



**LAUREL ENVIRONMENTAL GEOSCIENCES, DPC**  
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June 29, 2019

**Submitted To:**

New York State Department of Environmental Conservation  
Division of Environmental Remediation  
625 Broadway  
Albany, New York 12233

**Prepared For:**

Law Offices of Theodore W. Firetog  
111 Thomas Powell Boulevard  
Farmingdale, New York 11735-2251

**Re:** Geophysical Survey and Utility Clearance  
27-09 40<sup>th</sup> Avenue, Long Island City, New York 11101  
Brownfields ID: C241241

On June 26, 2020, *Laurel Environmental Geosciences, D.P.C. ("Laurel")* performed a geophysical survey as part of the Supplemental Remedial Investigation at 27-09 40<sup>th</sup> Avenue, Long Island City, New York ("Site"). A dual frequency 300 and 800 MHz ground penetrating radar ("GPR") unit, magnetometer, and line locating unit were used as part of the geophysical survey. The entirety of the Site was investigated, and a total of three (3) geophysical anomalies were identified. An excavator was utilized to investigate each geophysical anomaly. Please refer to the attached site sketch and photo log documenting the location of the geophysical anomalies, test pits, and other utilities encountered at the Site.

**Geophysical Anomalies:**

A total of three (3) geophysical anomalies were identified during the survey. The first anomaly was encountered in the southeast corner of the Site. Test pit ("TP")-1 was dug in the center of the anomaly for further investigation. The test pit uncovered construction debris (e.g. old roofing material) buried approximately 2 feet below ground surface ("bgs"). No evidence of contamination or items of environmental concern were noted at TP-1.

The second anomaly was encountered on the eastern side of the Site, south of the former basement. TP-2 was dug in the center of the anomaly for further investigation. The test pit uncovered cast iron piping located approximately 2 feet bgs, likely associated with the public sewer connection servicing the former 27-09 40<sup>th</sup> Avenue and 39-44 28<sup>th</sup> Street buildings. Sections of the cast iron piping were determined to be rusted and cracked. Discolored white soil with a strong chemical odor was noted in proximity to the cast iron piping. The discolored soil was encountered approximately 15 feet southeast of the proposed soil boring location designated SB-102. *Laurel* did not attempt to trace or further delineate the impacted soil.

The third anomaly was located on the south side of the Site. TP-3 was dug in the center of the anomaly for further investigation. The test pit uncovered construction debris (e.g. bricks) buried approximately 2 feet bgs. No evidence of contamination or items of environmental concern were noted at TP-3.



### **Floor Drains:**

One (1) floor drain was identified at the Site. The floor drain was located within the former 27-03 40<sup>th</sup> Avenue building, towards the northern property boundary. The floor drain was traced with geophysical equipment towards the roadway, where it likely discharges into public sewer. No evidence of staining was noted in or around the floor drain.

### **Conclusions:**

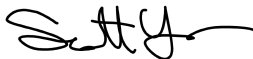
The discolored soils with strong chemical odors in TP-2 were found in proximity to the likely public sewer connection servicing the former 27-09 40<sup>th</sup> Avenue building, where on-site dry-cleaning occurred. The evidence is consistent with the spent halogenated solvents being discharged into slop sinks or toilets on-site, which then leaked into the subsurface through cracked and leaking pipes. The discolored soils are located approximately 15 feet southeast of the proposed soil boring location designated SB-102. The proposed delineation borings centered around SB-102, as previously outlined in the Supplemental Remedial Investigation Work Plan drafted by *Laurel* on June 12, 2020, should encounter this material if it is prevalent in this area. If the proposed delineation borings do not encounter impacted material, *Laurel* proposes conducting two (2) additional borings in the area of TP-2 to a depth of 30 feet to fully delineate the impacted soils.

Respectfully submitted,  
*Laurel Environmental Geosciences, D.P.C*



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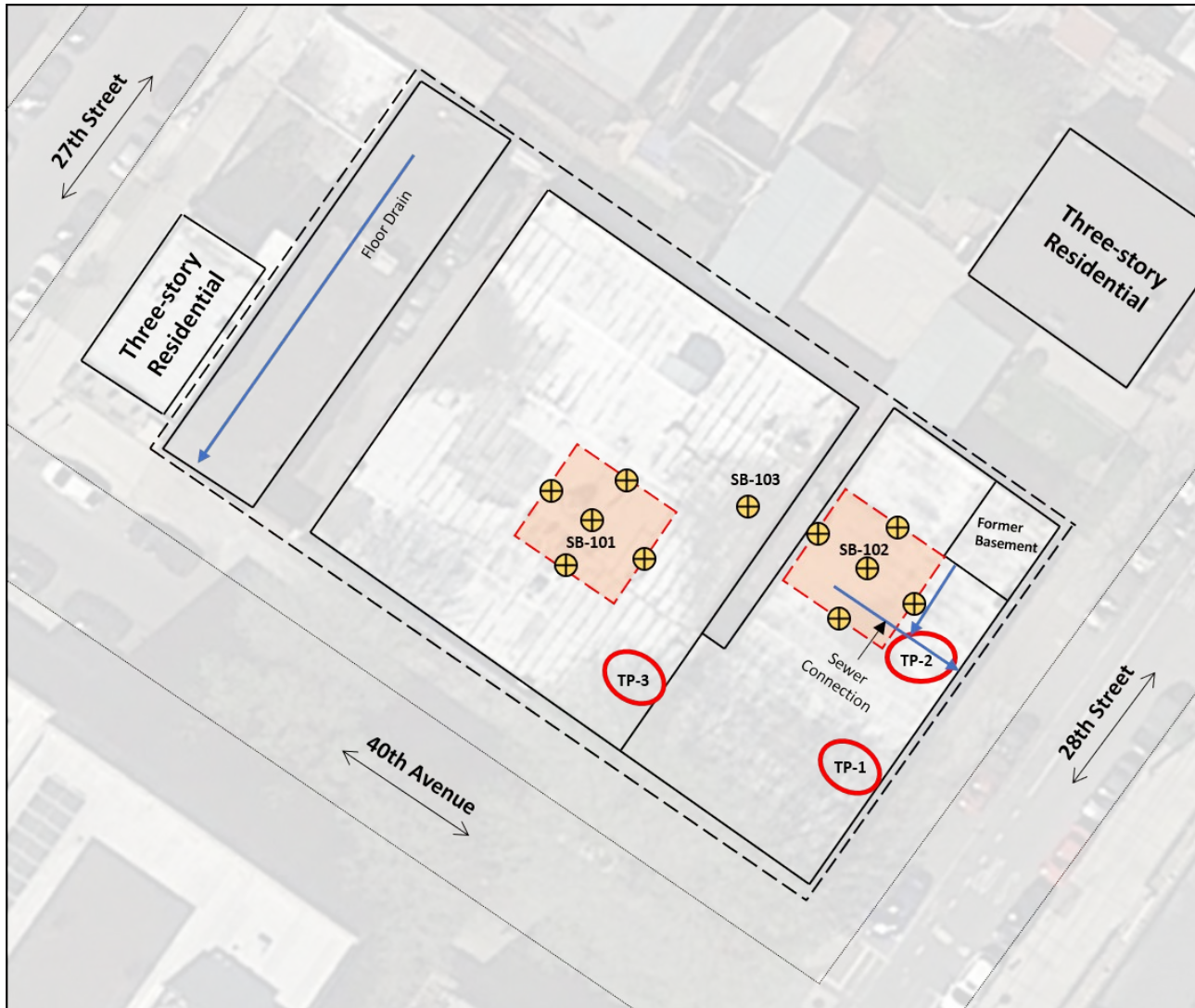
Jamie Burgher  
Geologist II



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Scott A. Yanuck  
President

Attachments: Site Sketch with Geophysical Anomalies  
Photo Log



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**FIGURE 1.0:**  
*Site Sketch with Geophysical Anomalies*

27-09 40<sup>th</sup> Avenue, Long Island City,  
New York

PROJECT #: 19-401  
DRAWING DATE: 6-29-20  
DRAWN BY: MO  
CHECKED BY: JB  
REVISIONS: NA

**KEY**

-  Proposed soil boring location
-  Test pit location
-  Proposed delineation area
-  Site boundary





**Photo 1, View of a water pipe located along the northern edge of the Site.**

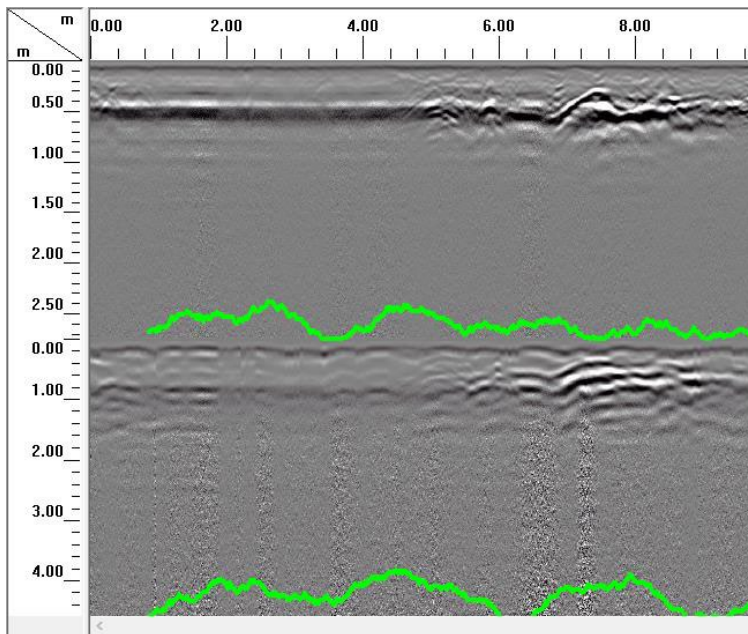


**Photo 2, View of the former basement on the eastern side of the Site.**



**Photo 3, View of the location of Test Pit ("TP")-1**





**Photo 4, View of a radargram from TP-1.**



**Photo 5, View of TP-1 being excavated.**

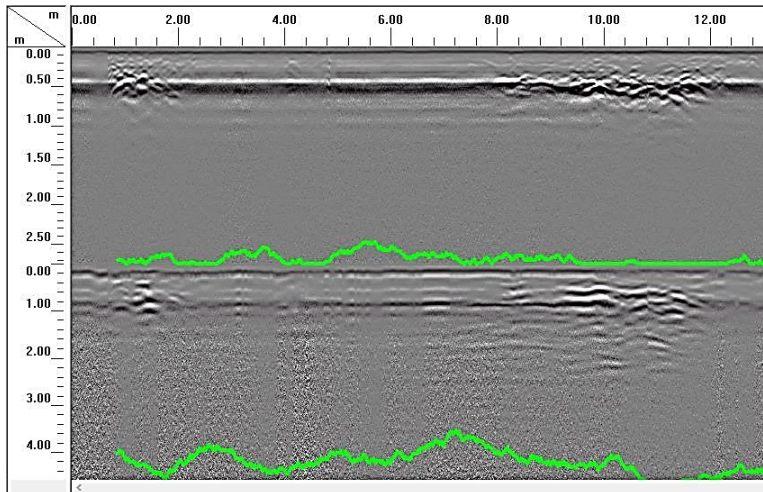


**Photo 6, View of roofing material from the TP-1 excavation.**





**Photo 7, View of the location of TP-2.**



**Photo 8, View of a radargram from TP-2.**



**Photo 9, View of TP-2 being excavated.**





**Photo 10, View of discolored soil with a strong chemical odor located in TP-2.**



**Photo 11, View of the discolored soil from TP-2 existing near the delineation soil boring area SB-102.**



**Photo 12, View of construction debris (e.g. bricks) being excavated from TP-3.**

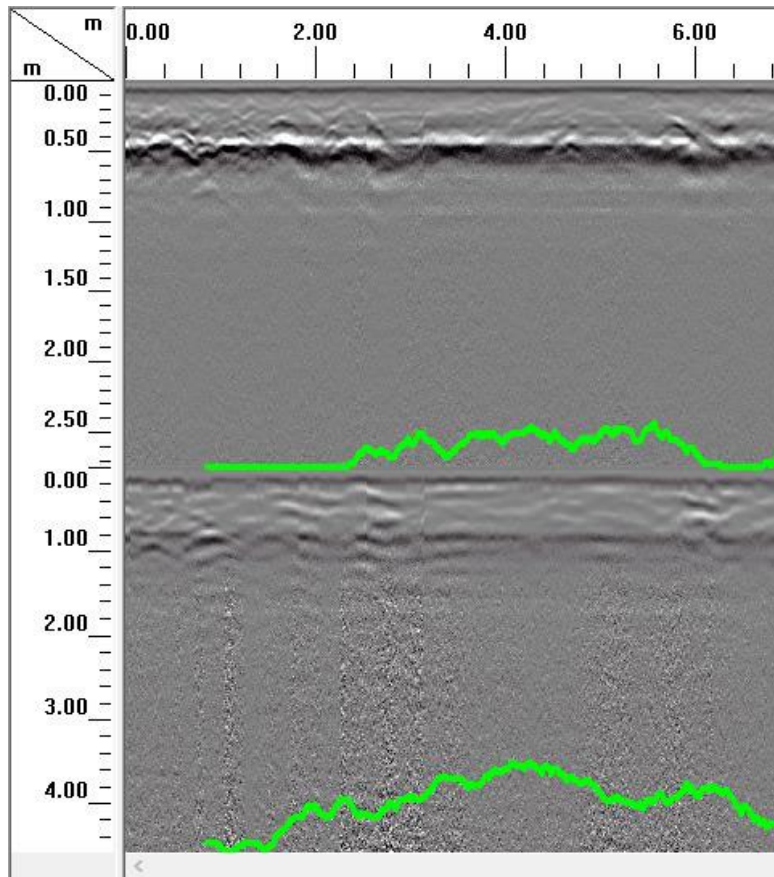


Photo 13, View of a radargram from TP-3.