inv\Work plan\Greenpoint\_Ph 2-3 Add'l Inv. Plan.docx

**Table 1 - Proposed Monitoring Wells  
 Additional Investigation Work Plan  
 Phase 2/3 Remedial Investigation  
 Greenpoint Energy Center  
 Brooklyn, New York**

<b>WELL CATEGORY/ ID</b>	<b>LOCATION</b>	<b>ZONE (DEPTH, FT)*</b>
<b>On-Site</b>		
GPEC-MW4D	AREA 2	DEEP (100)
GPEC-MW1D	AREA 1	DEEP (60-70)
GPEC-GT01S	AREA 4	SHALLOW (5-15)
GPEC-GT5I	AREA 4	INT (30-40)
GPEC-MW332I	AREA 5	INT (35-45)
GPEC-MW5D2	AREA 2	DEEP (200)
GPEC-MW217D2	AREA 8	DEEP (200)
GPEC-MW2D2	AREA 8	DEEP (200)
GPEC-MW401	AREA 9	DEEP (100)
GPEC-MW402	AREA 7	DEEP (100)
<b>Off-Site</b>		
GPEC-SIS101S	MASPETH AVENUE	SHALLOW (2-6)
GPEC-SIS102S	MASPETH AVENUE	SHALLOW (2-6)
GPEC-SIS102I	MASPETH AVENUE	SHALLOW (9-14)
GPEC-SIS103S	MASPETH AVENUE	SHALLOW (2-6)
GPEC-SIS104S	MASPETH AVENUE	SHALLOW (2-6)
GPEC-SIS104I	MASPETH AVENUE	SHALLOW (9-14)

Notes:

\*: Deep wells assigned a 200-foot depth are intended to be installed at or near the bottom of the Upper Glacial Aquifer. Depth to bedrock may be as deep as 200 feet.



**SOURCES:**  
 1. AERIAL PHOTOGRAPH OBTAINED FROM GOOGLE TM EARTH PRO  
 (http://www.google.com/earth/),  
 IMAGERY DATE: 6/17/2010.



Additional Investigation Work Plan  
 Greenpoint Energy Center  
 Brooklyn, New York

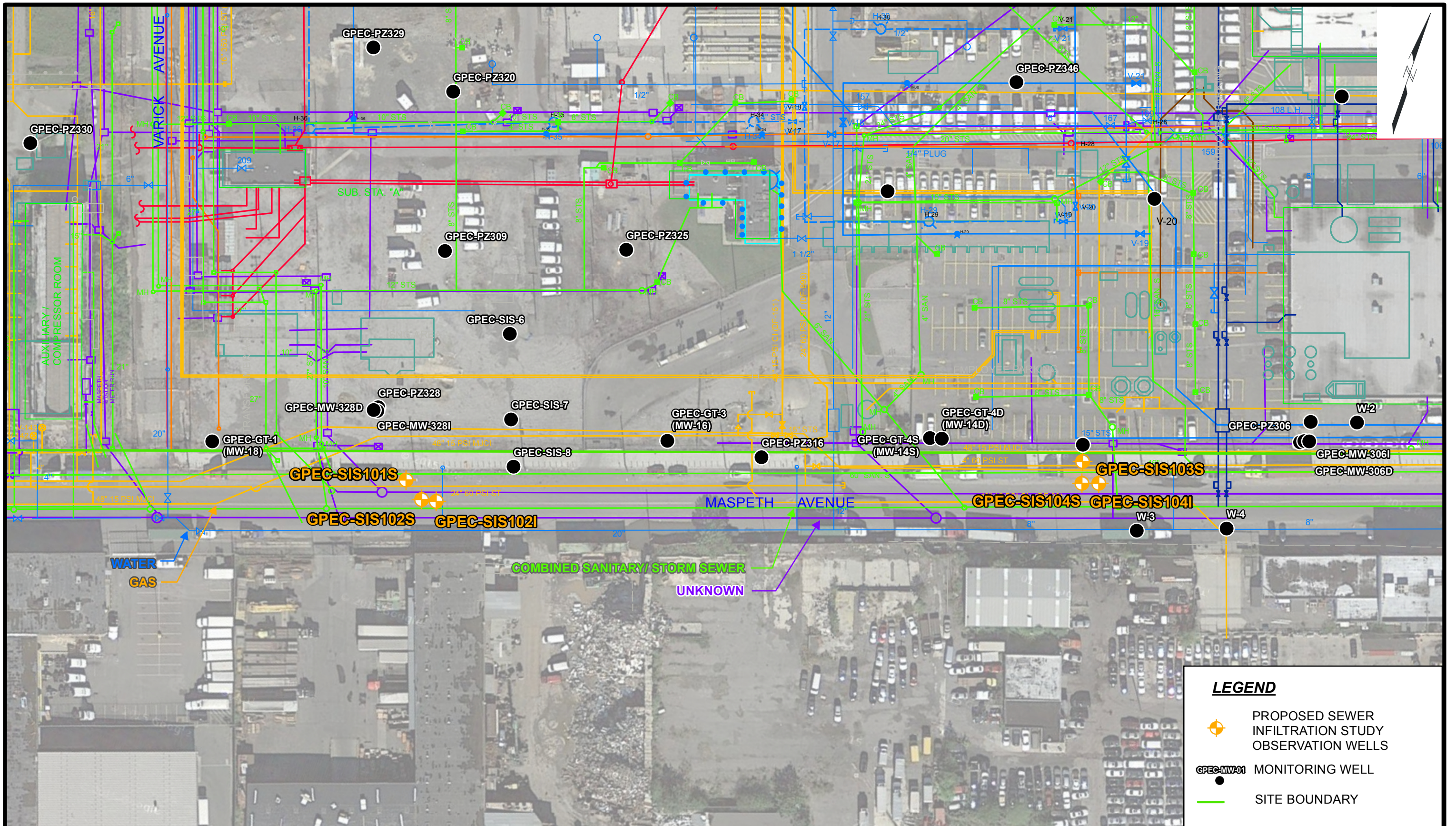


PROPOSED  
 INVESTIGATION  
 LOCATIONS

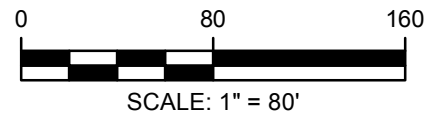
Project 125180

December 2016

Fig. 1



**SOURCES:**  
 1. AERIAL PHOTOGRAPH OBTAINED FROM GOOGLT M EARTH PRO  
 (<http://www.google.com/earth/>), IMAGERY DATE: 6/17/2010.



Additional Investigation Work Plan  
 Greenpoint Energy Center  
 Brooklyn, New York



SEWER INFILTRATION  
 STUDY WELL LOCATIONS

Project 125180

December 2016

Fig. 2